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1.321.1 Available under license

1.322 postcss-focus-visible 6.0.4

1.322.1 Available under license

1.323 @babel/plugin-proposal-object-rest-spread 7.18.9

1.323.1 Available under license

1.324 escalade 3.1.1

1.324.1 Available under license

1.325 istanbuljs-load-nyc-config 1.1.0

1.325.1 Available under license

1.326 react-calendar 3.9.0

1.326.1 Available under license

1.327 @react-types/shared 3.16.0

1.327.1 Available under license

1.328 types-yargs 17.0.20

1.328.1 Available under license

1.329 set-harmonic-interval 1.0.1

1.329.1 Available under license

1.330 @grafana/schema 9.3.2

1.330.1 Available under license

1.331 @types/body-parser 1.19.2

1.331.1 Available under license

1.332 internal-slot 1.0.4

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1.333 terser 5.16.1

1.333.1 Available under license

1.334 @types/relateurl 0.2.29

1.334.1 Available under license

1.335 side-channel 1.0.4

1.335.1 Available under license

1.336 get-caller-file 2.0.5

1.337 jquery 3.6.1

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1.338 @babel/helper-simple-access 7.20.2

1.338.1 Available under license

1.339 mini-css-extract-plugin 2.7.2

1.339.1 Available under license

1.340 @babel/helper-builder-binary-assignment-operator-visitor 7.18.9

1.340.1 Available under license

1.341 css-escape 1.5.1

1.341.1 Available under license

1.342 types-react-dom 18.0.10

1.342.1 Available under license

1.343 emoji-regex v8.0.0

1.343.1 Available under license

1.344 node-ip 2.0.0

1.344.1 Available under license

1.345 @eslint/eslintrc 1.4.1

1.345.1 Available under license

1.346 lodash-merge 4.6.2

1.346.1 Available under license

1.347 is-number-object 1.0.7

1.347.1 Available under license

1.348 svgo 2.8.0

1.348.1 Available under license

1.349 @types/node 18.11.18

1.349.1 Available under license

1.350 @react-aria/utils 3.13.1

1.350.1 Available under license

1.351 prelude-ls 1.1.2

1.351.1 Available under license

1.352 readable-stream 3.6.0

1.352.1 Available under license

1.353 color-support 1.1.3

1.353.1 Available under license

1.354 @types/testing-library__jest-dom 5.14.5

1.354.1 Available under license

1.355 types-jest 27.4.1

1.355.1 Available under license

1.356 @babel/plugin-syntax-numeric-separator 7.10.4

1.356.1 Available under license

1.357 object.entries 1.1.6

1.357.1 Available under license

1.358 utila 0.4.0

1.358.1 Available under license

1.359 jest-test-sequencer 27.5.1

1.359.1 Available under license

1.360 isarray 0.0.1

1.360.1 Available under license

1.361 @types/semver 7.3.9

1.361.1 Available under license

1.362 agent-base 6.0.2

1.362.1 Available under license

1.363 jest-haste-map 27.5.1

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1.364 @jridgewell/source-map 0.3.2

1.364.1 Available under license

1.365 @babel/types 7.20.7

1.365.1 Available under license

1.366 @babel/helper-annotate-as-pure 7.18.6

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1.367 types-babel-traverse 7.18.3

1.367.1 Available under license

1.368 param-case 3.0.4

1.368.1 Available under license

1.369 @babel/plugin-transform-react-pure-annotations 7.18.6

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1.370 @babel/helper-module-imports 7.18.6

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1.371 json-stringify-pretty-compact 2.0.0
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1.372 require-directory 2.1.1
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1.373 @babel/helper-replace-supers 7.20.7
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1.374 watchman 2.0.2
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1.375 ajv-keywords 3.5.2
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1.376 nodeca-argparse 1.0.10
1.376.1 Available under license
1.377 ianstormtaylor/slate v0.22.10
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1.378 @sentry/types 6.19.7
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1.379 functional-red-black-tree 1.0.1
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1.380 jest-test-result 27.5.1
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1.381 strip-indent v3.0.0
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1.382 postcss-modules-values 4.0.0
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1.383 ianstormtaylor/slate 0.7.13
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1.385 to-space-case 1.0.0
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1.386 natural-compare 1.4.0
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1.387 samccone/chrome-trace-event 1.0.3
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1.388 react-popper 2.3.0
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1.389 object-assign 4.1.1
1.390 node-uuid 9.0.0

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1.393 human-signals 2.1.0
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1.394 @typescript-eslint/types 5.36.2
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1.395 d3-dsv v1.2.0
1.395.1 Available under license
1.396 protocol-buffers-schema 3.6.0
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1.397 postcss-focus-within 5.0.4
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1.398 eslint-plugin-react-hooks 4.6.0
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1.399 sax 1.2.4
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1.400 postcss-ordered-values 5.1.3
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1.401 @jridgewell/gen-mapping 0.3.2
1.401.1 Available under license
1.402 rc-tooltip 5.2.2
1.402.1 Available under license
1.403 detect-newline v3.1.0
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1.404 cssom 0.4.4
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1.405 d3-polygon v1.0.6
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1.406 node-lru-cache 5.1.1
1.406.1 Available under license
1.407 types-babel-template 7.4.1
1.407.1 Available under license
1.408 @react-aria/interactions 3.13.1
1.408.1 Available under license
1.409 postcss-normalize-unicode 5.1.1
1.409.1 Available under license

1.410 @mapbox/jsonlint-lines-primitives 2.0.2

1.410.1 Available under license

1.411 pretty-format 29.3.1

1.411.1 Available under license

1.412 postcss-double-position-gradients 3.1.2

1.412.1 Available under license

1.413 jest-regex-util 27.5.1

1.413.1 Available under license

1.414 @react-types/overlays 3.6.5

1.414.1 Available under license

1.415 browserify-resolve 1.22.1

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1.416 @react-types/button 3.7.0

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1.417 escodegen 2.0.0

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1.418 v8-compile-cache 2.3.0

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1.419 types-estree 1.0.0

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1.420 rc-virtual-list 3.4.13

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1.421 fastq 1.15.0

1.421.1 Available under license

1.422 eslint-plugin-react-hooks 4.3.0

1.422.1 Available under license

1.423 @babel/plugin-transform-shorthand-properties 7.18.6

1.423.1 Available under license

1.424 ol-mapbox-style 9.1.0

1.424.1 Available under license

1.425 typescript-eslint-eslint-plugin 5.36.2

1.425.1 Available under license

1.426 boolbase 1.0.0

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1.427 npm-run-path 4.0.1

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1.428 tiny-warning 0.0.3

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1.429 jest-environment-jsdom 27.5.1

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1.430 indent-string v4.0.0
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1.431 text-table 0.2.0
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1.433 has-symbols 1.0.3
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1.434 p-locate v5.0.0
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1.435 node-releases 2.0.8
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1.436 ansi-styles 5.2.0
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1.437 @react-stately/collections 3.5.1
1.437.1 Available under license
1.438 sindresorhus-globby 11.1.0
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1.439 @opentelemetry/api-metrics 0.33.0
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1.440 base64-js 1.5.1
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1.441 @react-stately/menu 3.4.1
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1.442 babel-plugin-polyfill-corejs2 0.3.3
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1.443 resolve-pathname 3.0.0
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1.444 rc-align 2.4.5
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1.445 js-tokens 4.0.0
1.446 postcss-modules-extract-imports 3.0.0
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1.447 postcss-replace-overflow-wrap 4.0.0
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1.448 css-in-js-utils 3.1.0
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1.449 picomatch 2.3.1

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1.450 aria-query 5.1.3

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1.451 fastest-stable-stringify 2.0.2

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1.452 babel-plugin-syntax-top-level-await 7.14.5

1.452.1 Available under license

1.453 rc-util v4.21.1

1.453.1 Available under license

1.454 @webassemblyjs/ast 1.11.1

1.454.1 Available under license

1.455 at-least-node 1.0.0

1.455.1 Available under license

1.456 node-xml 1.0.1

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1.457 @types/aria-query 5.0.1

1.457.1 Available under license

1.458 babel-helper-create-class-features-plugin 7.20.12

1.458.1 Available under license

1.459 lilconfig 2.0.6

1.459.1 Available under license

1.460 @types/tmp 0.2.3

1.460.1 Available under license

1.461 @babel/plugin-transform-for-of 7.18.8

1.461.1 Available under license

1.462 is-typedarray 1.0.0

1.462.1 Available under license

1.463 @grafana/faro-web-sdk 1.0.0-beta2

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1.464 es-to-primitive 1.2.1

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1.465 w3c-xmlserializer 2.0.0

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1.466 prompts 2.4.2

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1.467 fs-extra 9.1.0

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1.468 is-negative-zero 2.0.2

1.468.1 Available under license

1.469 @popperjs/core 2.11.6

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1.470 @webassemblyjs/wasm-edit 1.11.1

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1.471 data-urls 2.0.0

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1.472 es-set-tostringtag 2.0.1

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1.473 esprima 4.0.1

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1.474 is-core-module 2.11.0

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1.475 babel-runtime 6.26.0

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1.476 http-proxy 1.18.1

1.476.1 Available under license

1.477 babel-preset-typescript 7.18.6

1.477.1 Available under license

1.478 @opentelemetry/sdk-trace-base 1.8.0

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1.479 safer-buffer 2.1.2

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1.480 jest-fake-timers 27.5.1

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1.481 @jridgewell/trace-mapping 0.3.17

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1.482 csso 4.2.0

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1.483 type-fest 0.20.2

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1.484 p-try 2.2.0

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1.485 selection-is-backward 1.0.0

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1.486 lodash.debounce 4.0.8

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1.487 @types/js-cookie 2.2.7

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1.488 moo-color 1.0.3

1.488.1 Available under license

1.489 @csstools/postcss-normalize-display-values 1.0.1

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1.490 cliui v7.0.4

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1.491 uri-js 4.4.1

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1.492 path-exists 3.0.0

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1.493 void-elements 3.1.0

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1.494 follow-redirects 1.15.2

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1.495 define-lazy-prop 2.0.0

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1.496 ajv-formats 2.1.1

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1.497 @babel/plugin-transform-block-scoping 7.20.11

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1.498 tiny-invariant 1.3.1

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1.499 regexpu-core 5.2.2

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1.501 negotiator 0.6.3

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1.502 defaults 1.0.4

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1.503 memoize-one 6.0.0

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1.504 @react-aria/i18n 3.6.3

1.504.1 Available under license

1.505 @emotion/hash 0.9.0

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1.506 history v4.10.1

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1.507 find-up v5.0.0

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1.508 @react-stately/overlays 3.4.4
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1.509 string-width 4.2.3
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1.510 node-semver 6.3.0
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1.511 react-hook-form 7.5.3
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1.512 node-pngjs 6.0.0
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1.513 rimraf 3.0.2
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1.514 global-modules 2.0.0
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1.515 console-control-strings 1.1.0
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1.516 postcss-preset-env 7.4.3
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1.517 import-local 3.1.0
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1.518 cli-cursor v3.1.0
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1.519 is-plain-object 2.0.4
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1.521 json-parse-even-better-errors 2.3.1
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1.522 cssom 0.3.8
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1.523 yannickcr-eslint-plugin-react 7.29.4
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1.524 postcss-convert-values 5.1.3
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1.529 @babel/plugin-transform-sticky-regex 7.18.6

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1.530 sort-object 0.3.2

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1.531 babel-plugin-proposal-dynamic-import 7.18.6

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1.532 anymatch 3.1.3

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1.533 mathiasbynens-he v1.2.0

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1.534 fast-json-stable-stringify 2.1.0

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1.535 mathiasbynens's-esrever 0.2.0

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1.536 https-proxy-agent 5.0.1

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1.537 tmpl 1.0.5

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1.538 react-use 17.4.0

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1.539 @formatjs/fast-memoize 1.2.7

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1.540 sindresorhus-supports-color v7.2.0

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1.541 regexpp 3.2.0

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1.542 ini 1.3.8

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1.543 @emotion/react 11.10.5

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1.544 babel-plugin-transform-typescript 7.19.0

1.544.1 Available under license

1.545 @csstools/selector-specificity 2.1.0

1.545.1 Available under license

1.546 nth-check 2.1.1

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1.547 d3js 5.15.0

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1.548 @types/eslint 8.4.10

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1.549 test-exclude 6.0.0

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1.550 babel-plugin-polyfill-regenerator 0.4.1

1.550.1 Available under license

1.551 postcss-custom-selectors 6.0.3

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1.552 @grafana/e2e-selectors 9.3.2

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1.553 postcss-opacity-percentage 1.1.3

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1.554 get-stream 6.0.1

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1.555 jest-message-util 27.5.1

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1.556 isaacs-once 1.4.0

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1.557 is-arguments 1.1.1

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1.558 react-from-facebook 16.13.1

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1.559 @webassemblyjs/utf8 1.11.1

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1.560 @grafana/tsconfig 1.2.0-rc1

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1.561 html-encoding-sniffer 2.0.1

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1.562 decimal.js 10.4.3

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1.563 @react-aria/selection 3.12.1

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1.564 array-tree-filter 2.1.0

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1.565 @formatjs/intl-localematcher 0.2.32

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1.566 istanbul-lib-source-maps 4.0.1

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1.567 node-glob 8.1.0

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1.568 regenerator-runtime 0.11.1

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1.569 acorn 7.4.1

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1.570 delayed-stream 1.0.0

1.571 xml-name-validator 3.0.0

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1.572 @types/parse-json 4.0.0

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1.573 point-geometry 0.1.0

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1.574 css-prefers-color-scheme 6.0.3

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1.575 pirates 4.0.5

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1.576 @opentelemetry/api 1.4.0

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1.577 babel-plugin-proposal-nullish-coalescing-operator 7.18.6

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1.578 object-is 1.1.5

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1.579 has-flag 3.0.0

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1.580 jest-pnp-resolver 1.2.3

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1.581 rc-animate 2.11.1

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1.582 react-from-facebook 18.2.0

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1.583 rc-motion 2.6.3

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1.584 @babel/helper-member-expression-to-functions 7.20.7

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1.585 icss-utils 5.1.0

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1.586 lesscss 4.1.3

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1.588 @babel/plugin-syntax-class-static-block 7.14.5

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1.589 kossnocorp-date-fns 2.29.3

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1.590 punycode 2.3.0

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1.591 dom-helpers v5.2.1

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1.592 eslint-visitor-keys 2.1.0

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1.593 @babel/plugin-transform-object-super 7.18.6

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1.594 jest-get-type 29.2.0

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1.595 lodash 4.17.21

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1.596 sprintf-js 1.0.3

1.597 stylis 4.1.3

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1.598 is-array-buffer 3.0.1

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1.599 @es-joy/jsdoccomment 0.22.2

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1.600 mapbox-to-css-font 2.4.2

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1.601 jest-message-util 29.3.1

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1.602 unique-filename 2.0.1

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1.603 d3-color 1.4.1

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1.604 @babel/plugin-proposal-export-namespace-from 7.18.9

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1.605 webidl-conversions 6.1.0

1.605.1 Available under license

1.606 postcss-pseudo-class-any-link 7.1.6

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1.607 is-binary-path v2.1.0

1.607.1 Available under license

1.608 dir-glob 3.0.1

1.608.1 Available under license

1.609 @grafana/faro-core 1.0.0-beta4

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1.610 electron-to-chromium 1.4.284

1.610.1 Available under license

1.611 uplot 1.6.23

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1.612 caniuse-api 3.0.0

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1.613 min-indent 1.0.1

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1.614 prettier 2.7.1

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1.615 ts-node 9.1.1

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1.616 unicode-canonical-property-names-ecmascript 2.0.0

1.616.1 Available under license

1.617 types-lodash 4.14.191

1.617.1 Available under license

1.618 queue-microtask 1.2.3

1.618.1 Available under license

1.619 file-entry-cache 6.0.1

1.619.1 Available under license

1.620 regjsgen 0.7.1

1.620.1 Available under license

1.621 regjsparser 0.9.1

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1.622 @babel/plugin-syntax-import-meta 7.10.4

1.622.1 Available under license

1.623 domutils 2.8.0

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1.624 @babel/plugin-transform-typeof-symbol 7.18.9

1.624.1 Available under license

1.625 parse-json v5.2.0

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1.626 @internationalized/number 3.1.2

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1.627 whatwg-url v8.7.0

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1.628 spdx-expression-parse 3.0.1

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1.629 state-local 1.0.7

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1.630 @typescript-eslint/type-utils 5.16.0

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1.631 @babel/plugin-proposal-class-properties 7.18.6

1.631.1 Available under license

1.632 testing-library-dom 8.20.0

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1.633 @typescript-eslint/utils 5.36.2

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1.634 optionator 0.8.3

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1.635 normalize-range 0.1.2

1.635.1 Available under license

1.636 stackframe 1.3.4

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1.637 commander 9.5.0

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1.638 @babel/plugin-transform-modules-amd 7.20.11

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1.639 yocto-queue 0.1.0

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1.640 mdn-data 2.0.14

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1.641 jest-environment-node 27.5.1

1.641.1 Available under license

1.642 jest-config 27.5.1

1.642.1 Available under license

1.643 inline-style-prefixer 6.0.4

1.643.1 Available under license

1.644 buffer-from 1.1.2

1.644.1 Available under license

1.645 jest-core 27.5.1

1.645.1 Available under license

1.646 lower-case 2.0.2

1.646.1 Available under license

1.647 pbf 3.2.1

1.647.1 Available under license

1.648 @webassemblyjs/helper-wasm-bytecode 1.11.1

1.648.1 Available under license

1.649 babel-plugin-polyfill-regenerator 0.3.1

1.649.1 Available under license

1.650 dom-serializer 1.4.1

1.650.1 Available under license

1.651 rc-overflow 1.2.8

1.651.1 Available under license

1.652 ts-easing 0.2.0

1.652.1 Available under license

1.653 p-limit 3.1.0

1.653.1 Available under license

1.654 redux 4.2.0

1.654.1 Available under license

1.655 resolve-from 4.0.0

1.656 @wojtekmaj/date-utils 1.0.3

1.656.1 Available under license

1.657 postcss-discard-overridden 5.1.0

1.657.1 Available under license

1.658 cacache 16.1.3

1.658.1 Available under license

1.659 pixelmatch 5.3.0

1.659.1 Available under license

1.660 es-get-iterator 1.1.3

1.660.1 Available under license

1.661 lz-string 1.4.4

1.661.1 Available under license

1.662 @internationalized/date 3.0.2

1.662.1 Available under license

1.663 lerc 3.0.0

1.663.1 Available under license

1.664 xmlchars 2.2.0

1.664.1 Available under license

1.665 is-map 2.0.2

1.665.1 Available under license

1.666 has-property-descriptors 1.0.0

1.666.1 Available under license

1.667 postcss-env-function 4.0.6

1.667.1 Available under license

1.668 react-i18next 12.1.4

1.668.1 Available under license

1.669 levn 0.4.1

1.669.1 Available under license

1.670 css-box-model 1.2.1

1.670.1 Available under license

1.671 @emotion/serialize 1.1.1

1.671.1 Available under license

1.672 typescript 4.6.4

1.672.1 Available under license

1.673 postcss-attribute-case-insensitive 5.0.2

1.673.1 Available under license

1.674 postcss-minify-selectors 5.2.1

1.674.1 Available under license

1.675 jest-runner 27.5.1

1.675.1 Available under license

1.676 node-int64 0.4.0

1.676.1 Available under license

1.677 is-lambda 1.0.1

1.677.1 Available under license

1.678 spdx-exceptions 2.3.0

1.678.1 Available under license

1.679 react-select-event 5.5.1

1.679.1 Available under license

1.680 http-proxy-agent 4.0.1

1.680.1 Available under license

1.681 minipass 3.3.6

1.681.1 Available under license

1.682 markedjs 4.2.0

1.682.1 Available under license

1.683 @xtuc/long 4.2.2

1.683.1 Available under license

1.684 iconv-lite 0.6.3

1.684.1 Available under license

1.685 error-stack-parser 2.1.4

1.685.1 Available under license

1.686 domexception 2.0.1

1.686.1 Available under license

1.687 resolve-from 5.0.0

1.687.1 Available under license

1.688 classes 1.2.6

1.688.1 Available under license

1.689 netroy-image-size 0.5.5

1.689.1 Available under license

1.690 react-transition-group 4.4.5

1.690.1 Available under license

1.691 @babel/plugin-proposal-logical-assignment-operators 7.20.7

1.691.1 Available under license

1.692 d3-contour 1.3.2

1.692.1 Available under license

1.693 @types/eslint 8.4.1

1.693.1 Available under license

1.694 braces 3.0.2

1.694.1 Available under license

1.695 run-parallel v1.2.0

1.695.1 Available under license

1.696 source-map 0.5.6

1.696.1 Available under license

1.697 import-fresh 3.3.0

1.697.1 Available under license

1.698 eslint-visitor-keys 3.3.0

1.698.1 Available under license

1.699 babel-plugin-transform-react-constant-elements 7.18.9

1.699.1 Available under license

1.700 react-select 5.6.0

1.700.1 Available under license

1.701 balanced-match 1.0.2

1.701.1 Available under license

1.702 jest-diff 27.5.1

1.702.1 Available under license

1.703 fast-shallow-equal 1.0.0

1.703.1 Available under license

1.704 tootallnate-once 1.1.2

1.704.1 Available under license

1.705 @babel/generator 7.20.7

1.705.1 Available under license

1.706 @types/qs 6.9.7

1.706.1 Available under license

1.707 cjs-module-lexer 1.2.2

1.707.1 Available under license

1.708 is-in-browser 1.1.3

1.708.1 Available under license

1.709 symbol-tree 3.2.4

1.709.1 Available under license

1.710 node-source-map-support 0.5.21

1.710.1 Available under license

1.711 @braintree/sanitize-url 6.0.1

1.711.1 Available under license

1.712 web-vitals 3.1.1

1.712.1 Available under license

1.713 webpack 5.75.0

1.713.1 Available under license

1.714 resolve-protobuf-schema 2.1.0

1.714.1 Available under license

1.715 @trysound/sax 0.2.0

1.715.1 Available under license

1.716 type-of 2.0.1

1.716.1 Available under license

1.717 d3-drag 1.2.5

1.717.1 Available under license

1.718 react-popper-tooltip 4.4.2

1.718.1 Available under license

1.719 char-regex 1.0.2

1.719.1 Available under license

1.720 is-date-object 1.0.5

1.720.1 Available under license

1.721 @types/html-minifier-terser 6.1.0

1.721.1 Available under license

1.722 get-user-locale 1.5.1

1.722.1 Available under license

1.723 binutils 3.21.0

1.723.1 Available under license

1.724 @types/prop-types 15.7.5

1.724.1 Available under license

1.725 colord 2.9.3

1.725.1 Available under license

1.726 @types/inquirer 8.2.5

1.726.1 Available under license

1.727 color-name 1.1.3

1.727.1 Available under license

1.728 d3-scale-chromatic 1.5.0

1.728.1 Available under license

1.729 util-deprecate 1.0.2

1.730 sort-asc 0.1.0

1.730.1 Available under license

1.731 jest-resolve-dependencies 27.5.1

1.731.1 Available under license

1.732 isexe 2.0.0

1.732.1 Available under license

1.733 invariant 2.2.4

1.734 resolve.exports 1.1.1

1.734.1 Available under license

1.735 @ampproject/remapping 2.2.0

1.735.1 Available under license

1.736 inquirer 8.2.5

1.736.1 Available under license

1.737 is-hotkey 0.1.4

1.737.1 Available under license

1.738 prefix-style 2.0.1

1.738.1 Available under license

1.739 postcss-place 7.0.5

1.739.1 Available under license

1.740 @sentry/core 6.19.7

1.740.1 Available under license

1.741 path-is-absolute 1.0.1

1.742 @babel/core 7.20.12

1.742.1 Available under license

1.743 d3-fetch 1.2.0

1.743.1 Available under license

1.744 wide-align 1.1.5

1.744.1 Available under license

1.745 @emotion/weak-memoize 0.3.0

1.745.1 Available under license

1.746 @babel/plugin-proposal-optional-catch-binding 7.18.6

1.746.1 Available under license

1.747 exenv 1.2.2

1.747.1 Available under license

1.748 postcss-image-set-function 4.0.7

1.748.1 Available under license

1.749 @react-aria/menu 3.6.1

1.749.1 Available under license

1.750 path-exists 4.0.0

1.750.1 Available under license

1.751 @types/tapable 1.0.8

1.751.1 Available under license

1.752 @csstools/postcss-hwb-function 1.0.2

1.752.1 Available under license

1.753 source-map 0.5.7

1.754 cssesc 3.0.0

1.755 d3-quadtree v1.0.7

1.755.1 Available under license

1.756 lodash.memoize 4.1.2

1.756.1 Available under license

1.757 @babel/plugin-transform-new-target 7.18.6

1.757.1 Available under license

1.758 @babel/preset-react 7.18.6

1.758.1 Available under license

1.759 jest-types 29.3.1

1.759.1 Available under license

1.760 readdirp 3.6.0

1.760.1 Available under license

1.761 ajv 6.12.6

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1.762 add-px-to-style 1.0.0

1.762.1 Available under license

1.763 expect 29.3.1

1.763.1 Available under license

1.764 terminal-link 2.1.1

1.764.1 Available under license

1.765 @babel/helper-string-parser 7.19.4

1.765.1 Available under license

1.766 d3-force 1.2.1

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1.767 which 1.3.1

1.768 node-promise-retry 2.0.1

1.768.1 Available under license

1.769 memfs 3.4.13

1.769.1 Available under license

1.770 chalk 2.4.2

1.770.1 Available under license

1.771 rc-tree 5.7.2

1.771.1 Available under license

1.772 react-immutable-proptypes 2.2.0

1.772.1 Available under license

1.773 jest-changed-files 27.5.1

1.773.1 Available under license

1.774 babel-plugin-proposal-optional-chaining 7.18.9

1.774.1 Available under license

1.775 spdx-license-ids 3.0.12

1.775.1 Available under license

1.776 @humanwhocodes/config-array 0.9.5

1.776.1 Available under license

1.777 @typescript-eslint/visitor-keys 5.16.0

1.777.1 Available under license

1.778 type-check 0.3.2

1.779 path-key 3.1.1

1.779.1 Available under license

1.780 typescript-eslint-typescript-estree 5.16.0

1.780.1 Available under license

1.781 emittery v0.8.1

1.781.1 Available under license

1.782 requires-port 1.0.0

1.782.1 Available under license

1.783 moment-timezone 0.5.38

1.783.1 Available under license

1.784 js-xss 1.0.14

1.784.1 Available under license

1.785 fs.realpath 1.0.0

1.785.1 Available under license

1.786 err-code 2.0.3

1.786.1 Available under license

1.787 strip-bom 4.0.0

1.787.1 Available under license

1.788 intl-messageformat 10.2.5

1.788.1 Available under license

1.789 earcut 2.2.4

1.789.1 Available under license

1.790 estraverse 5.3.0

1.790.1 Available under license

1.791 fraction.js 4.2.0

1.791.1 Available under license

1.792 domhandler 4.3.1

1.792.1 Available under license

1.793 is-callable 1.2.7

1.793.1 Available under license

1.794 @floating-ui/dom 1.1.0

1.794.1 Available under license

1.795 cssnano 5.1.14

1.795.1 Available under license

1.796 http-cache-semantics 4.1.0

1.796.1 Available under license

1.797 jsesc 0.5.0

1.797.1 Available under license

1.798 d3-collection 1.0.7

1.798.1 Available under license

1.799 postcss-normalize-charset 5.1.0

1.799.1 Available under license

1.800 postcss-lab-function 4.2.1

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1.801 type-fest 0.21.3

1.801.1 Available under license

1.802 is-plain-obj 3.0.0

1.802.1 Available under license

1.803 sindresorhus/is-stream 2.0.1

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1.804 has-proto 1.0.1

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1.805 postcss-merge-rules 5.1.3

1.805.1 Available under license

1.806 abab 2.0.6

1.806.1 Available under license

1.807 @types/express-serve-static-core 4.17.32

1.807.1 Available under license

1.808 jsesc v2.5.2

1.808.1 Available under license

1.809 typedarray-to-buffer 3.1.5

1.809.1 Available under license

1.810 shallowequal 1.1.0

1.810.1 Available under license

1.811 copy-to-clipboard 3.3.3

1.811.1 Available under license

1.812 @babel/helper-explode-assignable-expression 7.18.6

1.812.1 Available under license

1.813 acorn-import-assertions 1.8.0

1.813.1 Available under license

1.814 types-uglify-js 3.17.1

1.814.1 Available under license

1.815 restore-cursor v3.1.0

1.815.1 Available under license

1.816 hyphenate-style-name 1.0.4

1.816.1 Available under license

1.817 is-fullwidth-code-point 3.0.0

1.818 @typescript-eslint/type-utils 5.36.2

1.818.1 Available under license

1.819 sindresorhus-globals 13.19.0

1.819.1 Available under license

1.820 sindresorhus/normalize-url 6.1.0

1.820.1 Available under license

1.821 jest-environment 27.5.1

1.821.1 Available under license

1.822 sindresorhus-supports-color 8.1.1

1.822.1 Available under license

1.823 levn 0.3.0

1.823.1 Available under license

1.824 eslint-config-prettier 8.5.0

1.824.1 Available under license

1.825 klona 2.0.6

1.825.1 Available under license

1.826 acorn-globals 6.0.0

1.826.1 Available under license

1.827 word-wrap 1.2.3

1.827.1 Available under license

1.828 gzip-size 6.0.0

1.828.1 Available under license

1.829 postcss-selector-parser 6.0.11

1.829.1 Available under license

1.830 warning 4.0.3

1.830.1 Available under license

1.831 types-react-transition-group 4.4.5

1.831.1 Available under license

1.832 openlayers 7.1.0

1.832.1 Available under license

1.833 @grafana/data 9.3.2

1.833.1 Available under license

1.834 d3-axis 1.0.12

1.834.1 Available under license

1.835 update-browserslist-db 1.0.10

1.835.1 Available under license

1.836 types-estree 0.0.51

1.836.1 Available under license

1.837 @petamoriken/float16 3.7.1

1.837.1 Available under license

1.838 istanbul-lib-coverage 3.2.0

1.838.1 Available under license

1.839 xml-utils 1.3.0

1.839.1 Available under license

1.840 mute-stream 0.0.8

1.841 d3-time 1.1.0

1.841.1 Available under license

1.842 node-external-editor 3.1.0

1.842.1 Available under license

1.843 @emotion/utils 1.2.0

1.843.1 Available under license

1.844 is-weakset 2.0.2

1.844.1 Available under license

1.845 jest-canvas-mock 2.3.1

1.845.1 Available under license

1.846 doctrine v3.0.0

1.846.1 Available under license

1.847 tapable 2.2.1

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1.848 cssdb 6.6.3

1.848.1 Available under license

1.849 camelcase 6.3.0

1.849.1 Available under license

1.850 cli-spinners 2.7.0

1.850.1 Available under license

1.851 @babel/plugin-proposal-private-methods 7.18.6

1.851.1 Available under license

1.852 @react-aria/visually-hidden 3.6.1

1.852.1 Available under license

1.853 locate-path v5.0.0

1.853.1 Available under license

1.854 @webassemblyjs/wasm-opt 1.11.1

1.854.1 Available under license

1.855 types-stack-utils 2.0.1

1.855.1 Available under license

1.856 @babel/helper-validator-identifier 7.19.1

1.856.1 Available under license

1.857 rw 1.3.3

1.857.1 Available under license

1.858 add-dom-event-listener 1.1.0

1.858.1 Available under license

1.859 is-boolean-object 1.1.2

1.859.1 Available under license

1.860 tar 6.1.13

1.860.1 Available under license

1.861 flat-cache 3.0.4

1.861.1 Available under license

1.862 tomas-needle 3.2.0

1.862.1 Available under license

1.863 @types/clean-css 4.2.6

1.863.1 Available under license

1.864 @babel/plugin-transform-named-capturing-groups-regex 7.20.5

1.864.1 Available under license

1.865 reusify 1.0.4
1.865.1 Available under license
1.866 types-istanbul-lib-coverage 2.0.4
1.866.1 Available under license
1.867 immer 9.0.18
1.867.1 Available under license
1.868 co 4.6.0
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1.869 jest-runtime 27.5.1
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1.870 postcss-normalize-positions 5.1.1
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1.871 os-tmpdir 1.0.2
1.872 istanbul-reports 3.1.5
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1.873 css-declaration-sorter 6.3.1
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1.874 functions-have-names 1.2.3
1.874.1 Available under license
1.875 testing-library-jest-dom 5.16.5
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1.876 nano-css 5.3.5
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1.877 @sinonjs/fake-timers 8.1.0
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1.878 typescript 4.8.2
1.878.1 Available under license
1.879 dom-align 1.12.4
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1.880 jsdom 16.7.0
1.880.1 Available under license
1.881 stacktracejs v2.0.2
1.881.1 Available under license
1.882 serialize-javascript 6.0.1
1.882.1 Available under license
1.883 @react-aria/focus 3.8.0
1.883.1 Available under license
1.884 parse5 6.0.1
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1.885 @react-stately/selection 3.11.2

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1.886 chownr 2.0.0

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1.887 ljharb-object-assign 4.1.4

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1.888 terser-webpack-plugin 5.3.6

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1.889 watchman 2.1.1

1.889.1 Available under license

1.890 @csstools/postcss-progressive-custom-properties 1.3.0

1.890.1 Available under license

1.891 node-lru-cache 7.14.1

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1.892 types-glob 8.0.1

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1.893 array-prototype-flatmap 1.3.1

1.893.1 Available under license

1.894 screenfull 5.2.0

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1.895 @babel/plugin-transform-unicode-escapes 7.18.10

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1.896 p-locate 3.0.0

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1.897 replace-in-file-webpack-plugin 1.0.6

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1.898 minimist 1.2.7

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1.899 ts-loader 9.4.2

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1.900 isarray 2.0.5

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1.901 sindresorhus-globals 11.12.0

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1.902 indexof-component 0.0.3

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1.903 gozala-events 3.3.0

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1.904 @babel/template 7.20.7

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1.905 file-selector 0.6.0
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1.906 imurmurhash 0.1.4
1.907 moment/moment 2.29.4
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1.908 typescript-eslint-typescript-estree 5.36.2
1.908.1 Available under license
1.909 @jest/globals 27.5.1
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1.910 ianstormtaylor/slate v0.2.5
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1.911 node-open 8.4.0
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1.912 parse-node-version 1.0.1
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1.913 types-webpack-sources 3.2.0
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1.914 d3-shape v1.3.7
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1.915 cosmiconfig 6.0.0
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1.916 socks-proxy-agent 7.0.0
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1.917 to-regex-range 5.0.1
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1.918 debug-js/debug 4.3.4
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1.919 systemjs 0.20.19
1.919.1 Available under license
1.920 schema-utils v2.7.0
1.920.1 Available under license
1.921 make-dir 2.1.0
1.921.1 Available under license
1.922 @babel/plugin-transform-modules-umd 7.18.6
1.922.1 Available under license
1.923 d3-chord 1.0.6
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1.924 wcwidth 1.0.1

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1.925 minipass-pipeline 1.2.4

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1.926 @babel/plugin-bugfix-safari-id-destructuring-collision-in-function-expression 7.18.6

1.926.1 Available under license

1.927 @babel/helper-environment-visitor 7.18.9

1.927.1 Available under license

1.928 deep-is 0.1.4

1.928.1 Available under license

1.929 pascal-case 3.1.2

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1.930 @react-types/dialog 3.4.5

1.930.1 Available under license

1.931 regexp-prototype-flags 1.4.3

1.931.1 Available under license

1.932 acorn 8.8.1

1.932.1 Available under license

1.933 postcss-merge-longhand 5.1.7

1.933.1 Available under license

1.934 @formatjs/icu-skeleton-parser 1.3.18

1.934.1 Available under license

1.935 postcss-svgo 5.1.0

1.935.1 Available under license

1.936 make-fetch-happen 10.2.1

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1.937 d3-transition v1.3.2

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1.938 @jest/schemas 29.0.0

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1.939 chokidar 3.5.3

1.939.1 Available under license

1.940 rc-select 14.1.16

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1.941 types-babel-core 7.20.0

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1.942 is-number 7.0.0

1.943 core-js v2.6.12

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1.944 postcss-modules-scope 3.0.0

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1.945 is-window 1.0.2

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1.946 use-isomorphic-layout-effect 1.1.2

1.946.1 Available under license

1.947 typescript-eslint-eslint-plugin 5.16.0

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1.948 @webassemblyjs/wasm-parser 1.11.1

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1.949 shebang-command 2.0.0

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1.950 callsites 3.1.0

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1.951 call-bind 1.0.2

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1.952 csstype 3.1.1

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1.953 @opentelemetry/otlp-transformer 0.34.0

1.953.1 Available under license

1.954 microsoft/tslib 1.14.1

1.954.1 Available under license

1.955 @types/http-proxy 1.17.9

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1.956 errno 0.1.8

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1.957 @react-aria/ssr 3.4.1

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1.958 expect 27.5.1

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1.959 abbrev 1.1.1

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1.960 js-yaml-native-js-port-of-pyyaml 4.1.0

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1.961 simple-is 0.2.0

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1.962 @webassemblyjs/wasm-gen 1.11.1

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1.963 @babel/plugin-transform-async-to-generator 7.20.7

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1.964 duplexer v0.1.2

1.964.1 Available under license

1.965 types-hoist-non-react-statics 3.3.1

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1.966 attr-accept v2.2.2

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1.967 path-parse 1.0.7

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1.968 @xobotyi/scrollbar-width 1.9.5

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1.969 web-worker 1.2.0

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1.970 css-animation 1.6.1

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1.971 dot-case 3.0.4

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1.972 source-map-js 1.0.2

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1.973 @babel/plugin-transform-regenerator 7.20.5

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1.974 rc-resize-observer 1.2.1

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1.975 @sinonjs/commons 1.8.6

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1.976 uaparser-js 1.0.32

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1.977 babel-helper-create-regexp-features-plugin 7.20.5

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1.978 commander v2.20.3

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1.979 unicode-property-aliases-ecmascript 2.1.0

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1.980 cssfilter 0.0.10

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1.981 url-parse 1.5.10

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1.982 papa-parse 5.3.2

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1.983 @babel/helper-wrap-function 7.20.5

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1.984 types-react-redux 7.1.25

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1.986 react-colorful 5.6.1

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1.987 node-jsonfile 6.1.0

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1.988 postcss-normalize-display-values 5.1.1

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1.989 command-exists 1.2.9

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1.990 @types/connect 3.4.35

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1.991 @babel/plugin-syntax-optional-catch-binding 7.8.3

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1.992 postcss-font-variant 5.0.0

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1.993 prop-types 15.8.1

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1.994 eventemitter3 4.0.7

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1.995 wrap-ansi v7.0.0

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1.996 babel-plugin-macros 3.1.0

1.996.1 Available under license

1.997 d3-path 1.0.9

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1.998 @babel/plugin-syntax-logical-assignment-operators 7.10.4

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1.999 performance-now 2.1.0

1.1000 fs-minipass v2.1.0

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1.1001 jest-transform 27.5.1

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1.1002 inherits v2.0.4

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1.1003 dom-css 2.1.0

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1.1004 unbox-primitive 1.0.2

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1.1005 postcss-logical 5.0.4

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1.1006 strip-json-comments 3.1.1

1.1006.1 Available under license

1.1007 ianstormtaylor/slate 0.2.115

1.1007.1 Available under license

1.1008 @babel/plugin-proposal-private-property-in-object 7.20.5

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1.1009 glob-to-regexp 0.4.1

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1.1010 form-data 3.0.1

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1.1011 d3-time-format 2.3.0

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1.1012 @babel/plugin-syntax-dynamic-import 7.8.3

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1.1013 postcss-overflow-shorthand 3.0.4

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1.1014 color-name 1.1.4

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1.1015 jest-reporters 27.5.1

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1.1016 regenerate-unicode-properties 10.1.0

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1.1017 camelcase 4.1.2

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1.1018 types-istanbul-reports 3.0.1

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1.1019 @babel/helper-optimise-call-expression 7.18.6

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1.1020 d3-ease 1.0.7

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1.1021 @types/range-parser 1.2.4

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1.1022 minizlib v2.1.2

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1.1023 object-inspect 1.12.3

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1.1024 react-universal-interface 0.6.2

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1.1025 typescript-eslint-parser 5.16.0

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1.1026 parse-headers 2.0.5

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1.1027 agentkeepalive 4.2.1

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1.1028 @sinclair/typebox 0.24.51

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1.1029 fs-monkey 1.0.3

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1.1030 sourcemap-codec 1.4.8

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1.1031 y18n 5.0.8

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1.1032 @types/react 18.0.27

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1.1033 path-to-regexp 1.8.0

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1.1034 are-we-there-yet 3.0.1

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1.1035 @babel/plugin-transform-computed-properties 7.20.7

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1.1036 postcss-normalize-url 5.1.0

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1.1037 is-set 2.0.2

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1.1038 es-abstract 1.21.1

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1.1039 @csstools/postcss-font-format-keywords 1.0.1

1.1039.1 Available under license

1.1040 @react-aria/utils 3.14.2

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1.1041 postcss-color-hex-alpha 8.0.4

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1.1042 react-custom-scrollbars-2 4.5.0

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1.1043 postcss-colormin 5.3.0

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1.1044 tapable 1.1.3

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1.1045 @typescript-eslint/utils 5.16.0

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1.1047 nodejs-exit 0.1.2

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1.1048 shebang-regex 3.0.0

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1.1050 @babel/plugin-syntax-jsx 7.18.6

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1.1051 @npmcli/fs 2.1.2

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1.1052 source-map 0.6.1

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1.1053 encoding v0.1.13

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1.1055 autoprefixer 10.4.13

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1.1056 fs-extra 10.1.0

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1.1057 is-potential-custom-element-name 1.0.1

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1.1058 fast-deep-equal v3.1.3

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1.1059 whatwg-mimetype 2.3.0

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1.1060 @babel/plugin-proposal-json-strings 7.18.6

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1.1061 get-symbol-description 1.0.0

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1.1063 @babel/plugin-transform-arrow-functions 7.20.7

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1.1064 postcss-discard-duplicates 5.1.0

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1.1065 object-keys 1.1.1

1.1066 @babel/helper-define-polyfill-provider 0.3.3

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1.1067 minipass-collect 1.0.2

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1.1068 eslint-scope v5.1.1

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1.1069 string-prototype-trimstart 1.0.6

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1.1070 @babel/plugin-syntax-class-properties 7.12.13

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1.1071 calculate-size 1.1.1

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1.1072 d3-array 1.2.4

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1.1073 postcss-normalize-display-values 5.1.0

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1.1074 @webassemblyjs/ieee754 1.11.1

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1.1075 @adobe/css-tools 4.0.2

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1.1076 camelcase 5.3.1

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1.1077 @typescript-eslint/scope-manager 5.16.0

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1.1078 tinycolor 1.4.2

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1.1079 node-lru-cache 6.0.0

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1.1080 @jridgewell/sourcemap-codec 1.4.14

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1.1081 react-redux 7.2.9

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1.1082 css-blank-pseudo 3.0.3

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1.1083 @babel/plugin-transform-function-name 7.18.9

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1.1084 postcss-normalize-whitespace 5.1.1

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1.1085 babel-plugin-proposal-optional-chaining 7.20.7

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1.1091 unicode-match-property-value-ecmascript 2.1.0

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1.1094 string-prototype-matchall 4.0.8

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1.1095 jest-get-type 27.5.1

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1.1096 object.values 1.1.6

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1.1097 jest-source-map 27.5.1

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1.1098 env-paths 2.2.1

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1.1099 @jridgewell/gen-mapping 0.1.1

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1.1100 asynckit 0.4.0

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1.1101 @internationalized/message 3.0.10

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1.1102 mapbox-gl-style-spec 13.28.0

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1.1103 nodeca-pako 2.1.0

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1.1104 @babel/plugin-bugfix-v8-spread-parameters-in-optional-chaining 7.20.7

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1.1105 js-yaml-native-js-port-of-pyyaml 3.14.1

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1.1106 @react-aria/button 3.6.1

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1.1107 convert-source-map 1.9.0

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1.1108 i18next/i18next 22.4.9

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1.1109 types-webpack 4.41.33

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1.1112 pretty-error 4.0.0

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1.1114 @babel/plugin-transform-react-jsx-development 7.18.6

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1.1115 @babel/compat-data 7.20.10

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1.1117 react-lifecycles-compat 3.0.4

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1.1123 chalk 4.1.2

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1.1124 node-error-ex 1.3.2

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1.1125 babel-plugin-syntax-optional-chaining 7.8.3

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1.1126 types-lodash 4.14.181

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1.1127 minipass-fetch 2.1.2

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1.1128 jest-matcher-utils 27.5.1

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1.1130 ssri 9.0.1

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1.1131 @monaco-editor/loader 1.3.2

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1.1132 @babel/plugin-syntax-object-rest-spread 7.8.3

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1.1133 browser-process-hrtime 1.0.0

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1.1134 @sentry/minimal 6.19.7

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1.1135 merge2 1.4.1

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1.1136 @types/serve-static 1.15.0

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1.1137 mime 1.6.0

1.1138 @emotion/css 11.10.5

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1.1139 log-symbols 4.1.0

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1.1140 @babel/plugin-transform-literals 7.18.9

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1.1142 nwsapi 2.2.2

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1.1147 stacktrace-gps 3.1.2

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1.1151 deepmerge 4.2.2

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1.1152 ansi-styles 3.2.1

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1.1154 postcss-modules-local-by-default 4.0.0

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1.1155 jest-from-facebook 29.3.1

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1.1156 @bcoe/v8-coverage 0.2.3

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1.1157 sindresorhus-slash v3.0.0

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1.1158 http-proxy-agent 5.0.0

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1.1159 react-table 7.8.0

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1.1160 mkdirp 1.0.4

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1.1161 d3-format 1.4.5

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1.1163 toggle-selection 1.0.6

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1.1166 @babel/plugin-syntax-export-namespace-from 7.8.3

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1.1189 rxjs 7.5.7

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1.1190 promise-inflight 1.0.1

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1.1191 @babel/plugin-transform-modules-systemjs 7.20.11

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1.1192 write-file-atomic 3.0.3

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1.1194 rc-trigger 5.3.4

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1.1195 locate-path 3.0.0

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1.1196 csscolorparser 1.0.3

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1.1198 @emotion/babel-plugin 11.10.5

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1.1203 babel-plugin-polyfill-corejs3 0.5.3

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1.1204 yn v3.1.1

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1.1205 @react-types/menu 3.7.3

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1.1206 rtl-css 1.16.1

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1.1211 get-package-type 0.1.0

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1.1212 @grafana/toolkit 9.3.2

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1.1213 make-dir 3.1.0

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1.1214 @babel/plugin-transform-destructuring 7.20.7

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1.1215 @webassemblyjs/helper-api-error 1.11.1

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1.1233 @formatjs/ecma402-abstract 1.14.3

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1.1246 @types/scheduler 0.16.2

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1.1262 esutils 2.0.3

1.1263 @opentelemetry/semantic-conventions 1.8.0

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1.1264 @babel/helper-module-transforms 7.20.11

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1.1 which 2.0.2

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1.2 rc-align 4.0.15

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1.3 flatted 3.2.7

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1.4 postcss-color-functional-notation 4.2.4

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1.5 array-union v2.1.0

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1.6 string-length 4.0.2

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1.7 @emotion/use-insertion-effect-with-fallbacks 1.0.0

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1.9 hoist-non-react-statics v3.3.2

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1.10 @babel/highlight 7.18.6

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1.11 smart-buffer 4.2.0

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1.12 globalthis 1.0.3

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1.13 nodeca-argparse 2.0.1

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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1.14 @grafana/ui 9.3.2

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1.15 is-hotkey 0.2.0

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1.16 is-interactive 1.0.0

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1.17 nodelib-fs-walk 1.2.8

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1.18 ansi-styles v4.3.0

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1.19 @monaco-editor/react 4.4.6

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1.20 reacttraining-react-router 5.3.4

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1.21 jest-from-facebook 27.5.1

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1.22 @babel/plugin-transform-react-display-name 7.18.6

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1.23 pify 4.0.1

1.24 is-glob 4.0.3

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1.25 postcss-minify-params 5.1.4

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1.27 json-schema-traverse 0.4.1

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1.28 @jridgewell/set-array 1.1.2

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1.29 @babel/helper-remap-async-to-generator 7.18.9

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1.30 @babel/plugin-proposal-object-rest-spread 7.20.7

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1.31 jest-console 27.5.1

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1.32 acorn-jsx 5.3.2

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1.33 @webassemblyjs/helper-numbers 1.11.1

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1.34 sort-desc 0.1.1

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1.35 @babel/plugin-syntax-async-generators 7.8.4

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1.36 @swc/helpers 0.4.14

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1.37 fast-levenshtein 2.0.6

1.38 iarna-gauge 4.0.4

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1.39 global-prefix 3.0.0

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1.40 postcss-custom-properties 12.1.11

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1.41 html-parse-stringify v3.0.1

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1.42 @babel/helper-skip-transparent-expression-wrappers 7.20.0

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1.43 jest-junit 13.1.0

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1.45 fsevents 2.3.2

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1.46 types-source-list-map 0.1.2

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1.47 node-chardet v0.7.0

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1.50 @grafana/runtime 9.3.2

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1.51 which-collection 1.0.1

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1.52 d3-scale 2.2.2

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1.53 html-webpack-plugin 5.5.0

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1.54 clean-stack 2.2.0

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1.55 @humanwhocodes/object-schema 1.2.1

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1.56 regenerator-runtime 0.13.11

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1.57 escape-string-regexp 1.0.5

1.58 @csstools/postcss-color-function 1.1.1

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1.59 @react-aria/focus 3.10.1

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1.62 msjs 2.1.2

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1.63 acorn-walk 7.2.0

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1.64 postcss-media-minmax 5.0.0

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1.66 wrappy 1.0.2

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1.68 node-cross-spawn 7.0.3

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1.69 @opentelemetry/sdk-metrics 1.8.0

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1.71 @babel/plugin-transform-modules-commonjs 7.20.11

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1.72 for-each 0.3.3

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1.77 postcss-calc 8.2.4

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1.78 css-has-pseudo 3.0.4

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1.79 @types/webpack-dev-server 3.11.6

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1.80 commander 8.3.0

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1.81 @typescript-eslint/visitor-keys 5.36.2

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1.82 babel-plugin-istanbul 6.1.1

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1.83 typescript-eslint-parser 5.36.2

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1.84 is-arrayish 0.2.1

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1.85 @types/through 0.0.30

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1.86 aggregate-error 3.1.0

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1.87 istanbul-lib-instrument 5.2.1

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1.88 has-bigints 1.0.2

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1.89 pkg-up 3.1.0

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1.90 nodejs-walker 1.0.8

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1.91 jest-worker 27.5.1

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1.93 @types/eslint-scope 3.7.4

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1.95 @babel/plugin-proposal-class-static-block 7.20.7

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1.98 es-shim-unscopables 1.0.0

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1.100 webpack-contrib/sass-loader 12.6.0

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1.102 object.hasown 1.1.2

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1.104 @emotion/cache 11.10.5

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1.105 node-entities 2.2.0

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1.106 path-type 4.0.0

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1.107 two-screen-stable 0.1.8

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* /opt/cola/permits/1019305209_1622636890.71/0/stable-0-1-8-zip/stable-0.1.8/stable.min.js
* /opt/cola/permits/1019305209_1622636890.71/0/stable-0-1-8-zip/stable-0.1.8/stable.js
* /opt/cola/permits/1019305209_1622636890.71/0/stable-0-1-8-zip/stable-0.1.8/src/banner.js
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* /opt/cola/permits/1019305209_1622636890.71/0/stable-0-1-8-zip/stable-0.1.8/README.md

1.108 espree 9.4.1

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1.109 @babel/preset-env 7.18.9

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1.110 slate 0.47.9

1.110.1 Available under license :

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{"version":3,"file":"index.js","sources":["../../../node_modules/@babel/runtime/helpers/classCallCheck.js","../src/classes/utils.ts","../../../node_modules/@babel/runtime/helpers/createClass.js","../src/classes/commands/annotation.ts","../../../node_modules/@babel/runtime/helpers/arrayWithHoles.js","../../../node_modules/@babel/runtime/helpers/iterableToArrayLimit.js","../../../node_modules/@babel/runtime/helpers/nonIterableRest.js","../../../node_modules/@babel/runtime/helpers/slicedToArray.js","../src/classes/commands/text.ts","../../../node_modules/@babel/runtime/helpe

rs/defineProperty.js","../../../node_modules/@babel/runtime/helpers/objectWithoutPropertiesLoose.js","../../../node_modules/@babel/runtime/helpers/objectWithoutProperties.js","../src/classes/commands/node.ts","../src/classes/commands/mark.ts","../src/classes/commands/selection.ts","../../../node_modules/@babel/runtime/helpers/arrayWithoutHoles.js","../../../node_modules/@babel/runtime/helpers/iterableToArray.js","../../../node_modules/@babel/runtime/helpers/nonIterableSpread.js","../../../node_modules/@babel/runtime/helpers/toConsumableArray.js","../src/classes/commands/general.ts","../src/classes/queries/element.ts","../src/classes/queries/general.ts","../../../node_modules/regenerator-runtime/runtime.js","../../../node_modules/@babel/runtime/regenerator/index.js","../src/classes/queries/location.ts","../src/classes/queries/range.ts","../src/classes/editor.ts","../src/classes/path-ref.ts","../src/classes/point-ref.ts","../src/classes/range-ref.ts","../src/interfaces/element.ts","../src/interfaces/fragment.ts","../src/interfaces/location.ts","../src/interfaces/mark.ts","../src/interfaces/node.ts","../src/interfaces/operation.ts","../src/interfaces/path.ts","../src/interfaces/point.ts","../src/interfaces/range.ts","../src/interfaces/text.ts","../src/interfaces/value.ts"],"sourcesContent":["function _classCallCheck(instance, Constructor) {\n if (!(instance instanceof Constructor)) {\n   throw new TypeError(\"Cannot call a class as a function\");\n }\n}\n\nmodule.exports = _classCallCheck;","import { Editor, Node, Path, PathRef, PointRef, RangeRef, NodeEntry } from '..'\n\n/**\n * `Match` is a shorthand for a `NodeEntry` predicate for handling the most\n * common needs for rich text editing.\n */\n\nexport type Match =\n | number\n | 'value'\n | 'block'\n | 'inline'\n | 'text'\n | 'void'\n | Partial<Node>\n | Path\n | ((entry: NodeEntry) => boolean)\n\n/**\n * Weak maps to keep track of instance-level editor state.\n */\n\nexport const DIRTY_PATHS: WeakMap<Editor, Path[]> = new WeakMap()\nexport const NORMALIZING: WeakMap<Editor, boolean> = new WeakMap()\nexport const FLUSHING: WeakMap<Editor, boolean> = new WeakMap()\nexport const PATH_REFS: WeakMap<Editor, Set<PathRef>> = new WeakMap()\nexport const POINT_REFS: WeakMap<Editor, Set<PointRef>> = new WeakMap()\nexport const RANGE_REFS: WeakMap<Editor, Set<RangeRef>> = new WeakMap()\n\n/**\n * Constants for string distance checking.\n */\n\nconst SPACE = /\\s/\nconst PUNCTUATION = /[\\u0021-\\u0023\\u0025-\\u002A\\u002C-\\u002F\\u003A\\u003B\\u003F\\u0040\\u005B-\\u005D\\u005F\\u007B\\u007D\\u00A1\\u00A7\\u00AB\\u00B6\\u00B7\\u00BB\\u00BF\\u037E\\u0387\\u055A-\\u055F\\u0589\\u058A\\u05BE\\u05C0\\u05C3\\u05C6\\u05F3\\u05F4\\u0609\\u060A\\u060C\\u060D\\u061B\\u061E\\u061F\\u066A-\\u066D\\u06D4\\u0700-\\u070D\\u07F7-\\u07F9\\u0830-\\u083E\\u085E\\u0964\\u0965\\u0970\\u0AF0\\u0DF4\\u0E4F\\u0E5A\\u0E5B\\u0F04-\\u0F12\\u0F14\\u0F3A-\\u0F3D\\u0F85\\u0FD0-\\u0FD4\\u0FD9\\u0FDA\\u104A-\\u104F\\u10FB\\u1360-\\u1368\\u1400\\u166D\\u166E\\u169B\\u169C\\u16EB-\\u16ED\\u1735\\u1736\\u17D4-\\u17D6\\u17D8-\\u17DA\\u1800-\\u180A\\u1944\\u1945\\u1A1E\\u1A1F\\u1AA0-\\u1AA6\\u1AA8-\\u1AAD\\u1B5A-\\u1B60\\u1BFC-\\u1BFF\\u1C3B-\\u1C3F\\u1C7E\\u1C7F\\u1CC0-\\u1CC7\\u1CD3\\u2010-\\u2027\\u2030-\\u2043\\u2045-\\u2051\\u2053-\\u205E\\u207D\\u207E\\u208D\\u208E\\u2329\\u232A\\u2768-\\u2775\\u27C5\\u27C6\\u27E6-\\u27EF\\u2983-\\u2998\\u29D8-\\u29DB\\u29FC\\u29FD\\u2CF9-\\u2CFC\\u2CFE\\u2CFF\\u2D70\\u2E00-\\u2E2E\\u2E30-\\u2E3B\\u3001-\\u3003\\u3008-\\u3011\\u3014-\\u301F\\u3030\\u303D\\u30A0\\u30FB\\uA4FE\\uA4FF\\uA60D-\\uA60F\\uA673\\uA67E\\uA6F2-\\uA6F7\\uA874-\\uA877\\uA8CE\\uA8CF\\uA8F8-\\uA8FA\\uA92E\\uA92F\\uA95F\\uA9C1-\\uA9CD\\uA9DE\\uA9DF\\uAA5C-\\uAA5F\\uAADE\\uAADF\\uAAF0\\uAAF1\\uABEB\\uFD3E\\uFD3F\\uFE10-\\uFE19\\uFE30-\\uFE52\\uFE54-\\uFE61\\uFE63\\uFE68\\uFE6A\\uFE6B\\uFF01-\\uFF03\\uFF05-\\uFF0A\\uFF0C-\\uFF0F\\uFF1A\\uFF1B\\uFF1F\\uFF20\\uFF3B-\\uFF3D\\uFF3F\\uFF5B\\uFF5D\\uFF5F-\\uFF65]/\nconst CHAMELEON = /['\\u2018\\u2019]/\nconst SURROGATE_START = 0xd800\nconst SURROGATE_END = 0xdfff\n\n/**\n * Check if a character is a word character. The `remaining` argument is used\n * because sometimes you must read subsequent characters to truly determine it.\n */\n\nexport const isWordCharacter = (char: string, remaining: string): boolean => {\n if (SPACE.test(char)) {\n   return false\n }\n\n // Chameleons count as word characters as long as they're in a word, so\n // recurse to see if the next one is a word character or not.\n if

(CHAMELEON.test(char)) {\n let next = remaining.charAt(0)\n const length = getCharacterDistance(next)\n next = remaining.slice(0, length)\n const rest = remaining.slice(length)\n\n if (isWordCharacter(next, rest)) {\n return true\n }\n }\n\n if (PUNCTUATION.test(char)) {\n return false\n }\n\n return true\n}\n\n/**\n * Get the distance to the end of the first character in a string of text.\n */\n\nexport const getCharacterDistance = (text: string): number => {\n const code = text.charCodeAt(0)\n const isSurrogate = SURROGATE_START <= code && code <= SURROGATE_END\n return isSurrogate ? 2 : 1\n}\n\n/**\n * Get the distance to the end of the first word in a string of text.\n */\n\nexport const getWordDistance = (text: string): number => {\n let length = 0\n let i = 0\n let started = false\n let char\n\n while ((char = text.charAt(i))) {\n const l = getCharacterDistance(char)\n char = text.slice(i, i + l)\n const rest = text.slice(i + l)\n\n if (isWordCharacter(char, rest)) {\n started = true\n length += l\n } else if (!started) {\n length += l\n } else {\n break\n }\n\n i += l\n }\n\n return length\n}\n","function _defineProperties(target, props) {\n for (var i = 0; i < props.length; i++) {\n var descriptor = props[i];\n descriptor.enumerable = descriptor.enumerable || false;\n descriptor.configurable = true;\n if (\"value\" in descriptor) descriptor.writable = true;\n Object.defineProperty(target, descriptor.key, descriptor);\n }\n}\n\nfunction _createClass(Constructor, protoProps, staticProps) {\n if (protoProps) _defineProperties(Constructor.prototype, protoProps);\n if (staticProps) _defineProperties(Constructor, staticProps);\n return Constructor;\n}\n\nmodule.exports = _createClass;","import { Editor, Point, Range } from '../..'\n\nclass AnnotationCommands {\n /**\n * Add a new `annotation` object with a `key`.\n */\n\n addAnnotation(this: Editor, key: string, annotation: Range) {\n this.apply({\n type: 'add_annotation',\n key,\n annotation,\n })\n }\n\n /**\n * Remove an existing annotation object by `key`.\n */\n\n removeAnnotation(this: Editor, key: string) {\n const { annotations } = this.value\n\n if (!(key in annotations)) {\n throw new Error(\n `Unable to remove annotation by ${key} because it does not exist.`\n)\n }\n\n const annotation = annotations[key]\n\n this.apply({\n type: 'remove_annotation',\n key,\n annotation,\n })\n }\n\n /**\n * Set new properties on an annotation object with `key`.\n */\n\n setAnnotation(this: Editor, key: string, props: Partial<Range>) {\n const { annotations } = this.value\n\n if (!(key in annotations)) {\n throw new Error(\n `Unable to set new properties on annotation by ${key} because it does not exist.`\n)\n }\n\n const annotation = annotations[key]\n const newProps = {}\n const prevProps = {}\n\n for (const k in props) {\n const isPoint = k === 'anchor' || k === 'focus'\n\n if (\n (isPoint && !Point.equals(props[k], annotation[k])) ||\n (!isPoint && props[k] !== annotation[k])\n) {\n newProps[k] = props[k]\n prevProps[k] = annotation[k]\n }\n }\n\n if (Object.keys(newProps).length > 0) {\n this.apply({\n type: 'set_annotation',\n key,\n properties: prevProps,\n newProperties: newProps,\n })\n }\n}\n\nexport default AnnotationCommands\n","function _arrayWithHoles(arr) {\n if (Array.isArray(arr)) return arr;\n}\n\nmodule.exports = _arrayWithHoles;","function _iterableToArrayLimit(arr, i) {\n if (!(Symbol.iterator in Object(arr) || Object.prototype.toString.call(arr) === \"[object Arguments]\")) {\n return;\n }\n\n var _arr = [];\n var _n = true;\n var _d = false;\n var _e = undefined;\n\n try {\n for (var _i = arr[Symbol.iterator](), _s; !(_n = (_s = _i.next()).done); _n = true) {\n _arr.push(_s.value);\n\n if (i && _arr.length === i) break;\n }\n } catch (err) {\n _d = true;\n _e = err;\n } finally {\n try {\n if (!_n && _i[\"return\"] != null) _i[\"return\"]();\n } finally {\n if (_d) throw _e;\n }\n }\n\n return _arr;\n}\n\nmodule.exports = _iterableToArrayLimit;","function _nonIterableRest() {\n throw new TypeError(\"Invalid attempt to destructure non-iterable instance\");\n}\n\nmodule.exports = _nonIterableRest;","var arrayWithHoles = require(\"./arrayWithHoles\");\n\nvar iterableToArrayLimit = require(\"./iterableToArrayLimit\");\n\nvar nonIterableRest = require(\"./nonIterableRest\");\n\nfunction _slicedToArray(arr, i) {\n return arrayWithHoles(arr) || iterableToArrayLimit(arr, i) || nonIterableRest();\n}\n\nmodule.exports = _slicedToArray;","import {\n Editor,\n Element,\n Fragment,\n Path,\n Location,\n Range,\n Point,\n Value,\n} from '../..'\n\nclass DeletingCommands {\n /**\n * Delete content in the editor.\n */\n\n delete(\n this: Editor,\n options: {\n at?: Location\n distance?: number\n unit?: 'character' | 'word' | 'line' | 'block'\n reverse?: boolean\n hanging?: boolean\n } = {}\n) {\n this.withoutNormalizing(() => {\n const { reverse = false, unit = 'character', distance = 1 } = options\n let { at = this.value.selection, hanging = false } = options\n\n if (!at) {\n return\n }\n\n if (Range.isRange(at) && Range.isCollapsed(at)) {\n at = at.anchor\n }\n\n if (Point.isPoint(at)) {\n

```
const furthestVoid = this.getMatch(at.path, 'void')\n\n      if (furthestVoid) {\n        const [, voidPath] = furthestVoid\n        at = voidPath\n      } else {\n        const opts = { unit, distance }\n        const target = reverse\n          ? this.getBefore(at, opts) || this.getStart([])\n          : this.getAfter(at, opts) || this.getEnd([])\n        at = { anchor: at, focus: target }\n        hanging = true\n      }\n    }\n\n    if (Path.isPath(at)) {\n      this.removeNodes({ at })\n      return\n    }\n\n    if (Range.isCollapsed(at)) {\n      return\n    }\n\n    if (!hanging) {\n      at = this.unhangRange(at)\n    }\n\n    let [start, end] = Range.edges(at)\n    const [ancestor] = this.getAncestor(at)\n    const isSingleText = Path.equals(start.path, end.path)\n    const startVoid = this.getMatch(start.path, 'void')\n    const endVoid = this.getMatch(end.path, 'void')\n\n    // If the start or end points are inside an inline void, nudge them out.\n    if (startVoid) {\n      const block = this.getMatch(start.path, 'block')\n      const before = this.getBefore(start)\n\n      if (before && block && Path.isAncestor(block[1], before.path)) {\n        start = before\n      }\n    }\n\n    if (endVoid) {\n      const block = this.getMatch(end.path, 'block')\n      const after = this.getAfter(end)\n\n      if (after && block && Path.isAncestor(block[1], after.path)) {\n        end = after\n      }\n    }\n\n    // Get the highest nodes that are completely inside the range, as well as\n    // the start and end nodes.\n    const matches = this.matches({\n      at,\n      match: ([n, p]) =>\n        (Element.isElement(n) && this.isVoid(n)) ||\n        (!Path.isCommon(p, start.path) && !Path.isCommon(p, end.path)),\n    })\n\n    const pathRefs = Array.from(matches, ([, p]) => this.createPathRef(p))\n    const startRef = this.createPointRef(start)\n    const endRef = this.createPointRef(end)\n\n    if (!isSingleText && !startVoid) {\n      const point = startRef.current!\n      const [node] = this.getLeaf(point)\n      const { path } = point\n      const { offset } = start\n      const text = node.text.slice(offset)\n      this.apply({ type: 'remove_text', path, offset, text })\n    }\n\n    for (const pathRef of pathRefs) {\n      const path = pathRef.unref()!\n      this.removeNodes({ at: path })\n    }\n\n    if (!endVoid) {\n      const point = endRef.current!\n      const [node] = this.getLeaf(point)\n      const { path } = point\n      const offset = isSingleText ? start.offset : 0\n      const text = node.text.slice(offset, end.offset)\n      this.apply({ type: 'remove_text', path, offset, text })\n    }\n\n    const isBlockAncestor =\n      Value.isValue(ancestor) ||\n      (Element.isElement(ancestor) && !this.isInline(ancestor))\n\n    if (\n      !isSingleText &&\n      isBlockAncestor &&\n      endRef.current &&\n      startRef.current\n    ) {\n      this.mergeNodes({ at: endRef.current, hanging: true })\n    }\n\n    const point = endRef.unref() || startRef.unref()\n\n    if (options.at == null && point) {\n      this.select(point)\n    }\n  })\n\n  /**\n   * Insert a fragment at a specific location in the editor.\n   */\n\n  insertFragment(\n    this: Editor,\n    fragment: Fragment,\n    options: {\n      at?: Location\n    } = {}\n  ) {\n    this.withoutNormalizing(() => {\n      const { selection } = this.value\n      let { at } = options\n      let isSelection = false\n\n      if (!at && selection) {\n        at = selection\n        isSelection = true\n      }\n\n      if (Range.isRange(at) && Range.isCollapsed(at)) {\n        at = at.anchor\n      }\n\n      if (Range.isRange(at)) {\n        const [, end] = Range.edges(at)\n        const pointRef = this.createPointRef(end)\n        this.delete({ at })\n        at = pointRef.unref()!\n      }\n\n      if (!Point.isPoint(at) || this.getMatch(at.path, 'void')) {\n        return\n      }\n\n      const pointRef = this.createPointRef(at)\n      this.splitNodes({ at, always: true })\n\n      if (pointRef.current) {\n        const [, insertPath] = this.getMatch(pointRef.current.path, 'block')!\n        this.insertNodes(fragment.nodes, { at: insertPath })\n\n        const afterClosest = this.getMatch(pointRef.current.path, 'block')\n        const beforeClosest = this.getMatch(at.path, 'block')\n\n        if (afterClosest && beforeClosest) {\n          const [, afterPath] = afterClosest\n          const [, beforePath] = beforeClosest\n          const startPath = Path.next(beforePath)\n          this.mergeNodes({ at: afterPath })\n          this.mergeNodes({ at: startPath })\n        }\n      }\n\n      if (isSelection) {\n        this.select(pointRef.current!)\n      }\n\n      pointRef.unref()\n    })\n  }\n\n  /**\n   * Insert a string of text in the editor.\n   */\n\n  insertText(\n    this: Editor,\n    text: string,\n    options: {\n      at?: Point | Range\n    } = {}\n  ) {\n    this.withoutNormalizing(() => {\n      const { selection } = this.value\n      let { at } = options\n\n      if (!at && selection) {\n        at = selection\n      }\n\n      if (Range.isRange(at)) {\n        if (Range.isCollapsed(at)) {\n          at = at.anchor\n        } else {\n          const pointRef = this.createPointRef(Range.end(at))\n          this.delete({ at })\n          at = pointRef.unref()!\n        }\n      }\n\n      if (Point.isPoint(at) && !this.getMatch(at.path, 'void')) {\n        const { path, offset } = at\n        this.apply({ type: 'insert_text', path, offset, text })\n      }\n    })\n  }\n\n  /**\n   * Remove a string of text in the editor.\n   */\n\n  removeText(\n    this: Editor,\n    text: string,\n    options: {\n      at?: Range\n
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} = {}\n) {\n this.withoutNormalizing(() => {\n let { at = this.value.selection } = options\n\n if (!at || Range.isCollapsed(at)) {\n return\n }\n\n const [start, end] = Range.edges(at)\n const texts = this.texts({ at })\n const pathRefs = Array.from(texts, ([, p]) => this.createPathRef(p))\n\n for (const [node, path] of this.texts({ at }))\n if (Point.isPoint(at) && !this.getMatch(at.path, 'void')) {\n const { path, offset } = at\n this.apply({ type: 'insert_text', path, offset, text })\n }\n })\n }\n}\n\nexport default DeletingCommands\n","function _defineProperty(obj, key, value) {\n if (key in obj) {\n Object.defineProperty(obj, key, {\n value: value,\n enumerable: true,\n configurable: true,\n writable: true\n });\n } else {\n obj[key] = value;\n }\n\n return obj;\n}\n\nmodule.exports = _defineProperty;","function _objectWithoutPropertiesLoose(source, excluded) {\n if (source == null) return {};\n var target = {};\n var sourceKeys = Object.keys(source);\n var key, i;\n\n for (i = 0; i < sourceKeys.length; i++) {\n key = sourceKeys[i];\n if (excluded.indexOf(key) >= 0) continue;\n target[key] = source[key];\n }\n\n return target;\n}\n\nmodule.exports = _objectWithoutPropertiesLoose;","var objectWithoutPropertiesLoose = require(\"./objectWithoutPropertiesLoose\");\n\nfunction _objectWithoutProperties(source, excluded) {\n if (source == null) return {};\n var target = objectWithoutPropertiesLoose(source, excluded);\n var key, i;\n\n if (Object.getOwnPropertySymbols) {\n var sourceSymbolKeys = Object.getOwnPropertySymbols(source);\n\n for (i = 0; i < sourceSymbolKeys.length; i++) {\n key = sourceSymbolKeys[i];\n if (excluded.indexOf(key) >= 0) continue;\n if (!Object.prototype.propertyIsEnumerable.call(source, key)) continue;\n target[key] = source[key];\n }\n }\n\n return target;\n}\n\nmodule.exports = _objectWithoutProperties;","import {\n Descendant,\n Editor,\n Node,\n NodeEntry,\n Element,\n Location,\n Path,\n Text,\n Range,\n Point,\n} from '../..'\nimport { Match } from '../utils'\n\nclass NodeCommands {\n /**\n * Insert nodes at a specific location in the editor.\n */\n\n insertNodes(\n this: Editor,\n nodes: Node | Node[],\n options: {\n at?: Location\n match?: Match\n } = {}\n) {\n this.withoutNormalizing(() => {\n const { selection } = this.value\n let { at, match } = options\n let select = false\n\n if (Node.isNode(nodes)) {\n nodes = [nodes]\n }\n\n if (nodes.length === 0) {\n return\n }\n\n const [node] = nodes\n\n if (match == null) {\n if (Path.isPath(at)) {\n match = at.length\n } else if (Text.isText(node)) {\n match = 'text'\n } else if (this.isInline(node)) {\n match = 'inline'\n } else {\n match = 'block'\n }\n }\n\n // By default, use the selection as the target location. But if there is\n // no selection, insert at the end of the document since that is such a\n // common use case when inserting from a non-selected state.\n if (!at) {\n at = selection || this.getEnd([]) || [this.value.nodes.length]\n select = true\n }\n\n if (Range.isRange(at)) {\n if (Range.isCollapsed(at)) {\n at = at.anchor\n } else {\n const [, end] = Range.edges(at)\n const pointRef = this.createPointRef(end)\n this.delete({ at })\n at = pointRef.unref()!\n }\n }\n\n if (Point.isPoint(at)) {\n const atMatch = this.getMatch(at.path, match)\n\n if (atMatch) {\n const [, matchPath] = atMatch\n const pathRef = this.createPathRef(matchPath)\n const isAtEnd = this.isEnd(at, matchPath)\n this.splitNodes({ at, match })\n const path = pathRef.unref()!\n at = isAtEnd ? Path.next(path) : path\n } else {\n return\n }\n }\n\n const parentPath = Path.parent(at)\n let index = at[at.length - 1]\n\n if (this.getMatch(parentPath, 'void')) {\n return\n }\n\n for (const node of nodes) {\n const path = parentPath.concat(index)\n index++\n this.apply({ type: 'insert_node', path, node })\n }\n\n if (select) {\n const point = this.getEnd(at)\n\n if (point) {\n this.select(point)\n }\n }\n })\n }\n\n /**\n * Lift nodes at a specific location upwards in the document tree, splitting\n * their parent in two if necessary.\n */\n\n liftNodes(\n this: Editor,\n options: {\n at?: Location\n match?: Match\n } = {}\n) {\n this.withoutNormalizing(() => {\n const {\n at = this.value.selection,\n match = Path.isPath(at) ? at.length : 'block',\n } = options\n\n if (!at) {\n return\n }\n\n const matches = this.matches({ at, match })\n const pathRefs = Array.from(matches, ([, p]) => this.createPathRef(p))\n\n for (const pathRef of pathRefs) {\n const path = pathRef.unref()!\n\n if (path.length < 2) {\n throw new Error(\n `Cannot lift node at a path [${path}] because it has a depth of less than \\`2\\`.`\n)\n }\n\n const [parent, parentPath] = this.getNode(Path.parent(path))\n const index = path[path.length - 1]\n const { length } = parent.nodes\n\n if (length === 1) {\n this.moveNodes({ at: path, to: Path.next(parentPath) })\n this.removeNodes({ at: parentPath })\n } else if (index === 0) {\n this.moveNodes({ at: path,

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to: parentPath })\n } else if (index === length - 1) {\n this.moveNodes({ at: path, to: Path.next(parentPath) })\n } else {\n this.splitNodes({ at: Path.next(path) })\n this.moveNodes({ at: path, to: Path.next(parentPath) })\n }\n }\n })\n }\n\n /**\n * Merge a node at a location with the previous node of the same depth,\n * removing any empty containing nodes after the merge if necessary.\n */\n\n mergeNodes(\n this: Editor,\n options: {\n at?: Location\n match?: Match\n hanging?: boolean\n } = {}\n ) {\n this.withoutNormalizing(() => {\n let { at = this.value.selection } = options\n const {\n match = Path.isPath(at) ? at.length : 'block',\n hanging = false,\n } = options\n\n if (!at) {\n return\n }\n\n if (!hanging && Range.isRange(at)) {\n at = this.unhangRange(at)\n }\n\n if (Range.isRange(at)) {\n if (Range.isCollapsed(at)) {\n at = at.anchor\n } else {\n const [, end] = Range.edges(at)\n const pointRef = this.createPointRef(end)\n this.delete({ at })\n at = pointRef.unref()!\n\n if (options.at == null) {\n this.select(at)\n }\n }\n }\n\n const current = this.getMatch(at, match)\n const prev = this.getPrevious(at, match)\n\n if (!current || !prev) {\n return\n }\n\n const [node, path] = current\n const [prevNode, prevPath] = prev\n const newPath = Path.next(prevPath)\n const commonPath = Path.common(path, prevPath)\n const isPreviousSibling = Path.isSibling(path, prevPath)\n\n // Determine if the merge will leave an ancestor of the path empty as a\n // result, in which case we'll want to remove it after merging.\n const emptyAncestor = Node.furthest(this.value, path, ([n, p]) => {\n return (\n Path.isDescendant(p, commonPath) &&\n Path.isAncestor(p, path) &&\n Element.isElement(n) &&\n n.nodes.length === 1\n )\n })\n\n const emptyRef = emptyAncestor && this.createPathRef(emptyAncestor[1])\n let properties\n let position\n\n // Ensure that the nodes are equivalent, and figure out what the position\n // and extra properties of the merge will be.\n if (Text.isText(node) && Text.isText(prevNode)) {\n const { text, marks, ...rest } = node\n position = prevNode.text.length\n properties = rest as Partial<Text>\n } else if (Element.isElement(node) && Element.isElement(prevNode)) {\n const { nodes, ...rest } = node\n position = prevNode.nodes.length\n properties = rest as Partial<Element>\n } else {\n throw new Error(\n `Cannot merge the node at path [${path}] with the previous sibling because it is not the same kind: ${JSON.stringify(\n node\n )} ${JSON.stringify(prevNode)}`\n )\n }\n\n // If the node isn't already the next sibling of the previous node, move\n // it so that it is before merging.\n if (!isPreviousSibling) {\n this.moveNodes({ at: path, to: newPath })\n }\n\n // If there was going to be an empty ancestor of the node that was merged,\n // we remove it from the tree.\n if (emptyRef) {\n this.removeNodes({ at: emptyRef.current! })\n }\n\n // If the target node that we're merging with is empty, remove it instead\n // of merging the two. This is a common rich text editor behavior to\n // prevent losing formatting when deleting entire nodes when you have a\n // hanging selection.\n if (\n (Element.isElement(prevNode) && this.isEmpty(prevNode)) ||\n (Text.isText(prevNode) && prevNode.text === '')\n ) {\n this.removeNodes({ at: prevPath })\n } else {\n this.apply({\n type: 'merge_node',\n path: newPath,\n position,\n target: null,\n properties,\n })\n }\n\n if (emptyRef) {\n emptyRef.unref()\n }\n })\n }\n\n /**\n * Move the nodes at a location to a new location.\n */\n\n moveNodes(\n this: Editor,\n options: {\n at?: Location\n match?: Match\n to: Path\n } = {}\n ) {\n this.withoutNormalizing(() => {\n const {\n to,\n at = this.value.selection,\n match = Path.isPath(at) ? at.length : 'block',\n } = options\n\n if (!at) {\n return\n }\n\n const toRef = this.createPathRef(to)\n const targets = this.matches({ at, match })\n const pathRefs = Array.from(targets, ([, p]) => this.createPathRef(p))\n\n for (const pathRef of pathRefs) {\n const path = pathRef.unref()!\n const newPath = toRef.current!\n\n if (path.length !== 0) {\n this.apply({ type: 'move_node', path, newPath })\n }\n }\n\n toRef.unref()\n })\n }\n\n /**\n * Normalize a node at a path, returning it to a valid state if it is\n * currently invalid.\n */\n\n normalizeNodes(this: Editor, options: { at: Path }): void {\n const { at } = options\n const [node] = this.getNode(at)\n\n // There are no core normalizations for text nodes.\n if (Text.isText(node)) {\n return\n }\n\n // Ensure that block and inline nodes have at least one text child.\n if (Element.isElement(node) && node.nodes.length === 0) {\n const child = { text: '', marks: [] }\n this.insertNodes(child, { at: at.concat(0) })\n return\n }\n\n // Determine whether the node should have block or inline children.\n const shouldHaveInlines =\n Element.isElement(node) &&\n
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(this.isInline(node) ||\n        node.nodes.length === 0 ||\n        Text.isText(node.nodes[0]) ||\n
this.isInline(node.nodes[0]))\n\n    // Since we'll be applying operations while iterating, keep track of an\n    // index
that accounts for any added/removed nodes.\n    let n = 0\n\n    for (let i = 0; i < node.nodes.length; i++, n++) {\n
const child = node.nodes[i] as Descendant\n      const prev = node.nodes[i - 1]\n      const isLast = i ===
node.nodes.length - 1\n\n      if (Element.isElement(child)) {\n        const isInline = this.isInline(child)\n\n        //
Only allow block nodes in the top-level value and parent blocks that\n        // only contain block nodes. Similarly,
only allow inline nodes in other\n        // inline nodes, or parent blocks that only contain inlines and text.\n        if
(isInline !== shouldHaveInlines) {\n          this.removeNodes({ at: at.concat(n) })\n          n--\n          continue\n
}\n\n        // Ensure that inline nodes are surrounded by text nodes.\n        if (isInline) {\n          if (prev == null ||
!Text.isText(prev)) {\n            const child = { text: '', marks: [] }\n            this.insertNodes(child, { at: at.concat(n)
})\n            n++\n            continue\n          }\n\n          if (isLast) {\n            const child = { text: '', marks: [] }\n
this.insertNodes(child, { at: at.concat(n + 1) })\n            n++\n            continue\n          }\n        }\n      } else {\n
// Merge adjacent text nodes that are empty or have matching marks.\n        if (prev != null && Text.isText(prev))
{\n          if (Text.matches(child, prev)) {\n            this.mergeNodes({ at: at.concat(n) })\n            n--\n
continue\n          } else if (prev.text === '') {\n            this.removeNodes({ at: at.concat(n - 1) })\n            n--\n
continue\n          } else if (isLast && child.text === '') {\n            this.removeNodes({ at: at.concat(n) })\n            n--
\n            continue\n          }\n        }\n      }\n    }\n  }\n\n  /**\n   * Remove the nodes at a specific location in the
document.\n   */\n\n  removeNodes(\n    this: Editor,\n    options: {\n      at?: Location\n      match?: Match\n
hanging?: boolean\n    } = {}\n  ) {\n    this.withoutNormalizing(() => {\n      let { at = this.value.selection } =
options\n      const {\n        match = Path.isPath(at) ? at.length : 'block',\n        hanging = false,\n      } = options\n\n
if (!at) {\n        return\n      }\n\n      if (!hanging && Range.isRange(at)) {\n        at = this.unhangRange(at)\n
}\n\n      const depths = this.matches({ at, match })\n      const pathRefs = Array.from(depths, ([, p]) =>
this.createPathRef(p))\n\n      for (const pathRef of pathRefs) {\n        const path = pathRef.unref()!\n        const
[node] = this.getNode(path)\n        this.apply({ type: 'remove_node', path, node })\n      }\n    })\n  }\n\n  /**\n   * Set
new properties on the nodes ...\n   */\n\n  setNodes(\n    this: Editor,\n    props: Partial<Node>,\n    options: {\n
at?: Location\n      match?: Match\n      hanging?: boolean\n    } = {}\n  ) {\n    this.withoutNormalizing(() => {\n
let { at = this.value.selection } = options\n      const {\n        match = Path.isPath(at) ? at.length : 'block',\n
hanging = false,\n      } = options\n\n      if (!at) {\n        return\n      }\n\n      if (!hanging && Range.isRange(at)) {\n
at = this.unhangRange(at)\n      }\n\n      for (const [node, path] of this.matches({ at, match })) {\n        const
properties: Partial<Node> = {}\n        const newProperties: Partial<Node> = {}\n\n        for (const k in props) {\n
if (\n            k === 'annotations' ||\n            k === 'marks' ||\n            k === 'nodes' ||\n            k === 'selection' ||\n
k === 'text'\n          ) {\n            continue\n          }\n\n          if (props[k] !== node[k]) {\n            properties[k] =
node[k]\n            newProperties[k] = props[k]\n          }\n        }\n\n        if (Object.keys(newProperties).length !== 0)
{\n          this.apply({\n            type: 'set_node',\n            path,\n            properties,\n            newProperties,\n
})\n        }\n      }\n    })\n  }\n\n  /**\n   * Split the nodes at a specific location.\n   */\n\n  splitNodes(\n    this:
Editor,\n    options: {\n      at?: Location\n      match?: Match\n      always?: boolean\n      height?: number\n    } =
{}\n  ) {\n    this.withoutNormalizing(() => {\n      let {\n        match,\n        at = this.value.selection,\n        height =
0,\n        always = false,\n      } = options\n\n      if (match == null) {\n        match = Path.isPath(at) ? at.length :
'block'\n      }\n\n      if (Range.isRange(at)) {\n        at = deleteRange(this, at)\n      }\n\n      // If the target is a path,
the default height-skipping and position\n      // counters need to account for us potentially splitting at a non-leaf.\n
if (Path.isPath(at)) {\n        const point = this.getPoint(at)\n        match = at.length - 1\n        height =
point.path.length - at.length + 1\n        at = point\n        always = true\n      }\n\n      if (!at) {\n        return\n      }\n\n
const beforeRef = this.createPointRef(at, { affinity: 'backward' })\n      const highest = this.getMatch(at, match)\n\n
if (!highest) {\n        return\n      }\n\n      const voidMatch = this.getMatch(at, 'void')\n      let nudge = 0\n\n      if
(voidMatch) {\n        const [voidNode, voidPath] = voidMatch\n\n        if (Element.isElement(voidNode) &&
this.isInline(voidNode)) {\n          let after = this.getAfter(voidPath)\n\n          if (!after) {\n            const text = { text:
'', marks: [] }\n            const afterPath = Path.next(voidPath)\n            this.insertNodes(text, { at: afterPath })\n
after = this.getPoint(afterPath)!\n          }\n\n          at = after\n          always = true\n        }\n\n        const
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siblingHeight = at.path.length - voidPath.length\n height = siblingHeight + 1\n always = true\n }\n\n const afterRef = this.createPointRef(at)\n const depth = at.path.length - height\n let [, highestPath] = highest\n let lowestPath = at.path.slice(0, depth)\n let position = height === 0 ? at.offset : at.path[depth] + nudge\n let target: number | null = null\n\n for (const [node, path] of this.levels({\n at: lowestPath,\n reverse: true,\n })) {\n let split = false\n\n if (\n path.length < highestPath.length ||\n path.length === 0 ||\n (Element.isElement(node) && this.isVoid(node))\n ) {\n break\n }\n\n if (always || !beforeRef || !this.isEdge(beforeRef.current!, path)) {\n const { text, marks, nodes, ...properties } = node\n this.apply({ type: 'split_node', path, position, target, properties })\n split = true\n }\n\n target = position\n position = path[path.length - 1] + (split ? 1 : 0)\n }\n\n if (options.at == null) {\n const point = afterRef.current || this.getEnd([])\n this.select(point)\n }\n\n beforeRef.unref()\n afterRef.unref()\n })\n }\n\n /**\n * Unwrap the nodes at a location from a parent node, splitting the parent if\n * necessary to ensure that only the content in the range is unwrapped.\n */\n\n unwrapNodes(\n this: Editor,\n options: {\n at?: Location\n match?: Match\n split?: boolean\n } ) {\n this.withoutNormalizing(() => {\n const {\n at = this.value.selection,\n match = Path.isPath(at) ? at.length : 'block',\n split = false,\n } = options\n\n if (!at) {\n return\n }\n\n const matches = this.matches({ at, match })\n const pathRefs = Array.from(matches, ([, p]) => this.createPathRef(p))\n\n for (const pathRef of pathRefs) {\n const path = pathRef.unref()!\n const depth = path.length + 1\n let range = this.getRange(path)\n\n if (split && Range.isRange(at)) {\n range = Range.intersection(at, range)!\n }\n\n this.liftNodes({ at: range, match: depth })\n }\n })\n }\n\n /**\n * Wrap the nodes at a location in a new container node, splitting the edges\n * of the range first to ensure that only the content in the range is wrapped.\n */\n\n wrapNodes(\n this: Editor,\n element: Element,\n options: {\n at?: Location\n match?: Match\n split?: boolean\n } = {}\n ) {\n this.withoutNormalizing(() => {\n const { split = false } = options\n let { match, at = this.value.selection } = options\n\n if (!at) {\n return\n }\n\n if (match == null) {\n if (Path.isPath(at)) {\n match = at.length\n } else if (this.isInline(element)) {\n match = 'inline'\n } else {\n match = 'block'\n }\n }\n\n if (split && Range.isRange(at)) {\n const [start, end] = Range.edges(at)\n const rangeRef = this.createRangeRef(at, { affinity: 'inward' })\n this.splitNodes({ at: end, match })\n this.splitNodes({ at: start, match })\n at = rangeRef.unref()!\n\n if (options.at == null) {\n this.select(at)\n }\n }\n\n const roots: NodeEntry[] = this.isInline(element)\n ? Array.from(this.matches({ ...options, at, match: 'block' }))\n : [[this.value, []]]\n\n for (const [, rootPath] of roots) {\n const a = Range.isRange(at)\n ? Range.intersection(at, this.getRange(rootPath))\n : at\n\n if (!a) {\n continue\n }\n\n const matches = Array.from(this.matches({ ...options, at: a, match }))\n\n if (matches.length > 0) {\n const [first] = matches\n const last = matches[matches.length - 1]\n const [, firstPath] = first\n const [, lastPath] = last\n const commonPath = Path.equals(firstPath, lastPath)\n ? Path.parent(firstPath)\n : Path.common(firstPath, lastPath)\n\n const range = this.getRange(firstPath, lastPath)\n const depth = commonPath.length + 1\n const wrapperPath = Path.next(lastPath).slice(0, depth)\n const wrapper = { ...element, nodes: [] }\n this.insertNodes(wrapper, { at: wrapperPath })\n this.moveNodes({\n at: range,\n match: depth,\n to: wrapperPath.concat(0),\n })\n }\n }\n })\n }\n}\n\n/**\n * Convert a range into a point by deleting it's content.\n */\n\nconst deleteRange = (editor: Editor, range: Range): Point | null => {\n if (Range.isCollapsed(range)) {\n return range.anchor\n } else {\n const [, end] = Range.edges(range)\n const pointRef = editor.createPointRef(end)\n editor.delete({ at: range })\n return pointRef.unref()\n }\n}\n\nexport default NodeCommands\n","import { Editor, Mark, Location, Range } from '../..'\n\nclass MarkCommands {\n /**\n * Add a set of marks to the text nodes at a location.\n */\n\n addMarks(\n this: Editor,\n marks: Mark[],\n options: {\n at?: Location\n hanging?: boolean\n } = {}\n ) {\n this.withoutNormalizing(() => {\n const at = splitLocation(this, options)\n\n if (!at) {\n return\n }\n\n // De-dupe the marks being added to ensure the set is unique.\n const set: Mark[] = []\n\n for (const mark of marks) {\n if (!Mark.exists(mark, set)) {\n set.push(mark)\n }\n }\n\n for (const [node, path] of this.texts({ at })) {\n for (const mark of set) {\n if (!Mark.exists(mark, node.marks)) {\n this.apply({ type:
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'add_mark', path, mark })\n }\n }\n }\n })\n }\n\n removeMarks(\n this: Editor,\n marks: Mark[],\n options: {\n at?: Location\n hanging?: boolean\n } = {}\n) {\n this.withoutNormalizing(() => {\n const at = splitLocation(this, options)\n\n if (at) {\n for (const [mark, i, node, path] of this.marks({ at })) {\n if (Mark.exists(mark, marks)) {\n this.apply({ type: 'remove_mark', path, mark })\n }\n }\n }\n })\n }\n\n setMarks(\n this: Editor,\n marks: Mark[],\n props: Partial<Mark>,\n options: {\n at?: Location\n hanging?: boolean\n } = {}\n) {\n this.withoutNormalizing(() => {\n const at = splitLocation(this, options)\n\n if (at) {\n for (const [mark, i, node, path] of this.marks({ at })) {\n if (Mark.exists(mark, marks)) {\n const newProps = {}\n\n for (const k in props) {\n if (props[k] !== mark[k]) {\n newProps[k] = props[k]\n }\n }\n\n if (Object.keys(newProps).length > 0) {\n this.apply({\n type: 'set_mark',\n path,\n properties: mark,\n newProperties: newProps,\n })\n }\n }\n }\n }\n })\n }\n\n toggleMarks(\n this: Editor,\n marks: Mark[],\n options: {\n at?: Location\n hanging?: boolean\n } = {}\n) {\n this.withoutNormalizing(() => {\n const existing = this.getActiveMarks(options)\n const exists = marks.every(m => Mark.exists(m, existing))\n\n if (exists) {\n this.removeMarks(marks, options)\n } else {\n this.addMarks(marks, options)\n }\n })\n }\n}\n\n/**\n * Split the text nodes at a range's edges to prepare for adding/removing marks.\n */\n\nconst splitLocation = (\n editor: Editor,\n options: {\n at?: Location\n hanging?: boolean\n } = {}\n): Location | undefined => {\n let { at = editor.value.selection, hanging = false } = options\n\n if (!at) {\n return\n }\n\n if (Range.isRange(at)) {\n if (!hanging) {\n at = editor.unhangRange(at)\n }\n\n const rangeRef = editor.createRangeRef(at, { affinity: 'inward' })\n const [start, end] = Range.edges(at)\n editor.splitNodes({ at: end, match: 'text' })\n editor.splitNodes({ at: start, match: 'text' })\n const range = rangeRef.unref()!\n\n if (options.at == null) {\n editor.select(range)\n }\n\n return range\n }\n\n return at\n}\n\nexport default MarkCommands\n","import { Editor, Location, Point, Range, Path } from '../..'\n\nclass SelectionCommands {\n /**\n * Collapse the selection.\n */\n\n collapse(\n this: Editor,\n options: {\n edge?: 'anchor' | 'focus' | 'start' | 'end'\n } = {}\n) {\n const { edge = 'anchor' } = options\n const { selection } = this.value\n\n if (!selection) {\n return\n } else if (edge === 'anchor') {\n this.select(selection.anchor)\n } else if (edge === 'focus') {\n this.select(selection.focus)\n } else if (edge === 'start') {\n const [start] = Range.edges(selection)\n this.select(start)\n } else if (edge === 'end') {\n const [, end] = Range.edges(selection)\n this.select(end)\n }\n }\n\n /**\n * Unset the selection.\n */\n\n deselect(this: Editor) {\n const { selection } = this.value\n\n if (selection) {\n this.apply({\n type: 'set_selection',\n properties: selection,\n newProperties: null,\n })\n }\n }\n\n /**\n * Move the selection's point forward or backward.\n */\n\n move(\n this: Editor,\n options: {\n distance?: number\n unit?: 'offset' | 'character' | 'word' | 'line'\n reverse?: boolean\n edge?: 'anchor' | 'focus' | 'start' | 'end'\n } = {}\n) {\n const { selection } = this.value\n const { distance = 1, unit = 'character', reverse = false } = options\n let { edge = null } = options\n\n if (!selection) {\n return\n }\n\n if (edge === 'start') {\n edge = Range.isBackward(selection) ? 'focus' : 'anchor'\n }\n\n if (edge === 'end') {\n edge = Range.isBackward(selection) ? 'anchor' : 'focus'\n }\n\n const { anchor, focus } = selection\n const opts = { distance, unit }\n const props: Partial<Range> = {}\n\n if (edge == null || edge === 'anchor') {\n const point = reverse\n ? this.getBefore(anchor, opts)\n : this.getAfter(anchor, opts)\n\n if (point) {\n props.anchor = point\n }\n }\n\n if (edge == null || edge === 'focus') {\n const point = reverse\n ? this.getBefore(focus, opts)\n : this.getAfter(focus, opts)\n\n if (point) {\n props.focus = point\n }\n }\n\n this.setSelection(props)\n }\n\n /**\n * Set the selection to a new value.\n */\n\n select(this: Editor, target: Location) {\n const { selection } = this.value\n target = this.getRange(target)\n\n if (selection) {\n this.setSelection(target)\n return\n }\n\n if (!Range.isRange(target)) {\n throw new Error(\n `When setting the selection and the current selection is \\`null\\` you must provide at least an \\`anchor\\` and \\`focus\\`, but you passed: ${JSON.stringify(\n target\n )}`\n)\n }\n\n this.apply({\n type: 'set_selection',\n properties: selection,\n newProperties: target,\n })\n }\n\n /**\n * Set new properties on one of the selection's points.\n */\n\n setPoint(\n this: Editor,\n props: Partial<Point>,\n options: {\n edge?: 'anchor' | 'focus' | 'start' | 'end'\n } = {}\n) {\n const { selection } = this.value\n let { edge = 'both' } = options\n\n if (!selection) {\n

return\n }\n\n if (edge === 'start') {\n edge = Range.isBackward(selection) ? 'focus' : 'anchor'\n }\n\n if (edge === 'end') {\n edge = Range.isBackward(selection) ? 'anchor' : 'focus'\n }\n\n const { anchor, focus } = selection\n const point = edge === 'anchor' ? anchor : focus\n const newPoint = Object.assign(point, props)\n\n if (edge === 'anchor') {\n this.setSelection({ anchor: newPoint })\n } else {\n this.setSelection({ focus: newPoint })\n }\n }\n\n /**\n * Set new properties on the selection.\n */\n\n setSelection(this: Editor, props: Partial<Range>) {\n const { selection } = this.value\n const oldProps: Partial<Range> | null = {}\n const newProps: Partial<Range> = {}\n\n if (!selection) {\n return\n }\n\n for (const k in props) {\n if (\n (k === 'anchor' &&\n props.anchor != null &&\n !Point.equals(props.anchor, selection.anchor)) ||\n (k === 'focus' &&\n props.focus != null &&\n !Point.equals(props.focus, selection.focus)) ||\n (k !== 'anchor' && k !== 'focus' && props[k] !== selection[k])\n) {\n oldProps[k] = selection[k]\n newProps[k] = props[k]\n }\n }\n\n if (Object.keys(oldProps).length > 0) {\n this.apply({\n type: 'set_selection',\n properties: oldProps,\n newProperties: newProps,\n })\n }\n }\n}\n\nexport default SelectionCommands\n","function _arrayWithoutHoles(arr) {\n if (Array.isArray(arr)) {\n for (var i = 0, arr2 = new Array(arr.length); i < arr.length; i++) {\n arr2[i] = arr[i];\n }\n\n return arr2;\n }\n}\n\nmodule.exports = _arrayWithoutHoles;","function _iterableToArray(iter) {\n if (Symbol.iterator in Object(iter) || Object.prototype.toString.call(iter) === \"[object Arguments]\") return Array.from(iter);\n}\n\nmodule.exports = _iterableToArray;","function _nonIterableSpread() {\n throw new TypeError(\"Invalid attempt to spread non-iterable instance\");\n}\n\nmodule.exports = _nonIterableSpread;","var arrayWithoutHoles = require(\"./arrayWithoutHoles\");\n\nvar iterableToArray = require(\"./iterableToArray\");\n\nvar nonIterableSpread = require(\"./nonIterableSpread\");\n\nfunction _toConsumableArray(arr) {\n return arrayWithoutHoles(arr) || iterableToArray(arr) || nonIterableSpread();\n}\n\nmodule.exports = _toConsumableArray;","import { Operation, Editor, Node, Path, Text, Value } from '../..'\nimport {\n DIRTY_PATHS,\n PATH_REFS,\n POINT_REFS,\n RANGE_REFS,\n FLUSHING,\n NORMALIZING,\n} from '../utils'\n\nclass GeneralCommands {\n apply(this: Editor, op: Operation): void {\n this.value = Value.transform(this.value, op)\n this.operations.push(op)\n\n for (const ref of PATH_REFS.get(this)!) {\n ref.transform(op)\n }\n\n for (const ref of POINT_REFS.get(this)!) {\n ref.transform(op)\n }\n\n for (const ref of RANGE_REFS.get(this)!) {\n ref.transform(op)\n }\n\n const pathCache = {}\n const dirtyPaths: Path[] = []\n const add = (path: Path | null) => {\n if (path == null) {\n return\n }\n\n const key = path.join(',')\n\n if (key in pathCache) {\n return\n }\n\n pathCache[key] = true\n dirtyPaths.push(path)\n }\n\n for (const path of DIRTY_PATHS.get(this)!) {\n add(Path.transform(path, op))\n }\n\n for (const path of getDirtyPaths(op)) {\n add(path)\n }\n\n DIRTY_PATHS.set(this, dirtyPaths)\n this.normalize()\n\n if (!FLUSHING.get(this)) {\n FLUSHING.set(this, true)\n Promise.resolve().then(() => this.flush())\n }\n }\n\n flush(this: Editor): void {\n FLUSHING.set(this, false)\n const { value, operations } = this\n\n if (operations.length !== 0) {\n this.operations = []\n this.onChange(value, operations)\n }\n }\n\n normalize(\n this: Editor,\n options: {\n force?: boolean\n } = {}\n): void {\n const { force = false } = options\n\n if (!NORMALIZING.get(this)) {\n return\n }\n\n if (force) {\n const allPaths = Array.from(Node.nodes(this.value), ([, p]) => p)\n DIRTY_PATHS.set(this, allPaths)\n }\n\n if (DIRTY_PATHS.get(this)!.length === 0) {\n return\n }\n\n this.withoutNormalizing(() => {\n const max = DIRTY_PATHS.get(this)!.length * 42 // HACK: better way to do this?\n let m = 0\n\n while (DIRTY_PATHS.get(this)!.length !== 0) {\n if (m > max) {\n throw new Error(`\n Could not completely normalize the value after ${max} iterations! This is usually due to incorrect normalization logic that leaves a node in an invalid state.\n `)\n }\n\n const path = DIRTY_PATHS.get(this)!.pop()\n this.normalizeNodes({ at: path! })\n m++\n }\n })\n }\n\n withoutNormalizing(this: Editor, fn: () => void): void {\n const value = NORMALIZING.get(this)!\n NORMALIZING.set(this, false)\n fn()\n NORMALIZING.set(this, value)\n this.normalize()\n }\n}\n\n/**\n * Get the \"dirty\" paths generated from an operation.\n */\n\nconst getDirtyPaths = (op: Operation) => {\n switch (op.type) {\n case 'add_mark':\n case 'insert_text':\n case 'remove_mark':\n case 'remove_text':\n case 'set_mark':\n case 'set_node': {\n const { path } = op\n return Path.levels(path)\n }\n\n case 'insert_node': {\n const { node, path } = op\n const levels = Path.levels(path)\n const descendants = Text.isText(node)\n

? []\n : Array.from(Node.nodes(node), ([, p]) => path.concat(p))\n\n return [...levels, ...descendants]\n }\n\n case 'merge_node': {\n const { path } = op\n const ancestors = Path.ancestors(path)\n const previousPath = Path.previous(path)\n return [...ancestors, previousPath]\n }\n\n case 'move_node': {\n const { path, newPath } = op\n\n if (Path.equals(path, newPath)) {\n return []\n }\n\n const oldAncestors: Path[] = []\n const newAncestors: Path[] = []\n\n for (const ancestor of Path.ancestors(path)) {\n const path = Path.transform(ancestor, op)\n oldAncestors.push(path!)\n }\n\n for (const ancestor of Path.ancestors(newPath)) {\n const path = Path.transform(ancestor, op)\n newAncestors.push(path!)\n }\n\n return [...oldAncestors, ...newAncestors]\n }\n\n case 'remove_node': {\n const { path } = op\n const ancestors = Path.ancestors(path)\n return [...ancestors]\n }\n\n case 'split_node': {\n const { path } = op\n const levels = Path.levels(path)\n const nextPath = Path.next(path)\n return [...levels, nextPath]\n }\n\n default: {\n return []\n }\n }\n}\n\nexport default GeneralCommands\n","import { Editor, Element, Text } from '../..'\n\nclass ElementQueries {\n /**\n * Check if a node has block children.\n */\n\n hasBlocks(this: Editor, element: Element): boolean {\n return element.nodes.some(n => Element.isElement(n) && !this.isInline(n))\n }\n\n /**\n * Check if a node has inline and text children.\n */\n\n hasInlines(this: Editor, element: Element): boolean {\n return element.nodes.some(\n n => Text.isText(n) || (Element.isElement(n) && this.isInline(n))\n)\n }\n\n /**\n * Check if a node has text children.\n */\n\n hasTexts(this: Editor, element: Element): boolean {\n return element.nodes.every(n => Text.isText(n))\n }\n\n /**\n * Check if an element is empty, accounting for void nodes.\n */\n\n isEmpty(this: Editor, element: Element): boolean {\n const { nodes } = element\n const [first] = nodes\n return (\n nodes.length === 0 ||\n (nodes.length === 1 &&\n Text.isText(first) &&\n first.text === '' &&\n !this.isVoid(element))\n)\n }\n\n /**\n * Check if a node is an inline, meaning that it lives intermixed with text\n * nodes in the document tree.\n */\n\n isInline(this: Editor, element: Element): boolean {\n return false\n }\n\n /**\n * Check if a node is a void, meaning that Slate considers its content a black\n * box. It will be edited as if it has no content.\n */\n\n isVoid(this: Editor, element: Element): boolean {\n return false\n }\n}\n\nexport default ElementQueries\n","import { Editor, Path, Point, PathRef, PointRef, Range, RangeRef } from '../..'\n\nclass GeneralQueries {\n /**\n * Create a mutable ref for a `Path` object, which will stay in sync as new\n * operations are applied to the this.\n */\n\n createPathRef(\n this: Editor,\n path: Path,\n options: { affinity?: 'backward' | 'forward' | null } = {}\n): PathRef {\n const { affinity = 'forward' } = options\n const ref: PathRef = new PathRef({ path, affinity, editor: this })\n return ref\n }\n\n /**\n * Create a mutable ref for a `Point` object, which will stay in sync as new\n * operations are applied to the this.\n */\n\n createPointRef(\n this: Editor,\n point: Point,\n options: { affinity?: 'backward' | 'forward' | null } = {}\n): PointRef {\n const { affinity = 'forward' } = options\n const ref: PointRef = new PointRef({ point, affinity, editor: this })\n return ref\n }\n\n /**\n * Create a mutable ref for a `Range` object, which will stay in sync as new\n * operations are applied to the this.\n */\n\n createRangeRef(\n this: Editor,\n range: Range,\n options: {\n affinity?: 'backward' | 'forward' | 'outward' | 'inward' | null\n } = {}\n): RangeRef {\n const { affinity = 'forward' } = options\n const ref: RangeRef = new RangeRef({ range, affinity, editor: this })\n return ref\n }\n}\n\nexport default GeneralQueries\n","/**\n * Copyright (c) 2014-present, Facebook, Inc.\n *\n * This source code is licensed under the MIT license found in the\n * LICENSE file in the root directory of this source tree.\n */\n\nvar runtime = (function (exports) {\n \"use strict\";\n\n var Op = Object.prototype;\n var hasOwn = Op.hasOwnProperty;\n var undefined; // More compressible than void 0.\n var $Symbol = typeof Symbol === \"function\" ? Symbol : {};\n var iteratorSymbol = $Symbol.iterator || \"@@iterator\";\n var asyncIteratorSymbol = $Symbol.asyncIterator || \"@@asyncIterator\";\n var toStringTagSymbol = $Symbol.toStringTag || \"@@toStringTag\";\n\n function wrap(innerFn, outerFn, self, tryLocsList) {\n // If outerFn provided and outerFn.prototype is a Generator, then outerFn.prototype instanceof Generator.\n var protoGenerator = outerFn && outerFn.prototype instanceof Generator ? outerFn : Generator;\n var generator = Object.create(protoGenerator.prototype);\n var context = new Context(tryLocsList || []);\n\n // The ._invoke method unifies the implementations of the .next,\n // .throw, and .return methods.\n generator._invoke = makeInvokeMethod(innerFn, self, context);\n\n return generator;\n }\n exports.wrap = wrap;\n\n // Try/catch helper to minimize deoptimizations. Returns a completion\n // record like context.tryEntries[i].completion. This

interface could\n // have been (and was previously) designed to take a closure to be\n // invoked without arguments, but in all the cases we care about we\n // already have an existing method we want to call, so there's no need\n // to create a new function object. We can even get away with assuming\n // the method takes exactly one argument, since that happens to be true\n // in every case, so we don't have to touch the arguments object. The\n // only additional allocation required is the completion record, which\n // has a stable shape and so hopefully should be cheap to allocate.\n function tryCatch(fn, obj, arg) {\n   try {\n   return { type: \"normal\", arg: fn.call(obj, arg) };\n   } catch (err) {\n   return { type: \"throw\", arg: err };\n   }\n }\n\n var GenStateSuspendedStart = \"suspendedStart\";\n var GenStateSuspendedYield = \"suspendedYield\";\n var GenStateExecuting = \"executing\";\n var GenStateCompleted = \"completed\";\n\n // Returning this object from the innerFn has the same effect as\n // breaking out of the dispatch switch statement.\n var ContinueSentinel = {};\n\n // Dummy constructor functions that we use as the .constructor and\n // .constructor.prototype properties for functions that return Generator\n // objects. For full spec compliance, you may wish to configure your\n // minifier not to mangle the names of these two functions.\n function Generator() {}\n function GeneratorFunction() {}\n function GeneratorFunctionPrototype() {}\n\n // This is a polyfill for %IteratorPrototype% for environments that\n // don't natively support it.\n var IteratorPrototype = {};\n IteratorPrototype[iteratorSymbol] = function () {\n   return this;\n };\n\n var getProto = Object.getPrototypeOf;\n var NativeIteratorPrototype = getProto &&\n getProto(getProto(values([])));\n if (NativeIteratorPrototype &&\n   NativeIteratorPrototype !== Op &&\n hasOwn.call(NativeIteratorPrototype, iteratorSymbol)) {\n   // This environment has a native %IteratorPrototype%; use it instead\n   // of the polyfill.\n   IteratorPrototype = NativeIteratorPrototype;\n }\n\n var Gp = GeneratorFunctionPrototype.prototype =\n   Generator.prototype = Object.create(IteratorPrototype);\n GeneratorFunction.prototype = Gp.constructor = GeneratorFunctionPrototype;\n GeneratorFunctionPrototype.constructor = GeneratorFunction;\n GeneratorFunctionPrototype[toStringTagSymbol] =\n   GeneratorFunction.displayName = \"GeneratorFunction\";\n\n // Helper for defining the .next, .throw, and .return methods of the\n // Iterator interface in terms of a single ._invoke method.\n function defineIteratorMethods(prototype) {\n   [\"next\", \"throw\", \"return\"].forEach(function(method) {\n   prototype[method] = function(arg) {\n   return this._invoke(method, arg);\n   };\n   });\n }\n\n exports.isGeneratorFunction = function(genFun) {\n   var ctor = typeof genFun === \"function\" && genFun.constructor;\n   return ctor\n   ? ctor === GeneratorFunction ||\n   // For the native GeneratorFunction constructor, the best we can\n   // do is to check its .name property.\n   (ctor.displayName || ctor.name) === \"GeneratorFunction\"\n   : false;\n };\n\n exports.mark = function(genFun) {\n   if (Object.setPrototypeOf) {\n   Object.setPrototypeOf(genFun, GeneratorFunctionPrototype);\n   } else {\n   genFun.__proto__ = GeneratorFunctionPrototype;\n   if (!(toStringTagSymbol in genFun)) {\n   genFun[toStringTagSymbol] = \"GeneratorFunction\";\n   }\n   }\n   genFun.prototype = Object.create(Gp);\n   return genFun;\n };\n\n // Within the body of any async function, `await x` is transformed to\n // `yield regeneratorRuntime.awrap(x)`, so that the runtime can test\n // `hasOwn.call(value, \"__await\")` to determine if the yielded value is\n // meant to be awaited.\n exports.awrap = function(arg) {\n   return { __await: arg };\n };\n\n function AsyncIterator(generator) {\n   function invoke(method, arg, resolve, reject) {\n   var record = tryCatch(generator[method], generator, arg);\n   if (record.type === \"throw\") {\n   reject(record.arg);\n   } else {\n   var result = record.arg;\n   var value = result.value;\n   if (value &&\n   typeof value === \"object\" &&\n   hasOwn.call(value, \"__await\")) {\n   return Promise.resolve(value.__await).then(function(value) {\n   invoke(\"next\", value, resolve, reject);\n   }, function(err) {\n   invoke(\"throw\", err, resolve, reject);\n   });\n   }\n\n   return Promise.resolve(value).then(function(unwrapped) {\n   // When a yielded Promise is resolved, its final value becomes\n   // the .value of the Promise<{value,done}> result for the\n   // current iteration.\n   result.value = unwrapped;\n   resolve(result);\n   }, function(error) {\n   // If a rejected Promise was yielded, throw the rejection back\n   // into the async generator function so it can be handled there.\n   return invoke(\"throw\", error, resolve, reject);\n   });\n   }\n   }\n\n   var previousPromise;\n\n   function enqueue(method, arg) {\n   function callInvokeWithMethodAndArg() {\n   return new Promise(function(resolve, reject) {\n   invoke(method, arg, resolve, reject);\n   });\n   }\n\n   return

previousPromise =\n // If enqueue has been called before, then we want to wait until\n // all previous Promises have been resolved before calling invoke,\n // so that results are always delivered in the correct order. If\n // enqueue has not been called before, then it is important to\n // call invoke immediately, without waiting on a callback to fire,\n // so that the async generator function has the opportunity to do\n // any necessary setup in a predictable way. This predictability\n // is why the Promise constructor synchronously invokes its\n // executor callback, and why async functions synchronously\n // execute code before the first await. Since we implement simple\n // async functions in terms of async generators, it is especially\n // important to get this right, even though it requires care.\n previousPromise ? previousPromise.then(\n callInvokeWithMethodAndArg,\n // Avoid propagating failures to Promises returned by later\n // invocations of the iterator.\n callInvokeWithMethodAndArg\n) : callInvokeWithMethodAndArg();\n }\n\n // Define the unified helper method that is used to implement .next,\n // .throw, and .return (see defineIteratorMethods).\n this._invoke = enqueue;\n }\n\n defineIteratorMethods(AsyncIterator.prototype);\n AsyncIterator.prototype[asyncIteratorSymbol] = function () {\n return this;\n };\n exports.AsyncIterator = AsyncIterator;\n\n // Note that simple async functions are implemented on top of\n // AsyncIterator objects; they just return a Promise for the value of\n // the final result produced by the iterator.\n exports.async = function(innerFn, outerFn, self, tryLocsList) {\n var iter = new AsyncIterator(\n wrap(innerFn, outerFn, self, tryLocsList)\n);\n\n return exports.isGeneratorFunction(outerFn)\n ? iter // If outerFn is a generator, return the full iterator.\n : iter.next().then(function(result) {\n return result.done ? result.value : iter.next();\n });\n };\n\n function makeInvokeMethod(innerFn, self, context) {\n var state = GenStateSuspendedStart;\n\n return function invoke(method, arg) {\n if (state === GenStateExecuting) {\n throw new Error(\"Generator is already running\");\n }\n\n if (state === GenStateCompleted) {\n if (method === \"throw\") {\n throw arg;\n }\n\n // Be forgiving, per 25.3.3.3.3 of the spec:\n // https://people.mozilla.org/~jorendorff/es6-draft.html#sec-generatorresume\n return doneResult();\n }\n\n context.method = method;\n context.arg = arg;\n\n while (true) {\n var delegate = context.delegate;\n if (delegate) {\n var delegateResult = maybeInvokeDelegate(delegate, context);\n if (delegateResult) {\n if (delegateResult === ContinueSentinel) continue;\n return delegateResult;\n }\n }\n\n if (context.method === \"next\") {\n // Setting context._sent for legacy support of Babel's\n // function.sent implementation.\n context.sent = context._sent = context.arg;\n\n } else if (context.method === \"throw\") {\n if (state === GenStateSuspendedStart) {\n state = GenStateCompleted;\n throw context.arg;\n }\n\n context.dispatchException(context.arg);\n\n } else if (context.method === \"return\") {\n context.abrupt(\"return\", context.arg);\n }\n\n state = GenStateExecuting;\n\n var record = tryCatch(innerFn, self, context);\n if (record.type === \"normal\") {\n // If an exception is thrown from innerFn, we leave state ===\n // GenStateExecuting and loop back for another invocation.\n state = context.done\n ? GenStateCompleted\n : GenStateSuspendedYield;\n\n if (record.arg === ContinueSentinel) {\n continue;\n }\n\n return {\n value: record.arg,\n done: context.done\n };\n\n } else if (record.type === \"throw\") {\n state = GenStateCompleted;\n // Dispatch the exception by looping back around to the\n // context.dispatchException(context.arg) call above.\n context.method = \"throw\";\n context.arg = record.arg;\n }\n }\n };\n }\n\n // Call delegate.iterator[context.method](context.arg) and handle the\n // result, either by returning a { value, done } result from the\n // delegate iterator, or by modifying context.method and context.arg,\n // setting context.delegate to null, and returning the ContinueSentinel.\n function maybeInvokeDelegate(delegate, context) {\n var method = delegate.iterator[context.method];\n if (method === undefined) {\n // A .throw or .return when the delegate iterator has no .throw\n // method always terminates the yield* loop.\n context.delegate = null;\n\n if (context.method === \"throw\") {\n // Note: [\"return\"] must be used for ES3 parsing compatibility.\n if (delegate.iterator[\"return\"]) {\n // If the delegate iterator has a return method, give it a\n // chance to clean up.\n context.method = \"return\";\n context.arg = undefined;\n maybeInvokeDelegate(delegate, context);\n\n if (context.method === \"throw\") {\n // If maybeInvokeDelegate(context) changed context.method from\n // \"return\" to \"throw\", let that override the

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TypeError below.\n            return ContinueSentinel;\n          }\n        }\n\n        context.method = \"throw\";\n
context.arg = new TypeError(\n          \"The iterator does not provide a 'throw' method\");\n      }\n\n      return
ContinueSentinel;\n    }\n\n    var record = tryCatch(method, delegate.iterator, context.arg);\n\n    if (record.type ===
\"throw\") {\n      context.method = \"throw\";\n      context.arg = record.arg;\n      context.delegate = null;\n
return ContinueSentinel;\n    }\n\n    var info = record.arg;\n\n    if (! info) {\n      context.method = \"throw\";\n
context.arg = new TypeError(\"iterator result is not an object\");\n      context.delegate = null;\n      return
ContinueSentinel;\n    }\n\n    if (info.done) {\n      // Assign the result of the finished delegate to the temporary\n
// variable specified by delegate.resultName (see delegateYield).\n      context[delegate.resultName] =
info.value;\n\n      // Resume execution at the desired location (see delegateYield).\n      context.next =
delegate.nextLoc;\n\n      // If context.method was \"throw\" but the delegate handled the\n      // exception, let the
outer generator proceed normally. If\n      // context.method was \"next\", forget context.arg since it has been\n      //
\"consumed\" by the delegate iterator. If context.method was\n      // \"return\", allow the original .return call to
continue in the\n      // outer generator.\n      if (context.method !== \"return\") {\n        context.method = \"next\";\n
  context.arg = undefined;\n      }\n\n    } else {\n      // Re-yield the result returned by the delegate method.\n
return info;\n    }\n\n    // The delegate iterator is finished, so forget it and continue with\n    // the outer generator.\n
context.delegate = null;\n    return ContinueSentinel;\n  }\n\n  // Define Generator.prototype.{next,throw,return} in
terms of the\n  // unified ._invoke helper method.\n  defineIteratorMethods(Gp);\n\n  Gp[toStringTagSymbol] =
\"Generator\";\n\n  // A Generator should always return itself as the iterator object when the\n  // @@iterator
function is called on it. Some browsers' implementations of the\n  // iterator prototype chain incorrectly implement
this, causing the Generator\n  // object to not be returned from this call. This ensures that doesn't happen.\n  // See
https://github.com/facebook/regenerator/issues/274 for more details.\n  Gp[iteratorSymbol] = function() {\n    return
this;\n  };\n\n  Gp.toString = function() {\n    return \"[object Generator]\";\n  };\n\n  function pushTryEntry(locs) {\n
  var entry = { tryLoc: locs[0] };\n\n    if (1 in locs) {\n      entry.catchLoc = locs[1];\n    }\n\n    if (2 in locs) {\n
entry.finallyLoc = locs[2];\n      entry.afterLoc = locs[3];\n    }\n\n    this.tryEntries.push(entry);\n  }\n\n  function
resetTryEntry(entry) {\n    var record = entry.completion || {};\n    record.type = \"normal\";\n    delete record.arg;\n
entry.completion = record;\n  }\n\n  function Context(tryLocsList) {\n    // The root entry object (effectively a try
statement without a catch\n    // or a finally block) gives us a place to store values thrown from\n    // locations where
there is no enclosing try statement.\n    this.tryEntries = [{ tryLoc: \"root\" }];\n
tryLocsList.forEach(pushTryEntry, this);\n    this.reset(true);\n  }\n\n  exports.keys = function(object) {\n    var keys
= [];\n    for (var key in object) {\n      keys.push(key);\n    }\n    keys.reverse();\n\n    // Rather than returning an
object with a next method, we keep\n    // things simple and return the next function itself.\n    return function next()
{\n      while (keys.length) {\n        var key = keys.pop();\n        if (key in object) {\n          next.value = key;\n
next.done = false;\n          return next;\n        }\n      }\n\n      // To avoid creating an additional object, we just hang
the .value\n      // and .done properties off the next function object itself. This\n      // also ensures that the minifier
will not anonymize the function.\n      next.done = true;\n      return next;\n    };\n  };\n\n  function values(iterable)
{\n    if (iterable) {\n      var iteratorMethod = iterable[iteratorSymbol];\n      if (iteratorMethod) {\n        return
iteratorMethod.call(iterable);\n      }\n\n      if (typeof iterable.next === \"function\") {\n        return iterable;\n
}\n\n      if (!isNaN(iterable.length)) {\n        var i = -1, next = function next() {\n          while (++i < iterable.length)
{\n            if (hasOwn.call(iterable, i)) {\n              next.value = iterable[i];\n              next.done = false;\n
return next;\n            }\n          }\n\n          next.value = undefined;\n          next.done = true;\n\n          return next;\n
  };\n\n        return next.next = next;\n      }\n    }\n\n    // Return an iterator with no values.\n    return { next:
doneResult };\n  }\n  exports.values = values;\n\n  function doneResult() {\n    return { value: undefined, done: true
};\n  }\n\n  Context.prototype = {\n    constructor: Context,\n\n    reset: function(skipTempReset) {\n      this.prev =
0;\n      this.next = 0;\n      // Resetting context._sent for legacy support of Babel's\n      // function.sent
implementation.\n      this.sent = this._sent = undefined;\n      this.done = false;\n      this.delegate = null;\n\n
this.method = \"next\";\n      this.arg = undefined;\n\n      this.tryEntries.forEach(resetTryEntry);\n\n      if
(!skipTempReset) {\n        for (var name in this) {\n          // Not sure about the optimal order of these conditions:\n
    if (name.charAt(0) === \"t\" &&\n              hasOwn.call(this, name) &&\n              !isNaN(+name.slice(1))) {\n
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this[name] = undefined;\n }\n }\n },\n\n stop: function() {\n this.done = true;\n\n var rootEntry = this.tryEntries[0];\n var rootRecord = rootEntry.completion;\n if (rootRecord.type === \"throw\") {\n throw rootRecord.arg;\n }\n\n return this.rval;\n },\n\n dispatchException: function(exception) {\n if (this.done) {\n throw exception;\n }\n\n var context = this;\n function handle(loc, caught) {\n record.type = \"throw\";\n record.arg = exception;\n context.next = loc;\n\n if (caught) {\n // If the dispatched exception was caught by a catch block,\n // then let that catch block handle the exception normally.\n context.method = \"next\";\n context.arg = undefined;\n }\n\n return !! caught;\n }\n\n for (var i = this.tryEntries.length - 1; i >= 0; --i) {\n var entry = this.tryEntries[i];\n var record = entry.completion;\n\n if (entry.tryLoc === \"root\") {\n // Exception thrown outside of any try block that could handle\n // it, so set the completion value of the entire function to\n // throw the exception.\n return handle(\"end\");\n }\n\n if (entry.tryLoc <= this.prev) {\n var hasCatch = hasOwn.call(entry, \"catchLoc\");\n var hasFinally = hasOwn.call(entry, \"finallyLoc\");\n\n if (hasCatch && hasFinally) {\n if (this.prev < entry.catchLoc) {\n return handle(entry.catchLoc, true);\n } else if (this.prev < entry.finallyLoc) {\n return handle(entry.finallyLoc);\n }\n\n } else if (hasCatch) {\n if (this.prev < entry.catchLoc) {\n return handle(entry.catchLoc, true);\n }\n\n } else if (hasFinally) {\n if (this.prev < entry.finallyLoc) {\n return handle(entry.finallyLoc);\n }\n\n } else {\n throw new Error(\"try statement without catch or finally\");\n }\n }\n },\n\n abrupt: function(type, arg) {\n for (var i = this.tryEntries.length - 1; i >= 0; --i) {\n var entry = this.tryEntries[i];\n if (entry.tryLoc <= this.prev &&\n hasOwn.call(entry, \"finallyLoc\") &&\n this.prev < entry.finallyLoc) {\n var finallyEntry = entry;\n break;\n }\n }\n\n if (finallyEntry &&\n (type === \"break\" ||\n type === \"continue\") &&\n finallyEntry.tryLoc <= arg &&\n arg <= finallyEntry.finallyLoc) {\n // Ignore the finally entry if control is not jumping to a\n // location outside the try/catch block.\n finallyEntry = null;\n }\n\n var record = finallyEntry ? finallyEntry.completion : {};\n record.type = type;\n record.arg = arg;\n\n if (finallyEntry) {\n this.method = \"next\";\n this.next = finallyEntry.finallyLoc;\n return ContinueSentinel;\n }\n\n return this.complete(record);\n },\n\n complete: function(record, afterLoc) {\n if (record.type === \"throw\") {\n throw record.arg;\n }\n\n if (record.type === \"break\" ||\n record.type === \"continue\") {\n this.next = record.arg;\n } else if (record.type === \"return\") {\n this.rval = this.arg = record.arg;\n this.method = \"return\";\n this.next = \"end\";\n } else if (record.type === \"normal\" && afterLoc) {\n this.next = afterLoc;\n }\n\n return ContinueSentinel;\n },\n\n finish: function(finallyLoc) {\n for (var i = this.tryEntries.length - 1; i >= 0; --i) {\n var entry = this.tryEntries[i];\n if (entry.finallyLoc === finallyLoc) {\n this.complete(entry.completion, entry.afterLoc);\n resetTryEntry(entry);\n return ContinueSentinel;\n }\n }\n },\n\n \"catch\": function(tryLoc) {\n for (var i = this.tryEntries.length - 1; i >= 0; --i) {\n var entry = this.tryEntries[i];\n if (entry.tryLoc === tryLoc) {\n var record = entry.completion;\n if (record.type === \"throw\") {\n var thrown = record.arg;\n resetTryEntry(entry);\n }\n return thrown;\n }\n }\n\n // The context.catch method must only be called with a location\n // argument that corresponds to a known catch block.\n throw new Error(\"illegal catch attempt\");\n },\n\n delegateYield: function(iterable, resultName, nextLoc) {\n this.delegate = {\n iterator: values(iterable),\n resultName: resultName,\n nextLoc: nextLoc\n };\n\n if (this.method === \"next\") {\n // Deliberately forget the last sent value so that we don't\n // accidentally pass it on to the delegate.\n this.arg = undefined;\n }\n\n return ContinueSentinel;\n }\n };\n\n // Regardless of whether this script is executing as a CommonJS module\n // or not, return the runtime object so that we can declare the variable\n // regeneratorRuntime in the outer scope, which allows this module to be\n // injected easily by `bin/regenerator --include-runtime script.js`.\n return exports;\n\n}(\n // If this script is executing as a CommonJS module, use module.exports\n // as the regeneratorRuntime namespace. Otherwise create a new empty\n // object. Either way, the resulting object will be used to initialize\n // the regeneratorRuntime variable at the top of this file.\n typeof module === \"object\" ? module.exports : {}\n));\n\ntry {\n regeneratorRuntime = runtime;\n} catch (accidentalStrictMode) {\n // This module should not be running in strict mode, so the above\n // assignment
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should always work unless something is misconfigured. Just\n // in case runtime.js accidentally runs in strict mode, we can escape\n // strict mode using a global Function call. This could conceivably fail\n // if a Content Security Policy forbids using Function, but in that case\n // the proper solution is to fix the accidental strict mode problem. If\n // you've misconfigured your bundler to force strict mode and applied a\n // CSP to forbid Function, and you're not willing to fix either of those\n // problems, please detail your unique predicament in a GitHub issue.\n Function(\"r\", \"regeneratorRuntime = r\")(runtime);\n}\n","module.exports = require(\"regenerator-runtime\");\n","import { reverse as reverseText } from 'esrever'\nimport {\n Ancestor,\n AncestorEntry,\n AnnotationEntry,\n Editor,\n Element,\n ElementEntry,\n Location,\n Mark,\n MarkEntry,\n Node,\n NodeEntry,\n Path,\n Point,\n Range,\n Fragment,\n Span,\n Text,\n TextEntry,\n Value,\n} from '../..'\nimport { Match, getCharacterDistance, getWordDistance } from '../utils'\n\nclass LocationQueries {\n /**\n   * Iterate through all of the annotations in the editor.\n   */\n\n *annotations(\n   this: Editor,\n   options: {\n   at?: Location\n   } = {}\n): Iterable<AnnotationEntry> {\n   const { annotations, selection } = this.value\n   const { at = selection } = options\n\n   if (!at) {\n   return\n   }\n\n   const range = this.getRange(at)\n\n   for (const key in annotations) {\n   const annotation = annotations[key]\n\n   if (at && !Range.includes(range, annotation)) {\n   continue\n   }\n\n   yield [annotation, key]\n   }\n }\n\n /**\n   * Iterate through all of the elements in the editor.\n   */\n\n *elements(\n   this: Editor,\n   options: {\n   at?: Location | Span\n   reverse?: boolean\n   } = {}\n): Iterable<ElementEntry> {\n   const { at = this.value.selection } = options\n\n   if (!at) {\n   return\n   }\n\n   const [from, to] = getSpan(this, at, options)\n\n   yield* Node.elements(this.value, {\n   ...options,\n   from,\n   to,\n   pass: ([n]) => Element.isElement(n) && this.isVoid(n),\n   })\n }\n\n /**\n   * Get the marks that are \"active\" at a location. These are the\n   * marks that will be added to any text that is inserted.\n   *\n   * The `union: true` option can be passed to create a union of marks across\n   * the text nodes in the selection, instead of creating an intersection, which\n   * is the default.\n   *\n   * Note: to obey common rich text behavior, if the selection is collapsed at\n   * the start of a text node and there are previous text nodes in the same\n   * block, it will carry those marks forward from the previous text node. This\n   * allows for continuation of marks from previous words.\n   */\n\n getActiveMarks(\n   this: Editor,\n   options: {\n   at?: Location\n   union?: boolean\n   hanging?: boolean\n   } = {}\n): Mark[] {\n   const { union = false, hanging = false } = options\n   let { at = this.value.selection } = options\n\n   if (!at) {\n   return []\n   }\n\n   at = this.getRange(at)\n\n   if (!hanging) {\n   at = this.unhangRange(at)\n   }\n\n   // If the range is collapsed at the start of a text node, it should carry\n   // over the marks from the previous text node in the same block.\n   if (Range.isCollapsed(at) && at.anchor.offset === 0) {\n   const { anchor } = at\n   const prev = this.getPrevious(anchor, 'text')\n\n   if (prev && Path.isSibling(anchor.path, prev[1])) {\n   const [prevNode, prevPath] = prev\n\n   if (Text.isText(prevNode)) {\n   at = this.getRange(prevPath)\n   }\n   }\n   }\n\n   const marks: Mark[] = []\n   let first = true\n\n   for (const [node] of this.texts({ at })) {\n   if (first) {\n   marks.push(...node.marks)\n   first = false\n   continue\n   }\n\n   if (union) {\n   for (const mark of node.marks) {\n   if (!Mark.exists(mark, marks)) {\n   marks.push(mark)\n   }\n   }\n   } else {\n   // PERF: If we're doing an intersection and the result hits zero it can\n   // never increase again, so we can exit early.\n   if (marks.length === 0) {\n   break\n   }\n\n   // Iterate backwards so that removing marks doesn't impact indexing.\n   for (let i = marks.length - 1; i >= 0; i--) {\n   const existing = marks[i]\n\n   if (!Mark.exists(existing, node.marks)) {\n   marks.splice(i, 1)\n   }\n   }\n   }\n   }\n\n   return marks\n }\n\n /**\n   * Get the point after a location.\n   */\n\n getAfter(\n   this: Editor,\n   at: Location,\n   options: {\n   distance?: number\n   unit?: 'offset' | 'character' | 'word' | 'line' | 'block'\n   } = {}\n): Point | undefined {\n   const anchor = this.getPoint(at, { edge: 'end' })\n   const focus = this.getEnd([])\n   const range = { anchor, focus }\n   const { distance = 1 } = options\n   let d = 0\n   let target\n\n   for (const p of this.positions({ ...options, at: range })) {\n   if (d > distance) {\n   break\n   }\n\n   if (d !== 0) {\n   target = p\n   }\n\n   d++\n   }\n\n   return target\n }\n\n /**\n   * Get the common ancestor node of a location.\n   */\n\n getAncestor(\n   this: Editor,\n   at: Location,\n   options: {\n   depth?: number\n   edge?: 'start' | 'end'\n   } = {}\n): AncestorEntry {\n   if (Path.isPath(at) || Point.isPoint(at)) {\n   return this.getParent(at, options)\n   }\n\n   const path = this.getPath(at, options)\n   const ancestorPath = Path.equals(at.anchor.path, at.focus.path)\n   ? Path.parent(path)\n   : path\n\n   const ancestor =

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Node.get(this.value, ancestorPath) as Ancestor\n    return [ancestor, ancestorPath]\n  }\n\n  /**\n   * Get the point before a location.\n   */\n\n  getBefore(\n    this: Editor,\n    at: Location,\n    options: {\n      distance?: number\n      unit?: 'offset' | 'character' | 'word' | 'line' | 'block'\n    } = {}\n  ): Point | undefined {\n    const anchor = this.getStart([])\n    const focus = this.getPoint(at, { edge: 'start' })\n    const range = { anchor, focus }\n    const { distance = 1 } = options\n    let d = 0\n    let target\n\n    for (const p of this.positions({ ...options, at: range, reverse: true })) {\n      if (d > distance) {\n        break\n      }\n\n      if (d !== 0) {\n        target = p\n      }\n\n      d++\n    }\n\n    return target\n  }\n\n  /**\n   * Get the start and end points of a location.\n   */\n\n  getEdges(this: Editor, at: Location): [Point, Point] {\n    return [this.getStart(at), this.getEnd(at)]\n  }\n\n  /**\n   * Get the end point of a location.\n   */\n\n  getEnd(this: Editor, at: Location): Point {\n    return this.getPoint(at, { edge: 'end' })\n  }\n\n  /**\n   * Get the first node at a location.\n   */\n\n  getFirst(this: Editor, at: Location): NodeEntry {\n    const path = this.getPath(at, { edge: 'start' })\n    return this.getNode(path)\n  }\n\n  /**\n   * Get the fragment at a location.\n   */\n\n  getFragment(this: Editor, at: Location): Fragment {\n    const range = this.getRange(at)\n    const fragment = Node.fragment(this.value, range)\n    return fragment\n  }\n\n  /**\n   * Get the last node at a location.\n   */\n\n  getLast(this: Editor, at: Location): NodeEntry {\n    const path = this.getPath(at, { edge: 'end' })\n    return this.getNode(path)\n  }\n\n  /**\n   * Get the leaf text node at a location.\n   */\n\n  getLeaf(\n    this: Editor,\n    at: Location,\n    options: {\n      depth?: number\n      edge?: 'start' | 'end'\n    } = {}\n  ): TextEntry {\n    const path = this.getPath(at, options)\n    const node = Node.leaf(this.value, path)\n    return [node, path]\n  }\n\n  /**\n   * Get the first matching node in a single branch of the document.\n   */\n\n  getMatch(this: Editor, at: Location, match: Match): NodeEntry | undefined {\n    // PERF: If the match is a path, don't traverse.\n    if (Path.isPath(match)) {\n      return this.getNode(match)\n    }\n\n    // PERF: If the target is a path and the match is a depth, don't traverse.\n    if (typeof match === 'number' && match <= at.length && Path.isPath(at)) {\n      const p = at.slice(0, match)\n      return this.getNode(p)\n    }\n\n    const path = this.getPath(at)\n\n    for (const entry of this.levels({ at: path })) {\n      if (isMatch(this, entry, match)) {\n        return entry\n      }\n    }\n  }\n\n  /**\n   * Get the matching node in the branch of the document after a location.\n   */\n\n  getNext(this: Editor, at: Location, match: Match): NodeEntry | undefined {\n    const [, from] = this.getLast(at)\n    const [, to] = this.getLast([])\n    const span: Span = [from, to]\n    let i = 0\n\n    for (const entry of this.matches({ at: span, match })) {\n      if (i === 1) {\n        return entry\n      }\n\n      i++\n    }\n  }\n\n  /**\n   * Get the node at a location.\n   */\n\n  getNode(\n    this: Editor,\n    at: Location,\n    options: {\n      depth?: number\n      edge?: 'start' | 'end'\n    } = {}\n  ): NodeEntry {\n    const path = this.getPath(at, options)\n    const node = Node.get(this.value, path)\n    return [node, path]\n  }\n\n  /**\n   * Get the parent node of a location.\n   */\n\n  getParent(\n    this: Editor,\n    at: Location,\n    options: {\n      depth?: number\n      edge?: 'start' | 'end'\n    } = {}\n  ): AncestorEntry {\n    const path = this.getPath(at, options)\n    const parentPath = Path.parent(path)\n    const entry = this.getNode(parentPath)\n    return entry as AncestorEntry\n  }\n\n  /**\n   * Get the path of a location.\n   */\n\n  getPath(\n    this: Editor,\n    at: Location,\n    options: {\n      depth?: number\n      edge?: 'start' | 'end'\n    } = {}\n  ): Path {\n    const { depth, edge } = options\n\n    if (Path.isPath(at)) {\n      if (edge === 'start') {\n        const [, firstPath] = Node.first(this.value, at)\n        at = firstPath\n      } else if (edge === 'end') {\n        const [, lastPath] = Node.last(this.value, at)\n        at = lastPath\n      }\n    }\n\n    if (Range.isRange(at)) {\n      if (edge === 'start') {\n        at = Range.start(at)\n      } else if (edge === 'end') {\n        at = Range.end(at)\n      } else {\n        at = Path.common(at.anchor.path, at.focus.path)\n      }\n    }\n\n    if (Point.isPoint(at)) {\n      at = at.path\n    }\n\n    if (depth != null) {\n      at = at.slice(0, depth)\n    }\n\n    return at\n  }\n\n  /**\n   * Get the start or end point of a location.\n   */\n\n  getPoint(\n    this: Editor,\n    at: Location,\n    options: {\n      edge?: 'start' | 'end'\n    } = {}\n  ): Point {\n    const { edge = 'start' } = options\n\n    if (Path.isPath(at)) {\n      let path\n\n      if (edge === 'end') {\n        const [, lastPath] = Node.last(this.value, at)\n        path = lastPath\n      } else {\n        const [, firstPath] = Node.first(this.value, at)\n        path = firstPath\n      }\n\n      const node = Node.get(this.value, path)\n\n      if (!Text.isText(node)) {\n        throw new Error(\n          `Cannot get the ${edge} point in the node at path [${at}] because it has no ${edge} text node.`\n        )\n      }\n\n      return { path, offset: edge === 'end' ? node.text.length : 0 }\n    }\n\n    if (Range.isRange(at)) {\n      const [start, end] = Range.edges(at)\n      return edge === 'start' ? start : end\n    }\n\n    return at\n  }\n\n  /**\n   * Get the matching node in the branch of the document before a location.\n   */\n\n  getPrevious(this: Editor, at: Location, match:
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Match): NodeEntry | undefined {\n const [, from] = this.getFirst(at)\n const [, to] = this.getFirst([])\n const span: Span = [from, to]\n let i = 0\n\n for (const entry of this.matches({ match, at: span, reverse: true })) {\n if (i === 1) {\n return entry\n }\n\n i++\n }\n }\n\n /**\n * Get a range of a location.\n */\n\n getRange(this: Editor, at: Location, to?: Location): Range {\n if (Range.isRange(at) && !to) {\n return at\n }\n\n const start = this.getStart(at)\n const end = this.getEnd(to || at)\n return { anchor: start, focus: end }\n }\n\n /**\n * Get the start point of a location.\n */\n\n getStart(this: Editor, at: Location): Point {\n return this.getPoint(at, { edge: 'start' })\n }\n\n /**\n * Get the text content of a location.\n *\n * Note: the text of void nodes is presumed to be an empty string, regardless\n * of what their actual content is.\n */\n\n getText(this: Editor, at: Location): string {\n const range = this.getRange(at)\n const [start, end] = Range.edges(range)\n let text = ''\n\n for (const [node, path] of this.texts({ at: range })) {\n let t = node.text\n\n if (Path.equals(path, end.path)) {\n t = t.slice(0, end.offset)\n }\n\n if (Path.equals(path, start.path)) {\n t = t.slice(start.offset)\n }\n\n text += t\n }\n\n return text\n }\n\n /**\n * Check if there is a node at a location.\n */\n\n hasNode(\n this: Editor,\n at: Location,\n options: {\n depth?: number\n edge?: 'start' | 'end'\n } = {}\n): boolean {\n const path = this.getPath(at, options)\n const exists = Node.has(this.value, path)\n return exists\n }\n\n /**\n * Check if a point the start point of a location.\n */\n\n isStart(this: Editor, point: Point, at: Location): boolean {\n // PERF: If the offset isn't `0` we know it's not the start.\n if (point.offset !== 0) {\n return false\n }\n\n const start = this.getStart(at)\n return Point.equals(point, start)\n }\n\n /**\n * Check if a point is the end point of a location.\n */\n\n isEnd(this: Editor, point: Point, at: Location): boolean {\n const end = this.getEnd(at)\n return Point.equals(point, end)\n }\n\n /**\n * Check if a point is an edge of a location.\n */\n\n isEdge(this: Editor, point: Point, at: Location): boolean {\n return this.isStart(point, at) || this.isEnd(point, at)\n }\n\n /**\n * Iterate through all of the levels at a location.\n */\n\n *levels(\n this: Editor,\n options: {\n at?: Location\n reverse?: boolean\n } = {}\n): Iterable<NodeEntry> {\n const { at = this.value.selection, reverse = false } = options\n\n if (!at) {\n return\n }\n\n const levels: NodeEntry[] = []\n const path = this.getPath(at)\n\n for (const [n, p] of Node.levels(this.value, path)) {\n levels.push([n, p])\n\n if (Element.isElement(n) && this.isVoid(n)) {\n break\n }\n }\n\n if (reverse) {\n levels.reverse()\n }\n\n yield* levels\n }\n\n /**\n * Iterate through all of the text nodes in the editor.\n */\n\n *marks(\n this: Editor,\n options: {\n at?: Location | Span\n reverse?: boolean\n } = {}\n): Iterable<MarkEntry> {\n const { at = this.value.selection } = options\n\n if (!at) {\n return\n }\n\n const [from, to] = getSpan(this, at, options)\n\n yield* Node.marks(this.value, {\n ...options,\n from,\n to,\n pass: ([n]) => Element.isElement(n) && this.isVoid(n),\n })\n }\n\n /**\n * Iterate through all of the nodes that match.\n */\n\n *matches(\n this: Editor,\n options: {\n at?: Location | Span\n match?: Match\n reverse?: boolean\n } = {}\n): Iterable<NodeEntry> {\n const {\n at = this.value.selection,\n match = Path.isPath(at) ? at : () => true,\n reverse = false,\n } = options\n\n if (!at) {\n return\n }\n\n let prevPath: Path | undefined\n\n for (const [n, p] of this.nodes({ at, reverse })) {\n if (prevPath && Path.compare(p, prevPath) === 0) {\n continue\n }\n\n if (isMatch(this, [n, p], match)) {\n prevPath = p\n yield [n, p]\n }\n }\n }\n\n /**\n * Iterate through all of the nodes in the editor.\n */\n\n *nodes(\n this: Editor,\n options: {\n at?: Location | Span\n reverse?: boolean\n } = {}\n): Iterable<NodeEntry> {\n const { at = this.value.selection } = options\n\n if (!at) {\n return\n }\n\n const [from, to] = getSpan(this, at, options)\n const iterable = Node.nodes(this.value, {\n ...options,\n from,\n to,\n pass: ([n]) => Element.isElement(n) && this.isVoid(n),\n })\n\n for (const entry of iterable) {\n yield entry\n }\n }\n\n /**\n * Iterate through all of the positions in the document where a `Point` can be\n * placed.\n *\n * By default it will move forward by individual offsets at a time, but you\n * can pass the `unit: 'character'` option to moved forward one character, word,\n * or line at at time.\n *\n * Note: void nodes are treated as a single point, and iteration will not\n * happen inside their content.\n */\n\n *positions(\n this: Editor,\n options: {\n at?: Location\n unit?: 'offset' | 'character' | 'word' | 'line' | 'block'\n reverse?: boolean\n } = {}\n): Iterable<Point> {\n const {\n at = this.value.selection,\n unit = 'offset',\n reverse = false,\n } = options\n\n if (!at) {\n return\n }\n\n const range = this.getRange(at)\n const [start, end] = Range.edges(range)\n const first = reverse ? end : start\n let string = ''\n let available = 0\n let offset = 0\n

let distance: number | null = null\n let isNewBlock = false\n\n const advance = () => {\n   if (distance == null) {\n   if (unit === 'character') {\n   distance = getCharacterDistance(string)\n   } else if (unit === 'word') {\n   distance = getWordDistance(string)\n   } else if (unit === 'line' || unit === 'block') {\n   distance = string.length\n   } else {\n   distance = 1\n   }\n\n   string = string.slice(distance)\n   }\n\n   // Add or substract the offset.\n   offset = reverse ? offset - distance : offset + distance\n   // Subtract the distance traveled from the available text.\n   available = available - distance!\n   // If the available had room to spare, reset the distance so that it will\n   // advance again next time. Otherwise, set it to the overflow amount.\n   distance = available >= 0 ? null : 0 - available\n }\n\n for (const [node, path] of this.nodes({ at, reverse })) {\n   if (Element.isElement(node)) {\n   // Void nodes are a special case, since we don't want to iterate over\n   // their content. We instead always just yield their first point.\n   if (this.isVoid(node)) {\n   yield this.getStart(path)\n   continue\n   }\n\n   if (this.isInline(node)) {\n   continue\n   }\n\n   if (this.hasInlines(node)) {\n   let e = Path.isAncestor(path, end.path) ? end : this.getEnd(path)\n   let s = Path.isAncestor(path, start.path)\n   ? start\n   : this.getStart(path)\n\n   const text = this.getText({ anchor: s, focus: e })\n   string = reverse ? reverseText(text) : text\n   isNewBlock = true\n   }\n   }\n\n   if (Text.isText(node)) {\n   const isFirst = Path.equals(path, first.path)\n   available = node.text.length\n   offset = reverse ? available : 0\n\n   if (isFirst) {\n   available = reverse ? first.offset : available - first.offset\n   offset = first.offset\n   }\n\n   if (isFirst || isNewBlock || unit === 'offset') {\n   yield { path, offset }\n   }\n\n   while (true) {\n   // If there's no more string, continue to the next block.\n   if (string === '') {\n   break\n   } else {\n   advance()\n   }\n\n   // If the available space hasn't overflow, we have another point to\n   // yield in the current text node.\n   if (available >= 0) {\n   yield { path, offset }\n   } else {\n   break\n   }\n   }\n\n   isNewBlock = false\n   }\n }\n}\n\n/**\n * Iterate through all of the text nodes in the editor.\n */\n\n*texts(\n this: Editor,\n options: {\n   at?: Location | Span\n   reverse?: boolean\n } = {}\n): Iterable<TextEntry> {\n const { at = this.value.selection } = options\n\n if (!at) {\n   return\n }\n\n const [from, to] = getSpan(this, at, options)\n\n yield* Node.texts(this.value, {\n   ...options,\n   from,\n   to,\n   pass: ([n]) => Element.isElement(n) && this.isVoid(n),\n })\n}\n}\n\n/**\n * Get the from and to path span from a location.\n */\n\nconst getSpan = (\n editor: Editor,\n at: Location | Span,\n options: {\n   reverse?: boolean\n } = {}\n): Span => {\n const { reverse = false } = options\n\n if (Span.isSpan(at)) {\n   return at\n }\n\n const first = editor.getPath(at, { edge: 'start' })\n const last = editor.getPath(at, { edge: 'end' })\n const from = reverse ? last : first\n const to = reverse ? first : last\n return [from, to]\n}\n\n/**\n * Check if a node is a match.\n */\n\nconst isMatch = (editor: Editor, entry: NodeEntry, match: Match) => {\n const [node, path] = entry\n\n if (typeof match === 'function') {\n   return match(entry)\n } else if (typeof match === 'number') {\n   return path.length === match\n } else if (match === 'text') {\n   return Text.isText(node)\n } else if (match === 'value') {\n   return Value.isValue(node)\n } else if (match === 'inline') {\n   return (\n   (Element.isElement(node) && editor.isInline(node)) || Text.isText(node)\n   )\n } else if (match === 'block') {\n   return (\n   Element.isElement(node) &&\n   !editor.isInline(node) &&\n   editor.hasInlines(node)\n   )\n } else if (match === 'void') {\n   return Element.isElement(node) && editor.isVoid(node)\n } else if (Path.isPath(match)) {\n   return Path.equals(path, match)\n } else {\n   return Node.matches(node, match)\n }\n}\n\nexport default LocationQueries\n","import { Editor, Path, Range } from '../..'\n\nclass RangeQueries {\n /**\n   * Convert a range into a non-hanging one.\n   */\n\n unhangRange(this: Editor, range: Range): Range {\n   let [start, end] = Range.edges(range)\n\n   // PERF: exit early if we can guarantee that the range isn't hanging.\n   if (start.offset !== 0 || end.offset !== 0 || Range.isCollapsed(range)) {\n   return range\n   }\n\n   const closestBlock = this.getMatch(end.path, 'block')\n   const blockPath = closestBlock ? closestBlock[1] : []\n   const first = this.getStart([])\n   const before = { anchor: first, focus: end }\n   let skip = true\n\n   for (const [node, path] of this.texts({ at: before, reverse: true })) {\n   if (skip) {\n   skip = false\n   continue\n   }\n\n   if (node.text !== '' || Path.isBefore(path, blockPath)) {\n   end = { path, offset: node.text.length }\n   break\n   }\n   }\n\n   return { anchor: start, focus: end }\n }\n}\n\nexport default RangeQueries\n","import { produce } from 'immer'\nimport { Operation, Value } from '..'\nimport {\n DIRTY_PATHS,\n NORMALIZING,\n FLUSHING,\n PATH_REFS,\n POINT_REFS,\n RANGE_REFS,\n}

from './utils'\nimport AnnotationCommands from './commands/annotation'\nimport TextCommands from './commands/text'\nimport NodeCommands from './commands/node'\nimport MarkCommands from './commands/mark'\nimport SelectionCommands from './commands/selection'\nimport GeneralCommands from './commands/general'\nimport ElementQueries from './queries/element'\nimport GeneralQueries from './queries/general'\nimport LocationQueries from './queries/location'\nimport RangeQueries from './queries/range'\n\n/**\n * The `Editor` class stores all the state of a Slate editor. It is extended by\n * plugins that wish to add their own methods that implement new behaviors.\n */\n\nclass Editor {\n onChange: (value: Value, operations: Operation[]) => void\n operations: Operation[]\n value: Value\n\n constructor(\n   props: {\n   onChange?(value: Value, operations: Operation[]): void\n   readOnly?: boolean\n   value?: Value\n   } = {}\n) {\n   const {\n   onChange = () => {},\n   value = produce(\n   { nodes: [], selection: null, annotations: {} },\n   () => {}\n   ),\n   } = props\n\n   this.onChange = onChange\n   this.operations = []\n   this.value = value\n\n   DIRTY_PATHS.set(this, [])\n   FLUSHING.set(this, false)\n   NORMALIZING.set(this, true)\n   PATH_REFS.set(this, new Set())\n   POINT_REFS.set(this, new Set())\n   RANGE_REFS.set(this, new Set())\n }\n}\n\ninterface Editor\n extends AnnotationCommands,\n   TextCommands,\n   NodeCommands,\n   MarkCommands,\n   SelectionCommands,\n   GeneralCommands,\n   ElementQueries,\n   GeneralQueries,\n   LocationQueries,\n   RangeQueries {}\n\nconst mixin = (Mixins: Array<new () => any>) => {\n for (const Mixin of Mixins) {\n   for (const key of Object.getOwnPropertyNames(Mixin.prototype)) {\n   if (key !== 'constructor') {\n   Editor.prototype[key] = Mixin.prototype[key]\n   }\n   }\n }\n}\n\nmixin([\n AnnotationCommands,\n TextCommands,\n NodeCommands,\n MarkCommands,\n SelectionCommands,\n GeneralCommands,\n ElementQueries,\n GeneralQueries,\n LocationQueries,\n RangeQueries,\n])\n\nexport { Editor }\n","import { Operation, Path, Editor } from '..'\nimport { PATH_REFS } from './utils'\n\n/**\n * `PathRef` objects keep a specific path in a document synced over time as new\n * operations are applied to the editor. You can access their `current` property\n * at any time for the up-to-date path value.\n */\n\nclass PathRef {\n current: Path | null\n private affinity: 'forward' | 'backward' | null\n private editor: Editor\n\n constructor(props: {\n   path: Path | null\n   affinity: 'forward' | 'backward' | null\n   editor: Editor\n }) {\n   const { path, affinity, editor } = props\n   this.current = path\n   this.affinity = affinity\n   this.editor = editor\n   const pathRefs = PATH_REFS.get(editor)!\n   pathRefs.add(this)\n }\n\n /**\n   * Transform the path ref's current value by an operation.\n   */\n\n transform(op: Operation): void {\n   const { current, affinity } = this\n\n   if (current == null) {\n   return\n   }\n\n   const path = Path.transform(current, op, { affinity })\n   this.current = path\n\n   if (path == null) {\n   this.unref()\n   }\n }\n\n /**\n   * Unreference the ref, allowing the editor to stop updating its value.\n   */\n\n unref(): Path | null {\n   const { current, editor } = this\n   const pathRefs = PATH_REFS.get(editor)!\n   pathRefs.delete(this)\n   this.current = null\n   return current\n }\n}\n\nexport { PathRef }\n","import { Operation, Point, Editor } from '..'\nimport { POINT_REFS } from './utils'\n\n/**\n * `PointRef` objects keep a specific point in a document synced over time as new\n * operations are applied to the editor. You can access their `current` property\n * at any time for the up-to-date point value.\n */\n\nclass PointRef {\n current: Point | null\n private affinity: 'forward' | 'backward' | null\n private editor: Editor\n\n constructor(props: {\n   point: Point | null\n   affinity: 'forward' | 'backward' | null\n   editor: Editor\n }) {\n   const { point, affinity, editor } = props\n   this.current = point\n   this.affinity = affinity\n   this.editor = editor\n   const pointRefs = POINT_REFS.get(editor)!\n   pointRefs.add(this)\n }\n\n /**\n   * Transform the point ref's current value by an operation.\n   */\n\n transform(op: Operation): void {\n   const { current, affinity } = this\n\n   if (current == null) {\n   return\n   }\n\n   const point = Point.transform(current, op, { affinity })\n   this.current = point\n\n   if (point == null) {\n   this.unref()\n   }\n }\n\n /**\n   * Unreference the ref, allowing the editor to stop updating its value.\n   */\n\n unref(): Point | null {\n   const { current, editor } = this\n   const pointRefs = POINT_REFS.get(editor)!\n   pointRefs.delete(this)\n   this.current = null\n   return current\n }\n}\n\nexport { PointRef }\n","import { Operation, Range, Editor } from '..'\nimport { RANGE_REFS } from './utils'\n\n/**\n * `RangeRef` objects keep a specific range in a document synced over time as new\n * operations are applied to the editor. You can access their `current` property\n * at any time for the up-to-date range value.\n */\n\nclass RangeRef {\n current: Range | null\n private affinity: 'forward' | 'backward' | 'outward' | 'inward' | null\n private editor:

Editor\n\n constructor(props: {\n range: Range | null\n affinity: 'forward' | 'backward' | 'outward' | 'inward' | null\n editor: Editor\n }) {\n const { range, affinity, editor } = props\n this.current = range\n this.affinity = affinity\n this.editor = editor\n const rangeRefs = RANGE_REFS.get(editor)!\n rangeRefs.add(this)\n }\n\n /**\n * Transform the range ref's current value by an operation.\n */\n\n transform(op: Operation): void {\n const { current, affinity } = this\n\n if (current == null) {\n return\n }\n\n const range = Range.transform(current, op, { affinity })\n this.current = range\n\n if (range == null) {\n this.unref()\n }\n }\n\n /**\n * Unreference the ref, allowing the editor to stop updating its value.\n */\n\n unref(): Range | null {\n const { current, editor } = this\n const rangeRefs = RANGE_REFS.get(editor)!\n rangeRefs.delete(this)\n this.current = null\n return current\n }\n}\n\nexport { RangeRef }\n","import isPlainObject from 'is-plain-object'\nimport { Node, Path, Value } from '..'\n\n/**\n * `Element` objects are a type of node in a Slate document that contain other\n * element nodes or text nodes. They can be either \"blocks\" or \"inlines\"\n * depending on the Slate editor's schema.\n */\n\ninterface Element {\n nodes: Node[]\n [key: string]: any\n}\n\n/**\n * `ElementEntry` objects refer to an `Element` and the `Path` where it can be\n * found inside a root node.\n */\n\ntype ElementEntry = [Element, Path]\n\nnamespace Element {\n /**\n * Check if a value implements the `Element` interface.\n */\n\n export const isElement = (value: any): value is Element => {\n return (\n isPlainObject(value) &&\n Node.isNodeList(value.nodes) &&\n !Value.isValue(value)\n)\n }\n\n /**\n * Check if a value is an array of `Element` objects.\n */\n\n export const isElementList = (value: any): value is Element[] => {\n return (\n Array.isArray(value) &&\n (value.length === 0 || Element.isElement(value[0]))\n)\n }\n\n /**\n * Check if an element matches set of properties.\n *\n * Note: the is for checking custom properties, and it does not ensure that\n * any children in the `nodes` property are equal.\n */\n\n export const matches = (\n element: Element,\n props: Partial<Element>\n): boolean => {\n for (const key in props) {\n if (key === 'nodes') {\n continue\n }\n\n if (element[key] !== props[key]) {\n return false\n }\n }\n\n return true\n }\n}\n\nexport { Element, ElementEntry }\n","import isPlainObject from 'is-plain-object'\nimport { Node } from '..'\n\n/**\n * The `Fragment` interface describes a tree of nodes that exist independent of\n * a Slate document.\n */\n\ninterface Fragment {\n nodes: Node[]\n [key: string]: any\n}\n\nnamespace Fragment {\n /**\n * Check if a value implements the `Fragment` interface.\n */\n\n export const isFragment = (value: any): value is Fragment => {\n return isPlainObject(value) && Node.isNodeList(value.nodes)\n }\n}\n\nexport { Fragment }\n","import { Path, Point, Range } from '..'\n\n/**\n * The `Location` interface is a union of the ways to refer to a specific\n * location in a Slate document: paths, points or ranges.\n *\n * Methods will often accept a `Location` instead of requiring only a `Path`,\n * `Point` or `Range`. This eliminates the need for developers to manage\n * converting between the different interfaces in their own code base.\n */\n\ntype Location = Path | Point | Range\n\nnamespace Location {\n /**\n * Check if a value implements the `Location` interface.\n */\n\n export const isLocation = (value: any): value is Location => {\n return Path.isPath(value) || Point.isPoint(value) || Range.isRange(value)\n }\n}\n\ntype Span = [Path, Path]\n\nnamespace Span {\n /**\n * Check if a value implements the `Span` interface.\n */\n\n export const isSpan = (value: any): value is Span => {\n return (\n Array.isArray(value) && value.length === 2 && value.every(Path.isPath)\n)\n }\n}\n\nexport { Location, Span }\n","import isPlainObject from 'is-plain-object'\nimport { Path, Text } from '..'\n\n/**\n * `Mark` objects represent formatting that is applied to text in a Slate\n * document. They appear in leaf text nodes in the document, as well as in\n * annotations on the root value object.\n */\n\ninterface Mark {\n [key: string]: any\n}\n\n/**\n * `MarkEntry` tuples are returned when iterating through the marks in a text\n * node. They include the index of the mark in the text node's marks array, as\n * well as the text node and its path in the root node.\n */\n\ntype MarkEntry = [Mark, number, Text, Path]\n\nnamespace Mark {\n /**\n * Check if a mark exists in a set of marks.\n */\n\n export const exists = (mark: Mark, marks: Mark[]): boolean => {\n return !!marks.find(f => Mark.matches(f, mark))\n }\n\n /**\n * Check if a value implements the `Mark` interface.\n */\n\n export const isMark = (value: any): value is Mark => {\n return isPlainObject(value)\n }\n\n /**\n * Check if a value is an array of `Mark` objects.\n */\n\n export const isMarkSet = (value: any): value is Mark[] => {\n return Array.isArray(value) && (value.length === 0 || Mark.isMark(value[0]))\n }\n\n /**\n * Check if a mark matches set of properties.\n */\n\n export const matches = (mark: Mark, props: Partial<Mark>): boolean =>

{\n for (const key in props) {\n   if (mark[key] !== props[key]) {\n   return false\n   }\n }\n\n return true\n }\n}\n\nexport { Mark, MarkEntry }\n","import { produce } from 'immer'\nimport {\n Element,\n ElementEntry,\n Fragment,\n MarkEntry,\n Path,\n Range,\n Text,\n TextEntry,\n Value,\n} from '..'\n\n/**\n * The `Node` union type represents all of the different types of nodes that\n * occur in a Slate document tree.\n */\n\ntype Node = Value | Element | Text\n\n/**\n * The `Descendant` union type represents nodes that are descendants in the\n * tree. It is returned as a convenience in certain cases to narrow a value\n * further than the more generic `Node` union.\n */\n\ntype Descendant = Element | Text\n\n/**\n * The `Ancestor` union type represents nodes that are ancestors in the tree.\n * It is returned as a convenience in certain cases to narrow a value further\n * than the more generic `Node` union.\n */\n\ntype Ancestor = Value | Element\n\n/**\n * `NodeEntry` objects are returned when iterating over the nodes in a Slate\n * document tree. They consist of the node and its `Path` relative to the root\n * node in the document.\n */\n\ntype NodeEntry = [Node, Path]\n\n/**\n * `DescendantEntry` objects are returned when iterating over the descendants in\n * a Slate document tree.\n */\n\ntype DescendantEntry = [Descendant, Path]\n\n/**\n * `AncestorEntry` objects are returned when iterating over the ancestors in a\n * Slate document tree.\n */\n\ntype AncestorEntry = [Ancestor, Path]\n\nnamespace Node {\n export const matches = (node: Node, props: Partial<Node>): boolean => {\n   return (\n   (Value.isValue(node) && Value.matches(node, props)) ||\n   (Element.isElement(node) && Element.matches(node, props)) ||\n   (Text.isText(node) && Text.matches(node, props))\n   )\n }\n\n /**\n   * Get the node at a specific path, asserting that it's an ancestor node.\n   */\n\n export const ancestor = (root: Node, path: Path): Ancestor => {\n   const node = Node.get(root, path)\n\n   if (Text.isText(node)) {\n   throw new Error(\n   `Cannot get the ancestor node at path [${path}] because it refers to a text node instead: ${node}`\n   )\n   }\n\n   return node\n }\n\n /**\n   * Return an iterable of all the ancestor nodes above a specific path.\n   *\n   * By default the order is bottom-up, from lowest to highest ancestor in\n   * the tree, but you can pass the `reverse: true` option to go top-down.\n   */\n\n export function* ancestors(\n   root: Node,\n   path: Path,\n   options: {\n   reverse?: boolean\n   } = {}\n): Iterable<AncestorEntry> {\n   for (const p of Path.ancestors(path, options)) {\n   const n = Node.ancestor(root, p)\n   const entry: AncestorEntry = [n, p]\n   yield entry\n   }\n }\n\n /**\n   * Get the child of a node at a specific index.\n   */\n\n export const child = (root: Node, index: number): Descendant => {\n   if (Text.isText(root)) {\n   throw new Error(\n   `Cannot get the child of a text node: ${JSON.stringify(root)}`\n   )\n   }\n\n   const c = root.nodes[index] as Descendant\n\n   if (c == null) {\n   throw new Error(\n   `Cannot get child at index \\`${index}\\` in node: ${JSON.stringify(\n          root\n        )}`\n   )\n   }\n\n   return c\n }\n\n /**\n   * Find the closest matching node entry starting from a specific path.\n   */\n\n export const closest = (\n   root: Node,\n   path: Path,\n   predicate: (entry: NodeEntry) => boolean\n): NodeEntry | undefined => {\n   for (const entry of Node.levels(root, path, { reverse: true })) {\n   if (predicate(entry)) {\n   return entry\n   }\n   }\n }\n\n /**\n   * Get an entry for the common ancesetor node of two paths.\n   */\n\n export const common = (root: Node, path: Path, another: Path): NodeEntry => {\n   const p = Path.common(path, another)\n   const n = Node.get(root, p)\n   return [n, p]\n }\n\n /**\n   * Get the node at a specific path, asserting that it's a descendant node.\n   */\n\n export const descendant = (root: Node, path: Path): Descendant => {\n   const node = Node.get(root, path)\n\n   if (Value.isValue(node)) {\n   throw new Error(\n   `Cannot get the descendant node at path [${path}] because it refers to a value node instead: ${node}`\n   )\n   }\n\n   return node\n }\n\n /**\n   * Return an iterable of all the descendant node entries inside a root node.\n   */\n\n export function* descendants(\n   root: Node,\n   options: {\n   from?: Path\n   to?: Path\n   reverse?: boolean\n   pass?: (node: NodeEntry) => boolean\n   } = {}\n): Iterable<DescendantEntry> {\n   for (const [node, path] of Node.nodes(root, options)) {\n   if (path.length !== 0) {\n   // NOTE: we have to coerce here because checking the path's length does\n   // guarantee that `node` is not a `Value`, but TypeScript doesn't know.\n   yield [node, path] as DescendantEntry\n   }\n   }\n }\n\n /**\n   * Return an iterable of all the element nodes inside a root node. Each iteration\n   * will return an `ElementEntry` tuple consisting of `[Element, Path]`. If the\n   * root node is an element it will be included in the iteration as well.\n   */\n\n export function* elements(\n   root: Node,\n   options: {\n   from?: Path\n   to?: Path\n   reverse?: boolean\n   pass?: (node: NodeEntry) => boolean\n   } = {}\n): Iterable<ElementEntry> {\n   for (const [node, path] of Node.nodes(root, options)) {\n   if

(Element.isElement(node)) {\n yield [node, path]\n }\n }\n }\n\n /**\n * Get the first node entry in a root node from a path.\n */\n\n export const first = (root: Node, path: Path): NodeEntry => {\n const p = path.slice()\n let n = Node.get(root, p)\n\n while (n) {\n if (Text.isText(n) || n.nodes.length === 0) {\n break\n } else {\n n = n.nodes[0]\n p.push(0)\n }\n }\n\n return [n, p]\n }\n\n /**\n * Get the sliced fragment represented by a range inside a root node.\n */\n\n export const fragment = (root: Node, range: Range): Fragment => {\n if (Text.isText(root)) {\n throw new Error(\n `Cannot get a fragment starting from a root text node: ${JSON.stringify(\n root\n )}`\n)\n }\n\n return produce(root, r => {\n const [start, end] = Range.edges(range)\n const iterable = Node.nodes(r, {\n reverse: true,\n pass: ([, path]) => !Range.includes(range, path),\n })\n\n for (const [, path] of iterable) {\n if (!Range.includes(range, path)) {\n const parent = Node.parent(r, path)\n const index = path[path.length - 1]\n parent.nodes.splice(index, 1)\n }\n\n if (Path.equals(path, end.path)) {\n const leaf = Node.leaf(r, path)\n leaf.text = leaf.text.slice(0, end.offset)\n }\n\n if (Path.equals(path, start.path)) {\n const leaf = Node.leaf(r, path)\n leaf.text = leaf.text.slice(start.offset)\n }\n }\n\n delete r.annotations\n delete r.selection\n })\n }\n\n /**\n * Find the furthest matching node entry starting from a specific path.\n */\n\n export const furthest = (\n root: Node,\n path: Path,\n predicate: (entry: NodeEntry) => boolean\n): NodeEntry | undefined => {\n for (const entry of Node.levels(root, path)) {\n if (predicate(entry)) {\n return entry\n }\n }\n }\n\n /**\n * Get the descendant node referred to by a specific path. If the path is an\n * empty array, it refers to the root node itself.\n */\n\n export const get = (root: Node, path: Path): Node => {\n let node = root\n\n for (let i = 0; i < path.length; i++) {\n const p = path[i]\n\n if (Text.isText(node) || !node.nodes[p]) {\n throw new Error(\n `Cannot find a descendant at path [${path}] in node: ${JSON.stringify(\n root\n )}`\n)\n }\n\n node = node.nodes[p]\n }\n\n return node\n }\n\n /**\n * Check if a descendant node exists at a specific path.\n */\n\n export const has = (root: Node, path: Path): boolean => {\n let node = root\n\n for (let i = 0; i < path.length; i++) {\n const p = path[i]\n\n if (Text.isText(node) || !node.nodes[p]) {\n return false\n }\n\n node = node.nodes[p]\n }\n\n return true\n }\n\n /**\n * Check if a value implements the `Node` interface.\n */\n\n export const isNode = (value: any): value is Node => {\n return (\n Text.isText(value) || Element.isElement(value) || Value.isValue(value)\n)\n }\n\n /**\n * Check if a value is a list of `Node` objects.\n */\n\n export const isNodeList = (value: any): value is Node[] => {\n return Array.isArray(value) && (value.length === 0 || Node.isNode(value[0]))\n }\n\n /**\n * Get the lash node entry in a root node from a path.\n */\n\n export const last = (root: Node, path: Path): NodeEntry => {\n const p = path.slice()\n let n = Node.get(root, p)\n\n while (n) {\n if (Text.isText(n) || n.nodes.length === 0) {\n break\n } else {\n const i = n.nodes.length - 1\n n = n.nodes[i]\n p.push(i)\n }\n }\n\n return [n, p]\n }\n\n /**\n * Get the node at a specific path, ensuring it's a leaf text node.\n */\n\n export const leaf = (root: Node, path: Path): Text => {\n const node = Node.get(root, path)\n\n if (!Text.isText(node)) {\n throw new Error(\n `Cannot get the leaf node at path [${path}] because it refers to a non-leaf node: ${node}`\n)\n }\n\n return node\n }\n\n /**\n * Return an iterable of the in a branch of the tree, from a specific path.\n *\n * By default the order is bottom-up, from lowest to highest node in the\n * tree, but you can pass the `reverse: true` option to go top-down.\n */\n\n export function* levels(\n root: Node,\n path: Path,\n options: {\n reverse?: boolean\n } = {}\n): Iterable<NodeEntry> {\n for (const p of Path.levels(path, options)) {\n const n = Node.get(root, p)\n yield [n, p]\n }\n }\n\n /**\n * Return an iterable of all the marks in all of the text nodes in a root node.\n */\n\n export function* marks(\n root: Node,\n options: {\n from?: Path\n to?: Path\n reverse?: boolean\n pass?: (node: NodeEntry) => boolean\n } = {}\n): Iterable<MarkEntry> {\n for (const [node, path] of Node.texts(root, options)) {\n for (let i = 0; i < node.marks.length; i++) {\n const mark = node.marks[i]\n yield [mark, i, node, path]\n }\n }\n }\n\n /**\n * Return an iterable of all the node entries of a root node. Each entry is\n * returned as a `[Node, Path]` tuple, with the path referring to the node's\n * position inside the root node.\n */\n\n export function* nodes(\n root: Node,\n options: {\n from?: Path\n to?: Path\n reverse?: boolean\n pass?: (entry: NodeEntry) => boolean\n } = {}\n): Iterable<NodeEntry> {\n const { pass, reverse = false } = options\n const { from = [], to } = options\n const visited = new Set()\n let p: Path = []\n let n = root\n\n while (true) {\n if (to &&

(reverse ? Path.isBefore(p, to) : Path.isAfter(p, to))) {\n break\n }\n\n if (!visited.has(n)) {\n yield [n, p]\n }\n\n // If we're allowed to go downward and we haven't decsended yet, do.\n if (\n !visited.has(n) &&\n !Text.isText(n) &&\n n.nodes.length !== 0 &&\n (pass == null || pass([n, p]) === false)\n) {\n visited.add(n)\n let nextIndex = reverse ? n.nodes.length - 1 : 0\n\n if (Path.isAncestor(p, from)) {\n nextIndex = from[p.length]\n }\n\n p = p.concat(nextIndex)\n n = Node.get(root, p)\n continue\n }\n\n // If we're at the root and we can't go down, we're done.\n if (p.length === 0) {\n break\n }\n\n // If we're going forward...\n if (!reverse) {\n const newPath = Path.next(p)\n\n if (Node.has(root, newPath)) {\n p = newPath\n n = Node.get(root, p)\n continue\n }\n }\n\n // If we're going backward...\n if (reverse && p[p.length - 1] !== 0) {\n const newPath = Path.previous(p)\n p = newPath\n n = Node.get(root, p)\n continue\n }\n\n // Otherwise we're going upward...\n p = Path.parent(p)\n n = Node.get(root, p)\n visited.add(n)\n }\n }\n\n /**\n * Get the parent of a node at a specific path.\n */\n\n export const parent = (root: Node, path: Path): Ancestor => {\n const parentPath = Path.parent(path)\n const parent = Node.get(root, parentPath)\n\n if (Text.isText(parent)) {\n throw new Error(\n `Cannot get the parent of path [${path}] because it does not exist in the root.`\n)\n }\n\n return parent\n }\n\n /**\n * Get the concatenated text string of a node's content.\n *\n * Note that this will not include spaces or line breaks between block nodes.\n * It is not a user-facing string, but a string for performing offset-related\n * computations for a node.\n */\n\n export const text = (node: Node): string => {\n if (Text.isText(node)) {\n return node.text\n } else {\n return node.nodes.map(Node.text).join('')\n }\n }\n\n /**\n * Return an iterable of all leaf text nodes in a root node.\n */\n\n export function* texts(\n root: Node,\n options: {\n from?: Path\n to?: Path\n reverse?: boolean\n pass?: (node: NodeEntry) => boolean\n } = {}\n): Iterable<TextEntry> {\n for (const [node, path] of Node.nodes(root, options)) {\n if (Text.isText(node)) {\n yield [node, path]\n }\n }\n}\n\nexport { Ancestor, AncestorEntry, Descendant, DescendantEntry, Node, NodeEntry }\n","import { Mark, Node, Path, Range, Value } from '..'\nimport isPlainObject from 'is-plain-object'\n\ntype AddAnnotationOperation = {\n type: 'add_annotation'\n key: string\n annotation: Range\n [key: string]: any\n}\n\ntype AddMarkOperation = {\n type: 'add_mark'\n path: Path\n mark: Mark\n [key: string]: any\n}\n\ntype InsertNodeOperation = {\n type: 'insert_node'\n path: Path\n node: Node\n [key: string]: any\n}\n\ntype InsertTextOperation = {\n type: 'insert_text'\n path: Path\n offset: number\n text: string\n [key: string]: any\n}\n\ntype MergeNodeOperation = {\n type: 'merge_node'\n path: Path\n position: number\n target: number | null\n properties: Partial<Node>\n [key: string]: any\n}\n\ntype MoveNodeOperation = {\n type: 'move_node'\n path: Path\n newPath: Path\n [key: string]: any\n}\n\ntype RemoveAnnotationOperation = {\n type: 'remove_annotation'\n key: string\n annotation: Range\n [key: string]: any\n}\n\ntype RemoveMarkOperation = {\n type: 'remove_mark'\n path: Path\n mark: Mark\n [key: string]: any\n}\n\ntype RemoveNodeOperation = {\n type: 'remove_node'\n path: Path\n node: Node\n [key: string]: any\n}\n\ntype RemoveTextOperation = {\n type: 'remove_text'\n path: Path\n offset: number\n text: string\n [key: string]: any\n}\n\ntype SetAnnotationOperation = {\n type: 'set_annotation'\n key: string\n properties: Partial<Range>\n newProperties: Partial<Range>\n [key: string]: any\n}\n\ntype SetMarkOperation = {\n type: 'set_mark'\n path: Path\n properties: Partial<Mark>\n newProperties: Partial<Mark>\n [key: string]: any\n}\n\ntype SetNodeOperation = {\n type: 'set_node'\n path: Path\n properties: Partial<Node>\n newProperties: Partial<Node>\n [key: string]: any\n}\n\ntype SetSelectionOperation =\n | {\n type: 'set_selection'\n [key: string]: any\n properties: null\n newProperties: Range\n }\n | {\n type: 'set_selection'\n [key: string]: any\n properties: Partial<Range>\n newProperties: Partial<Range>\n }\n | {\n type: 'set_selection'\n [key: string]: any\n properties: Range\n newProperties: null\n }\n\ntype SetValueOperation = {\n type: 'set_value'\n properties: Partial<Value>\n newProperties: Partial<Value>\n [key: string]: any\n}\n\ntype SplitNodeOperation = {\n type: 'split_node'\n path: Path\n position: number\n target: number | null\n properties: Partial<Node>\n [key: string]: any\n}\n\n/**\n * `Operation` objects define the low-level instructions that Slate editors use\n * to apply changes to their internal state. Representing all changes as\n * operations is what allows Slate editors to easily implement history,\n * collaboration, and other features.\n */\n\ntype Operation =\n | AnnotationOperation\n | NodeOperation\n | MarkOperation\n | SelectionOperation\n | TextOperation\n |

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ValueOperation\n\ntype AnnotationOperation =\n  | AddAnnotationOperation\n  | RemoveAnnotationOperation\n  | SetAnnotationOperation\n\ntype NodeOperation =\n  | InsertNodeOperation\n  | MergeNodeOperation\n  | MoveNodeOperation\n  | RemoveNodeOperation\n  | SetNodeOperation\n  | SplitNodeOperation\n\ntype MarkOperation = AddMarkOperation | RemoveMarkOperation | SetMarkOperation\n\ntype SelectionOperation = SetSelectionOperation\n\ntype TextOperation = InsertTextOperation | RemoveTextOperation\n\ntype ValueOperation = SetValueOperation\n\nnamespace Operation {\n  /**\n   * Check of a value is an `AnnotationOperation` object.\n   */\n\n  export const isAnnotationOperation = (\n    value: any\n  ): value is AnnotationOperation => {\n    return Operation.isOperation(value) && value.type.endsWith('_annotation')\n  }\n\n  /**\n   * Check of a value is a `NodeOperation` object.\n   */\n\n  export const isNodeOperation = (value: any): value is NodeOperation => {\n    return Operation.isOperation(value) && value.type.endsWith('_node')\n  }\n\n  /**\n   * Check of a value is a `MarkOperation` object.\n   */\n\n  export const isMarkOperation = (value: any): value is MarkOperation => {\n    return Operation.isOperation(value) && value.type.endsWith('_mark')\n  }\n\n  /**\n   * Check of a value is an `Operation` object.\n   */\n\n  export const isOperation = (value: any): value is Operation => {\n    if (!isPlainObject(value)) {\n      return false\n    }\n\n    switch (value.type) {\n      case 'add_mark': {\n        return Path.isPath(value.path) && Mark.isMark(value.mark)\n      }\n\n      case 'add_annotation': {\n        return typeof value.key === 'string' && Range.isRange(value.annotation)\n      }\n\n      case 'insert_node': {\n        return Path.isPath(value.path) && Node.isNode(value.node)\n      }\n\n      case 'insert_text': {\n        return (\n          typeof value.offset === 'number' &&\n          typeof value.text === 'string' &&\n          Path.isPath(value.path)\n        )\n      }\n\n      case 'merge_node': {\n        return (\n          typeof value.position === 'number' &&\n          (typeof value.target === 'number' || value.target === null) &&\n          Path.isPath(value.path) &&\n          isPlainObject(value.properties)\n        )\n      }\n\n      case 'move_node': {\n        return Path.isPath(value.path) && Path.isPath(value.newPath)\n      }\n\n      case 'remove_annotation': {\n        return typeof value.key === 'string' && Range.isRange(value.annotation)\n      }\n\n      case 'remove_mark': {\n        return Path.isPath(value.path) && Mark.isMark(value.mark)\n      }\n\n      case 'remove_node': {\n        return Path.isPath(value.path) && Node.isNode(value.node)\n      }\n\n      case 'remove_text': {\n        return (\n          typeof value.offset === 'number' &&\n          typeof value.text === 'string' &&\n          Path.isPath(value.path)\n        )\n      }\n\n      case 'set_annotation': {\n        return (\n          typeof value.key === 'string' &&\n          isPlainObject(value.properties) &&\n          isPlainObject(value.newProperties)\n        )\n      }\n\n      case 'set_mark': {\n        return (\n          Path.isPath(value.path) &&\n          isPlainObject(value.properties) &&\n          isPlainObject(value.newProperties)\n        )\n      }\n\n      case 'set_node': {\n        return (\n          Path.isPath(value.path) &&\n          isPlainObject(value.properties) &&\n          isPlainObject(value.newProperties)\n        )\n      }\n\n      case 'set_selection': {\n        return (\n          isPlainObject(value.properties) && isPlainObject(value.newProperties)\n        )\n      }\n\n      case 'set_value': {\n        return (\n          isPlainObject(value.properties) && isPlainObject(value.newProperties)\n        )\n      }\n\n      case 'split_node': {\n        return (\n          Path.isPath(value.path) &&\n          typeof value.position === 'number' &&\n          (typeof value.target === 'number' || value.target === null) &&\n          isPlainObject(value.properties)\n        )\n      }\n\n      default: {\n        return false\n      }\n    }\n  }\n\n  /**\n   * Check if a value is a list of `Operation` objects.\n   */\n\n  export const isOperationList = (value: any): value is Operation[] => {\n    return (\n      Array.isArray(value) &&\n      (value.length === 0 || Operation.isOperation(value[0]))\n    )\n  }\n\n  /**\n   * Check of a value is a `SelectionOperation` object.\n   */\n\n  export const isSelectionOperation = (\n    value: any\n  ): value is SelectionOperation => {\n    return Operation.isOperation(value) && value.type.endsWith('_selection')\n  }\n\n  /**\n   * Check of a value is a `TextOperation` object.\n   */\n\n  export const isTextOperation = (value: any): value is TextOperation => {\n    return Operation.isOperation(value) && value.type.endsWith('_text')\n  }\n\n  /**\n   * Check of a value is a `ValueOperation` object.\n   */\n\n  export const isValueOperation = (value: any): value is ValueOperation => {\n    return Operation.isOperation(value) && value.type.endsWith('_value')\n  }\n\n  /**\n   * Invert an operation, returning a new operation that will exactly undo the\n   * original when applied.\n   */\n\n  export const inverse = (op: Operation): Operation => {\n    switch (op.type) {\n      case 'add_annotation': {\n        return { ...op, type: 'remove_annotation' }\n      }\n\n      case 'add_mark': {\n        return { ...op, type: 'remove_mark'
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}\n }\n\n case 'insert_node': {\n return { ...op, type: 'remove_node' }\n }\n\n case 'insert_text': {\n return { ...op, type: 'remove_text' }\n }\n\n case 'merge_node': {\n return { ...op, type: 'split_node', path: Path.previous(op.path) }\n }\n\n case 'move_node': {\n const { newPath, path } = op\n\n // PERF: in this case the move operation is a no-op anyways.\n if (Path.equals(newPath, path)) {\n return op\n }\n\n // We need to get the original path here, but sometimes the `newPath`\n // is a younger sibling of (or ends before) the original, and this\n // accounts for it.\n const inversePath = Path.transform(path, op)!\n const inverseNewPath = Path.transform(Path.next(path), op)!\n return { ...op, path: inversePath, newPath: inverseNewPath }\n }\n\n case 'remove_annotation': {\n return { ...op, type: 'add_annotation' }\n }\n\n case 'remove_mark': {\n return { ...op, type: 'add_mark' }\n }\n\n case 'remove_node': {\n return { ...op, type: 'insert_node' }\n }\n\n case 'remove_text': {\n return { ...op, type: 'insert_text' }\n }\n\n case 'set_annotation':\n case 'set_mark':\n case 'set_node':\n case 'set_value': {\n const { properties, newProperties } = op\n return { ...op, properties: newProperties, newProperties: properties }\n }\n\n case 'set_selection': {\n const { properties, newProperties } = op\n\n if (properties == null) {\n return {\n ...op,\n properties: newProperties as Range,\n newProperties: null,\n }\n } else if (newProperties == null) {\n return {\n ...op,\n properties: null,\n newProperties: properties as Range,\n }\n } else {\n return { ...op, properties: newProperties, newProperties: properties }\n }\n }\n\n case 'split_node': {\n return { ...op, type: 'merge_node', path: Path.next(op.path) }\n }\n }\n}\n\nexport {\n AddMarkOperation,\n AddAnnotationOperation,\n InsertNodeOperation,\n InsertTextOperation,\n MergeNodeOperation,\n MoveNodeOperation,\n RemoveAnnotationOperation,\n RemoveMarkOperation,\n RemoveNodeOperation,\n RemoveTextOperation,\n SetAnnotationOperation,\n SetMarkOperation,\n SetNodeOperation,\n SetSelectionOperation,\n SetValueOperation,\n SplitNodeOperation,\n Operation,\n}\n","import { produce } from 'immer'\nimport { Operation } from '..'\n\n/**\n * `Path` arrays are a list of indexes that describe a node's exact position in\n * a Slate node tree. Although they are usually relative to the root `Value`\n * object, they can be relative to any `Node` object.\n */\n\ntype Path = number[]\n\nnamespace Path {\n /**\n * Get a list of ancestor paths for a given path.\n *\n * The paths are sorted from deepest to shallowest ancestor. However, if the\n * `reverse: true` option is passed, they are reversed.\n */\n\n export const ancestors = (\n path: Path,\n options: { reverse?: boolean } = {}\n): Path[] => {\n const { reverse = false } = options\n let paths = Path.levels(path, options)\n\n if (reverse) {\n paths = paths.slice(1)\n } else {\n paths = paths.slice(0, -1)\n }\n\n return paths\n }\n\n /**\n * Get the common ancestor path of two paths.\n */\n\n export const common = (path: Path, another: Path): Path => {\n const common: Path = []\n\n for (let i = 0; i < path.length && i < another.length; i++) {\n const av = path[i]\n const bv = another[i]\n\n if (av !== bv) {\n break\n }\n\n common.push(av)\n }\n\n return common\n }\n\n /**\n * Compare a path to another, returning an integer indicating whether the path\n * was before, at, or after the other.\n *\n * Note: Two paths of unequal length can still receive a `0` result if one is\n * directly above or below the other. If you want exact matching, use\n * [[Path.equals]] instead.\n */\n\n export const compare = (path: Path, another: Path): -1 | 0 | 1 => {\n const min = Math.min(path.length, another.length)\n\n for (let i = 0; i < min; i++) {\n if (path[i] < another[i]) return -1\n if (path[i] > another[i]) return 1\n }\n\n return 0\n }\n\n /**\n * Check if a path ends after one of the indexes in another.\n */\n\n export const endsAfter = (path: Path, another: Path): boolean => {\n const i = path.length - 1\n const as = path.slice(0, i)\n const bs = another.slice(0, i)\n const av = path[i]\n const bv = another[i]\n return Path.equals(as, bs) && av > bv\n }\n\n /**\n * Check if a path ends at one of the indexes in another.\n */\n\n export const endsAt = (path: Path, another: Path): boolean => {\n const i = path.length\n const as = path.slice(0, i)\n const bs = another.slice(0, i)\n return Path.equals(as, bs)\n }\n\n /**\n * Check if a path ends before one of the indexes in another.\n */\n\n export const endsBefore = (path: Path, another: Path): boolean => {\n const i = path.length - 1\n const as = path.slice(0, i)\n const bs = another.slice(0, i)\n const av = path[i]\n const bv = another[i]\n return Path.equals(as, bs) && av < bv\n }\n\n /**\n * Check if a path is exactly equal to another.\n */\n\n export const equals = (path: Path, another: Path): boolean => {\n return (\n path.length === another.length && path.every((n, i) => n === another[i])\n)\n }\n\n /**\n * Check if a path is after another.\n */\n\n export const isAfter = (path: Path, another: Path): boolean => {\n return

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Path.compare(path, another) === 1\n  }\n\n  /**\n   * Check if a path is an ancestor of another.\n   */\n\n  export
const isAncestor = (path: Path, another: Path): boolean => {\n    return path.length < another.length &&
Path.compare(path, another) === 0\n  }\n\n  /**\n   * Check if a path is before another.\n   */\n\n  export const
isBefore = (path: Path, another: Path): boolean => {\n    return Path.compare(path, another) === -1\n  }\n\n  /**\n   *
Check if a path is a child of another.\n   */\n\n  export const isChild = (path: Path, another: Path): boolean => {\n
return (\n      path.length === another.length + 1 && Path.compare(path, another) === 0\n    )\n  }\n\n  /**\n   *
Check if a path is equal to or an ancestor of another.\n   */\n\n  export const isCommon = (path: Path, another: Path):
boolean => {\n    return path.length <= another.length && Path.compare(path, another) === 0\n  }\n\n  /**\n   *
Check if a path is a descendant of another.\n   */\n\n  export const isDescendant = (path: Path, another: Path):
boolean => {\n    return path.length > another.length && Path.compare(path, another) === 0\n  }\n\n  /**\n   *
Check if a path is the parent of another.\n   */\n\n  export const isParent = (path: Path, another: Path): boolean => {\n
  return (\n      path.length + 1 === another.length && Path.compare(path, another) === 0\n    )\n  }\n\n  /**\n   *
Check is a value implements the `Path` interface.\n   */\n\n  export const isPath = (value: any): value is Path => {\n
return (\n      Array.isArray(value) &&\n      (value.length === 0 || typeof value[0] === 'number')\n    )\n  }\n\n  /**\n
   * Check if a path is a sibling of another.\n   */\n\n  export const isSibling = (path: Path, another: Path): boolean =>
{\n    if (path.length !== another.length) {\n      return false\n    }\n\n    const as = path.slice(0, -1)\n    const bs =
another.slice(0, -1)\n    const al = path[path.length - 1]\n    const bl = another[another.length - 1]\n    return al !== bl
&& Path.equals(as, bs)\n  }\n\n  /**\n   * Get a list of paths at every level down to a path. Note: this is the same\n   *
as `Path.ancestors`, but including the path itself.\n   *\n   * The paths are sorted from deepest to shallowest.
However, if the\n   * `reverse: true` option is passed, they are reversed.\n   */\n\n  export const levels = (\n    path:
Path,\n    options: {\n      reverse?: boolean\n    } = {}\n  ): Path[] => {\n    const { reverse = false } = options\n
const list: Path[] = []\n\n    for (let i = 0; i <= path.length; i++) {\n      list.push(path.slice(0, i))\n    }\n\n    if
(reverse) {\n      list.reverse()\n    }\n\n    return list\n  }\n\n  /**\n   * Given a path, get the path to the next sibling
node.\n   */\n\n  export const next = (path: Path): Path => {\n    if (path.length === 0) {\n      throw new Error(\n
`Cannot get the next path of a root path [${path}], because it has no next index.`\n      )\n    }\n\n    const last =
path[path.length - 1]\n    return path.slice(0, -1).concat(last + 1)\n  }\n\n  /**\n   * Given a path, return a new path
referring to the parent node above it.\n   */\n\n  export const parent = (path: Path): Path => {\n    if (path.length ===
0) {\n      throw new Error(`Cannot get the parent path of the root path [${path}].`)\n    }\n\n    return path.slice(0, -
1)\n  }\n\n  /**\n   * Given a path, get the path to the previous sibling node.\n   */\n\n  export const previous = (path:
Path): Path => {\n    if (path.length === 0) {\n      throw new Error(\n        `Cannot get the previous path of a root
path [${path}], because it has no previous index.`\n      )\n    }\n\n    const last = path[path.length - 1]\n\n    if (last
<= 0) {\n      throw new Error(\n        `Cannot get the previous path of a first child path [${path}] because it would
result in a negative index.`\n      )\n    }\n\n    return path.slice(0, -1).concat(last - 1)\n  }\n\n  /**\n   * Get a path
relative to an ancestor.\n   */\n\n  export const relative = (path: Path, ancestor: Path): Path => {\n    if
(!Path.isAncestor(ancestor, path) && !Path.equals(path, ancestor)) {\n      throw new Error(\n        `Cannot get the
relative path of [${path}] inside ancestor [${ancestor}], because it is not above or equal to the path.`\n      )\n    }\n\n
  return path.slice(ancestor.length)\n  }\n\n  /**\n   * Transform a path by an operation.\n   */\n\n  export const
transform = (\n    path: Path,\n    operation: Operation,\n    options: { affinity?: 'forward' | 'backward' | null } = {}\n
): Path | null => {\n    return produce(path, p => {\n      const { affinity = 'forward' } = options\n\n      // PERF: Exit
early if the operation is guaranteed not to have an effect.\n      if (path.length === 0) {\n        return\n      }\n\n
switch (operation.type) {\n        case 'insert_node': {\n          const { path: op } = operation\n\n          if (\n
Path.equals(op, p) ||\n            Path.endsBefore(op, p) ||\n            Path.isAncestor(op, p)\n          ) {\n
p[op.length - 1] += 1\n          }\n\n          break\n        }\n\n        case 'remove_node': {\n          const { path: op } =
operation\n\n          if (Path.equals(op, p) || Path.isAncestor(op, p)) {\n            return null\n          } else if
(Path.endsBefore(op, p)) {\n            p[op.length - 1] -= 1\n          }\n\n          break\n        }\n\n        case
'merge_node': {\n          const { path: op, position } = operation\n\n          if (Path.equals(op, p) || Path.endsBefore(op,
p)) {\n            p[op.length - 1] -= 1\n          } else if (Path.isAncestor(op, p)) {\n            p[op.length - 1] -= 1\n
p[op.length] += position\n          }\n\n          break\n        }\n\n        case 'split_node': {\n          const { path: op,
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position } = operation\n\n if (Path.equals(op, p)) {\n if (affinity === 'forward') {\n p[p.length - 1] += 1\n } else if (affinity === 'backward') {\n // Nothing, because it still refers to the right path.\n } else {\n return null\n }\n } else if (Path.endsBefore(op, p)) {\n p[op.length - 1] += 1\n } else if (Path.isAncestor(op, p) && path[op.length] >= position) {\n p[op.length - 1] += 1\n p[op.length] -= position\n }\n\n break\n }\n\n case 'move_node': {\n const { path: op, newPath: onp } = operation\n\n // If the old and new path are the same, it's a no-op.\n if (Path.equals(op, onp)) {\n return\n }\n\n if (Path.isAncestor(op, p) || Path.equals(op, p)) {\n let copy = onp.slice()\n\n if (Path.endsBefore(op, onp) && op.length < onp.length) {\n const i = Math.min(onp.length, op.length) - 1\n copy[i] -= 1\n }\n\n return copy.concat(p.slice(op.length))\n } else {\n if (Path.endsBefore(op, p)) {\n p[op.length - 1] -= 1\n }\n\n if (\n Path.endsBefore(onp, p) ||\n Path.equals(onp, p) ||\n Path.isAncestor(onp, p)\n) {\n p[onp.length - 1] += 1\n }\n }\n\n break\n }\n }\n })\n }\n}\n\nexport { Path }\n","import isPlainObject from 'is-plain-object'\nimport { produce } from 'immer'\nimport { Operation, Path } from '..'\n\n/**\n * `Point` objects refer to a specific location in a text node in a Slate\n * document. Its path refers to the location of the node in the tree, and its\n * offset refers to the distance into the node's string of text. Points can\n * only refer to `Text` nodes.\n */\n\ninterface Point {\n path: Path\n offset: number\n [key: string]: any\n}\n\n/**\n * `PointKey` is either an \"anchor\" or \"focus\" point string.\n */\n\ntype PointKey = 'anchor' | 'focus'\n\nnamespace Point {\n /**\n * Compare a point to another, returning an integer indicating whether the\n * point was before, at, or after the other.\n */\n\n export const compare = (point: Point, another: Point): -1 | 0 | 1 => {\n const result = Path.compare(point.path, another.path)\n\n if (result === 0) {\n if (point.offset < another.offset) return -1\n if (point.offset > another.offset) return 1\n return 0\n }\n\n return result\n }\n\n /**\n * Check if a point is after another.\n */\n\n export const isAfter = (point: Point, another: Point): boolean => {\n return Point.compare(point, another) === 1\n }\n\n /**\n * Check if a point is before another.\n */\n\n export const isBefore = (point: Point, another: Point): boolean => {\n return Point.compare(point, another) === -1\n }\n\n /**\n * Check if a point is exactly equal to another.\n */\n\n export const equals = (point: Point, another: Point): boolean => {\n // PERF: We could compare to a result of `0` here, but it's slightly faster\n // to first ensure the offsets are equal and to use `Path.equals`.\n return (\n point.offset === another.offset && Path.equals(point.path, another.path)\n)\n }\n\n /**\n * Check if a value implements the `Point` interface.\n */\n\n export const isPoint = (value: any): value is Point => {\n return (\n isPlainObject(value) &&\n typeof value.offset === 'number' &&\n Path.isPath(value.path)\n)\n }\n\n /**\n * Transform a point by an operation.\n */\n\n export const transform = (\n point: Point,\n op: Operation,\n options: { affinity?: 'forward' | 'backward' | null } = {}\n): Point | null => {\n return produce(point, p => {\n const { affinity = 'forward' } = options\n const { path, offset } = p\n\n switch (op.type) {\n case 'insert_node':\n case 'move_node': {\n p.path = Path.transform(path, op, options)!\n break\n }\n\n case 'insert_text': {\n if (Path.equals(op.path, path) && op.offset <= offset) {\n p.offset += op.text.length\n }\n\n break\n }\n\n case 'merge_node': {\n if (Path.equals(op.path, path)) {\n p.offset += op.position\n }\n\n p.path = Path.transform(path, op, options)!\n break\n }\n\n case 'remove_text': {\n if (Path.equals(op.path, path) && op.offset <= offset) {\n p.offset -= Math.min(offset - op.offset, op.text.length)\n }\n\n break\n }\n\n case 'remove_node': {\n if (Path.equals(op.path, path) || Path.isAncestor(op.path, path)) {\n return null\n }\n\n p.path = Path.transform(path, op, options)!\n break\n }\n\n case 'split_node': {\n if (Path.equals(op.path, path)) {\n if (op.position === offset && affinity == null) {\n return null\n } else if (\n op.position < offset ||\n (op.position === offset && affinity === 'forward')\n) {\n p.offset -= op.position\n p.path = Path.transform(path, op, {\n ...options,\n affinity: 'forward',\n })!\n }\n } else {\n p.path = Path.transform(path, op, options)!\n }\n\n break\n }\n }\n })\n }\n}\n\nexport { Point, PointKey }\n","import { produce } from 'immer'\nimport isPlainObject from 'is-plain-object'\nimport { Operation, Path, Point } from '..'\n\n/**\n * `Range` objects are a set of points that refer to a specific span of a Slate\n * document. They can define a span inside a single node or a can span across\n *

multiple nodes.\n */\n\ninterface Range {\n anchor: Point\n focus: Point\n [key: string]: any\n}\n\nnamespace Range {\n export const start = (range: Range): Point => {\n   const [start] = Range.edges(range)\n   return start\n }\n\n export const end = (range: Range): Point => {\n   const [, end] = Range.edges(range)\n   return end\n }\n\n export const intersection = (range: Range, another: Range): Range | null => {\n   const { anchor, focus, ...rest } = range\n   const [s1, e1] = Range.edges(range)\n   const [s2, e2] = Range.edges(another)\n   const start = Point.isBefore(s1, s2) ? s2 : s1\n   const end = Point.isBefore(e1, e2) ? e1 : e2\n\n   if (Point.isBefore(end, start)) {\n   return null\n   } else {\n   return { anchor: start, focus: end, ...rest }\n   }\n }\n\n /**\n   * Check if a range is exactly equal to another.\n   */\n\n export const equals = (range: Range, another: Range): boolean => {\n   return (\n   Point.equals(range.anchor, another.anchor) &&\n   Point.equals(range.focus, another.focus)\n   )\n }\n\n /**\n   * Check if a range exists in a list or map of ranges.\n   */\n\n export const exists = (\n   range: Range,\n   target: Range[] | Record<string, Range>\n): boolean => {\n   if (Range.isRangeList(target)) {\n   return !!target.find(r => Range.equals(r, range))\n   }\n\n   if (Range.isRangeMap(target)) {\n   for (const key in target) {\n   if (Range.equals(range, target[key])) {\n   return true\n   }\n   }\n   }\n\n   return false\n }\n\n /**\n   * Check if a range includes a path, a point or part of another range.\n   */\n\n export const includes = (\n   range: Range,\n   target: Path | Point | Range\n): boolean => {\n   if (Range.isRange(target)) {\n   if (\n   Range.includes(range, target.anchor) ||\n   Range.includes(range, target.focus)\n   ) {\n   return true\n   }\n\n   const [rs, re] = Range.edges(range)\n   const [ts, te] = Range.edges(target)\n   return Point.isBefore(rs, ts) && Point.isAfter(re, te)\n   }\n\n   const [start, end] = Range.edges(range)\n   let isAfterStart = false\n   let isBeforeEnd = false\n\n   if (Point.isPoint(target)) {\n   isAfterStart = Point.compare(target, start) >= 0\n   isBeforeEnd = Point.compare(target, end) <= 0\n   } else {\n   isAfterStart = Path.compare(target, start.path) >= 0\n   isBeforeEnd = Path.compare(target, end.path) <= 0\n   }\n\n   return isAfterStart && isBeforeEnd\n }\n\n /**\n   * Check if a range is backward, meaning that its anchor point appears in the\n   * document _after_ its focus point.\n   */\n\n export const isBackward = (range: Range): boolean => {\n   const { anchor, focus } = range\n   return Point.isAfter(anchor, focus)\n }\n\n /**\n   * Check if a range is collapsed, meaning that both its anchor and focus\n   * points refer to the exact same position in the document.\n   */\n\n export const isCollapsed = (range: Range): boolean => {\n   const { anchor, focus } = range\n   return Point.equals(anchor, focus)\n }\n\n /**\n   * Check if a range is expanded.\n   *\n   * This is the opposite of [[Range.isCollapsed]] and is provided for legibility.\n   */\n\n export const isExpanded = (range: Range): boolean => {\n   return !isCollapsed(range)\n }\n\n /**\n   * Check if a range is forward.\n   *\n   * This is the opposite of [[Range.isBackward]] and is provided for legibility.\n   */\n\n export const isForward = (range: Range): boolean => {\n   return !isBackward(range)\n }\n\n /**\n   * Check if a value implements the [[Range]] interface.\n   */\n\n export const isRange = (value: any): value is Range => {\n   return (\n   isPlainObject(value) &&\n   Point.isPoint(value.anchor) &&\n   Point.isPoint(value.focus)\n   )\n }\n\n /**\n   * Check if a value is an array of `Range` objects.\n   */\n\n export const isRangeList = (value: any): value is Range[] => {\n   return (\n   Array.isArray(value) && (value.length === 0 || Range.isRange(value[0]))\n   )\n }\n\n /**\n   * Check if a value is a map of `Range` objects.\n   */\n\n export const isRangeMap = (value: any): value is Record<string, Range> => {\n   if (!isPlainObject(value)) {\n   return false\n   }\n\n   for (const key in value) {\n   return Range.isRange(value[key])\n   }\n\n   return true\n }\n\n /**\n   * Get the start and end points of a range, in the order in which they appear\n   * in the document.\n   */\n\n export const edges = (\n   range: Range,\n   options: {\n   reverse?: boolean\n   } = {}\n): [Point, Point] => {\n   const { reverse = false } = options\n   const { anchor, focus } = range\n   return Range.isBackward(range) === reverse\n   ? [anchor, focus]\n   : [focus, anchor]\n }\n\n /**\n   * Transform a range by an operation.\n   */\n\n export const transform = (\n   range: Range,\n   op: Operation,\n   options: { affinity: 'forward' | 'backward' | 'outward' | 'inward' | null }\n): Range | null => {\n   const { affinity = 'inward' } = options\n   let affinityAnchor: 'forward' | 'backward' | null\n   let affinityFocus: 'forward' | 'backward' | null\n\n   if (affinity === 'inward') {\n   if (Range.isForward(range)) {\n   affinityAnchor = 'forward'\n   affinityFocus = 'backward'\n   } else {\n   affinityAnchor = 'backward'\n   affinityFocus = 'forward'\n   }\n   } else if (affinity === 'outward') {\n   if (Range.isForward(range)) {\n   affinityAnchor = 'backward'\n   affinityFocus = 'forward'\n   } else {\n   affinityAnchor = 'forward'\n   affinityFocus = 'backward'\n   }\n   } else {\n   affinityAnchor = affinity\n

affinityFocus = affinity\n }\n\n return produce(range, r => {\n const anchor = Point.transform(r.anchor, op, { affinity: affinityAnchor })\n const focus = Point.transform(r.focus, op, { affinity: affinityFocus })\n\n if (!anchor || !focus) {\n return null\n }\n\n r.anchor = anchor\n r.focus = focus\n })\n }\n}\n\nexport { Range }\n","import isPlainObject from 'is-plain-object'\nimport { Mark, Path } from '..'\n\n/**\n * `Text` objects represent the nodes that contain the actual text content of a\n * Slate document along with any formatting marks. They are always leaf nodes in\n * the document tree as they cannot contain any children.\n */\n\ninterface Text {\n text: string\n marks: Mark[]\n [key: string]: any\n}\n\n/**\n * `TextEntry` objects refer to an `Text` and the `Path` where it can be\n * found inside a root node.\n */\n\ntype TextEntry = [Text, Path]\n\nnamespace Text {\n /**\n * Check if a value implements the `Text` interface.\n */\n\n export const isText = (value: any): value is Text => {\n return (\n isPlainObject(value) &&\n typeof value.text === 'string' &&\n Array.isArray(value.marks)\n)\n }\n\n /**\n * Check if a value is a list of `Text` objects.\n */\n\n export const isTextList = (value: any): value is Text[] => {\n return Array.isArray(value) && (value.length === 0 || Text.isText(value[0]))\n }\n\n /**\n * Check if an text matches set of properties.\n *\n * Note: this is for matching custom properties, and it does not ensure that\n * the `text` property are two nodes equal. However, if `marks` are passed it\n * will ensure that the set of marks is exactly equal.\n */\n\n export const matches = (text: Text, props: Partial<Text>): boolean => {\n for (const key in props) {\n if (key === 'text') {\n continue\n }\n\n if (key === 'marks' && props.marks != null) {\n const existing = text.marks\n const { marks } = props\n\n // PERF: If the lengths aren't the same, we know it's not a match.\n if (existing.length !== marks.length) {\n return false\n }\n\n for (const m of existing) {\n if (!Mark.exists(m, marks)) {\n return false\n }\n }\n\n for (const m of marks) {\n if (!Mark.exists(m, existing)) {\n return false\n }\n }\n\n continue\n }\n\n if (text[key] !== props[key]) {\n return false\n }\n }\n\n return true\n }\n}\n\nexport { Text, TextEntry }\n","import isPlainObject from 'is-plain-object'\nimport { produce } from 'immer'\nimport {\n Element,\n Mark,\n Node,\n Operation,\n Path,\n Point,\n PointKey,\n Range,\n Descendant,\n Text,\n} from '..'\n\n/**\n * `Value` objects hold all of the state in a Slate editor, including all of the\n * nodes in the document and the user's currently selected range of text.\n */\n\ninterface Value extends Element {\n selection: Range | null\n annotations: Record<string, Range>\n [key: string]: any\n}\n\n/**\n * `ValueEntry` objects refer to an `Value` and the `Path` where it can be\n * found inside a root node.\n */\n\ntype ValueEntry = [Value, Path]\n\n/**\n * `AnnotationEntry` objects are returned when iterating over annotations\n * in the top-level value.\n */\n\ntype AnnotationEntry = [Range, string]\n\n/**\n * `AnnotationPointEntry` objects are returned when iterating over `Point`\n * objects that belong to an annotation.\n */\n\ntype AnnotationPointEntry = [Point, PointKey, Range, string]\n\n/**\n * `SelectionPointEntry` objects are returned when iterating over `Point`\n * objects that belong to a selection.\n */\n\ntype SelectionPointEntry = [Point, PointKey, Range]\n\nnamespace Value {\n /**\n * Check if a value implements the `Value` interface.\n */\n\n export const isValue = (value: any): value is Value => {\n return (\n isPlainObject(value) &&\n (value.selection === null || Range.isRange(value.selection)) &&\n Node.isNodeList(value.nodes) &&\n Range.isRangeMap(value.annotations)\n)\n }\n\n /**\n * Check if a value matches a set of properties.\n *\n * Note: the is for checking custom properties, and it does not ensure that\n * any children in the `nodes` property are equal.\n */\n\n export const matches = (value: Value, props: Partial<Value>): boolean => {\n for (const key in props) {\n if (key === 'annotations' || key === 'nodes' || key === 'selection') {\n continue\n }\n\n if (value[key] !== props[key]) {\n return false\n }\n }\n\n return true\n }\n\n /**\n * Iterate through all of the point objects in a value.\n */\n\n export function* points(\n value: Value\n): Iterable<SelectionPointEntry | AnnotationPointEntry> {\n const { selection, annotations } = value\n\n if (selection != null) {\n yield [selection.anchor, 'anchor', selection]\n yield [selection.focus, 'focus', selection]\n }\n\n for (const key in annotations) {\n const annotation = annotations[key]\n yield [annotation.anchor, 'anchor', annotation, key]\n yield [annotation.focus, 'focus', annotation, key]\n }\n }\n\n /**\n * Transform a value by an operation.\n */\n\n export const transform = (value: Value, op: Operation): Value => {\n return produce(value, v => {\n switch (op.type) {\n case 'add_annotation': {\n const { annotation, key } = op\n v.annotations[key] = annotation\n break\n }\n\n case 'add_mark': {\n const { path, mark } = op\n const node = Node.leaf(v, path)\n\n if (!Mark.exists(mark, node.marks))

{\n node.marks.push(mark)\n }\n\n break\n }\n\n case 'insert_node': {\n const { path, node } = op\n const parent = Node.parent(v, path)\n const index = path[path.length - 1]\n parent.nodes.splice(index, 0, node)\n\n for (const [point, key, range] of Value.points(v)) {\n range[key] = Point.transform(point, op)!\n }\n\n break\n }\n\n case 'insert_text': {\n const { path, offset, text } = op\n const node = Node.leaf(v, path)\n const before = node.text.slice(0, offset)\n const after = node.text.slice(offset)\n node.text = before + text + after\n\n for (const [point, key, range] of Value.points(v)) {\n range[key] = Point.transform(point, op)!\n }\n\n break\n }\n\n case 'merge_node': {\n const { path } = op\n const node = Node.get(v, path)\n const prevPath = Path.previous(path)\n const prev = Node.get(v, prevPath)\n const parent = Node.parent(v, path)\n const index = path[path.length - 1]\n\n if (Text.isText(node) && Text.isText(prev)) {\n prev.text += node.text\n } else if (!Text.isText(node) && !Text.isText(prev)) {\n prev.nodes.push(...node.nodes)\n } else {\n throw new Error(\n `Cannot apply a \"merge_node\" operation at path [${path}] to nodes of different interaces: ${node} ${prev}`\n)\n }\n\n parent.nodes.splice(index, 1)\n\n for (const [point, key, range] of Value.points(v)) {\n range[key] = Point.transform(point, op)!\n }\n\n break\n }\n\n case 'move_node': {\n const { path, newPath } = op\n\n if (Path.isAncestor(path, newPath)) {\n throw new Error(\n `Cannot move a path [${path}] to new path [${newPath}] because the destination is inside itself.`\n)\n }\n\n const node = Node.get(v, path)\n const parent = Node.parent(v, path)\n const index = path[path.length - 1]\n\n // This is tricky, but since the `path` and `newPath` both refer to\n // the same snapshot in time, there's a mismatch. After either\n // removing the original position, the second step's path can be out\n // of date. So instead of using the `op.newPath` directly, we\n // transform `op.path` to ascertain what the `newPath` would be after\n // the operation was applied.\n parent.nodes.splice(index, 1)\n const truePath = Path.transform(path, op)!\n const newParent = Node.get(v, Path.parent(truePath))\n const newIndex = truePath[truePath.length - 1]\n\n newParent.nodes.splice(newIndex, 0, node)\n\n for (const [point, key, range] of Value.points(v)) {\n range[key] = Point.transform(point, op)!\n }\n\n break\n }\n\n case 'remove_annotation': {\n const { key } = op\n delete v.annotations[key]\n break\n }\n\n case 'remove_mark': {\n const { path, mark } = op\n const node = Node.leaf(v, path)\n\n for (let i = 0; i < node.marks.length; i++) {\n if (Mark.matches(node.marks[i], mark)) {\n node.marks.splice(i, 1)\n break\n }\n }\n\n break\n }\n\n case 'remove_node': {\n const { path } = op\n const index = path[path.length - 1]\n const parent = Node.parent(v, path)\n const [, prev] = Node.texts(v, { from: path, reverse: true })\n const [, next] = Node.texts(v, { from: path })\n parent.nodes.splice(index, 1)\n\n // Transform all of the points in the value, but if the point was in the\n // node that was removed we need to update the range or remove it.\n for (const [point, k, range, key] of Value.points(v)) {\n const result = Point.transform(point, op)\n\n if (result != null) {\n range[k] = result\n } else if (prev) {\n const [prevNode, prevPath] = prev\n point.path = prevPath\n point.offset = prevNode.text.length\n } else if (next) {\n const [, nextPath] = next\n const newNextPath = Path.transform(nextPath, op)!\n point.path = newNextPath\n point.offset = 0\n } else if (key != null) {\n delete v.annotations[key]\n } else {\n v.selection = null\n }\n }\n\n break\n }\n\n case 'remove_text': {\n const { path, offset, text } = op\n const node = Node.leaf(v, path)\n const before = node.text.slice(0, offset)\n const after = node.text.slice(offset + text.length)\n node.text = before + after\n\n for (const [point, key, range] of Value.points(v)) {\n range[key] = Point.transform(point, op)!\n }\n\n break\n }\n\n case 'set_annotation': {\n const { key, newProperties } = op\n const annotation = v.annotations[key]\n Object.assign(annotation, newProperties)\n break\n }\n\n case 'set_mark': {\n const { path, properties, newProperties } = op\n const node = Node.leaf(v, path)\n\n for (const mark of node.marks) {\n if (Mark.matches(mark, properties)) {\n Object.assign(mark, newProperties)\n break\n }\n }\n\n break\n }\n\n case 'set_node': {\n const { path, newProperties } = op\n const node = Node.get(v, path)\n Object.assign(node, newProperties)\n break\n }\n\n case 'set_selection': {\n const { newProperties } = op\n\n if (newProperties ==

null) {\n v.selection = newProperties\n } else if (v.selection == null) {\n if (!Range.isRange(newProperties)) {\n throw new Error(\n `Cannot apply an incomplete \"set_selection\" operation properties ${JSON.stringify(\n newProperties\n )} when there is no current selection.`\n)\n }\n\n v.selection = newProperties\n } else {\n Object.assign(v.selection, newProperties)\n }\n\n break\n }\n\n case 'set_value': {\n const { newProperties } = op\n Object.assign(v, newProperties)\n break\n }\n\n case 'split_node': {\n const { path, position, properties } = op\n\n if (path.length === 0) {\n throw new Error(\n `Cannot apply a \"split_node\" operation at path [${path}] because the top-level value cannot be split.`\n)\n }\n\n const node = Node.get(v, path)\n const parent = Node.parent(v, path)\n const index = path[path.length - 1]\n let newNode: Descendant\n\n if (Text.isText(node)) {\n const before = node.text.slice(0, position)\n const after = node.text.slice(position)\n node.text = before\n newNode = { ...node, ...(properties as Partial<Text>), text: after }\n } else {\n const before = node.nodes.slice(0, position)\n const after = node.nodes.slice(position)\n node.nodes = before\n newNode = {\n ...node,\n ...(properties as Partial<Element>),\n nodes: after,\n }\n }\n\n parent.nodes.splice(index + 1, 0, newNode)\n\n for (const [point, key, range] of Value.points(v)) {\n range[key] = Point.transform(point, op)!\n }\n\n break\n }\n }\n })\n }\n}\n\nexport {\n Value,\n ValueEntry,\n AnnotationEntry,\n AnnotationPointEntry,\n SelectionPointEntry,\n}\n"],"names":["DIRTY_PATHS","WeakMap","NORMALIZING","FLUSHING","PATH_REFS","POINT_REFS","RANGE_REFS","SPACE","PUNCTUATION","CHAMELEON","SURROGATE_START","SURROGATE_END","isWordCharacter","char","remaining","test","next","charAt","length","getCharacterDistance","slice","rest","text","code","charCodeAt","isSurrogate","getWordDistance","i","started","l","AnnotationCommands","key","annotation","apply","type","annotations","value","Error","props","newProps","prevProps","k","isPoint","Point","equals","Object","keys","properties","newProperties","DeletingCommands","options","withoutNormalizing","reverse","unit","distance","at","selection","hanging","Range","isRange","isCollapsed","anchor","furthestVoid","getMatch","path","voidPath","opts","target","getBefore","getStart","getAfter","getEnd","focus","Path","isPath","removeNodes","unhangRange","edges","start","end","getAncestor","ancestor","isSingleText","startVoid","endVoid","block","before","isAncestor","after","matches","match","n","p","Element","isElement","isVoid","isCommon","pathRefs","Array","from","createPathRef","startRef","createPointRef","endRef","point","current","getLeaf","node","offset","pathRef","unref","isBlockAncestor","Value","isValue","isInline","mergeNodes","select","fragment","isSelection","pointRef","splitNodes","always","insertPath","insertNodes","nodes","afterClosest","beforeClosest","afterPath","beforePath","startPath","texts","NodeCommands","Node","isNode","Text","isText","atMatch","matchPath","isAtEnd","isEnd","parentPath","parent","index","concat","getNode","moveNodes","to","prev","getPrevious","prevNode","prevPath","newPath","commonPath","common","isPreviousSibling","isSibling","emptyAncestor","furthest","isDescendant","emptyRef","position","marks","JSON","stringify","isEmpty","toRef","targets","child","shouldHaveInlines","isLast","depths","height","deleteRange","getPoint","beforeRef","affinity","highest","voidMatch","nudge","voidNode","siblingHeight","afterRef","depth","highestPath","lowestPath","levels","split","isEdge","range","getRange","intersection","liftNodes","element","rangeRef","createRangeRef","roots","rootPath","a","first","last","firstPath","lastPath","wrapperPath","wrapper","editor","MarkCommands","splitLocation","set","mark","Mark","exists","push","existing","getActiveMarks","every","m","removeMarks","addMarks","SelectionCommands","edge","isBackward","setSelection","newPoint","assign","oldProps","GeneralCommands","op","transform","operations","get","ref","pathCache","dirtyPaths","add","join","getDirtyPaths","normalize","Promise","resolve","then","flush","onChange","force","allPaths","max","pop","normalizeNodes","fn","descendants","ancestors","previousPath","previous","oldAncestors","newAncestors","nextPath","ElementQueries","some","GeneralQueries","PathRef","PointRef","RangeRef","undefined","require$$0","LocationQueries","includes","getSpan","elements","pass","union","splice","d","positions","getParent","getPath","ancestorPath","leaf","entry","isMatch","getLast","span","getFirst","t","has","isStart","compare","iterable","string","available","isNewBlock","advance","hasInlines","e","s","getText","reverseText","isFirst","Span","isSpan","RangeQueries","closestBlock","blockPath","skip","isBefore","Editor","produce","Set","mixin","Mixins","Mixin","getOwnPropertyNames","prototype","TextCommands","pointRefs","rangeRefs","isPlainObject","isNodeLi

st","isArray","Fragment","Location","find","f","isMark","root","c","predicate","another","r","visited","isAfter","nextIndex","map","Operation","isOperation","endsWith","inversePath","inverseNewPath","paths","av","bv","min","Math","as","bs","al","bl","list","operation","endsBefore","onp","copy","result","s1","e1","s2","e2","isRangeList","isRangeMap","rs","re","ts","te","isAfterStart","isBeforeEnd","affinityAnchor","affinityFocus","isForward","points","v","truePath","newParent","newIndex","newNextPath","newNode"],"mappings":";;;;;;;;;;AAAA,SAAS,eAAe,CAAC,QAAQ,EAAE,WAAW,EAAE;EAC9C,IAAI,EAAE,QAAQ,YAAY,WAAW,CAAC,EAAE;IACtC,MAAM,IAAI,SAAS,CAAC,mCAAmC,CAAC,CAAC;GAC1D;CACF;;AAED,kBAAc,GAAG,eAAe;;ACYhC;;;AAIA,AAAO,IAAMA,WAAW,GAA4B,IAAIC,OAAJ,EAA7C;AACP,AAAO,IAAMC,WAAW,GAA6B,IAAID,OAAJ,EAA9C;AACP,AAAO,IAAME,QAAQ,GAA6B,IAAIF,OAAJ,EAA3C;AACP,AAAO,IAAMG,SAAS,GAAkC,IAAIH,OAAJ,EAAjD;AACP,AAAO,IAAMI,UAAU,GAAAmC,IAAIJ,OAAJ,EAAAnD;AACP,AAAO,IAAMK,UAAU,GAAAmC,IAAIL,OAAJ,EAAAnD;;;;;AAMP,IAAMM,KAAK,GAAG,IAAAd;AACA,IAAAMC,WAAW,GAAG,oyCAApB;AACA,IAAAMC,SAAS,GAAG,iBAAAlB;AACA,IAAAMC,eAAe,GAAG,MAAAxB;AACA,IAAAMC,aAAa,GAAG,MAAAtB;;;;;;AAOA,AAAO,IAAAMC,eAAe,GAAG,SAAAlBA,eAAAkB,CAAACC,KAAAD,EAAAeC,SAAAf;MACAzBP,KAAAK,CAAACQ,IAAAN,CAAAWF,KAAAX,CAAAJ,EAAAsB;WACAb,KAAAP;;;;;MAKEJ,SAAS,CAAACM,IAAAV,CAAAeF,KAAAf,CAAAJ,EAAA0B;QACApBG,IAAAI,GAAAGF,SAAS,CAAACG,MAAAV,CAAAiB,CAAAjB,CAAAX;QACACMC,MAAAM,GAAAGC,oBAAAoB,CAAACH,IAAAD,CAAAnC;IACACAA,IAAAI,GAAAGF,SAAS,CAAACM,KAAAV,CAAAgB,CAAAhB,EAAAmBF,MAAAnB,CAAAP;QACACMG,IAAAI,GAAAGP,SAAS,CAACM,KAAAV,CAAAgBF,MAAAhB,CAAAb;;QAEIN,eAAe,CAAACI,IAAAD,EAAAOK,IAAAP,CAAAnB,EAAAiC;aACAxB,IAAAP;;;;MAIAb,WAAW,CAACO,IAAAZ,CAAAiBF,KAAAjB,CAAAJ,EAAA4B;WACAnB,KAAAP;;;SAGK,IAAAP;CAtBK;;;;;AA6BP,AAAO,IAAAMM,oBAAAoB,GAAAG,SAAAvBA,oBAAAuB,CAACG,IAAAD;MAC5BC,IAAAI,GAAAGD,IAAAI,CAAACE,UAAAL,CAAAgB,CAAAhB,CAAAb;MACACMC,WAAAW,GAAAGf,eAAAe,IAAAIa,IAAAnB,IAAA2BA,IAAAI,IAAAIZ,aAAAvD;SACAOc,WAAAW,GAAAG,CAAAH,GAAAO,CAAAzB;CAHK;;;;;AAUP,AAAO,IAAAMC,eAAe,GAAG,SAAAlBA,eAAAkB,CAACJ,IAAAD;MACAzBJ,MAAAM,GAAAG,CAAAb;MACACIS,CAAAC,GAAAG,CAAAR;MACACIC,OAAAO,GAAAG,KAAAd;;MACACIf,MAAAJ;;SAEQA,MAAAI,GAAAGS,IAAAI,CAAACL,MAAAL,CAAAYU,CAAAZ,CAAAf,EAAAgC;QACACxBE,CAAAC,GAAAGV,oBAAAoB,CAAACN,MAAAD,CAAA9B;IACACAA,MAAAI,GAAAGS,IAAAI,CAAAACF,KAAAL,CAAAAWO,CAAAAX,EAAAcA,CAAAC,GAAAGE,CAAAAlB,CAAAAP;QACACMR,IAAAI,GAAAGC,IAAAI,CAAAACF,KAAAL,CAAAAWO,CAAAC,GAAAGE,CAAAAf,CAAAAb;;QAEIjB,eAAe,CAAACC,MAAAD,EAAAOQ,IAAAP,CAAAnB,EAAAAiC;MAC/BO,OAAAO,GAAAG,IAAAV;MACACAV,MAAAM,IAAAIW,CAAAV;KAFF,MAGO,IAAAI,CAAACD,OAAAL,EAAAc;MACACnBV,MAAAM,IAAAIW,CAAAV;KADK,MAEA;;;;IAIPF,CAAAC,IAAAIE,CAAAAL;;;SAGKX,MAAAP;CAvBK;;ACnFP,SAAS,iBAAAiB,CAAAC,MAAAM,EAAAE,KAAAK,EAAAE;EACxC,KAAAK,IAAAI,CAAAC,GAAAG,CAAAC,EAAAE,CAAAC,GAAAAG,KAAAK,CAAAC,MAAAM,EAAAE,CAAAC,EAAAE,EAAAE;IACrC,IAAAI,UAAAU,GAAAG,KAAAK,CAAAC,CAAAC,CAAAC,CAAAC,CAAAC,CAAAC;IAC1B,UAAAU,CAAAC,UAAAU,GAAAG,UAAAU,CAAAC,UAAAU,IAAAI,KAAAK,CAAAC;IACvD,UAAAU,CAAAC,YAAAY,GAAAG,IAAAI,CAAAC;IAC/B,IAAAI,OAAAO,IAAAI,UAAAU,EAAAUAU,CAAAC,QAAAQ,GAAAG,IAAAI,CAAAC;IACtD,MAAAM,CAAAC,cAAAc,CAAAC,MAAAM,EAAAUAU,CAAAC,GAAAG,EAAAUAU,CAAAC,CAAAC;GAC3D;CACF;;AAED,SAAS,YAAAY,CAAAC,WAAAW,EAAAUAU,EAAAWAW,EAAAE;EAC1D,IAAAI,UAAAU,EAAAE,iBAAAiB,CAAAC,WAAAW,CAAAC,SAAAS,EAAAEAU,CAAAC,CAAAC;EACrE,IAAAI,WAAAW,EAAAiB,iBAAAiB,CAAAC,WAAAW,EAAAWAW,CAAAC,CAAAC;EAC7D,OAAAO,WAAAW,CAAAC;CACpB;;AAED,cAAc,GAAG,YAAAY;;ICdvBY;;;;;;;;;;;;kCAKwBC,KAAAaC;WAClCC,KAAAL,CAAAAW;QACACTC,IAAAI,EAAAAE,gBADG;QAEETH,GAAAG,EAAAAHA,GAFS;QAGTC,UAAAU,EAAAAVA;OAHF;;;;;;;;qCAW6BD;UACrBI,cAAAgB,KAAAAKC,MAAArBD;;UAEEJ,EAAAAEJ,GAAAG,IAAAAII,WAAAT,CAAAAJ,EAAA2B;cACAcnB,IAAAAIE,KAAAAJ,0CAC8BN,GAAD9B,iCAAN;;;UAKIC,UAAAU,GAAAAGG,WAAAW,CAAAACJ,GAAAAD,CAAAA9B;WAEKE,KAAAAL,CAAAAW;QACACTC,IAAAI,EAAAAE,mBADG;QAEETH,GAAAG,EAAAAH,GAFS;QAGTC,UAAAU,EAAAAVA;OAHF;;;;;;;;kCAW0BD,KAAAAaO;UAC/BH,cAAAgB,KAAAAKC,MAAArBD;;UAEEJ,EAAAAEJ,GAAAG,IAAAAII,WAAAT,CAAAAJ,EAAA2B;cACAcnB,IAAAAIE,KAAAAJ,yDAC8BN,GAAD7C,iCAAN;;;UAKIC,UAAAU,GAAAAGG,WAAAW,CAAAACJ,GAAAAD,CAAAA9B;UACACMQ,QAAAQ,GAAAG,EAAAAjB;UACACMC,SAAAS,GAAAG,EAAAAlB;;WAEK,IAAAAMC,CAAAAX,IAAAAgBH,KAAAAhB,EAAAAuB;YACACfI,OAAAO,GAAAGD,CAAAC,KAAAAK,QAAAAN,IAAAAkBA,CAAAC,KAAAAK,OAAAAxC;;YAGGC,OAAAO,IAAAI,CAAAACC,aAAAAK,CAAAACC,MAAAAN,CAAAAaN,KAAAAK,CAAAACG,CAAAAD,CAAAAlB,EAAAAuBT,UAAAU,CAAAACS,CAAAAD,CAAAAjC,CAAAAb,IAAAACC,CAAAACC,OAAAAD,IAAAAYJ,KAAAAK,CAAAACG,CAAAAD,CAAAAL,KAAAAaT,UAAAU,CAAAACS,CAAAAD,CAAAAFtC,EAAAAGE;UACACAF,QAAAAQ,CAAAACE,CAAAAD,CAAAAR,GAAAAcH,KAAAAK,CAAAACG,CAAAAD,CAAAAnB;UACACAD,SAAAAS,CAAAACC,CAAAAD,CAAAAT,GAAAAeT,UAAAU,CAAAACS,CAAAAD,CAAAAzB;;;UAIAI,MAAAM,CAA

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L,CAAY,EAAZ,CAAd;UACMqH,KAAK,GAAG;QAAE/H,MAAM,EAANA,MAAF;QAAUW,KAAK,EAALA;OAAxB;8BACyBtB,QAAjBI;UAAAA,0CAAW;UACfwN,CAAC,GAAG,CAAR;UACI3M,MAAJ;;;;;;8BAEgB,KAAK4M,SAAL,qBAAoB7N,OAApB;UAA6BK,EAAE,EAAEqI;WAAjD,mIAA2D;cAAhDhG,CAAgD;cAAgD;cACrDkL,CAAC,GAAGxN,QAAR,EAAkB;;;;cAAIdwN,CAAC,KAAK,CAAV,EAAaYACX3M,MAAM,GAAGyB,CAAT;;;UAGFkL,CAAC;;;;;;;;;;;;;;;;aAGI3M,MAAP;;;;;;;;gCASAZ;UACAL,8EAGI;;UAEAuB,YAAI,CAACC,MAAL,CAAYC,IAAZ,CAAiBC,KAAjB,CAAuBC,IAAvB,CAA4BC,KAAK,CAAjC,EAAoCC,KAAK,CAAzC,EAA4CC,KAAK,CAAjD,EAAoDC,KAAK,CAAzD,EAA4DC,KAAK,CAAjE,EAAoEC,KAAK,CAAzE,EAA4EC,KAAK,CAAjF,EAAoFC,KAAK,CAAzF,EAA4FC,KAAK,CAAjG,EAAoGC,KAAK,CAAzG,EAA4GC,KAAK,CAAjH,EAAoHC,KAAK,CAAzH,EAA4HC,KAAK,CAAjI,EAAoIC,KAAK,CAAzI,EAA4IC,KAAK,CAAjJ,EAAoJC,KAAK,CAAzJ,EAA4JC,KAAK,CAAjK,EAAoKC,KAAK,CAAzK,EAA4KC,KAAK,CAAjL,EAAoLC,KAAK,CAAzL,EAA4LC,KAAK,CAAjM,EAAoMC,KAAK,CAAzM,EAA4MC,KAAK,CAAjN,EAAoNC,KAAK,CAAzN,EAA4NC,KAAK,CAAjO,EAAoOC,KAAK,CAAzO,EAA4OC,KAAK,CAAjP,EAAoPC,KAAK,CAAzP,EAA4PC,KAAK,CAAjQ,EAAoQC,KAAK,CAAzQ,EAA4QC,KAAK,CAAjR,EAAoRC,KAAK,CAAzR,EAA4RC,KAAK,CAAjS,EAAoSC,KAAK,CAAzS,EAA4SC,KAAK,CAAjT,EAAoTC,KAAK,CAAzT,EAA4TC,KAAK,CAAjU,EAAoUC,KAAK,CAAzU,EAA4UC,KAAK,CAAjV,EAAoVC,KAAK,CAAzV,EAA4VC,KAAK,CAAjW,EAAoWC,KAAK,CAAzW,EAA4WC,KAAK,CAAjX,EAAoXC,KAAK,CAAzX,EAA4XC,KAAK,CAAjY,EAAoYC,KAAK,CAAzY,EAA4YC,KAAK,CAAjZ,EAAoZC,KAAK,CAAzZ,EAA4ZC,KAAK,CAAja,EAAoaC,KAAK,CAAza,EAA4aC,KAAK,CAAjb,EAAob,KAAK,CAAzb,EAA4bC,KAAK,CAAjc,EAAoc,KAAK,CAAzc,EAA4cC,KAAK,CAAjd,EAAod,KAAK,CAAzd,EAA4dC,KAAK,CAAje,EAAoe,KAAK,CAAze,EAA4eC,KAAK,CAAjf,EAAof,KAAK,CAAzf,EAA4fC,KAAK,CAAjgB,EAAogB,KAAK,CAAzgB,EAA4gBC,KAAK,CAAjhB,EAAohB,KAAK,CAAzhB,EAA4hBC,KAAK,CAAjiB,EAAoiB,KAAK,CAAziB,EAA4iBC,KAAK,CAAjjB,EAAojB,KAAK,CAAzjB,EAA4jBC,KAAK,CAAjkB,EAAokB,KAAK,CAAzkB,EAA4kBC,KAAK,CAAjlB,EAAolB,KAAK,CAAzlB,EAA4lBC,KAAK,CAAjmB,EAAomB,KAAK,CAAzmB,EAA4mBC,KAAK,CAAjnB,EAAonB,KAAK,CAAznB,EAA4nBC,KAAK,CAAjoB,EAAooB,KAAK,CAAzoB,EAA4oBC,KAAK,CAAjpB,EAAopB,KAAK,CAAzpB,EAA4pBC,KAAK,CAAjqB,EAAoqB,KAAK,CAAzqB,EAA4qBC,KAAK,CAAjrB,EAAorB,KAAK,CAAzrB,EAA4rBC,KAAK,CAAjsB,EAAosB,KAAK,CAAzsB,EAA4sBC,KAAK,CAAjtB,EAAotB,KAAK,CAAztB,EAA4tBC,KAAK,CAAjuB,EAAouB,KAAK,CAAzuB,EAA4uBC,KAAK,CAAjvB,EAAovB,KAAK,CAAzvB,EAA4vBC,KAAK,CAAjwB,EAAowB,KAAK,CAAzwB,EAA4wBC,KAAK,CAAjxB,EAAoxB,KAAK,CAAzxB,EAA4xBC,KAAK,CAAjyB,EAAoyB,KAAK,CAAzyB,EAA4yBC,KAAK,CAAjzB,EAAozB,KAAK,CAAzzB,EAA4zBC,KAAK,CAAj0B,EAAo0B,KAAK,CAAz0B,EAA40BC,KAAK,CAAj1B,EAAo1B,KAAK,CAAz1B,EAA41BC,KAAK,CAAj2B,EAAo2B,KAAK,CAAz2B,EAA42BC,KAAK,CAAj3B,EAAo3B,KAAK,CAAz3B,EAA43BC,KAAK,CAAj4B,EAAo4B,KAAK,CAAz4B,EAA44BC,KAAK,CAAj5B,EAAo5B,KAAK,CAAz5B,EAA45BC,KAAK,CAAj6B,EAAo6B,KAAK,CAAz6B,EAA46BC,KAAK,CAAj7B,EAAo7B,KAAK,CAAz7B,EAA47BC,KAAK,CAAj8B,EAAo8B,KAAK,CAAz8B,EAA48BC,KAAK,CAAj9B,EAAo9B,KAAK,CAAz9B,EAA49BC,KAAK,CAAj+B,EAAo+B,KAAK,CAAz+B,EAA4+BC,KAAK,CAAj/B,EAAo/B,KAAK,CAAz/B,EAA4/BC,KAAK,CAAjgC,EAAogC,KAAK,CAAzgC,EAA4gCC,KAAK,CAAjhC,EAAohC,KAAK,CAAzhC,EAA4hCC,KAAK,CAAjiC,EAAoiC,KAAK,CAAziC,EAA4iCC,KAAK,CAAjjC,EAAojC,KAAK,CAAzjC,EAA4jCC,KAAK,CAAjkC,EAAokC,KAAK,CAAzkC,EAA4kCC,KAAK,CAAjlC,EAAolC,KAAK,CAAzlC,EAA4lCC,KAAK,CAAjmC,EAAomC,KAAK,CAAzmC,EAA4mCC,KAAK,CAAjnC,EAAonC,KAAK,CAAznC,EAA4nCC,KAAK,CAAjoC,EAAooC,KAAK,CAAzoC,EAA4oCC,KAAK,CAAjpC,EAAopC,KAAK,CAAzpC,EAA4pCC,KAAK,CAAjqC,EAAoqC,KAAK,CAAzqC,EAA4qCC,KAAK,CAAjrC,EAAorC,KAAK,CAAzrC,EAA4rCC,KAAK,CAAjsC,EAAosC,KAAK,CAAzsC,EAA4sCC,KAAK,CAAjtC,EAAotC,KAAK,CAAztC,EAA4tCC,KAAK,CAAjuC,EAAouC,KAAK,CAAzuC,EAA4uCC,KAAK,CAAjvC,EAAovC,KAAK,CAAzvC,EAA4vCC,KAAK,CAAjwC,EAAowC,KAAK,CAAzwC,EAA4wCC,KAAK,CAAjxC,EAAoxC,KAAK,CAAzxC,EAA4xCC,KAAK,CAAjyC,EAAoyC,KAAK,CAAzyC,EAA4yCC,KAAK,CAAjzC,EAAozC,KAAK,CAAzzC,EAA4zCC,KAAK,CAAj0C,EAAo0C,KAAK,CAAz0C,EAA40CC,KAAK,CAAj1C,EAAo1C,KAAK,CAAz1C,EAA41CC,KAAK,CAAj2C,EAAo2C,KAAK,CAAz2C,EAA42CC,KAAK,CAAj3C,EAAo3C,KAAK,CAAz3C,EAA43CC,KAAK,CAAj4C,EAAo4C,KAAK,CAAz4C,EAA44CC,KAAK,CAAj5C,EAAo5C,KAAK,CAAz5C,EAA45CC,KAAK,CAAj6C,EAAo6C,KAAK,CAAz6C,EAA46CC,KAAK,CAAj7C,EAAo7C,KAAK,CAAz7C,EAA47CC,KAAK,CAAj8C,EAAo8C,KAAK,CAAz8C,EAA48CC,KAAK,CAAj9C,EAAo9C,KAAK,CAAz9C,EAA49CC,KAAK,CAAj+C,EAAo+C,KAAK,CAAz+C,EAA4+CC,KAAK,CAAj/C,EAAo/C,KAAK,CAAz/C,EAA4/CC,KAAK,CAAjgD,EAAogD,KAAK,CAAzgD,EAA4gDC,KAAK,CAAjhD,EAAohD,KAAK,CAAzhD,EAA4hDC,KAAK,CAAjiD,EAAoiD,KAAK,CAAziD,EAA4iDC,KAAK,CAAjjD,EAAojD,KAAK,CAAzjD,EAA4jDC,KAAK,CAAjkD,EAAokD,KAAK,CAAzkD,EAA4kDC,KAAK,CAAjlD,EAAolD,KAAK,CAAzlD,EAA4lDC,KAAK,CAAjmD,EAAomD,KAAK,CAAzmD,EAA4mDC,KAAK,CAAjnD,EAAonD,KAAK,CAAznD,EAA4nDC,KAAK,CAAjoD,EAAooD,KAAK,CAAzoD,EAA4oDC,KAAK,CAAjpD,EAAopD,KAAK,CAAzpD,EAA4pDC,KAAK,CAAjqD,EAAoqD,KAAK,CAAzqD,EAA4qDC,KAAK,CAAjrD,EAAorD,KAAK,CAAzrD,EAA4rDC,KAAK,CAAjsD,EAAosD,KAAK,CAAzsD,EAA4sDC,KAAK,CAAjtD,EAAotD,KAAK,CAAztD,EAA4tDC,KAAK,CAAjuD,EAAouD,KAAK,CAAzuD,EAA4uDC,KAAK,CAAjvD,EAAovD,KAAK,CAAzvD,EAA4vDC,KAAK,CAAjwD,EAAowD,KAAK,CAAzwD,EAA4wDC,KAAK,CAAjxD,EAAoxD,KAAK,CAAzxD,EAA4xDC,KAAK,CAAjyD,EAAoyD,KAAK,CAAzyD,EAA4yDC,KAAK,CAAjzD,EAAozD,KAAK,CAAzzD,EAA4zDC,KAAK,CAAj0D,EAAo0D,KAAK,CAAz0D,EAA40DC,KAAK,CAAj1D,EAAo1D,KAAK,CAAz1D,EAA41DC,KAAK,CAAj2D,EAAo2D,KAAK,CAAz2D,EAA42DC,KAAK,CAAj3D,EAAo3D,KAAK,CAAz3D,EAA43DC,KAAK,CAAj4D,EAAo4D,KAAK,CAAz4D,EAA44DC,K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OG,eAAL;;iBAEI0Q,aAAa,CAACtR,KAAK,CAACW,UAAP,CAAb,IAAmC2Q,aAAa,CAACtR,KAAK,CAACY,
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CtR,KAAK,CAACY,aAAP,CADlD;;;WAKG,YAAL;;iBAEIyB,YAAI,CAACC,MAAL,CAAYtC,KAAK,CAAC4
B,IAAlB,KACA,OAAO5B,KAAK,CAAC4H,QAAb,KAA0B,QAD1B,KAEC,OAAO5H,KAAK,CAAC+B,MAAb,
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E,CAAnoE,EAAsoE,CAAtoE,EAAyoE,CAAzoE,EAA4oE,CAA5oE,EAA+oE,CAA/oE,EAAkpE,CAAlpE,EAAqpE,CAArpE,EAAwpE,CAAxpE,EAA2pE,CAA3pE,EAA8pE,CAA9pE,EAAiqE,CAAjqE,EAAoqE,CAApqE,EAAuqE,CAAvqE,EAA0qE,CAA1qE,EAA6qE,CAA7qE,EAAgrE,CAAhrE,EAAmrE,CAAnrE,EAAsrE,CAAtrE,EAAyrE,CAAzrE,EAA4rE,CAA5rE,EAA+rE,CAA/rE,EAAksE,CAAlsE,EAAqsE,CAArsE,EAAwsE,CAAxsE,EAA2sE,CAA3sE,EAA8sE,CAA9sE,EAAitE,CAAjtE,EAAotE,CAAptE,EAAutE,CAAvtE,EAA0tE,CAA1tE,EAA6tE,CAA7tE,EAAguE,CAAhuE,EAAmuE,CAAnuE,EAAsuE,CAAtuE,EAAyuE,CAAzuE,EAA4uE,CAA5uE,EAA+uE,CAA/uE,EAAkvE,CAAlvE,EAAqvE,CAArvE,EAAwvE,CAAxvE,EAA2vE,CAA3vE,EAA8vE,CAA9vE,EAAiwE,CAAjwE,EAAowE,CAApwE,EAAuwE,CAAvwE,EAA0wE,CAA1wE,EAA6wE,CAA7wE,EAAgxE,CAAhxE,EAAmxE,CAAnxE,EAAsxE,CAAtxE,EAAyxE,CAAzxE,EAA4xE,CAA5xE,EAA+xE,CAA/xE,EAAkyE,CAAlyE,EAAqyE,CAAryE,EAAwyE,CAAxyE,EAA2yE,CAA3yE,EAA8yE,CAA9yE,EAAizE,CAAjzE,EAAozE,CAApzE,EAAuzE,CAAvzE,EAA0zE,CAA1zE,EAA6zE,CAA7zE,EAAg0E,CAAh0E,EAAm0E,CAAn0E,EAAs0E,CAAt0E,EAAy0E,CAAz0E,EAA40E,CAA50E,EAA+0E,CAA/0E,EAAk1E,CAAl1E,EAAq1E,CAAr1E,EAAw1E,CAAx1E,EAA21E,CAA31E,EAA81E,CAA91E,EAAi2E,CAAj2E,EAAo2E,CAAp2E,EAAu2E,CAAv2E,EAA02E,CAA12E,EAA62E,CAA72E,EAAg3E,CAAh3E,EAAm3E,CAAn3E,EAAs3E,CAAt3E,EAAy3E,CAAz3E,EAA43E,CAA53E,EAA+3E,CAA/3E,EAAk4E,CAAl4E,EAAq4E,CAAr4E,EAAw4E,CAAx4E,EAA24E,CAA34E,EAA84E,CAA94E,EAAi5E,CAAj5E,EAAo5E,CAAp5E,EAAu5E,CAAv5E,EAA05E,CAA15E,EAA65E,CAA75E,EAAg6E,CAAh6E,EAAm6E,CAAn6E,EAAs6E,CAAt6E,EAAy6E,CAAz6E,EAA46E,CAA56E,EAA+6E,CAA/6E,EAAk7E,CAAl7E,EAAq7E,CAAr7E,EAAw7E,CAAx7E,EAA27E,CAA37E,EAA87E,CAA97E,EAAi8E,CAAj8E,EAAo8E,CAAp8E,EAAu8E,CAAv8E,EAA08E,CAA18E,EAA68E,CAA78E,EAAg9E,CAAh9E,EAAm9E,CAAn9E,EAAs9E,CAAt9E,EAAy9E,CAAz9E,EAA49E,CAA59E,EAA+9E,CAA/9E,EAAk+E,CAAl+E,EAAq+E,CAAr+E,EAAw+E,CAAx+E,EAA2+E,CAA3+E,EAA8+E,CAA9+E,EAAi/E,CAAj/E,EAAo/E,CAAp/E,EAAu/E,CAAv/E,EAA0/E,CAA1/E,EAA6/E,CAA7/E,EAAggF,CAAhgF,EAAmgF,CAAngF,EAAsgF,CAAtgF,EAAygF,CAAzgF,EAA4gF,CAA5gF,EAA+gF,CAA/gF,EAAkhF,CAAlhF,EAAqhF,CAArhF,EAAwhF,CAAxhF,EAA2hF,CAA3hF,EAA8hF,CAA9hF,EAAiiF,CAAjiF,EAAoiF,CAApiF,EAAuiF,CAAviF,EAA0iF,CAA1iF,EAA6iF,CAA7iF,EAAgjF,CAAhjF,EAAmjF,CAAnjF,EAAsjF,CAAtjF,EAAyjF,CAAzjF,EAA4jF,CAA5jF,EAA+jF,CAA/jF,EAAkkF,CAAlkF,EAAqkF,CAArkF,EAAwkF,CAAxkF,EAA2kF,CAA3kF,EAA8kF,CAA9kF,EAAilF,CAAjlF,EAAolF,CAAplF,EAAulF,CAAvlF,EAA0lF,CAA1lF,EAA6lF,CAA7lF,EAAgmF,CAAhmF,EAAmmF,CAAnmF,EAAsmF,CAAtmF,EAAymF,CAAzmF,EAA4mF,CAA5mF,EAA+mF,CAA/mF,EAAknF,CAAlnF,EAAqnF,CAArnF,EAAwnF,CAAxnF,EAA2nF,CAA3nF,EAA8nF,CAA9nF,EAAioF,CAAjoF,EAAooF,CAApoF,EAAuoF,CAAvoF,EAA0oF,CAA1oF,EAA6oF,CAA7oF,EAAgpF,CAAhpF,EAAmpF,CAAnpF,EAAspF,CAAtpF,EAAypF,CAAzpF,EAA4pF,CAA5pF,EAA+pF,CAA/pF,EAAkqF,CAAlqF,EAAqqF,CAArqF,EAAwqF,CAAxqF,EAA2qF,CAA3qF,EAA8qF,CAA9qF,EAAirF,CAAjrF,EAAorF,CAAprF,EAAurF,CAAvrF,EAA0rF,CAA1rF,EAA6rF,CAA7rF,EAAgsF,CAAhsF,EAAmsF,CAAnsF,EAAssF,CAAtsF,EAAysF,CAAzsF,EAA4sF,CAA5sF,EAA+sF,CAA/sF,EAAktF,CAAltF,EAAqtF,CAArtF,EAAwtF,CAAxtF,EAA2tF,CAA3tF,EAA8tF,CAA9tF,EAAiuF,CAAjuF,EAAouF,CAApuF,EAAuuF,CAAvuF,EAA0uF,CAA1uF,EAA6uF,CAA7uF,EAAgvF,CAAhvF,EAAmvF,CAAnvF,EAAsvF,CAAtvF,EAAyvF,CAAzvF,EAA4vF,CAA5vF,EAA+vF,CAA/vF,EAAkwF,CAAlwF,EAAqwF,CAArwF,EAAwwF,CAAxwF,EAA2wF,CAA3wF,EAA8wF,CAA9wF,EAAixF,CAAjxF,EAAoxF,CAApxF,EAAuxF,CAAvxF,EAA0xF,CAA1xF,EAA6xF,CAA7xF,EAAgyF,CAAhyF,EAAmyF,CAAnyF,EAAsyF,CAAtyF,EAAyyF,CAAzyF,EAA4yF,CAA5yF,EAA+yF,CAA/yF,EAAkzF,CAAlzF,EAAqzF,CAArzF,EAAwzF,CAAxzF,EAA2zF,CAA3zF,EAA8zF,CAA9zF,EAAi0F,CAAj0F,EAAo0F,CAAp0F,EAAu0F,CAAv0F,EAA00F,CAA10F,EAA60F,CAA70F,EAAg1F,CAAh1F,EAAm1F,CAAn1F,EAAs1F,CAAt1F,EAAy1F,CAAz1F,EAA41F,CAA51F,EAA+1F,CAA/1F,EAAk2F,CAAl2F,EAAq2F,CAAr2F,EAAw2F,CAAx2F,EAA22F,CAA32F,EAA82F,CAA92F,EAAi3F,CAAj3F,EAAo3F,CAAp3F,EAAu3F,CAAv3F,EAA03F,CAA13F,EAA63F,CAA73F,EAAg4F,CAAh4F,EAAm4F,CAAn4F,EAAs4F,CAAt4F,EAAy4F,CAAz4F,EAA44F,CAA54F,EAA+4F,CAA/4F,EAAk5F,CAAl5F,EAAq5F,CAAr5F,EAAw5F,CAAx5F,EAA25F,CAA35F,EAA85F,CAA95F,EAAi6F,CAAj6F,EAAo6F,CAAp6F,EAAu6F,CAAv6F,EAA06F,CAA16F,EAA66F,CAA76F,EAAg7F,CAAh7F,EAAm7F,CAAn7F,EAAs7F,CAAt7F,EAAy7F,CAAz7F,EAA47F,CAA57F,EAA+7F,CAA/7F,EAAk8F,CAAl8F,EAAq8F,CAAr8F,EAAw8F,CAAx8F,EAA28F,CAA38F,EAA88F,CAA98F,EAAi9F,CAAj9F,EAAo9F,CAAp9F,EAAu9F,CAAv9F,EAA09F,CAA19F,EAA69F,CAA79F,EAAg+F,CAAh+F,EAAm+F,CAAn+F,EAAs+F,CAAt+F,EAAy+F,CAAz+F,EAA4+F,CAA5+F,EAA++F,CAA/+F,EAAk/F,CAAl/F,EAAq/F,CAAr/F,EAAw/F,CAAx/F,EAA2/F,CAA3/F,EAA8/F,CAA9/F,EAAigG,CAAjgG,EAAogG,CAApgG,EAAugG,CAAvgG,EAA0gG,CAA1gG,EAA6gG,CAA7gG,EAAghG,CAAhhG,EAAmhG,CAAnhG,EAAshG,CAAthG,EAAyhG,CAAzhG,EAA4hG,CAA5hG,EAA+hG,CAA/hG,EAAkiG,CAAliG,EAAqiG,CAAriG,EAAwiG,CAAxiG,EAA2iG,CAA3iG,EAA8iG,CAA9iG,EAAijG,CAAjjG,EAAojG,CAApjG,EAAujG,CAAvjG,EAA0jG,CAA1jG,EAA6jG,CAA7jG,EAAgkG,CAAhkG,EAAmkG,CAAnkG,EAAskG,CAAtkG,EAAykG,CAAzkG,EAA4kG,CAA5kG,EAA+kG,CAA/kG,EAAklG,CAAllG,EAAqlG,CAArlG,EAAwlG,CAAxlG,EAA2lG,CAA3lG,EAA8lG,CAA9lG,EAAimG,CAAjmG,EAAomG,CAApmG,EAAumG,CAAvmG,EAA0mG,CAA1mG,EAA6mG,CAA7mG,EAAgnG,CAAhnG,EAAmnG,CAAnnG,EAAsnG,CAAtnG,EAAynG,CAAznG,EAA4nG,CAA5nG,EAA+nG,CAA/nG,EAAkoG,CAAloG,EAAqoG,CAAroG,EAAwoG,CAAxoG,EAA2oG,CAA3oG,EAA8oG,CAA9oG,EAAipG,CAAjpG,EAAopG,CAAppG,EAAupG,CAAvpG,EAA0pG,CAA1pG,EAA6pG,CAA7pG,EAAgqG,CAAhqG,EAAmqG,CAAnqG,EAAsqG,CAAtqG,EAAyqG,CAAzqG,EAA4qG,CAA5qG,EAA+qG,CAA/qG,EAAkrG,CAAlrG,EAAqrG,CAArrG,EAAwrG,CAAxrG,EAA2rG,CAA3rG,EAA8rG,CAA9rG,EAAisG,CAAjsG,EAAosG,CAApsG,EAAusG,CAAvsG,EAA0sG,CAA1sG,EAA6sG,CAA7sG,EAAgtG,CAAhtG,EAAmtG,CAAntG,EAAstG,CAAttG,EAAytG,CAAztG,EAA4tG,CAA5tG,EAA+tG,CAA/tG,EAAkuG,CAAluG,EAAquG,CAAruG,EAAwuG,CAAxuG,EAA2uG,CAA3uG,EAA8uG,CAA9uG,EAAivG,CAAjvG,EAAovG,CAApvG,EAAuvG,CAAvvG,EAA0vG,CAA1vG,EAA6vG,CAA7vG,EAAgwG,CAAhwG,EAAmwG,CAAnwG,EAAswG,CAAtwG,EAAywG,CAAzwG,EAA4wG,CAA5wG,EAA+wG,CAA/wG,EAAkxG,CAAlxG,EAAqxG,CAArxG,EAAwxG,CAAxxG,EAA2xG,CAA3xG,EAA8xG,CAA9xG,EAAiyG,CAAjyG,EAAoyG,CAApyG,EAAuyG,CAAvyG,EAA0yG,CAA1yG,EAA6yG,CAA7yG,EAAgzG,CAAhzG,EAAmzG,CAAnzG,EAAszG,CAAtzG,EAAyzG,CAAzzG,EAA4zG,CAA5zG,EAA+zG,CAA/zG,EAAk0G,CAAl0G,EAAq0G,CAAr0G,EAAw0G,CAAx0G,EAA20G,CAA30G,EAA80G,CAA90G,EAAi1G,CAAj1G,EAAo1G,CAAp1G,EAAu1G,CAAv1G,EAA01G,CAA11G,EAA61G,CAA71G,EAAg2G,CAAh2G,EAAm2G,CAAn2G,EAAs2G,CAAt2G,EAAy2G,CAAz2G,EAA42G,CAA52G,EAA+2G,CAA/2G,EAAk3G,CAAl3G,EAAq3G,CAAr3G,EAAw3G,CAAx3G,EAA23G,CAA33G,EAA83G,CAA93G,EAAi4G,CAAj4G,EAAo4G,CAAp4G,EAAu4G,CAAv4G,EAA04G,CAA14G,EAA64G,CAA74G,EAAg5G,CAAh5G,EAAm5G,CAAn5G,EAAs5G,CAAt5G,EAAy5G,CAAz5G,EAA45G,CAA55G,EAA+5G,CAA/5G,EAAk6G,CAAl6G,EAAq6G,CAAr6G,EAAw6G,CAAx6G,EAA26G,CAA36G,EAA86G,CAA96G,EAAi7G,CAAj7G,EAAo7G,CAAp7G,EAAu7G,CAAv7G,EAA07G,CAA17G,EAA67G,CAA77G,EAAg8G,CAAh8G,EAAm8G,CAAn8G,EAAs8G,CAAt8G,EAAy8G,CAAz8G,EAA48G,CAA58G,EAA+8G,CAA/8G,EAAk9G,CAAl9G,EAAq9G,CAAr9G,EAAw9G,CAAx9G,EAA29G,CAA39G,EAA89G,CAA99G,EAAi+G,CAAj+G,EAAo+G,CAAp+G,EAAu+G,CAAv+G,

PATH_REFS: WeakMap<Editor, Set<PathRef>> = new WeakMap()\nexport const POINT_REFS: WeakMap<Editor, Set<PointRef>> = new WeakMap()\nexport const RANGE_REFS: WeakMap<Editor, Set<RangeRef>> = new WeakMap()\n\n/**\n * Constants for string distance checking.\n */\n\nconst SPACE = /\\s/\nconst PUNCTUATION = /[\\u0021-\\u0023\\u0025-\\u002A\\u002C-\\u002F\\u003A\\u003B\\u003F\\u0040\\u005B-\\u005D\\u005F\\u007B\\u007D\\u00A1\\u00A7\\u00AB\\u00B6\\u00B7\\u00BB\\u00BF\\u037E\\u0387\\u055A-\\u055F\\u0589\\u058A\\u05BE\\u05C0\\u05C3\\u05C6\\u05F3\\u05F4\\u0609\\u060A\\u060C\\u060D\\u061B\\u061E\\u061F\\u066A-\\u066D\\u06D4\\u0700-\\u070D\\u07F7-\\u07F9\\u0830-\\u083E\\u085E\\u0964\\u0965\\u0970\\u0AF0\\u0DF4\\u0E4F\\u0E5A\\u0E5B\\u0F04-\\u0F12\\u0F14\\u0F3A-\\u0F3D\\u0F85\\u0FD0-\\u0FD4\\u0FD9\\u0FDA\\u104A-\\u104F\\u10FB\\u1360-\\u1368\\u1400\\u166D\\u166E\\u169B\\u169C\\u16EB-\\u16ED\\u1735\\u1736\\u17D4-\\u17D6\\u17D8-\\u17DA\\u1800-\\u180A\\u1944\\u1945\\u1A1E\\u1A1F\\u1AA0-\\u1AA6\\u1AA8-\\u1AAD\\u1B5A-\\u1B60\\u1BFC-\\u1BFF\\u1C3B-\\u1C3F\\u1C7E\\u1C7F\\u1CC0-\\u1CC7\\u1CD3\\u2010-\\u2027\\u2030-\\u2043\\u2045-\\u2051\\u2053-\\u205E\\u207D\\u207E\\u208D\\u208E\\u2329\\u232A\\u2768-\\u2775\\u27C5\\u27C6\\u27E6-\\u27EF\\u2983-\\u2998\\u29D8-\\u29DB\\u29FC\\u29FD\\u2CF9-\\u2CFC\\u2CFE\\u2CFF\\u2D70\\u2E00-\\u2E2E\\u2E30-\\u2E3B\\u3001-\\u3003\\u3008-\\u3011\\u3014-\\u301F\\u3030\\u303D\\u30A0\\u30FB\\uA4FE\\uA4FF\\uA60D-\\uA60F\\uA673\\uA67E\\uA6F2-\\uA6F7\\uA874-\\uA877\\uA8CE\\uA8CF\\uA8F8-\\uA8FA\\uA92E\\uA92F\\uA95F\\uA9C1-\\uA9CD\\uA9DE\\uA9DF\\uAA5C-\\uAA5F\\uAADE\\uAADF\\uAAF0\\uAAF1\\uABEB\\uFD3E\\uFD3F\\uFE10-\\uFE19\\uFE30-\\uFE52\\uFE54-\\uFE61\\uFE63\\uFE68\\uFE6A\\uFE6B\\uFF01-\\uFF03\\uFF05-\\uFF0A\\uFF0C-\\uFF0F\\uFF1A\\uFF1B\\uFF1F\\uFF20\\uFF3B-\\uFF3D\\uFF3F\\uFF5B\\uFF5D\\uFF5F-\\uFF65]/\nconst CHAMELEON = /['\\u2018\\u2019]/\nconst SURROGATE_START = 0xd800\nconst SURROGATE_END = 0xdfff\n\n/**\n * Check if a character is a word character. The `remaining` argument is used\n * because sometimes you must read subsequent characters to truly determine it.\n */\n\nexport const isWordCharacter = (char: string, remaining: string): boolean => {\n if (SPACE.test(char)) {\n   return false\n }\n\n // Chameleons count as word characters as long as they're in a word, so\n // recurse to see if the next one is a word character or not.\n if (CHAMELEON.test(char)) {\n   let next = remaining.charAt(0)\n   const length = getCharacterDistance(next)\n   next = remaining.slice(0, length)\n   const rest = remaining.slice(length)\n\n   if (isWordCharacter(next, rest)) {\n   return true\n   }\n }\n\n if (PUNCTUATION.test(char)) {\n   return false\n }\n\n return true\n}\n\n/**\n * Get the distance to the end of the first character in a string of text.\n */\n\nexport const getCharacterDistance = (text: string): number => {\n const code = text.charCodeAt(0)\n const isSurrogate = SURROGATE_START <= code && code <= SURROGATE_END\n return isSurrogate ? 2 : 1\n}\n\n/**\n * Get the distance to the end of the first word in a string of text.\n */\n\nexport const getWordDistance = (text: string): number => {\n let length = 0\n let i = 0\n let started = false\n let char\n\n while ((char = text.charAt(i))) {\n   const l = getCharacterDistance(char)\n   char = text.slice(i, i + l)\n   const rest = text.slice(i + l)\n\n   if (isWordCharacter(char, rest)) {\n   started = true\n   length += l\n   } else if (!started) {\n   length += l\n   } else {\n   break\n   }\n\n   i += l\n }\n\n return length\n}\n","function _defineProperties(target, props) {\n for (var i = 0; i < props.length; i++) {\n   var descriptor = props[i];\n   descriptor.enumerable = descriptor.enumerable || false;\n   descriptor.configurable = true;\n   if (\"value\" in descriptor) descriptor.writable = true;\n   Object.defineProperty(target, descriptor.key, descriptor);\n }\n}\n\nfunction _createClass(Constructor, protoProps, staticProps) {\n if (protoProps) _defineProperties(Constructor.prototype, protoProps);\n if (staticProps) _defineProperties(Constructor, staticProps);\n return Constructor;\n}\n\nmodule.exports = _createClass;","import { Editor, Point, Range } from '../..'\n\nclass AnnotationCommands {\n /**\n   * Add a new `annotation` object with a `key`.\n   */\n\n addAnnotation(this: Editor, key: string, annotation: Range) {\n   this.apply({\n   type: 'add_annotation',\n   key,\n   annotation,\n   })\n }\n\n /**\n   * Remove an existing annotation object by `key`.\n   */\n\n removeAnnotation(this: Editor, key: string) {\n   const { annotations } = this.value\n\n   if (!(key in annotations)) {\n   throw new Error(\n   `Unable to remove annotation by ${key} because it does not exist.`\n   )\n   }\n\n

const annotation = annotations[key]\n\n this.apply({\n type: 'remove_annotation',\n key,\n annotation,\n })\n }\n\n /**\n * Set new properties on an annotation object with `key`.\n */\n\n setAnnotation(this: Editor, key: string, props: Partial<Range>) {\n const { annotations } = this.value\n\n if (!(key in annotations)) {\n throw new Error(\n `Unable to set new properties on annotation by ${key} because it does not exist.`\n)\n }\n\n const annotation = annotations[key]\n const newProps = {}\n const prevProps = {}\n\n for (const k in props) {\n const isPoint = k === 'anchor' || k === 'focus'\n\n if (\n (isPoint && !Point.equals(props[k], annotation[k])) ||\n (!isPoint && props[k] !== annotation[k])\n) {\n newProps[k] = props[k]\n prevProps[k] = annotation[k]\n }\n }\n\n if (Object.keys(newProps).length > 0) {\n this.apply({\n type: 'set_annotation',\n key,\n properties: prevProps,\n newProperties: newProps,\n })\n }\n}\n\nexport default AnnotationCommands\n","function _arrayWithHoles(arr) {\n if (Array.isArray(arr)) return arr;\n}\n\nmodule.exports = _arrayWithHoles;","function _iterableToArrayLimit(arr, i) {\n if (!(Symbol.iterator in Object(arr) || Object.prototype.toString.call(arr) === \"[object Arguments]\")) {\n return;\n }\n\n var _arr = [];\n var _n = true;\n var _d = false;\n var _e = undefined;\n\n try {\n for (var _i = arr[Symbol.iterator](), _s; !(_n = (_s = _i.next()).done); _n = true) {\n _arr.push(_s.value);\n\n if (i && _arr.length === i) break;\n }\n } catch (err) {\n _d = true;\n _e = err;\n } finally {\n try {\n if (!_n && _i[\"return\"] != null) _i[\"return\"]();\n } finally {\n if (_d) throw _e;\n }\n }\n\n return _arr;\n}\n\nmodule.exports = _iterableToArrayLimit;","function _nonIterableRest() {\n throw new TypeError(\"Invalid attempt to destructure non-iterable instance\");\n}\n\nmodule.exports = _nonIterableRest;","var arrayWithHoles = require(\"./arrayWithHoles\");\n\nvar iterableToArrayLimit = require(\"./iterableToArrayLimit\");\n\nvar nonIterableRest = require(\"./nonIterableRest\");\n\nfunction _slicedToArray(arr, i) {\n return arrayWithHoles(arr) || iterableToArrayLimit(arr, i) || nonIterableRest();\n}\n\nmodule.exports = _slicedToArray;","import {\n Editor,\n Element,\n Fragment,\n Path,\n Location,\n Range,\n Point,\n Value,\n} from '../..'\n\nclass DeletingCommands {\n /**\n * Delete content in the editor.\n */\n\n delete(\n this: Editor,\n options: {\n at?: Location\n distance?: number\n unit?: 'character' | 'word' | 'line' | 'block'\n reverse?: boolean\n hanging?: boolean\n } = {}\n) {\n this.withoutNormalizing(() => {\n const { reverse = false, unit = 'character', distance = 1 } = options\n let { at = this.value.selection, hanging = false } = options\n\n if (!at) {\n return\n }\n\n if (Range.isRange(at) && Range.isCollapsed(at)) {\n at = at.anchor\n }\n\n if (Point.isPoint(at)) {\n const furthestVoid = this.getMatch(at.path, 'void')\n\n if (furthestVoid) {\n const [, voidPath] = furthestVoid\n at = voidPath\n } else {\n const opts = { unit, distance }\n const target = reverse\n ? this.getBefore(at, opts) || this.getStart([])\n : this.getAfter(at, opts) || this.getEnd([])\n at = { anchor: at, focus: target }\n hanging = true\n }\n }\n\n if (Path.isPath(at)) {\n this.removeNodes({ at })\n return\n }\n\n if (Range.isCollapsed(at)) {\n return\n }\n\n if (!hanging) {\n at = this.unhangRange(at)\n }\n\n let [start, end] = Range.edges(at)\n const [ancestor] = this.getAncestor(at)\n const isSingleText = Path.equals(start.path, end.path)\n const startVoid = this.getMatch(start.path, 'void')\n const endVoid = this.getMatch(end.path, 'void')\n\n // If the start or end points are inside an inline void, nudge them out.\n if (startVoid) {\n const block = this.getMatch(start.path, 'block')\n const before = this.getBefore(start)\n\n if (before && block && Path.isAncestor(block[1], before.path)) {\n start = before\n }\n }\n\n if (endVoid) {\n const block = this.getMatch(end.path, 'block')\n const after = this.getAfter(end)\n\n if (after && block && Path.isAncestor(block[1], after.path)) {\n end = after\n }\n }\n\n // Get the highest nodes that are completely inside the range, as well as\n // the start and end nodes.\n const matches = this.matches({\n at,\n match: ([n, p]) =>\n (Element.isElement(n) && this.isVoid(n)) ||\n (!Path.isCommon(p, start.path) && !Path.isCommon(p, end.path)),\n })\n\n const pathRefs = Array.from(matches, ([, p]) => this.createPathRef(p))\n const startRef = this.createPointRef(start)\n const endRef = this.createPointRef(end)\n\n if (!isSingleText && !startVoid) {\n const point = startRef.current!\n const [node] = this.getLeaf(point)\n const { path } = point\n const { offset } = start\n const text = node.text.slice(offset)\n this.apply({ type: 'remove_text', path, offset, text })\n }\n\n for (const pathRef of pathRefs) {\n const path = pathRef.unref()!\n this.removeNodes({ at: path })\n }\n\n if (!endVoid)

{\n const point = endRef.current!\n const [node] = this.getLeaf(point)\n const { path } = point\n const offset = isSingleText ? start.offset : 0\n const text = node.text.slice(offset, end.offset)\n this.apply({ type: 'remove_text', path, offset, text })\n }\n\n const isBlockAncestor =\n Value.isValue(ancestor) ||\n (Element.isElement(ancestor) && !this.isInline(ancestor))\n\n if (\n !isSingleText &&\n isBlockAncestor &&\n endRef.current &&\n startRef.current\n) {\n this.mergeNodes({ at: endRef.current, hanging: true })\n }\n\n const point = endRef.unref() || startRef.unref()\n\n if (options.at == null && point) {\n this.select(point)\n }\n })\n }\n\n /**\n * Insert a fragment at a specific location in the editor.\n */\n\n insertFragment(\n this: Editor,\n fragment: Fragment,\n options: {\n at?: Location\n } = {}\n) {\n this.withoutNormalizing(() => {\n const { selection } = this.value\n let { at } = options\n let isSelection = false\n\n if (!at && selection) {\n at = selection\n isSelection = true\n }\n\n if (Range.isRange(at) && Range.isCollapsed(at)) {\n at = at.anchor\n }\n\n if (Range.isRange(at)) {\n const [, end] = Range.edges(at)\n const pointRef = this.createPointRef(end)\n this.delete({ at })\n at = pointRef.unref()!\n }\n\n if (!Point.isPoint(at) || this.getMatch(at.path, 'void')) {\n return\n }\n\n const pointRef = this.createPointRef(at)\n this.splitNodes({ at, always: true })\n\n if (pointRef.current) {\n const [, insertPath] = this.getMatch(pointRef.current.path, 'block')!\n this.insertNodes(fragment.nodes, { at: insertPath })\n\n const afterClosest = this.getMatch(pointRef.current.path, 'block')\n const beforeClosest = this.getMatch(at.path, 'block')\n\n if (afterClosest && beforeClosest) {\n const [, afterPath] = afterClosest\n const [, beforePath] = beforeClosest\n const startPath = Path.next(beforePath)\n this.mergeNodes({ at: afterPath })\n this.mergeNodes({ at: startPath })\n }\n }\n\n if (isSelection) {\n this.select(pointRef.current!)\n }\n\n pointRef.unref()\n })\n }\n\n /**\n * Insert a string of text in the editor.\n */\n\n insertText(\n this: Editor,\n text: string,\n options: {\n at?: Point | Range\n } = {}\n) {\n this.withoutNormalizing(() => {\n const { selection } = this.value\n let { at } = options\n\n if (!at && selection) {\n at = selection\n }\n\n if (Range.isRange(at)) {\n if (Range.isCollapsed(at)) {\n at = at.anchor\n } else {\n const pointRef = this.createPointRef(Range.end(at))\n this.delete({ at })\n at = pointRef.unref()!\n }\n }\n\n if (Point.isPoint(at) && !this.getMatch(at.path, 'void')) {\n const { path, offset } = at\n this.apply({ type: 'insert_text', path, offset, text })\n }\n })\n }\n\n /**\n * Remove a string of text in the editor.\n */\n\n removeText(\n this: Editor,\n text: string,\n options: {\n at?: Range\n } = {}\n) {\n this.withoutNormalizing(() => {\n let { at = this.value.selection } = options\n\n if (!at || Range.isCollapsed(at)) {\n return\n }\n\n const [start, end] = Range.edges(at)\n const texts = this.texts({ at })\n const pathRefs = Array.from(texts, ([, p]) => this.createPathRef(p))\n\n for (const [node, path] of this.texts({ at })) {\n if (Point.isPoint(at) && !this.getMatch(at.path, 'void')) {\n const { path, offset } = at\n this.apply({ type: 'insert_text', path, offset, text })\n }\n })\n }\n}\n\nexport default DeletingCommands\n","function _defineProperty(obj, key, value) {\n if (key in obj) {\n Object.defineProperty(obj, key, {\n value: value,\n enumerable: true,\n configurable: true,\n writable: true\n });\n } else {\n obj[key] = value;\n }\n\n return obj;\n}\n\nmodule.exports = _defineProperty;","function _objectWithoutPropertiesLoose(source, excluded) {\n if (source == null) return {};\n var target = {};\n var sourceKeys = Object.keys(source);\n var key, i;\n\n for (i = 0; i < sourceKeys.length; i++) {\n key = sourceKeys[i];\n if (excluded.indexOf(key) >= 0) continue;\n target[key] = source[key];\n }\n\n return target;\n}\n\nmodule.exports = _objectWithoutPropertiesLoose;","var objectWithoutPropertiesLoose = require(\"./objectWithoutPropertiesLoose\");\n\nfunction _objectWithoutProperties(source, excluded) {\n if (source == null) return {};\n var target = objectWithoutPropertiesLoose(source, excluded);\n var key, i;\n\n if (Object.getOwnPropertySymbols) {\n var sourceSymbolKeys = Object.getOwnPropertySymbols(source);\n\n for (i = 0; i < sourceSymbolKeys.length; i++) {\n key = sourceSymbolKeys[i];\n if (excluded.indexOf(key) >= 0) continue;\n if (!Object.prototype.propertyIsEnumerable.call(source, key)) continue;\n target[key] = source[key];\n }\n }\n\n return target;\n}\n\nmodule.exports = _objectWithoutProperties;","import {\n Descendant,\n Editor,\n Node,\n NodeEntry,\n Element,\n Location,\n Path,\n Text,\n Range,\n Point,\n} from '../..'\nimport { Match } from '../utils'\n\nclass NodeCommands {\n /**\n * Insert nodes at a specific location in the editor.\n */\n\n insertNodes(\n this: Editor,\n nodes: Node | Node[],\n options: {\n at?: Location\n

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match?: Match\n    } = {}\n  ) {\n    this.withoutNormalizing(() => {\n      const { selection } = this.value\n      let { at, match } = options\n      let select = false\n\n      if (Node.isNode(nodes)) {\n        nodes = [nodes]\n      }\n\n      if (nodes.length === 0) {\n        return\n      }\n\n      const [node] = nodes\n\n      if (match == null) {\n        if (Path.isPath(at)) {\n          match = at.length\n        } else if (Text.isText(node)) {\n          match = 'text'\n        } else if (this.isInline(node)) {\n          match = 'inline'\n        } else {\n          match = 'block'\n        }\n      }\n\n      // By default, use the selection as the target location. But if there is\n      // no selection, insert at the end of the document since that is such a\n      // common use case when inserting from a non-selected state.\n      if (!at) {\n        at = selection || this.getEnd([]) || [this.value.nodes.length]\n        select = true\n      }\n\n      if (Range.isRange(at)) {\n        if (Range.isCollapsed(at)) {\n          at = at.anchor\n        } else {\n          const [, end] = Range.edges(at)\n          const pointRef = this.createPointRef(end)\n          this.delete({ at })\n          at = pointRef.unref()!\n        }\n      }\n\n      if (Point.isPoint(at)) {\n        const atMatch = this.getMatch(at.path, match)\n\n        if (atMatch) {\n          const [, matchPath] = atMatch\n          const pathRef = this.createPathRef(matchPath)\n          const isAtEnd = this.isEnd(at, matchPath)\n          this.splitNodes({ at, match })\n          const path = pathRef.unref()!\n          at = isAtEnd ? Path.next(path) : path\n        } else {\n          return\n        }\n      }\n\n      const parentPath = Path.parent(at)\n      let index = at[at.length - 1]\n\n      if (this.getMatch(parentPath, 'void')) {\n        return\n      }\n\n      for (const node of nodes) {\n        const path = parentPath.concat(index)\n        index++\n        this.apply({ type: 'insert_node', path, node })\n      }\n\n      if (select) {\n        const point = this.getEnd(at)\n\n        if (point) {\n          this.select(point)\n        }\n      }\n    })\n  }\n\n  /**\n   * Lift nodes at a specific location upwards in the document tree, splitting\n   * their parent in two if necessary.\n   */\n\n  liftNodes(\n    this: Editor,\n    options: {\n      at?: Location\n      match?: Match\n    }\n  ) {\n    this.withoutNormalizing(() => {\n      const {\n        at = this.value.selection,\n        match = Path.isPath(at) ? at.length : 'block',\n      } = options\n\n      if (!at) {\n        return\n      }\n\n      const matches = this.matches({ at, match })\n      const pathRefs = Array.from(matches, ([, p]) => this.createPathRef(p))\n\n      for (const pathRef of pathRefs) {\n        const path = pathRef.unref()!\n\n        if (path.length < 2) {\n          throw new Error(\n            `Cannot lift node at a path [${path}] because it has a depth of less than \\`2\\`.`\n          )\n        }\n\n        const [parent, parentPath] = this.getNode(Path.parent(path))\n        const index = path[path.length - 1]\n        const { length } = parent.nodes\n\n        if (length === 1) {\n          this.moveNodes({ at: path, to: Path.next(parentPath) })\n          this.removeNodes({ at: parentPath })\n        } else if (index === 0) {\n          this.moveNodes({ at: path, to: parentPath })\n        } else if (index === length - 1) {\n          this.moveNodes({ at: path, to: Path.next(parentPath) })\n        } else {\n          this.splitNodes({ at: Path.next(path) })\n          this.moveNodes({ at: path, to: Path.next(parentPath) })\n        }\n      }\n    })\n  }\n\n  /**\n   * Merge a node at a location with the previous node of the same depth,\n   * removing any empty containing nodes after the merge if necessary.\n   */\n\n  mergeNodes(\n    this: Editor,\n    options: {\n      at?: Location\n      match?: Match\n      hanging?: boolean\n    } = {}\n  ) {\n    this.withoutNormalizing(() => {\n      let { at = this.value.selection } = options\n      const {\n        match = Path.isPath(at) ? at.length : 'block',\n        hanging = false,\n      } = options\n\n      if (!at) {\n        return\n      }\n\n      if (!hanging && Range.isRange(at)) {\n        at = this.unhangRange(at)\n      }\n\n      if (Range.isRange(at)) {\n        if (Range.isCollapsed(at)) {\n          at = at.anchor\n        } else {\n          const [, end] = Range.edges(at)\n          const pointRef = this.createPointRef(end)\n          this.delete({ at })\n          at = pointRef.unref()!\n\n          if (options.at == null) {\n            this.select(at)\n          }\n        }\n      }\n\n      const current = this.getMatch(at, match)\n      const prev = this.getPrevious(at, match)\n\n      if (!current || !prev) {\n        return\n      }\n\n      const [node, path] = current\n      const [prevNode, prevPath] = prev\n      const newPath = Path.next(prevPath)\n      const commonPath = Path.common(path, prevPath)\n      const isPreviousSibling = Path.isSibling(path, prevPath)\n\n      // Determine if the merge will leave an ancestor of the path empty as a\n      // result, in which case we'll want to remove it after merging.\n      const emptyAncestor = Node.furthest(this.value, path, ([n, p]) => {\n        return (\n          Path.isDescendant(p, commonPath) &&\n          Path.isAncestor(p, path) &&\n          Element.isElement(n) &&\n          n.nodes.length === 1\n        )\n      })\n\n      const emptyRef = emptyAncestor && this.createPathRef(emptyAncestor[1])\n      let properties\n      let position\n\n      // Ensure that the nodes are equivalent, and figure out what the position\n      // and extra properties of the merge will be.\n      if (Text.isText(node) && Text.isText(prevNode)) {\n        const { text, marks, ...rest } = node\n        position =
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prevNode.text.length\n properties = rest as Partial<Text>\n } else if (Element.isElement(node) &&
Element.isElement(prevNode)) {\n const { nodes, ...rest } = node\n position = prevNode.nodes.length\n
properties = rest as Partial<Element>\n } else {\n throw new Error(\n `Cannot merge the node at path
[${path}] with the previous sibling because it is not the same kind: ${JSON.stringify(\n node\n )}
${JSON.stringify(prevNode)}`\n )\n }\n\n // If the node isn't already the next sibling of the previous node,
move\n // it so that it is before merging.\n if (!isPreviousSibling) {\n this.moveNodes({ at: path, to:
newPath })\n }\n\n // If there was going to be an empty ancestor of the node that was merged,\n // we
remove it from the tree.\n if (emptyRef) {\n this.removeNodes({ at: emptyRef.current! })\n }\n\n // If
the target node that we're merging with is empty, remove it instead\n // of merging the two. This is a common
rich text editor behavior to\n // prevent losing formatting when deleting entire nodes when you have a\n //
hanging selection.\n if (\n (Element.isElement(prevNode) && this.isEmpty(prevNode)) ||\n
(Text.isText(prevNode) && prevNode.text === '')\n ) {\n this.removeNodes({ at: prevPath })\n } else {\n
this.apply({\n type: 'merge_node',\n path: newPath,\n position,\n target: null,\n
properties,\n })\n }\n\n if (emptyRef) {\n emptyRef.unref()\n }\n })\n }\n\n /**\n * Move the
nodes at a location to a new location.\n */\n\n moveNodes(\n this: Editor,\n options: {\n at?: Location\n
match?: Match\n to: Path\n }\n ) {\n this.withoutNormalizing(() => {\n const {\n to,\n at =
this.value.selection,\n match = Path.isPath(at) ? at.length : 'block',\n } = options\n\n if (!at) {\n
return\n }\n\n const toRef = this.createPathRef(to)\n const targets = this.matches({ at, match })\n const
pathRefs = Array.from(targets, ([, p]) => this.createPathRef(p))\n\n for (const pathRef of pathRefs) {\n const
path = pathRef.unref()!\n const newPath = toRef.current!\n\n if (path.length !== 0) {\n this.apply({
type: 'move_node', path, newPath })\n }\n }\n\n toRef.unref()\n })\n }\n\n /**\n * Normalize a node
at a path, returning it to a valid state if it is\n * currently invalid.\n */\n\n normalizeNodes(this: Editor, options: {
at: Path }): void {\n const { at } = options\n const [node] = this.getNode(at)\n\n // There are no core
normalizations for text nodes.\n if (Text.isText(node)) {\n return\n }\n\n // Ensure that block and inline
nodes have at least one text child.\n if (Element.isElement(node) && node.nodes.length === 0) {\n const child
= { text: '', marks: [] }\n this.insertNodes(child, { at: at.concat(0) })\n return\n }\n\n // Determine whether
the node should have block or inline children.\n const shouldHaveInlines =\n Element.isElement(node) &&\n
(this.isInline(node) ||\n node.nodes.length === 0 ||\n Text.isText(node.nodes[0]) ||\n
this.isInline(node.nodes[0]))\n\n // Since we'll be applying operations while iterating, keep track of an\n // index
that accounts for any added/removed nodes.\n let n = 0\n\n for (let i = 0; i < node.nodes.length; i++, n++) {\n
const child = node.nodes[i] as Descendant\n const prev = node.nodes[i - 1]\n const isLast = i ===
node.nodes.length - 1\n\n if (Element.isElement(child)) {\n const isInline = this.isInline(child)\n\n //
Only allow block nodes in the top-level value and parent blocks that\n // only contain block nodes. Similarly,
only allow inline nodes in other\n // inline nodes, or parent blocks that only contain inlines and text.\n if
(isInline !== shouldHaveInlines) {\n this.removeNodes({ at: at.concat(n) })\n n--\n continue\n
}\n\n // Ensure that inline nodes are surrounded by text nodes.\n if (isInline) {\n if (prev == null ||
!Text.isText(prev)) {\n const child = { text: '', marks: [] }\n this.insertNodes(child, { at: at.concat(n)
})\n n++\n continue\n }\n\n if (isLast) {\n const child = { text: '', marks: [] }\n
this.insertNodes(child, { at: at.concat(n + 1) })\n n++\n continue\n }\n }\n } else {\n
// Merge adjacent text nodes that are empty or have matching marks.\n if (prev != null && Text.isText(prev))
{\n if (Text.matches(child, prev)) {\n this.mergeNodes({ at: at.concat(n) })\n n--\n
continue\n } else if (prev.text === '') {\n this.removeNodes({ at: at.concat(n - 1) })\n n--\n
continue\n } else if (isLast && child.text === '') {\n this.removeNodes({ at: at.concat(n) })\n n--
\n continue\n }\n }\n }\n }\n\n /**\n * Remove the nodes at a specific location in the
document.\n */\n\n removeNodes(\n this: Editor,\n options: {\n at?: Location\n match?: Match\n
hanging?: boolean\n } = {}\n ) {\n this.withoutNormalizing(() => {\n let { at = this.value.selection } =
options\n const {\n match = Path.isPath(at) ? at.length : 'block',\n hanging = false,\n } = options\n\n
if (!at) {\n return\n }\n\n if (!hanging && Range.isRange(at)) {\n at = this.unhangRange(at)\n
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}\n\n    const depths = this.matches({ at, match })\n    const pathRefs = Array.from(depths, ([, p]) =>
this.createPathRef(p))\n\n    for (const pathRef of pathRefs) {\n      const path = pathRef.unref()!\n      const
[node] = this.getNode(path)\n      this.apply({ type: 'remove_node', path, node })\n    }\n  })\n }\n\n /**\n  * Set
new properties on the nodes ...\n  */\n\n setNodes(\n  this: Editor,\n  props: Partial<Node>,\n  options: {\n
at?: Location\n    match?: Match\n    hanging?: boolean\n  } = {}\n ) {\n  this.withoutNormalizing(() => {\n
let { at = this.value.selection } = options\n    const {\n      match = Path.isPath(at) ? at.length : 'block',\n
hanging = false,\n    } = options\n\n    if (!at) {\n      return\n    }\n\n    if (!hanging && Range.isRange(at)) {\n
      at = this.unhangRange(at)\n    }\n\n    for (const [node, path] of this.matches({ at, match })) {\n      const
properties: Partial<Node> = {}\n      const newProperties: Partial<Node> = {}\n\n      for (const k in props) {\n
 if (\n        k === 'annotations' ||\n        k === 'marks' ||\n        k === 'nodes' ||\n        k === 'selection' ||\n
    k === 'text'\n      ) {\n        continue\n      }\n\n      if (props[k] !== node[k]) {\n        properties[k] =
node[k]\n        newProperties[k] = props[k]\n      }\n    }\n\n    if (Object.keys(newProperties).length !== 0)
{\n      this.apply({\n        type: 'set_node',\n        path,\n        properties,\n        newProperties,\n
})\n    }\n  }\n })\n }\n\n /**\n  * Split the nodes at a specific location.\n  */\n\n splitNodes(\n  this:
Editor,\n  options: {\n    at?: Location\n    match?: Match\n    always?: boolean\n    height?: number\n  } =
{}\n ) {\n  this.withoutNormalizing(() => {\n    let {\n      match,\n      at = this.value.selection,\n      height =
0,\n      always = false,\n    } = options\n\n    if (match == null) {\n      match = Path.isPath(at) ? at.length :
'block'\n    }\n\n    if (Range.isRange(at)) {\n      at = deleteRange(this, at)\n    }\n\n    // If the target is a path,
the default height-skipping and position\n    // counters need to account for us potentially splitting at a non-leaf.\n
 if (Path.isPath(at)) {\n      const point = this.getPoint(at)\n      match = at.length - 1\n      height =
point.path.length - at.length + 1\n      at = point\n      always = true\n    }\n\n    if (!at) {\n      return\n    }\n\n
 const beforeRef = this.createPointRef(at, { affinity: 'backward' })\n    const highest = this.getMatch(at, match)\n\n
  if (!highest) {\n      return\n    }\n\n    const voidMatch = this.getMatch(at, 'void')\n    let nudge = 0\n\n    if
(voidMatch) {\n      const [voidNode, voidPath] = voidMatch\n\n      if (Element.isElement(voidNode) &&
this.isInline(voidNode)) {\n        let after = this.getAfter(voidPath)\n\n        if (!after) {\n          const text = { text:
'', marks: [] }\n          const afterPath = Path.next(voidPath)\n          this.insertNodes(text, { at: afterPath })\n
after = this.getPoint(afterPath)!\n        }\n\n        at = after\n        always = true\n      }\n\n      const
siblingHeight = at.path.length - voidPath.length\n      height = siblingHeight + 1\n      always = true\n    }\n\n
const afterRef = this.createPointRef(at)\n    const depth = at.path.length - height\n    let [, highestPath] = highest\n
  let lowestPath = at.path.slice(0, depth)\n    let position = height === 0 ? at.offset : at.path[depth] + nudge\n    let
target: number | null = null\n\n    for (const [node, path] of this.levels({\n      at: lowestPath,\n      reverse: true,\n
  })) {\n      let split = false\n\n      if (\n        path.length < highestPath.length ||\n        path.length === 0 ||\n
 (Element.isElement(node) && this.isVoid(node))\n      ) {\n        break\n      }\n\n      if (always || !beforeRef ||
!this.isEdge(beforeRef.current!, path)) {\n        const { text, marks, nodes, ...properties } = node\n        this.apply({
type: 'split_node', path, position, target, properties })\n        split = true\n      }\n\n      target = position\n
position = path[path.length - 1] + (split ? 1 : 0)\n    }\n\n    if (options.at == null) {\n      const point =
afterRef.current || this.getEnd([])\n      this.select(point)\n    }\n\n    beforeRef.unref()\n    afterRef.unref()\n
})\n }\n\n /**\n  * Unwrap the nodes at a location from a parent node, splitting the parent if\n  * necessary to
ensure that only the content in the range is unwrapped.\n  */\n\n unwrapNodes(\n  this: Editor,\n  options: {\n
at?: Location\n    match?: Match\n    split?: boolean\n  }\n ) {\n  this.withoutNormalizing(() => {\n    const
{\n      at = this.value.selection,\n      match = Path.isPath(at) ? at.length : 'block',\n      split = false,\n    } =
options\n\n    if (!at) {\n      return\n    }\n\n    const matches = this.matches({ at, match })\n    const pathRefs =
Array.from(matches, ([, p]) => this.createPathRef(p))\n\n    for (const pathRef of pathRefs) {\n      const path =
pathRef.unref()!\n      const depth = path.length + 1\n      let range = this.getRange(path)\n\n      if (split &&
Range.isRange(at)) {\n        range = Range.intersection(at, range)!\n      }\n\n      this.liftNodes({ at: range,
match: depth })\n    }\n  })\n }\n\n /**\n  * Wrap the nodes at a location in a new container node, splitting the
edges\n  * of the range first to ensure that only the content in the range is wrapped.\n  */\n\n wrapNodes(\n  this:
Editor,\n  element: Element,\n  options: {\n    at?: Location\n    match?: Match\n    split?: boolean\n  } = {}\n
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) {\n this.withoutNormalizing(() => {\n const { split = false } = options\n let { match, at = this.value.selection } = options\n\n if (!at) {\n return\n }\n\n if (match == null) {\n if (Path.isPath(at)) {\n match = at.length\n } else if (this.isInline(element)) {\n match = 'inline'\n } else {\n match = 'block'\n }\n }\n\n if (split && Range.isRange(at)) {\n const [start, end] = Range.edges(at)\n const rangeRef = this.createRangeRef(at, { affinity: 'inward' })\n this.splitNodes({ at: end, match })\n this.splitNodes({ at: start, match })\n at = rangeRef.unref()!\n\n if (options.at == null) {\n this.select(at)\n }\n }\n\n const roots: NodeEntry[] = this.isInline(element)\n ? Array.from(this.matches({ ...options, at, match: 'block' }))\n : [[this.value, []]]\n\n for (const [, rootPath] of roots) {\n const a = Range.isRange(at)\n ? Range.intersection(at, this.getRange(rootPath))\n : at\n\n if (!a) {\n continue\n }\n\n const matches = Array.from(this.matches({ ...options, at: a, match }))\n\n if (matches.length > 0) {\n const [first] = matches\n const last = matches[matches.length - 1]\n const [, firstPath] = first\n const [, lastPath] = last\n const commonPath = Path.equals(firstPath, lastPath)\n ? Path.parent(firstPath)\n : Path.common(firstPath, lastPath)\n\n const range = this.getRange(firstPath, lastPath)\n const depth = commonPath.length + 1\n const wrapperPath = Path.next(lastPath).slice(0, depth)\n const wrapper = { ...element, nodes: [] }\n this.insertNodes(wrapper, { at: wrapperPath })\n this.moveNodes({\n at: range,\n match: depth,\n to: wrapperPath.concat(0),\n })\n }\n }\n })\n }\n}\n\n/**\n * Convert a range into a point by deleting it's content.\n */\n\nconst deleteRange = (editor: Editor, range: Range): Point | null => {\n if (Range.isCollapsed(range)) {\n return range.anchor\n } else {\n const [, end] = Range.edges(range)\n const pointRef = editor.createPointRef(end)\n editor.delete({ at: range })\n return pointRef.unref()\n }\n}\n\nexport default NodeCommands\n","import { Editor, Mark, Location, Range } from '../..'\n\nclass MarkCommands {\n /**\n * Add a set of marks to the text nodes at a location.\n */\n\n addMarks(\n this: Editor,\n marks: Mark[],\n options: {\n at?: Location\n hanging?: boolean\n } = {}\n) {\n this.withoutNormalizing(() => {\n const at = splitLocation(this, options)\n\n if (!at) {\n return\n }\n\n // De-dupe the marks being added to ensure the set is unique.\n const set: Mark[] = []\n\n for (const mark of marks) {\n if (!Mark.exists(mark, set)) {\n set.push(mark)\n }\n }\n\n for (const [node, path] of this.texts({ at })) {\n for (const mark of set) {\n if (!Mark.exists(mark, node.marks)) {\n this.apply({ type: 'add_mark', path, mark })\n }\n }\n }\n })\n }\n\n removeMarks(\n this: Editor,\n marks: Mark[],\n options: {\n at?: Location\n hanging?: boolean\n } = {}\n) {\n this.withoutNormalizing(() => {\n const at = splitLocation(this, options)\n\n if (at) {\n for (const [mark, i, node, path] of this.marks({ at })) {\n if (Mark.exists(mark, marks)) {\n this.apply({ type: 'remove_mark', path, mark })\n }\n }\n }\n })\n }\n\n setMarks(\n this: Editor,\n marks: Mark[],\n props: Partial<Mark>,\n options: {\n at?: Location\n hanging?: boolean\n } = {}\n) {\n this.withoutNormalizing(() => {\n const at = splitLocation(this, options)\n\n if (at) {\n for (const [mark, i, node, path] of this.marks({ at })) {\n if (Mark.exists(mark, marks)) {\n const newProps = {}\n\n for (const k in props) {\n if (props[k] !== mark[k]) {\n newProps[k] = props[k]\n }\n }\n\n if (Object.keys(newProps).length > 0) {\n this.apply({\n type: 'set_mark',\n path,\n properties: mark,\n newProperties: newProps,\n })\n }\n }\n }\n }\n })\n }\n\n toggleMarks(\n this: Editor,\n marks: Mark[],\n options: {\n at?: Location\n hanging?: boolean\n } = {}\n) {\n this.withoutNormalizing(() => {\n const existing = this.getActiveMarks(options)\n const exists = marks.every(m => Mark.exists(m, existing))\n\n if (exists) {\n this.removeMarks(marks, options)\n } else {\n this.addMarks(marks, options)\n }\n })\n }\n}\n\n/**\n * Split the text nodes at a range's edges to prepare for adding/removing marks.\n */\n\nconst splitLocation = (\n editor: Editor,\n options: {\n at?: Location\n hanging?: boolean\n } = {}\n): Location | undefined => {\n let { at = editor.value.selection, hanging = false } = options\n\n if (!at) {\n return\n }\n\n if (Range.isRange(at)) {\n if (!hanging) {\n at = editor.unhangRange(at)\n }\n\n const rangeRef = editor.createRangeRef(at, { affinity: 'inward' })\n const [start, end] = Range.edges(at)\n editor.splitNodes({ at: end, match: 'text' })\n editor.splitNodes({ at: start, match: 'text' })\n const range = rangeRef.unref()!\n\n if (options.at == null) {\n editor.select(range)\n }\n\n return

range\n }\n\n return at\n}\n\nexport default MarkCommands\n","import { Editor, Location, Point, Range, Path } from '../..'\n\nclass SelectionCommands {\n /**\n   * Collapse the selection.\n   */\n\n collapse(\n   this: Editor,\n   options: {\n   edge?: 'anchor' | 'focus' | 'start' | 'end'\n   } = {}\n) {\n   const { edge = 'anchor' } = options\n   const { selection } = this.value\n\n   if (!selection) {\n   return\n   } else if (edge === 'anchor') {\n   this.select(selection.anchor)\n   } else if (edge === 'focus') {\n   this.select(selection.focus)\n   } else if (edge === 'start') {\n   const [start] = Range.edges(selection)\n   this.select(start)\n   } else if (edge === 'end') {\n   const [, end] = Range.edges(selection)\n   this.select(end)\n   }\n }\n\n /**\n   * Unset the selection.\n   */\n\n deselect(this: Editor) {\n   const { selection } = this.value\n\n   if (selection) {\n   this.apply({\n   type: 'set_selection',\n   properties: selection,\n   newProperties: null,\n   })\n   }\n }\n\n /**\n   * Move the selection's point forward or backward.\n   */\n\n move(\n   this: Editor,\n   options: {\n   distance?: number\n   unit?: 'offset' | 'character' | 'word' | 'line'\n   reverse?: boolean\n   edge?: 'anchor' | 'focus' | 'start' | 'end'\n   } = {}\n) {\n   const { selection } = this.value\n   const { distance = 1, unit = 'character', reverse = false } = options\n   let { edge = null } = options\n\n   if (!selection) {\n   return\n   }\n\n   if (edge === 'start') {\n   edge = Range.isBackward(selection) ? 'focus' : 'anchor'\n   }\n\n   if (edge === 'end') {\n   edge = Range.isBackward(selection) ? 'anchor' : 'focus'\n   }\n\n   const { anchor, focus } = selection\n   const opts = { distance, unit }\n   const props: Partial<Range> = {}\n\n   if (edge == null || edge === 'anchor') {\n   const point = reverse\n   ? this.getBefore(anchor, opts)\n   : this.getAfter(anchor, opts)\n\n   if (point) {\n   props.anchor = point\n   }\n   }\n\n   if (edge == null || edge === 'focus') {\n   const point = reverse\n   ? this.getBefore(focus, opts)\n   : this.getAfter(focus, opts)\n\n   if (point) {\n   props.focus = point\n   }\n   }\n\n   this.setSelection(props)\n }\n\n /**\n   * Set the selection to a new value.\n   */\n\n select(this: Editor, target: Location) {\n   const { selection } = this.value\n   target = this.getRange(target)\n\n   if (selection) {\n   this.setSelection(target)\n   return\n   }\n\n   if (!Range.isRange(target)) {\n   throw new Error(\n   `When setting the selection and the current selection is \\`null\\` you must provide at least an \\`anchor\\` and \\`focus\\`, but you passed: ${JSON.stringify(\n          target\n        )}`\n   )\n   }\n\n   this.apply({\n   type: 'set_selection',\n   properties: selection,\n   newProperties: target,\n   })\n }\n\n /**\n   * Set new properties on one of the selection's points.\n   */\n\n setPoint(\n   this: Editor,\n   props: Partial<Point>,\n   options: {\n   edge?: 'anchor' | 'focus' | 'start' | 'end'\n   }\n) {\n   const { selection } = this.value\n   let { edge = 'both' } = options\n\n   if (!selection) {\n   return\n   }\n\n   if (edge === 'start') {\n   edge = Range.isBackward(selection) ? 'focus' : 'anchor'\n   }\n\n   if (edge === 'end') {\n   edge = Range.isBackward(selection) ? 'anchor' : 'focus'\n   }\n\n   const { anchor, focus } = selection\n   const point = edge === 'anchor' ? anchor : focus\n   const newPoint = Object.assign(point, props)\n\n   if (edge === 'anchor') {\n   this.setSelection({ anchor: newPoint })\n   } else {\n   this.setSelection({ focus: newPoint })\n   }\n }\n\n /**\n   * Set new properties on the selection.\n   */\n\n setSelection(this: Editor, props: Partial<Range>) {\n   const { selection } = this.value\n   const oldProps: Partial<Range> | null = {}\n   const newProps: Partial<Range> = {}\n\n   if (!selection) {\n   return\n   }\n\n   for (const k in props) {\n   if (\n   (k === 'anchor' &&\n   props.anchor != null &&\n   !Point.equals(props.anchor, selection.anchor)) ||\n   (k === 'focus' &&\n   props.focus != null &&\n   !Point.equals(props.focus, selection.focus)) ||\n   (k !== 'anchor' && k !== 'focus' && props[k] !== selection[k])\n   ) {\n   oldProps[k] = selection[k]\n   newProps[k] = props[k]\n   }\n   }\n\n   if (Object.keys(oldProps).length > 0) {\n   this.apply({\n   type: 'set_selection',\n   properties: oldProps,\n   newProperties: newProps,\n   })\n   }\n }\n}\n\nexport default SelectionCommands\n","function _arrayWithoutHoles(arr) {\n if (Array.isArray(arr)) {\n   for (var i = 0, arr2 = new Array(arr.length); i < arr.length; i++) {\n   arr2[i] = arr[i];\n   }\n\n   return arr2;\n }\n}\n\nmodule.exports = _arrayWithoutHoles;","function _iterableToArray(iter) {\n if (Symbol.iterator in Object(iter) || Object.prototype.toString.call(iter) === \"[object Arguments]\") return Array.from(iter);\n}\n\nmodule.exports = _iterableToArray;","function _nonIterableSpread() {\n throw new TypeError(\"Invalid attempt to spread non-iterable instance\");\n}\n\nmodule.exports = _nonIterableSpread;","var arrayWithoutHoles = require(\"./arrayWithoutHoles\");\n\nvar iterableToArray = require(\"./iterableToArray\");\n\nvar nonIterableSpread = require(\"./nonIterableSpread\");\n\nfunction _toConsumableArray(arr) {\n return arrayWithoutHoles(arr) || iterableToArray(arr) || nonIterableSpread();\n}\n\nmodule.exports = _toConsumableArray;","import { Operation,

Editor, Node, Path, Text, Value } from '../..'\nimport {\n DIRTY_PATHS,\n PATH_REFS,\n POINT_REFS,\n RANGE_REFS,\n FLUSHING,\n NORMALIZING,\n} from '../utils'\n\nclass GeneralCommands {\n apply(this: Editor, op: Operation): void {\n this.value = Value.transform(this.value, op)\n this.operations.push(op)\n\n for (const ref of PATH_REFS.get(this)!) {\n ref.transform(op)\n }\n\n for (const ref of POINT_REFS.get(this)!) {\n ref.transform(op)\n }\n\n for (const ref of RANGE_REFS.get(this)!) {\n ref.transform(op)\n }\n\n const pathCache = {}\n const dirtyPaths: Path[] = []\n const add = (path: Path | null) => {\n if (path == null) {\n return\n }\n\n const key = path.join(',')\n\n if (key in pathCache) {\n return\n }\n\n pathCache[key] = true\n dirtyPaths.push(path)\n }\n\n for (const path of DIRTY_PATHS.get(this)!) {\n add(Path.transform(path, op))\n }\n\n for (const path of getDirtyPaths(op)) {\n add(path)\n }\n\n DIRTY_PATHS.set(this, dirtyPaths)\n this.normalize()\n\n if (!FLUSHING.get(this)) {\n FLUSHING.set(this, true)\n Promise.resolve().then(() => this.flush())\n }\n }\n\n flush(this: Editor): void {\n FLUSHING.set(this, false)\n const { value, operations } = this\n\n if (operations.length !== 0) {\n this.operations = []\n this.onChange(value, operations)\n }\n }\n\n normalize(\n this: Editor,\n options: {\n force?: boolean\n } = {}\n): void {\n const { force = false } = options\n\n if (!NORMALIZING.get(this)) {\n return\n }\n\n if (force) {\n const allPaths = Array.from(Node.nodes(this.value), ([, p]) => p)\n DIRTY_PATHS.set(this, allPaths)\n }\n\n if (DIRTY_PATHS.get(this)!.length === 0) {\n return\n }\n\n this.withoutNormalizing(() => {\n const max = DIRTY_PATHS.get(this)!.length * 42 // HACK: better way to do this?\n let m = 0\n\n while (DIRTY_PATHS.get(this)!.length !== 0) {\n if (m > max) {\n throw new Error(`\n Could not completely normalize the value after ${max} iterations! This is usually due to incorrect normalization logic that leaves a node in an invalid state.\n `)\n }\n\n const path = DIRTY_PATHS.get(this)!.pop()\n this.normalizeNodes({ at: path! })\n m++\n }\n })\n }\n\n withoutNormalizing(this: Editor, fn: () => void): void {\n const value = NORMALIZING.get(this)!\n NORMALIZING.set(this, false)\n fn()\n NORMALIZING.set(this, value)\n this.normalize()\n }\n}\n\n/**\n * Get the \"dirty\" paths generated from an operation.\n */\n\nconst getDirtyPaths = (op: Operation) => {\n switch (op.type) {\n case 'add_mark':\n case 'insert_text':\n case 'remove_mark':\n case 'remove_text':\n case 'set_mark':\n case 'set_node': {\n const { path } = op\n return Path.levels(path)\n }\n\n case 'insert_node': {\n const { node, path } = op\n const levels = Path.levels(path)\n const descendants = Text.isText(node)\n ? []\n : Array.from(Node.nodes(node), ([, p]) => path.concat(p))\n\n return [...levels, ...descendants]\n }\n\n case 'merge_node': {\n const { path } = op\n const ancestors = Path.ancestors(path)\n const previousPath = Path.previous(path)\n return [...ancestors, previousPath]\n }\n\n case 'move_node': {\n const { path, newPath } = op\n\n if (Path.equals(path, newPath)) {\n return []\n }\n\n const oldAncestors: Path[] = []\n const newAncestors: Path[] = []\n\n for (const ancestor of Path.ancestors(path)) {\n const path = Path.transform(ancestor, op)\n oldAncestors.push(path!)\n }\n\n for (const ancestor of Path.ancestors(newPath)) {\n const path = Path.transform(ancestor, op)\n newAncestors.push(path!)\n }\n\n return [...oldAncestors, ...newAncestors]\n }\n\n case 'remove_node': {\n const { path } = op\n const ancestors = Path.ancestors(path)\n return [...ancestors]\n }\n\n case 'split_node': {\n const { path } = op\n const levels = Path.levels(path)\n const nextPath = Path.next(path)\n return [...levels, nextPath]\n }\n\n default: {\n return []\n }\n }\n}\n\nexport default GeneralCommands\n","import { Editor, Element, Text } from '../..'\n\nclass ElementQueries {\n /**\n * Check if a node has block children.\n */\n\n hasBlocks(this: Editor, element: Element): boolean {\n return element.nodes.some(n => Element.isElement(n) && !this.isInline(n))\n }\n\n /**\n * Check if a node has inline and text children.\n */\n\n hasInlines(this: Editor, element: Element): boolean {\n return element.nodes.some(\n n => Text.isText(n) || (Element.isElement(n) && this.isInline(n))\n)\n }\n\n /**\n * Check if a node has text children.\n */\n\n hasTexts(this: Editor, element: Element): boolean {\n return element.nodes.every(n => Text.isText(n))\n }\n\n /**\n * Check if an element is empty, accounting for void nodes.\n */\n\n isEmpty(this: Editor, element: Element): boolean {\n const { nodes } = element\n const [first] = nodes\n return (\n nodes.length === 0 ||\n (nodes.length === 1 &&\n Text.isText(first) &&\n first.text === '' &&\n !this.isVoid(element))\n)\n }\n\n /**\n * Check if a node is an inline, meaning that it lives intermixed with text\n * nodes in the document tree.\n */\n\n isInline(this:

Editor, element: Element): boolean {\n return false\n }\n\n /**\n * Check if a node is a void, meaning that Slate considers its content a black\n * box. It will be edited as if it has no content.\n */\n\n isVoid(this: Editor, element: Element): boolean {\n return false\n }\n}\n\nexport default ElementQueries\n","import { Editor, Path, Point, PathRef, PointRef, Range, RangeRef } from '../..'\n\nclass GeneralQueries {\n /**\n * Create a mutable ref for a `Path` object, which will stay in sync as new\n * operations are applied to the this.\n */\n\n createPathRef(\n this: Editor,\n path: Path,\n options: { affinity?: 'backward' | 'forward' | null } = {}\n): PathRef {\n const { affinity = 'forward' } = options\n const ref: PathRef = new PathRef({ path, affinity, editor: this })\n return ref\n }\n\n /**\n * Create a mutable ref for a `Point` object, which will stay in sync as new\n * operations are applied to the this.\n */\n\n createPointRef(\n this: Editor,\n point: Point,\n options: { affinity?: 'backward' | 'forward' | null } = {}\n): PointRef {\n const { affinity = 'forward' } = options\n const ref: PointRef = new PointRef({ point, affinity, editor: this })\n return ref\n }\n\n /**\n * Create a mutable ref for a `Range` object, which will stay in sync as new\n * operations are applied to the this.\n */\n\n createRangeRef(\n this: Editor,\n range: Range,\n options: {\n   affinity?: 'backward' | 'forward' | 'outward' | 'inward' | null\n } = {}\n): RangeRef {\n const { affinity = 'forward' } = options\n const ref: RangeRef = new RangeRef({ range, affinity, editor: this })\n return ref\n }\n}\n\nexport default GeneralQueries\n","/**\n * Copyright (c) 2014-present, Facebook, Inc.\n *\n * This source code is licensed under the MIT license found in the\n * LICENSE file in the root directory of this source tree.\n */\n\nvar runtime = (function (exports) {\n \"use strict\";\n\n var Op = Object.prototype;\n var hasOwn = Op.hasOwnProperty;\n var undefined; // More compressible than void 0.\n var $Symbol = typeof Symbol === \"function\" ? Symbol : {};\n var iteratorSymbol = $Symbol.iterator || \"@@iterator\";\n var asyncIteratorSymbol = $Symbol.asyncIterator || \"@@asyncIterator\";\n var toStringTagSymbol = $Symbol.toStringTag || \"@@toStringTag\";\n\n function wrap(innerFn, outerFn, self, tryLocsList) {\n // If outerFn provided and outerFn.prototype is a Generator, then outerFn.prototype instanceof Generator.\n var protoGenerator = outerFn && outerFn.prototype instanceof Generator ? outerFn : Generator;\n var generator = Object.create(protoGenerator.prototype);\n var context = new Context(tryLocsList || []);\n\n // The ._invoke method unifies the implementations of the .next,\n // .throw, and .return methods.\n generator._invoke = makeInvokeMethod(innerFn, self, context);\n\n return generator;\n }\n exports.wrap = wrap;\n\n // Try/catch helper to minimize deoptimizations. Returns a completion\n // record like context.tryEntries[i].completion. This interface could\n // have been (and was previously) designed to take a closure to be\n // invoked without arguments, but in all the cases we care about we\n // already have an existing method we want to call, so there's no need\n // to create a new function object. We can even get away with assuming\n // the method takes exactly one argument, since that happens to be true\n // in every case, so we don't have to touch the arguments object. The\n // only additional allocation required is the completion record, which\n // has a stable shape and so hopefully should be cheap to allocate.\n function tryCatch(fn, obj, arg) {\n try {\n   return { type: \"normal\", arg: fn.call(obj, arg) };\n } catch (err) {\n   return { type: \"throw\", arg: err };\n }\n }\n\n var GenStateSuspendedStart = \"suspendedStart\";\n var GenStateSuspendedYield = \"suspendedYield\";\n var GenStateExecuting = \"executing\";\n var GenStateCompleted = \"completed\";\n\n // Returning this object from the innerFn has the same effect as\n // breaking out of the dispatch switch statement.\n var ContinueSentinel = {};\n\n // Dummy constructor functions that we use as the .constructor and\n // .constructor.prototype properties for functions that return Generator\n // objects. For full spec compliance, you may wish to configure your\n // minifier not to mangle the names of these two functions.\n function Generator() {}\n function GeneratorFunction() {}\n function GeneratorFunctionPrototype() {}\n\n // This is a polyfill for %IteratorPrototype% for environments that\n // don't natively support it.\n var IteratorPrototype = {};\n IteratorPrototype[iteratorSymbol] = function () {\n return this;\n };\n\n var getProto = Object.getPrototypeOf;\n var NativeIteratorPrototype = getProto && getProto(getProto(values([])));\n if (NativeIteratorPrototype &&\n NativeIteratorPrototype !== Op &&\n hasOwn.call(NativeIteratorPrototype, iteratorSymbol)) {\n // This environment has a native %IteratorPrototype%; use it instead\n // of the polyfill.\n IteratorPrototype = NativeIteratorPrototype;\n }\n\n var Gp = GeneratorFunctionPrototype.prototype =\n Generator.prototype = Object.create(IteratorPrototype);\n GeneratorFunction.prototype = Gp.constructor = GeneratorFunctionPrototype;\n

```
GeneratorFunctionPrototype.constructor = GeneratorFunction;\n  GeneratorFunctionPrototype[toStringTagSymbol]
=\n    GeneratorFunction.displayName = \"GeneratorFunction\";\n\n  // Helper for defining the .next, .throw, and
.return methods of the\n  // Iterator interface in terms of a single ._invoke method.\n  function
defineIteratorMethods(prototype) {\n    [\"next\", \"throw\", \"return\"].forEach(function(method) {\n
prototype[method] = function(arg) {\n        return this._invoke(method, arg);\n      };\n    });\n  }\n\n
exports.isGeneratorFunction = function(genFun) {\n    var ctor = typeof genFun === \"function\" &&
genFun.constructor;\n    return ctor\n      ? ctor === GeneratorFunction ||\n        // For the native GeneratorFunction
constructor, the best we can\n        // do is to check its .name property.\n        (ctor.displayName || ctor.name) ===
\"GeneratorFunction\"\n      : false;\n  };\n\n  exports.mark = function(genFun) {\n    if (Object.setPrototypeOf) {\n
 Object.setPrototypeOf(genFun, GeneratorFunctionPrototype);\n    } else {\n      genFun.__proto__ =
GeneratorFunctionPrototype;\n      if (!(toStringTagSymbol in genFun)) {\n        genFun[toStringTagSymbol] =
\"GeneratorFunction\";\n      }\n    }\n    genFun.prototype = Object.create(Gp);\n    return genFun;\n  };\n\n  //
Within the body of any async function, `await x` is transformed to\n  // `yield regeneratorRuntime.awrap(x)`, so that
the runtime can test\n  // `hasOwn.call(value, \"__await\")` to determine if the yielded value is\n  // meant to be
awaited.\n  exports.awrap = function(arg) {\n    return { __await: arg };\n  };\n\n  function AsyncIterator(generator)
{\n    function invoke(method, arg, resolve, reject) {\n      var record = tryCatch(generator[method], generator,
arg);\n      if (record.type === \"throw\") {\n        reject(record.arg);\n      } else {\n        var result = record.arg;\n
var value = result.value;\n        if (value &&\n            typeof value === \"object\" &&\n            hasOwn.call(value,
\"__await\")) {\n          return Promise.resolve(value.__await).then(function(value) {\n            invoke(\"next\", value,
resolve, reject);\n          }, function(err) {\n            invoke(\"throw\", err, resolve, reject);\n          });\n        }\n\n
return Promise.resolve(value).then(function(unwrapped) {\n          // When a yielded Promise is resolved, its final
value becomes\n          // the .value of the Promise<{value,done}> result for the\n          // current iteration.\n
result.value = unwrapped;\n          resolve(result);\n        }, function(error) {\n          // If a rejected Promise was
yielded, throw the rejection back\n          // into the async generator function so it can be handled there.\n          return
invoke(\"throw\", error, resolve, reject);\n        });\n      }\n    }\n\n    var previousPromise;\n\n    function
enqueue(method, arg) {\n      function callInvokeWithMethodAndArg() {\n        return new
Promise(function(resolve, reject) {\n          invoke(method, arg, resolve, reject);\n        });\n      }\n\n      return
previousPromise =\n        // If enqueue has been called before, then we want to wait until\n        // all previous
Promises have been resolved before calling invoke,\n        // so that results are always delivered in the correct order.
If\n        // enqueue has not been called before, then it is important to\n        // call invoke immediately, without
waiting on a callback to fire,\n        // so that the async generator function has the opportunity to do\n        // any
necessary setup in a predictable way. This predictability\n        // is why the Promise constructor synchronously
invokes its\n        // executor callback, and why async functions synchronously\n        // execute code before the first
await. Since we implement simple\n        // async functions in terms of async generators, it is especially\n        //
important to get this right, even though it requires care.\n        previousPromise ? previousPromise.then(\n
callInvokeWithMethodAndArg,\n          // Avoid propagating failures to Promises returned by later\n          //
invocations of the iterator.\n          callInvokeWithMethodAndArg\n        ) : callInvokeWithMethodAndArg();\n
}\n\n    // Define the unified helper method that is used to implement .next,\n    // .throw, and .return (see
defineIteratorMethods).\n    this._invoke = enqueue;\n  }\n\n  defineIteratorMethods(AsyncIterator.prototype);\n
AsyncIterator.prototype[asyncIteratorSymbol] = function () {\n    return this;\n  };\n  exports.AsyncIterator =
AsyncIterator;\n\n  // Note that simple async functions are implemented on top of\n  // AsyncIterator objects; they
just return a Promise for the value of\n  // the final result produced by the iterator.\n  exports.async =
function(innerFn, outerFn, self, tryLocsList) {\n    var iter = new AsyncIterator(\n      wrap(innerFn, outerFn, self,
tryLocsList)\n    );\n\n    return exports.isGeneratorFunction(outerFn)\n      ? iter // If outerFn is a generator, return
the full iterator.\n      : iter.next().then(function(result) {\n          return result.done ? result.value : iter.next();\n
});\n  };\n\n  function makeInvokeMethod(innerFn, self, context) {\n    var state = GenStateSuspendedStart;\n\n
return function invoke(method, arg) {\n      if (state === GenStateExecuting) {\n        throw new Error(\"Generator is
already running\");\n      }\n\n      if (state === GenStateCompleted) {\n        if (method === \"throw\") {\n
```

throw arg;\n }\n\n // Be forgiving, per 25.3.3.3.3 of the spec:\n // https://people.mozilla.org/~jorendorff/es6-draft.html#sec-generatorresume\n return doneResult();\n }\n\n context.method = method;\n context.arg = arg;\n\n while (true) {\n var delegate = context.delegate;\n if (delegate) {\n var delegateResult = maybeInvokeDelegate(delegate, context);\n if (delegateResult) {\n if (delegateResult === ContinueSentinel) continue;\n return delegateResult;\n }\n }\n\n if (context.method === \"next\") {\n // Setting context._sent for legacy support of Babel's\n // function.sent implementation.\n context.sent = context._sent = context.arg;\n\n } else if (context.method === \"throw\") {\n if (state === GenStateSuspendedStart) {\n state = GenStateCompleted;\n throw context.arg;\n }\n\n context.dispatchException(context.arg);\n\n } else if (context.method === \"return\") {\n context.abrupt(\"return\", context.arg);\n }\n\n state = GenStateExecuting;\n\n var record = tryCatch(innerFn, self, context);\n if (record.type === \"normal\") {\n // If an exception is thrown from innerFn, we leave state ===\n // GenStateExecuting and loop back for another invocation.\n state = context.done\n ? GenStateCompleted\n : GenStateSuspendedYield;\n\n if (record.arg === ContinueSentinel) {\n continue;\n }\n\n return {\n value: record.arg,\n done: context.done\n };\n\n } else if (record.type === \"throw\") {\n state = GenStateCompleted;\n // Dispatch the exception by looping back around to the\n // context.dispatchException(context.arg) call above.\n context.method = \"throw\";\n context.arg = record.arg;\n }\n };\n }\n\n // Call delegate.iterator[context.method](context.arg) and handle the\n // result, either by returning a { value, done } result from the\n // delegate iterator, or by modifying context.method and context.arg,\n // setting context.delegate to null, and returning the ContinueSentinel.\n function maybeInvokeDelegate(delegate, context) {\n var method = delegate.iterator[context.method];\n if (method === undefined) {\n // A .throw or .return when the delegate iterator has no .throw\n // method always terminates the yield* loop.\n context.delegate = null;\n\n if (context.method === \"throw\") {\n // Note: [\"return\"] must be used for ES3 parsing compatibility.\n if (delegate.iterator[\"return\"]) {\n // If the delegate iterator has a return method, give it a\n // chance to clean up.\n context.method = \"return\";\n context.arg = undefined;\n maybeInvokeDelegate(delegate, context);\n\n if (context.method === \"throw\") {\n // If maybeInvokeDelegate(context) changed context.method from\n // \"return\" to \"throw\", let that override the TypeError below.\n return ContinueSentinel;\n }\n }\n\n context.method = \"throw\";\n context.arg = new TypeError(\n \"The iterator does not provide a 'throw' method\");\n }\n\n return ContinueSentinel;\n }\n\n var record = tryCatch(method, delegate.iterator, context.arg);\n\n if (record.type === \"throw\") {\n context.method = \"throw\";\n context.arg = record.arg;\n context.delegate = null;\n return ContinueSentinel;\n }\n\n var info = record.arg;\n\n if (! info) {\n context.method = \"throw\";\n context.arg = new TypeError(\"iterator result is not an object\");\n context.delegate = null;\n return ContinueSentinel;\n }\n\n if (info.done) {\n // Assign the result of the finished delegate to the temporary\n // variable specified by delegate.resultName (see delegateYield).\n context[delegate.resultName] = info.value;\n\n // Resume execution at the desired location (see delegateYield).\n context.next = delegate.nextLoc;\n\n // If context.method was \"throw\" but the delegate handled the\n // exception, let the outer generator proceed normally. If\n // context.method was \"next\", forget context.arg since it has been\n // \"consumed\" by the delegate iterator. If context.method was\n // \"return\", allow the original .return call to continue in the\n // outer generator.\n if (context.method !== \"return\") {\n context.method = \"next\";\n context.arg = undefined;\n }\n\n } else {\n // Re-yield the result returned by the delegate method.\n return info;\n }\n\n // The delegate iterator is finished, so forget it and continue with\n // the outer generator.\n context.delegate = null;\n return ContinueSentinel;\n }\n\n // Define Generator.prototype.{next,throw,return} in terms of the\n // unified ._invoke helper method.\n defineIteratorMethods(Gp);\n\n Gp[toStringTagSymbol] = \"Generator\";\n\n // A Generator should always return itself as the iterator object when the\n // @@iterator function is called on it. Some browsers' implementations of the\n // iterator prototype chain incorrectly implement this, causing the Generator\n // object to not be returned from this call. This ensures that doesn't happen.\n // See https://github.com/facebook/regenerator/issues/274 for more details.\n Gp[iteratorSymbol] = function() {\n return

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this;\n  };\n\n  Gp.toString = function() {\n    return \"[object Generator]\";\n  };\n\n  function pushTryEntry(locs) {\n    var entry = { tryLoc: locs[0] };\n\n    if (1 in locs) {\n      entry.catchLoc = locs[1];\n    }\n\n    if (2 in locs) {\n      entry.finallyLoc = locs[2];\n      entry.afterLoc = locs[3];\n    }\n\n    this.tryEntries.push(entry);\n  }\n\n  function resetTryEntry(entry) {\n    var record = entry.completion || {};\n    record.type = \"normal\";\n    delete record.arg;\n    entry.completion = record;\n  }\n\n  function Context(tryLocsList) {\n    // The root entry object (effectively a try statement without a catch\n    // or a finally block) gives us a place to store values thrown from\n    // locations where there is no enclosing try statement.\n    this.tryEntries = [{ tryLoc: \"root\" }];\n    tryLocsList.forEach(pushTryEntry, this);\n    this.reset(true);\n  }\n\n  exports.keys = function(object) {\n    var keys = [];\n    for (var key in object) {\n      keys.push(key);\n    }\n    keys.reverse();\n\n    // Rather than returning an object with a next method, we keep\n    // things simple and return the next function itself.\n    return function next() {\n      while (keys.length) {\n        var key = keys.pop();\n        if (key in object) {\n          next.value = key;\n          next.done = false;\n          return next;\n        }\n      }\n\n      // To avoid creating an additional object, we just hang the .value\n      // and .done properties off the next function object itself. This\n      // also ensures that the minifier will not anonymize the function.\n      next.done = true;\n      return next;\n    };\n  };\n\n  function values(iterable) {\n    if (iterable) {\n      var iteratorMethod = iterable[iteratorSymbol];\n      if (iteratorMethod) {\n        return iteratorMethod.call(iterable);\n      }\n\n      if (typeof iterable.next === \"function\") {\n        return iterable;\n      }\n\n      if (!isNaN(iterable.length)) {\n        var i = -1, next = function next() {\n          while (++i < iterable.length) {\n            if (hasOwn.call(iterable, i)) {\n              next.value = iterable[i];\n              next.done = false;\n              return next;\n            }\n          }\n\n          next.value = undefined;\n          next.done = true;\n\n          return next;\n        };\n\n        return next.next = next;\n      }\n    }\n\n    // Return an iterator with no values.\n    return { next: doneResult };\n  }\n  exports.values = values;\n\n  function doneResult() {\n    return { value: undefined, done: true };\n  }\n\n  Context.prototype = {\n    constructor: Context,\n\n    reset: function(skipTempReset) {\n      this.prev = 0;\n      this.next = 0;\n      // Resetting context._sent for legacy support of Babel's\n      // function.sent implementation.\n      this.sent = this._sent = undefined;\n      this.done = false;\n      this.delegate = null;\n\n      this.method = \"next\";\n      this.arg = undefined;\n\n      this.tryEntries.forEach(resetTryEntry);\n\n      if (!skipTempReset) {\n        for (var name in this) {\n          // Not sure about the optimal order of these conditions:\n          if (name.charAt(0) === \"t\" &&\n              hasOwn.call(this, name) &&\n              !isNaN(+name.slice(1))) {\n            this[name] = undefined;\n          }\n        }\n      }\n    },\n\n    stop: function() {\n      this.done = true;\n\n      var rootEntry = this.tryEntries[0];\n      var rootRecord = rootEntry.completion;\n      if (rootRecord.type === \"throw\") {\n        throw rootRecord.arg;\n      }\n\n      return this.rval;\n    },\n\n    dispatchException: function(exception) {\n      if (this.done) {\n        throw exception;\n      }\n\n      var context = this;\n      function handle(loc, caught) {\n        record.type = \"throw\";\n        record.arg = exception;\n        context.next = loc;\n\n        if (caught) {\n          // If the dispatched exception was caught by a catch block,\n          // then let that catch block handle the exception normally.\n          context.method = \"next\";\n          context.arg = undefined;\n        }\n\n        return !! caught;\n      }\n\n      for (var i = this.tryEntries.length - 1; i >= 0; --i) {\n        var entry = this.tryEntries[i];\n        var record = entry.completion;\n\n        if (entry.tryLoc === \"root\") {\n          // Exception thrown outside of any try block that could handle\n          // it, so set the completion value of the entire function to\n          // throw the exception.\n          return handle(\"end\");\n        }\n\n        if (entry.tryLoc <= this.prev) {\n          var hasCatch = hasOwn.call(entry, \"catchLoc\");\n          var hasFinally = hasOwn.call(entry, \"finallyLoc\");\n\n          if (hasCatch && hasFinally) {\n            if (this.prev < entry.catchLoc) {\n              return handle(entry.catchLoc, true);\n            } else if (this.prev < entry.finallyLoc) {\n              return handle(entry.finallyLoc);\n            }\n\n          } else if (hasCatch) {\n            if (this.prev < entry.catchLoc) {\n              return handle(entry.catchLoc, true);\n            }\n\n          } else if (hasFinally) {\n            if (this.prev < entry.finallyLoc) {\n              return handle(entry.finallyLoc);\n            }\n\n          } else {\n            throw new Error(\"try statement without catch or finally\");\n          }\n        }\n      }\n    },\n\n    abrupt: function(type, arg) {\n      for (var i = this.tryEntries.length - 1; i >= 0; --i) {\n        var entry = this.tryEntries[i];\n        if (entry.tryLoc <= this.prev &&\n            hasOwn.call(entry, \"finallyLoc\") &&\n            this.prev < entry.finallyLoc) {\n          var finallyEntry = entry;\n          break;\n        }\n      }\n\n      if (finallyEntry &&\n          (type === \"break\" ||\n           type === \"continue\") &&\n          finallyEntry.tryLoc <= arg &&\n
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arg <= finallyEntry.finallyLoc) {\n // Ignore the finally entry if control is not jumping to a\n // location outside the try/catch block.\n finallyEntry = null;\n }\n\n var record = finallyEntry ? finallyEntry.completion : {};\n record.type = type;\n record.arg = arg;\n\n if (finallyEntry) {\n this.method = \"next\";\n this.next = finallyEntry.finallyLoc;\n return ContinueSentinel;\n }\n\n return this.complete(record);\n },\n\n complete: function(record, afterLoc) {\n if (record.type === \"throw\") {\n throw record.arg;\n }\n\n if (record.type === \"break\" ||\n record.type === \"continue\") {\n this.next = record.arg;\n } else if (record.type === \"return\") {\n this.rval = this.arg = record.arg;\n this.method = \"return\";\n this.next = \"end\";\n } else if (record.type === \"normal\" && afterLoc) {\n this.next = afterLoc;\n }\n\n return ContinueSentinel;\n },\n\n finish: function(finallyLoc) {\n for (var i = this.tryEntries.length - 1; i >= 0; --i) {\n var entry = this.tryEntries[i];\n if (entry.finallyLoc === finallyLoc) {\n this.complete(entry.completion, entry.afterLoc);\n resetTryEntry(entry);\n return ContinueSentinel;\n }\n }\n },\n\n \"catch\": function(tryLoc) {\n for (var i = this.tryEntries.length - 1; i >= 0; --i) {\n var entry = this.tryEntries[i];\n if (entry.tryLoc === tryLoc) {\n var record = entry.completion;\n if (record.type === \"throw\") {\n var thrown = record.arg;\n resetTryEntry(entry);\n }\n return thrown;\n }\n }\n\n // The context.catch method must only be called with a location\n // argument that corresponds to a known catch block.\n throw new Error(\"illegal catch attempt\");\n },\n\n delegateYield: function(iterable, resultName, nextLoc) {\n this.delegate = {\n iterator: values(iterable),\n resultName: resultName,\n nextLoc: nextLoc\n };\n\n if (this.method === \"next\") {\n // Deliberately forget the last sent value so that we don't\n // accidentally pass it on to the delegate.\n this.arg = undefined;\n }\n\n return ContinueSentinel;\n }\n };\n\n // Regardless of whether this script is executing as a CommonJS module\n // or not, return the runtime object so that we can declare the variable\n // regeneratorRuntime in the outer scope, which allows this module to be\n // injected easily by `bin/regenerator --include-runtime script.js`.\n return exports;\n\n}(\n // If this script is executing as a CommonJS module, use module.exports\n // as the regeneratorRuntime namespace. Otherwise create a new empty\n // object. Either way, the resulting object will be used to initialize\n // the regeneratorRuntime variable at the top of this file.\n typeof module === \"object\" ? module.exports : {}\n));\n\ntry {\n regeneratorRuntime = runtime;\n} catch (accidentalStrictMode) {\n // This module should not be running in strict mode, so the above\n // assignment should always work unless something is misconfigured. Just\n // in case runtime.js accidentally runs in strict mode, we can escape\n // strict mode using a global Function call. This could conceivably fail\n // if a Content Security Policy forbids using Function, but in that case\n // the proper solution is to fix the accidental strict mode problem. If\n // you've misconfigured your bundler to force strict mode and applied a\n // CSP to forbid Function, and you're not willing to fix either of those\n // problems, please detail your unique predicament in a GitHub issue.\n Function(\"r\", \"regeneratorRuntime = r\")(runtime);\n}\n","module.exports = require(\"regenerator-runtime\");\n","import { reverse as reverseText } from 'esrever'\nimport {\n Ancestor,\n AncestorEntry,\n AnnotationEntry,\n Editor,\n Element,\n ElementEntry,\n Location,\n Mark,\n MarkEntry,\n Node,\n NodeEntry,\n Path,\n Point,\n Range,\n Fragment,\n Span,\n Text,\n TextEntry,\n Value,\n} from '../..'\nimport { Match, getCharacterDistance, getWordDistance } from '../utils'\n\nclass LocationQueries {\n /**\n * Iterate through all of the annotations in the editor.\n */\n\n *annotations(\n this: Editor,\n options: {\n at?: Location\n } = {}\n): Iterable<AnnotationEntry> {\n const { annotations, selection } = this.value\n const { at = selection } = options\n\n if (!at) {\n return\n }\n\n const range = this.getRange(at)\n\n for (const key in annotations) {\n const annotation = annotations[key]\n\n if (at && !Range.includes(range, annotation)) {\n continue\n }\n\n yield [annotation, key]\n }\n }\n\n /**\n * Iterate through all of the elements in the editor.\n */\n\n *elements(\n this: Editor,\n options: {\n at?: Location | Span\n reverse?: boolean\n } = {}\n): Iterable<ElementEntry> {\n const { at = this.value.selection } = options\n\n if (!at) {\n return\n }\n\n const [from, to] = getSpan(this, at, options)\n\n yield* Node.elements(this.value, {\n ...options,\n from,\n to,\n pass: ([n]) => Element.isElement(n) && this.isVoid(n),\n })\n }\n\n /**\n * Get the marks that are \"active\" at a location. These are the\n * marks that will be added to any text that is inserted.\n *\n * The `union: true` option can be passed to create a union of marks across\n * the text nodes in the selection, instead of

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creating an intersection, which\n   * is the default.\n   *\n   * Note: to obey common rich text behavior, if the selection is collapsed at\n   * the start of a text node and there are previous text nodes in the same\n   * block, it will carry those marks forward from the previous text node. This\n   * allows for continuation of marks from previous words.\n   */\n\n  getActiveMarks(\n    this: Editor,\n    options: {\n      at?: Location\n      union?: boolean\n      hanging?: boolean\n    } = {}\n  ): Mark[] {\n    const { union = false, hanging = false } = options\n    let { at = this.value.selection } = options\n\n    if (!at) {\n      return []\n    }\n\n    at = this.getRange(at)\n\n    if (!hanging) {\n      at = this.unhangRange(at)\n    }\n\n    // If the range is collapsed at the start of a text node, it should carry\n    // over the marks from the previous text node in the same block.\n    if (Range.isCollapsed(at) && at.anchor.offset === 0) {\n      const { anchor } = at\n      const prev = this.getPrevious(anchor, 'text')\n\n      if (prev && Path.isSibling(anchor.path, prev[1])) {\n        const [prevNode, prevPath] = prev\n\n        if (Text.isText(prevNode)) {\n          at = this.getRange(prevPath)\n        }\n      }\n    }\n\n    const marks: Mark[] = []\n    let first = true\n\n    for (const [node] of this.texts({ at })) {\n      if (first) {\n        marks.push(...node.marks)\n        first = false\n        continue\n      }\n\n      if (union) {\n        for (const mark of node.marks) {\n          if (!Mark.exists(mark, marks)) {\n            marks.push(mark)\n          }\n        }\n      } else {\n        // PERF: If we're doing an intersection and the result hits zero it can\n        // never increase again, so we can exit early.\n        if (marks.length === 0) {\n          break\n        }\n\n        // Iterate backwards so that removing marks doesn't impact indexing.\n        for (let i = marks.length - 1; i >= 0; i--) {\n          const existing = marks[i]\n\n          if (!Mark.exists(existing, node.marks)) {\n            marks.splice(i, 1)\n          }\n        }\n      }\n    }\n\n    return marks\n  }\n\n  /**\n   * Get the point after a location.\n   */\n\n  getAfter(\n    this: Editor,\n    at: Location,\n    options: {\n      distance?: number\n      unit?: 'offset' | 'character' | 'word' | 'line' | 'block'\n    } = {}\n  ): Point | undefined {\n    const anchor = this.getPoint(at, { edge: 'end' })\n    const focus = this.getEnd([])\n    const range = { anchor, focus }\n    const { distance = 1 } = options\n    let d = 0\n    let target\n\n    for (const p of this.positions({ ...options, at: range })) {\n      if (d > distance) {\n        break\n      }\n\n      if (d !== 0) {\n        target = p\n      }\n\n      d++\n    }\n\n    return target\n  }\n\n  /**\n   * Get the common ancestor node of a location.\n   */\n\n  getAncestor(\n    this: Editor,\n    at: Location,\n    options: {\n      depth?: number\n      edge?: 'start' | 'end'\n    } = {}\n  ): AncestorEntry {\n    if (Path.isPath(at) || Point.isPoint(at)) {\n      return this.getParent(at, options)\n    }\n\n    const path = this.getPath(at, options)\n    const ancestorPath = Path.equals(at.anchor.path, at.focus.path)\n      ? Path.parent(path)\n      : path\n\n    const ancestor = Node.get(this.value, ancestorPath) as Ancestor\n    return [ancestor, ancestorPath]\n  }\n\n  /**\n   * Get the point before a location.\n   */\n\n  getBefore(\n    this: Editor,\n    at: Location,\n    options: {\n      distance?: number\n      unit?: 'offset' | 'character' | 'word' | 'line' | 'block'\n    } = {}\n  ): Point | undefined {\n    const anchor = this.getStart([])\n    const focus = this.getPoint(at, { edge: 'start' })\n    const range = { anchor, focus }\n    const { distance = 1 } = options\n    let d = 0\n    let target\n\n    for (const p of this.positions({ ...options, at: range, reverse: true })) {\n      if (d > distance) {\n        break\n      }\n\n      if (d !== 0) {\n        target = p\n      }\n\n      d++\n    }\n\n    return target\n  }\n\n  /**\n   * Get the start and end points of a location.\n   */\n\n  getEdges(this: Editor, at: Location): [Point, Point] {\n    return [this.getStart(at), this.getEnd(at)]\n  }\n\n  /**\n   * Get the end point of a location.\n   */\n\n  getEnd(this: Editor, at: Location): Point {\n    return this.getPoint(at, { edge: 'end' })\n  }\n\n  /**\n   * Get the first node at a location.\n   */\n\n  getFirst(this: Editor, at: Location): NodeEntry {\n    const path = this.getPath(at, { edge: 'start' })\n    return this.getNode(path)\n  }\n\n  /**\n   * Get the fragment at a location.\n   */\n\n  getFragment(this: Editor, at: Location): Fragment {\n    const range = this.getRange(at)\n    const fragment = Node.fragment(this.value, range)\n    return fragment\n  }\n\n  /**\n   * Get the last node at a location.\n   */\n\n  getLast(this: Editor, at: Location): NodeEntry {\n    const path = this.getPath(at, { edge: 'end' })\n    return this.getNode(path)\n  }\n\n  /**\n   * Get the leaf text node at a location.\n   */\n\n  getLeaf(\n    this: Editor,\n    at: Location,\n    options: {\n      depth?: number\n      edge?: 'start' | 'end'\n    } = {}\n  ): TextEntry {\n    const path = this.getPath(at, options)\n    const node = Node.leaf(this.value, path)\n    return [node, path]\n  }\n\n  /**\n   * Get the first matching node in a single branch of the document.\n   */\n\n  getMatch(this: Editor, at: Location, match: Match): NodeEntry | undefined {\n    // PERF: If the match is a path, don't traverse.\n    if (Path.isPath(match)) {\n      return this.getNode(match)\n    }\n\n    // PERF: If the target is a path and the match is a depth, don't traverse.\n    if (typeof match === 'number' && match <= at.length && Path.isPath(at)) {\n      const p = at.slice(0, match)\n
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return this.getNode(p)\n  }\n\n  const path = this.getPath(at)\n\n  for (const entry of this.levels({ at: path })) {\n  if (isMatch(this, entry, match)) {\n  return entry\n  }\n  }\n\n  /**\n  * Get the matching node in the branch of the document after a location.\n  */\n\n  getNext(this: Editor, at: Location, match: Match): NodeEntry | undefined {\n  const [, from] = this.getLast(at)\n  const [, to] = this.getLast([])\n  const span: Span = [from, to]\n  let i = 0\n\n  for (const entry of this.matches({ at: span, match })) {\n  if (i === 1) {\n  return entry\n  }\n\n  i++\n  }\n  }\n\n  /**\n  * Get the node at a location.\n  */\n\n  getNode(\n  this: Editor,\n  at: Location,\n  options: {\n  depth?: number\n  edge?: 'start' | 'end'\n  } = {}\n  ): NodeEntry {\n  const path = this.getPath(at, options)\n  const node = Node.get(this.value, path)\n  return [node, path]\n  }\n\n  /**\n  * Get the parent node of a location.\n  */\n\n  getParent(\n  this: Editor,\n  at: Location,\n  options: {\n  depth?: number\n  edge?: 'start' | 'end'\n  } = {}\n  ): AncestorEntry {\n  const path = this.getPath(at, options)\n  const parentPath = Path.parent(path)\n  const entry = this.getNode(parentPath)\n  return entry as AncestorEntry\n  }\n\n  /**\n  * Get the path of a location.\n  */\n\n  getPath(\n  this: Editor,\n  at: Location,\n  options: {\n  depth?: number\n  edge?: 'start' | 'end'\n  } = {}\n  ): Path {\n  const { depth, edge } = options\n\n  if (Path.isPath(at)) {\n  if (edge === 'start') {\n  const [, firstPath] = Node.first(this.value, at)\n  at = firstPath\n  } else if (edge === 'end') {\n  const [, lastPath] = Node.last(this.value, at)\n  at = lastPath\n  }\n  }\n\n  if (Range.isRange(at)) {\n  if (edge === 'start') {\n  at = Range.start(at)\n  } else if (edge === 'end') {\n  at = Range.end(at)\n  } else {\n  at = Path.common(at.anchor.path, at.focus.path)\n  }\n  }\n\n  if (Point.isPoint(at)) {\n  at = at.path\n  }\n\n  if (depth != null) {\n  at = at.slice(0, depth)\n  }\n\n  return at\n  }\n\n  /**\n  * Get the start or end point of a location.\n  */\n\n  getPoint(\n  this: Editor,\n  at: Location,\n  options: {\n  edge?: 'start' | 'end'\n  } = {}\n  ): Point {\n  const { edge = 'start' } = options\n\n  if (Path.isPath(at)) {\n  let path\n\n  if (edge === 'end') {\n  const [, lastPath] = Node.last(this.value, at)\n  path = lastPath\n  } else {\n  const [, firstPath] = Node.first(this.value, at)\n  path = firstPath\n  }\n\n  const node = Node.get(this.value, path)\n\n  if (!Text.isText(node)) {\n  throw new Error(\n  `Cannot get the ${edge} point in the node at path [${at}] because it has no ${edge} text node.`\n  )\n  }\n\n  return { path, offset: edge === 'end' ? node.text.length : 0 }\n  }\n\n  if (Range.isRange(at)) {\n  const [start, end] = Range.edges(at)\n  return edge === 'start' ? start : end\n  }\n\n  return at\n  }\n\n  /**\n  * Get the matching node in the branch of the document before a location.\n  */\n\n  getPrevious(this: Editor, at: Location, match: Match): NodeEntry | undefined {\n  const [, from] = this.getFirst(at)\n  const [, to] = this.getFirst([])\n  const span: Span = [from, to]\n  let i = 0\n\n  for (const entry of this.matches({ match, at: span, reverse: true })) {\n  if (i === 1) {\n  return entry\n  }\n\n  i++\n  }\n  }\n\n  /**\n  * Get a range of a location.\n  */\n\n  getRange(this: Editor, at: Location, to?: Location): Range {\n  if (Range.isRange(at) && !to) {\n  return at\n  }\n\n  const start = this.getStart(at)\n  const end = this.getEnd(to || at)\n  return { anchor: start, focus: end }\n  }\n\n  /**\n  * Get the start point of a location.\n  */\n\n  getStart(this: Editor, at: Location): Point {\n  return this.getPoint(at, { edge: 'start' })\n  }\n\n  /**\n  * Get the text content of a location.\n  *\n  * Note: the text of void nodes is presumed to be an empty string, regardless\n  * of what their actual content is.\n  */\n\n  getText(this: Editor, at: Location): string {\n  const range = this.getRange(at)\n  const [start, end] = Range.edges(range)\n  let text = ''\n\n  for (const [node, path] of this.texts({ at: range })) {\n  let t = node.text\n\n  if (Path.equals(path, end.path)) {\n  t = t.slice(0, end.offset)\n  }\n\n  if (Path.equals(path, start.path)) {\n  t = t.slice(start.offset)\n  }\n\n  text += t\n  }\n\n  return text\n  }\n\n  /**\n  * Check if there is a node at a location.\n  */\n\n  hasNode(\n  this: Editor,\n  at: Location,\n  options: {\n  depth?: number\n  edge?: 'start' | 'end'\n  } = {}\n  ): boolean {\n  const path = this.getPath(at, options)\n  const exists = Node.has(this.value, path)\n  return exists\n  }\n\n  /**\n  * Check if a point the start point of a location.\n  */\n\n  isStart(this: Editor, point: Point, at: Location): boolean {\n  // PERF: If the offset isn't `0` we know it's not the start.\n  if (point.offset !== 0) {\n  return false\n  }\n\n  const start = this.getStart(at)\n  return Point.equals(point, start)\n  }\n\n  /**\n  * Check if a point is the end point of a location.\n  */\n\n  isEnd(this: Editor, point: Point, at: Location): boolean {\n  const end = this.getEnd(at)\n  return Point.equals(point, end)\n  }\n\n  /**\n  * Check if a point is an edge of a location.\n  */\n\n  isEdge(this: Editor, point: Point, at: Location): boolean {\n  return this.isStart(point, at) || this.isEnd(point, at)\n  }\n\n  /**\n  * Iterate through all of the levels at a location.\n  */\n\n  *levels(\n  this:
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Editor,\n  options: {\n    at?: Location\n    reverse?: boolean\n  } = {}\n ): Iterable<NodeEntry> {\n  const { at = this.value.selection, reverse = false } = options\n\n  if (!at) {\n    return\n  }\n\n  const levels: NodeEntry[] = []\n  const path = this.getPath(at)\n\n  for (const [n, p] of Node.levels(this.value, path)) {\n    levels.push([n, p])\n\n    if (Element.isElement(n) && this.isVoid(n)) {\n      break\n    }\n  }\n\n  if (reverse) {\n    levels.reverse()\n  }\n\n  yield* levels\n }\n\n /**\n  * Iterate through all of the text nodes in the editor.\n  */\n\n *marks(\n  this: Editor,\n  options: {\n    at?: Location | Span\n    reverse?: boolean\n  } = {}\n ): Iterable<MarkEntry> {\n  const { at = this.value.selection } = options\n\n  if (!at) {\n    return\n  }\n\n  const [from, to] = getSpan(this, at, options)\n\n  yield* Node.marks(this.value, {\n    ...options,\n    from,\n    to,\n    pass: ([n]) => Element.isElement(n) && this.isVoid(n),\n  })\n }\n\n /**\n  * Iterate through all of the nodes that match.\n  */\n\n *matches(\n  this: Editor,\n  options: {\n    at?: Location | Span\n    match?: Match\n    reverse?: boolean\n  }\n ): Iterable<NodeEntry> {\n  const {\n    at = this.value.selection,\n    match = Path.isPath(at) ? at : () => true,\n    reverse = false,\n  } = options\n\n  if (!at) {\n    return\n  }\n\n  let prevPath: Path | undefined\n\n  for (const [n, p] of this.nodes({ at, reverse })) {\n    if (prevPath && Path.compare(p, prevPath) === 0) {\n      continue\n    }\n\n    if (isMatch(this, [n, p], match)) {\n      prevPath = p\n      yield [n, p]\n    }\n  }\n }\n\n /**\n  * Iterate through all of the nodes in the editor.\n  */\n\n *nodes(\n  this: Editor,\n  options: {\n    at?: Location | Span\n    reverse?: boolean\n  } = {}\n ): Iterable<NodeEntry> {\n  const { at = this.value.selection } = options\n\n  if (!at) {\n    return\n  }\n\n  const [from, to] = getSpan(this, at, options)\n  const iterable = Node.nodes(this.value, {\n    ...options,\n    from,\n    to,\n    pass: ([n]) => Element.isElement(n) && this.isVoid(n),\n  })\n\n  for (const entry of iterable) {\n    yield entry\n  }\n }\n\n /**\n  * Iterate through all of the positions in the document where a `Point` can be\n  * placed.\n  *\n  * By default it will move forward by individual offsets at a time, but you\n  * can pass the `unit: 'character'` option to moved forward one character, word,\n  * or line at at time.\n  *\n  * Note: void nodes are treated as a single point, and iteration will not\n  * happen inside their content.\n  */\n\n *positions(\n  this: Editor,\n  options: {\n    at?: Location\n    unit?: 'offset' | 'character' | 'word' | 'line' | 'block'\n    reverse?: boolean\n  } = {}\n ): Iterable<Point> {\n  const {\n    at = this.value.selection,\n    unit = 'offset',\n    reverse = false,\n  } = options\n\n  if (!at) {\n    return\n  }\n\n  const range = this.getRange(at)\n  const [start, end] = Range.edges(range)\n  const first = reverse ? end : start\n  let string = ''\n  let available = 0\n  let offset = 0\n  let distance: number | null = null\n  let isNewBlock = false\n\n  const advance = () => {\n    if (distance == null) {\n      if (unit === 'character') {\n        distance = getCharacterDistance(string)\n      } else if (unit === 'word') {\n        distance = getWordDistance(string)\n      } else if (unit === 'line' || unit === 'block') {\n        distance = string.length\n      } else {\n        distance = 1\n      }\n\n      string = string.slice(distance)\n    }\n\n    // Add or substract the offset.\n    offset = reverse ? offset - distance : offset + distance\n    // Subtract the distance traveled from the available text.\n    available = available - distance!\n    // If the available had room to spare, reset the distance so that it will\n    // advance again next time. Otherwise, set it to the overflow amount.\n    distance = available >= 0 ? null : 0 - available\n  }\n\n  for (const [node, path] of this.nodes({ at, reverse })) {\n    if (Element.isElement(node)) {\n      // Void nodes are a special case, since we don't want to iterate over\n      // their content. We instead always just yield their first point.\n      if (this.isVoid(node)) {\n        yield this.getStart(path)\n        continue\n      }\n\n      if (this.isInline(node)) {\n        continue\n      }\n\n      if (this.hasInlines(node)) {\n        let e = Path.isAncestor(path, end.path) ? end : this.getEnd(path)\n        let s = Path.isAncestor(path, start.path)\n          ? start\n          : this.getStart(path)\n\n        const text = this.getText({ anchor: s, focus: e })\n        string = reverse ? reverseText(text) : text\n        isNewBlock = true\n      }\n    }\n\n    if (Text.isText(node)) {\n      const isFirst = Path.equals(path, first.path)\n      available = node.text.length\n      offset = reverse ? available : 0\n\n      if (isFirst) {\n        available = reverse ? first.offset : available - first.offset\n        offset = first.offset\n      }\n\n      if (isFirst || isNewBlock || unit === 'offset') {\n        yield { path, offset }\n      }\n\n      while (true) {\n        // If there's no more string, continue to the next block.\n        if (string === '') {\n          break\n        } else {\n          advance()\n        }\n\n        // If the available space hasn't overflow, we have another point to\n        // yield in the current text node.\n        if (available >= 0) {\n          yield { path, offset }\n        } else {\n          break\n        }\n      }\n\n      isNewBlock = false\n    }\n  }\n\n /**\n  * Iterate
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through all of the text nodes in the editor.\n */\n\n *texts(\n this: Editor,\n options: {\n at?: Location | Span\n reverse?: boolean\n } = {}\n): Iterable<TextEntry> {\n const { at = this.value.selection } = options\n\n if (!at) {\n return\n }\n\n const [from, to] = getSpan(this, at, options)\n\n yield* Node.texts(this.value, {\n ...options,\n from,\n to,\n pass: ([n]) => Element.isElement(n) && this.isVoid(n),\n })\n }\n}\n\n/**\n * Get the from and to path span from a location.\n */\n\nconst getSpan = (\n editor: Editor,\n at: Location | Span,\n options: {\n reverse?: boolean\n } = {}\n): Span => {\n const { reverse = false } = options\n\n if (Span.isSpan(at)) {\n return at\n }\n\n const first = editor.getPath(at, { edge: 'start' })\n const last = editor.getPath(at, { edge: 'end' })\n const from = reverse ? last : first\n const to = reverse ? first : last\n return [from, to]\n}\n\n/**\n * Check if a node is a match.\n */\n\nconst isMatch = (editor: Editor, entry: NodeEntry, match: Match) => {\n const [node, path] = entry\n\n if (typeof match === 'function') {\n return match(entry)\n } else if (typeof match === 'number') {\n return path.length === match\n } else if (match === 'text') {\n return Text.isText(node)\n } else if (match === 'value') {\n return Value.isValue(node)\n } else if (match === 'inline') {\n return (\n (Element.isElement(node) && editor.isInline(node)) || Text.isText(node)\n)\n } else if (match === 'block') {\n return (\n Element.isElement(node) &&\n !editor.isInline(node) &&\n editor.hasInlines(node)\n)\n } else if (match === 'void') {\n return Element.isElement(node) && editor.isVoid(node)\n } else if (Path.isPath(match)) {\n return Path.equals(path, match)\n } else {\n return Node.matches(node, match)\n }\n}\n\nexport default LocationQueries\n","import { Editor, Path, Range } from '../..'\n\nclass RangeQueries {\n /**\n * Convert a range into a non-hanging one.\n */\n\n unhangRange(this: Editor, range: Range): Range {\n let [start, end] = Range.edges(range)\n\n // PERF: exit early if we can guarantee that the range isn't hanging.\n if (start.offset !== 0 || end.offset !== 0 || Range.isCollapsed(range)) {\n return range\n }\n\n const closestBlock = this.getMatch(end.path, 'block')\n const blockPath = closestBlock ? closestBlock[1] : []\n const first = this.getStart([])\n const before = { anchor: first, focus: end }\n let skip = true\n\n for (const [node, path] of this.texts({ at: before, reverse: true })) {\n if (skip) {\n skip = false\n continue\n }\n\n if (node.text !== '' || Path.isBefore(path, blockPath)) {\n end = { path, offset: node.text.length }\n break\n }\n }\n\n return { anchor: start, focus: end }\n }\n}\n\nexport default RangeQueries\n","import { produce } from 'immer'\nimport { Operation, Value } from '..'\nimport {\n DIRTY_PATHS,\n NORMALIZING,\n FLUSHING,\n PATH_REFS,\n POINT_REFS,\n RANGE_REFS,\n} from './utils'\nimport AnnotationCommands from './commands/annotation'\nimport TextCommands from './commands/text'\nimport NodeCommands from './commands/node'\nimport MarkCommands from './commands/mark'\nimport SelectionCommands from './commands/selection'\nimport GeneralCommands from './commands/general'\nimport ElementQueries from './queries/element'\nimport GeneralQueries from './queries/general'\nimport LocationQueries from './queries/location'\nimport RangeQueries from './queries/range'\n\n/**\n * The `Editor` class stores all the state of a Slate editor. It is extended by\n * plugins that wish to add their own methods that implement new behaviors.\n */\n\nclass Editor {\n onChange: (value: Value, operations: Operation[]) => void\n operations: Operation[]\n value: Value\n\n constructor(\n props: {\n onChange?(value: Value, operations: Operation[]): void\n readOnly?: boolean\n value?: Value\n } = {}\n) {\n const {\n onChange = () => {},\n value = produce(\n { nodes: [], selection: null, annotations: {} },\n () => {}\n),\n } = props\n\n this.onChange = onChange\n this.operations = []\n this.value = value\n\n DIRTY_PATHS.set(this, [])\n FLUSHING.set(this, false)\n NORMALIZING.set(this, true)\n PATH_REFS.set(this, new Set())\n POINT_REFS.set(this, new Set())\n RANGE_REFS.set(this, new Set())\n }\n}\n\ninterface Editor\n extends AnnotationCommands,\n TextCommands,\n NodeCommands,\n MarkCommands,\n SelectionCommands,\n GeneralCommands,\n ElementQueries,\n GeneralQueries,\n LocationQueries,\n RangeQueries {}\n\nconst mixin = (Mixins: Array<new () => any>) => {\n for (const Mixin of Mixins) {\n for (const key of Object.getOwnPropertyNames(Mixin.prototype)) {\n if (key !== 'constructor') {\n Editor.prototype[key] = Mixin.prototype[key]\n }\n }\n }\n}\n\nmixin([\n AnnotationCommands,\n TextCommands,\n NodeCommands,\n MarkCommands,\n SelectionCommands,\n GeneralCommands,\n ElementQueries,\n GeneralQueries,\n LocationQueries,\n RangeQueries,\n])\n\nexport { Editor }\n","import { Operation, Path, Editor } from '..'\nimport { PATH_REFS } from './utils'\n\n/**\n * `PathRef` objects keep a specific

path in a document synced over time as new\n * operations are applied to the editor. You can access their `current` property\n * at any time for the up-to-date path value.\n */\n\nclass PathRef {\n current: Path | null\n private affinity: 'forward' | 'backward' | null\n private editor: Editor\n\n constructor(props: {\n path: Path | null\n affinity: 'forward' | 'backward' | null\n editor: Editor\n }) {\n const { path, affinity, editor } = props\n this.current = path\n this.affinity = affinity\n this.editor = editor\n const pathRefs = PATH_REFS.get(editor)!\n pathRefs.add(this)\n }\n\n /**\n * Transform the path ref's current value by an operation.\n */\n\n transform(op: Operation): void {\n const { current, affinity } = this\n\n if (current == null) {\n return\n }\n\n const path = Path.transform(current, op, { affinity })\n this.current = path\n\n if (path == null) {\n this.unref()\n }\n }\n\n /**\n * Unreference the ref, allowing the editor to stop updating its value.\n */\n\n unref(): Path | null {\n const { current, editor } = this\n const pathRefs = PATH_REFS.get(editor)!\n pathRefs.delete(this)\n this.current = null\n return current\n }\n}\n\nexport { PathRef }\n","import { Operation, Point, Editor } from '..'\nimport { POINT_REFS } from './utils'\n\n/**\n * `PointRef` objects keep a specific point in a document synced over time as new\n * operations are applied to the editor. You can access their `current` property\n * at any time for the up-to-date point value.\n */\n\nclass PointRef {\n current: Point | null\n private affinity: 'forward' | 'backward' | null\n private editor: Editor\n\n constructor(props: {\n point: Point | null\n affinity: 'forward' | 'backward' | null\n editor: Editor\n }) {\n const { point, affinity, editor } = props\n this.current = point\n this.affinity = affinity\n this.editor = editor\n const pointRefs = POINT_REFS.get(editor)!\n pointRefs.add(this)\n }\n\n /**\n * Transform the point ref's current value by an operation.\n */\n\n transform(op: Operation): void {\n const { current, affinity } = this\n\n if (current == null) {\n return\n }\n\n const point = Point.transform(current, op, { affinity })\n this.current = point\n\n if (point == null) {\n this.unref()\n }\n }\n\n /**\n * Unreference the ref, allowing the editor to stop updating its value.\n */\n\n unref(): Point | null {\n const { current, editor } = this\n const pointRefs = POINT_REFS.get(editor)!\n pointRefs.delete(this)\n this.current = null\n return current\n }\n}\n\nexport { PointRef }\n","import { Operation, Range, Editor } from '..'\nimport { RANGE_REFS } from './utils'\n\n/**\n * `RangeRef` objects keep a specific range in a document synced over time as new\n * operations are applied to the editor. You can access their `current` property\n * at any time for the up-to-date range value.\n */\n\nclass RangeRef {\n current: Range | null\n private affinity: 'forward' | 'backward' | 'outward' | 'inward' | null\n private editor: Editor\n\n constructor(props: {\n range: Range | null\n affinity: 'forward' | 'backward' | 'outward' | 'inward' | null\n editor: Editor\n }) {\n const { range, affinity, editor } = props\n this.current = range\n this.affinity = affinity\n this.editor = editor\n const rangeRefs = RANGE_REFS.get(editor)!\n rangeRefs.add(this)\n }\n\n /**\n * Transform the range ref's current value by an operation.\n */\n\n transform(op: Operation): void {\n const { current, affinity } = this\n\n if (current == null) {\n return\n }\n\n const range = Range.transform(current, op, { affinity })\n this.current = range\n\n if (range == null) {\n this.unref()\n }\n }\n\n /**\n * Unreference the ref, allowing the editor to stop updating its value.\n */\n\n unref(): Range | null {\n const { current, editor } = this\n const rangeRefs = RANGE_REFS.get(editor)!\n rangeRefs.delete(this)\n this.current = null\n return current\n }\n}\n\nexport { RangeRef }\n","import isPlainObject from 'is-plain-object'\nimport { Node, Path, Value } from '..'\n\n/**\n * `Element` objects are a type of node in a Slate document that contain other\n * element nodes or text nodes. They can be either \"blocks\" or \"inlines\"\n * depending on the Slate editor's schema.\n */\n\ninterface Element {\n nodes: Node[]\n [key: string]: any\n}\n\n/**\n * `ElementEntry` objects refer to an `Element` and the `Path` where it can be\n * found inside a root node.\n */\n\ntype ElementEntry = [Element, Path]\n\nnamespace Element {\n /**\n * Check if a value implements the `Element` interface.\n */\n\n export const isElement = (value: any): value is Element => {\n return (\n isPlainObject(value) &&\n Node.isNodeList(value.nodes) &&\n !Value.isValue(value)\n)\n }\n\n /**\n * Check if a value is an array of `Element` objects.\n */\n\n export const isElementList = (value: any): value is Element[] => {\n return (\n Array.isArray(value) &&\n (value.length === 0 ||\n Element.isElement(value[0]))\n)\n }\n\n /**\n * Check if an element matches set of properties.\n *\n * Note: the is for checking custom properties, and it does not ensure that\n * any children in the `nodes` property are equal.\n */\n\n export const matches = (\n element: Element,\n props: Partial<Element>\n): boolean => {\n

for (const key in props) {\n if (key === 'nodes') {\n continue\n }\n\n if (element[key] !== props[key]) {\n return false\n }\n }\n\n return true\n }\n}\n\nexport { Element, ElementEntry }\n","import isPlainObject from 'is-plain-object'\nimport { Node } from '..'\n\n/**\n * The `Fragment` interface describes a tree of nodes that exist independent of\n * a Slate document.\n */\n\ninterface Fragment {\n nodes: Node[]\n [key: string]: any\n}\n\nnamespace Fragment {\n /**\n * Check if a value implements the `Fragment` interface.\n */\n\n export const isFragment = (value: any): value is Fragment => {\n return isPlainObject(value) && Node.isNodeList(value.nodes)\n }\n}\n\nexport { Fragment }\n","import { Path, Point, Range } from '..'\n\n/**\n * The `Location` interface is a union of the ways to refer to a specific\n * location in a Slate document: paths, points or ranges.\n *\n * Methods will often accept a `Location` instead of requiring only a `Path`,\n * `Point` or `Range`. This eliminates the need for developers to manage\n * converting between the different interfaces in their own code base.\n */\n\ntype Location = Path | Point | Range\n\nnamespace Location {\n /**\n * Check if a value implements the `Location` interface.\n */\n\n export const isLocation = (value: any): value is Location => {\n return Path.isPath(value) || Point.isPoint(value) || Range.isRange(value)\n }\n}\n\ntype Span = [Path, Path]\n\nnamespace Span {\n /**\n * Check if a value implements the `Span` interface.\n */\n\n export const isSpan = (value: any): value is Span => {\n return (\n Array.isArray(value) && value.length === 2 && value.every(Path.isPath)\n)\n }\n}\n\nexport { Location, Span }\n","import isPlainObject from 'is-plain-object'\nimport { Path, Text } from '..'\n\n/**\n * `Mark` objects represent formatting that is applied to text in a Slate\n * document. They appear in leaf text nodes in the document, as well as in\n * annotations on the root value object.\n */\n\ninterface Mark {\n [key: string]: any\n}\n\n/**\n * `MarkEntry` tuples are returned when iterating through the marks in a text\n * node. They include the index of the mark in the text node's marks array, as\n * well as the text node and its path in the root node.\n */\n\ntype MarkEntry = [Mark, number, Text, Path]\n\nnamespace Mark {\n /**\n * Check if a mark exists in a set of marks.\n */\n\n export const exists = (mark: Mark, marks: Mark[]): boolean => {\n return !!marks.find(f => Mark.matches(f, mark))\n }\n\n /**\n * Check if a value implements the `Mark` interface.\n */\n\n export const isMark = (value: any): value is Mark => {\n return isPlainObject(value)\n }\n\n /**\n * Check if a value is an array of `Mark` objects.\n */\n\n export const isMarkSet = (value: any): value is Mark[] => {\n return Array.isArray(value) && (value.length === 0 || Mark.isMark(value[0]))\n }\n\n /**\n * Check if a mark matches set of properties.\n */\n\n export const matches = (mark: Mark, props: Partial<Mark>): boolean => {\n for (const key in props) {\n if (mark[key] !== props[key]) {\n return false\n }\n }\n\n return true\n }\n}\n\nexport { Mark, MarkEntry }\n","import { produce } from 'immer'\nimport {\n Element,\n ElementEntry,\n Fragment,\n MarkEntry,\n Path,\n Range,\n Text,\n TextEntry,\n Value,\n} from '..'\n\n/**\n * The `Node` union type represents all of the different types of nodes that\n * occur in a Slate document tree.\n */\n\ntype Node = Value | Element | Text\n\n/**\n * The `Descendant` union type represents nodes that are descendants in the\n * tree. It is returned as a convenience in certain cases to narrow a value\n * further than the more generic `Node` union.\n */\n\ntype Descendant = Element | Text\n\n/**\n * The `Ancestor` union type represents nodes that are ancestors in the tree.\n * It is returned as a convenience in certain cases to narrow a value further\n * than the more generic `Node` union.\n */\n\ntype Ancestor = Value | Element\n\n/**\n * `NodeEntry` objects are returned when iterating over the nodes in a Slate\n * document tree. They consist of the node and its `Path` relative to the root\n * node in the document.\n */\n\ntype NodeEntry = [Node, Path]\n\n/**\n * `DescendantEntry` objects are returned when iterating over the descendants in\n * a Slate document tree.\n */\n\ntype DescendantEntry = [Descendant, Path]\n\n/**\n * `AncestorEntry` objects are returned when iterating over the ancestors in a\n * Slate document tree.\n */\n\ntype AncestorEntry = [Ancestor, Path]\n\nnamespace Node {\n export const matches = (node: Node, props: Partial<Node>): boolean => {\n return (\n (Value.isValue(node) && Value.matches(node, props)) ||\n (Element.isElement(node) && Element.matches(node, props)) ||\n (Text.isText(node) && Text.matches(node, props))\n)\n }\n\n /**\n * Get the node at a specific path, asserting that it's an ancestor node.\n */\n\n export const ancestor = (root: Node, path: Path): Ancestor => {\n const node = Node.get(root, path)\n\n if (Text.isText(node)) {\n throw new Error(\n `Cannot get the ancestor node at path [${path}] because it refers to a text node instead: ${node}`\n)\n }\n\n return node\n }\n\n /**\n * Return an iterable of all the ancestor nodes above a specific path.\n *\n

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* By default the order is bottom-up, from lowest to highest ancestor in\n   * the tree, but you can pass the `reverse: true` option to go top-down.\n   */\n\n  export function* ancestors(\n    root: Node,\n    path: Path,\n    options: {\n  reverse?: boolean\n    } = {}\n  ): Iterable<AncestorEntry> {\n    for (const p of Path.ancestors(path, options)) {\n  const n = Node.ancestor(root, p)\n      const entry: AncestorEntry = [n, p]\n      yield entry\n    }\n  }\n\n  /**\n   * Get the child of a node at a specific index.\n   */\n\n  export const child = (root: Node, index: number): Descendant => {\n    if (Text.isText(root)) {\n      throw new Error(\n        `Cannot get the child of a text node: ${JSON.stringify(root)}`\n      )\n    }\n\n    const c = root.nodes[index] as Descendant\n\n    if (c == null) {\n  throw new Error(\n        `Cannot get child at index \\`${index}\\` in node: ${JSON.stringify(\n          root\n        )}`\n      )\n    }\n\n    return c\n  }\n\n  /**\n   * Find the closest matching node entry starting from a specific path.\n   */\n\n  export const closest = (\n    root: Node,\n    path: Path,\n    predicate: (entry: NodeEntry) => boolean\n  ): NodeEntry | undefined => {\n    for (const entry of Node.levels(root, path, { reverse: true })) {\n      if (predicate(entry)) {\n  return entry\n      }\n    }\n  }\n\n  /**\n   * Get an entry for the common ancesetor node of two paths.\n   */\n\n  export const common = (root: Node, path: Path, another: Path): NodeEntry => {\n    const p = Path.common(path, another)\n    const n = Node.get(root, p)\n    return [n, p]\n  }\n\n  /**\n   * Get the node at a specific path, asserting that it's a descendant node.\n   */\n\n  export const descendant = (root: Node, path: Path): Descendant => {\n    const node = Node.get(root, path)\n\n    if (Value.isValue(node)) {\n      throw new Error(\n        `Cannot get the descendant node at path [${path}] because it refers to a value node instead: ${node}`\n      )\n    }\n\n    return node\n  }\n\n  /**\n   * Return an iterable of all the descendant node entries inside a root node.\n   */\n\n  export function* descendants(\n    root: Node,\n    options: {\n      from?: Path\n      to?: Path\n      reverse?: boolean\n      pass?: (node: NodeEntry) => boolean\n    } = {}\n  ): Iterable<DescendantEntry> {\n    for (const [node, path] of Node.nodes(root, options)) {\n      if (path.length !== 0) {\n        // NOTE: we have to coerce here because checking the path's length does\n        // guarantee that `node` is not a `Value`, but TypeScript doesn't know.\n        yield [node, path] as DescendantEntry\n      }\n    }\n  }\n\n  /**\n   * Return an iterable of all the element nodes inside a root node. Each iteration\n   * will return an `ElementEntry` tuple consisting of `[Element, Path]`. If the\n   * root node is an element it will be included in the iteration as well.\n   */\n\n  export function* elements(\n    root: Node,\n    options: {\n      from?: Path\n      to?: Path\n      reverse?: boolean\n      pass?: (node: NodeEntry) => boolean\n    } = {}\n  ): Iterable<ElementEntry> {\n    for (const [node, path] of Node.nodes(root, options)) {\n      if (Element.isElement(node)) {\n        yield [node, path]\n      }\n    }\n  }\n\n  /**\n   * Get the first node entry in a root node from a path.\n   */\n\n  export const first = (root: Node, path: Path): NodeEntry => {\n    const p = path.slice()\n    let n = Node.get(root, p)\n\n    while (n) {\n      if (Text.isText(n) || n.nodes.length === 0) {\n        break\n      } else {\n        n = n.nodes[0]\n        p.push(0)\n      }\n    }\n\n    return [n, p]\n  }\n\n  /**\n   * Get the sliced fragment represented by a range inside a root node.\n   */\n\n  export const fragment = (root: Node, range: Range): Fragment => {\n    if (Text.isText(root)) {\n      throw new Error(\n        `Cannot get a fragment starting from a root text node: ${JSON.stringify(\n          root\n        )}`\n      )\n    }\n\n    return produce(root, r => {\n      const [start, end] = Range.edges(range)\n      const iterable = Node.nodes(r, {\n        reverse: true,\n        pass: ([, path]) => !Range.includes(range, path),\n      })\n\n      for (const [, path] of iterable) {\n        if (!Range.includes(range, path)) {\n          const parent = Node.parent(r, path)\n          const index = path[path.length - 1]\n          parent.nodes.splice(index, 1)\n        }\n\n        if (Path.equals(path, end.path)) {\n          const leaf = Node.leaf(r, path)\n          leaf.text = leaf.text.slice(0, end.offset)\n        }\n\n        if (Path.equals(path, start.path)) {\n          const leaf = Node.leaf(r, path)\n          leaf.text = leaf.text.slice(start.offset)\n        }\n      }\n\n      delete r.annotations\n      delete r.selection\n    })\n  }\n\n  /**\n   * Find the furthest matching node entry starting from a specific path.\n   */\n\n  export const furthest = (\n    root: Node,\n    path: Path,\n    predicate: (entry: NodeEntry) => boolean\n  ): NodeEntry | undefined => {\n    for (const entry of Node.levels(root, path)) {\n      if (predicate(entry)) {\n  return entry\n      }\n    }\n  }\n\n  /**\n   * Get the descendant node referred to by a specific path. If the path is an\n   * empty array, it refers to the root node itself.\n   */\n\n  export const get = (root: Node, path: Path): Node => {\n    let node = root\n\n    for (let i = 0; i < path.length; i++) {\n      const p = path[i]\n\n      if (Text.isText(node) || !node.nodes[p]) {\n        throw new Error(\n          `Cannot find a descendant at path [${path}] in node: ${JSON.stringify(\n            root\n          )}`\n        )\n      }\n\n      node = node.nodes[p]\n    }\n\n    return node\n
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}\n\n  /**\n   * Check if a descendant node exists at a specific path.\n   */\n\n  export const has = (root: Node, path: Path): boolean => {\n    let node = root\n\n    for (let i = 0; i < path.length; i++) {\n      const p = path[i]\n\n      if (Text.isText(node) || !node.nodes[p]) {\n        return false\n      }\n\n      node = node.nodes[p]\n    }\n\n    return true\n  }\n\n  /**\n   * Check if a value implements the `Node` interface.\n   */\n\n  export const isNode = (value: any): value is Node => {\n    return (\n      Text.isText(value) || Element.isElement(value) || Value.isValue(value)\n    )\n  }\n\n  /**\n   * Check if a value is a list of `Node` objects.\n   */\n\n  export const isNodeList = (value: any): value is Node[] => {\n    return Array.isArray(value) && (value.length === 0 || Node.isNode(value[0]))\n  }\n\n  /**\n   * Get the lash node entry in a root node from a path.\n   */\n\n  export const last = (root: Node, path: Path): NodeEntry => {\n    const p = path.slice()\n    let n = Node.get(root, p)\n\n    while (n) {\n      if (Text.isText(n) || n.nodes.length === 0) {\n        break\n      } else {\n        const i = n.nodes.length - 1\n        n = n.nodes[i]\n        p.push(i)\n      }\n    }\n\n    return [n, p]\n  }\n\n  /**\n   * Get the node at a specific path, ensuring it's a leaf text node.\n   */\n\n  export const leaf = (root: Node, path: Path): Text => {\n    const node = Node.get(root, path)\n\n    if (!Text.isText(node)) {\n      throw new Error(\n        `Cannot get the leaf node at path [${path}] because it refers to a non-leaf node: ${node}`\n      )\n    }\n\n    return node\n  }\n\n  /**\n   * Return an iterable of the in a branch of the tree, from a specific path.\n   *\n   * By default the order is bottom-up, from lowest to highest node in the\n   * tree, but you can pass the `reverse: true` option to go top-down.\n   */\n\n  export function* levels(\n    root: Node,\n    path: Path,\n    options: {\n      reverse?: boolean\n    } = {}\n  ): Iterable<NodeEntry> {\n    for (const p of Path.levels(path, options)) {\n      const n = Node.get(root, p)\n      yield [n, p]\n    }\n  }\n\n  /**\n   * Return an iterable of all the marks in all of the text nodes in a root node.\n   */\n\n  export function* marks(\n    root: Node,\n    options: {\n      from?: Path\n      to?: Path\n      reverse?: boolean\n      pass?: (node: NodeEntry) => boolean\n    } = {}\n  ): Iterable<MarkEntry> {\n    for (const [node, path] of Node.texts(root, options)) {\n      for (let i = 0; i < node.marks.length; i++) {\n        const mark = node.marks[i]\n        yield [mark, i, node, path]\n      }\n    }\n  }\n\n  /**\n   * Return an iterable of all the node entries of a root node. Each entry is\n   * returned as a `[Node, Path]` tuple, with the path referring to the node's\n   * position inside the root node.\n   */\n\n  export function* nodes(\n    root: Node,\n    options: {\n      from?: Path\n      to?: Path\n      reverse?: boolean\n      pass?: (entry: NodeEntry) => boolean\n    } = {}\n  ): Iterable<NodeEntry> {\n    const { pass, reverse = false } = options\n    const { from = [], to } = options\n    const visited = new Set()\n    let p: Path = []\n    let n = root\n\n    while (true) {\n      if (to && (reverse ? Path.isBefore(p, to) : Path.isAfter(p, to))) {\n        break\n      }\n\n      if (!visited.has(n)) {\n        yield [n, p]\n      }\n\n      // If we're allowed to go downward and we haven't decsended yet, do.\n      if (\n        !visited.has(n) &&\n        !Text.isText(n) &&\n        n.nodes.length !== 0 &&\n        (pass == null || pass([n, p]) === false)\n      ) {\n        visited.add(n)\n        let nextIndex = reverse ? n.nodes.length - 1 : 0\n\n        if (Path.isAncestor(p, from)) {\n          nextIndex = from[p.length]\n        }\n\n        p = p.concat(nextIndex)\n        n = Node.get(root, p)\n        continue\n      }\n\n      // If we're at the root and we can't go down, we're done.\n      if (p.length === 0) {\n        break\n      }\n\n      // If we're going forward...\n      if (!reverse) {\n        const newPath = Path.next(p)\n\n        if (Node.has(root, newPath)) {\n          p = newPath\n          n = Node.get(root, p)\n          continue\n        }\n      }\n\n      // If we're going backward...\n      if (reverse && p[p.length - 1] !== 0) {\n        const newPath = Path.previous(p)\n        p = newPath\n        n = Node.get(root, p)\n        continue\n      }\n\n      // Otherwise we're going upward...\n      p = Path.parent(p)\n      n = Node.get(root, p)\n      visited.add(n)\n    }\n  }\n\n  /**\n   * Get the parent of a node at a specific path.\n   */\n\n  export const parent = (root: Node, path: Path): Ancestor => {\n    const parentPath = Path.parent(path)\n    const parent = Node.get(root, parentPath)\n\n    if (Text.isText(parent)) {\n      throw new Error(\n        `Cannot get the parent of path [${path}] because it does not exist in the root.`\n      )\n    }\n\n    return parent\n  }\n\n  /**\n   * Get the concatenated text string of a node's content.\n   *\n   * Note that this will not include spaces or line breaks between block nodes.\n   * It is not a user-facing string, but a string for performing offset-related\n   * computations for a node.\n   */\n\n  export const text = (node: Node): string => {\n    if (Text.isText(node)) {\n      return node.text\n    } else {\n      return node.nodes.map(Node.text).join('')\n    }\n  }\n\n  /**\n   * Return an iterable of all leaf text nodes in a root node.\n   */\n\n  export function* texts(\n    root: Node,\n    options: {\n      from?: Path\n      to?: Path\n      reverse?: boolean\n      pass?: (node: NodeEntry) => boolean\n    } = {}\n  ): Iterable<TextEntry> {\n    for (const [node, path] of Node.nodes(root, options)) {\n      if (Text.isText(node))
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{\n yield [node, path]\n }\n }\n }\n}\n\nexport { Ancestor, AncestorEntry, Descendant, DescendantEntry, Node, NodeEntry }\n","import { Mark, Node, Path, Range, Value } from '..'\nimport isPlainObject from 'is-plain-object'\n\ntype AddAnnotationOperation = {\n type: 'add_annotation'\n key: string\n annotation: Range\n [key: string]: any\n}\n\ntype AddMarkOperation = {\n type: 'add_mark'\n path: Path\n mark: Mark\n [key: string]: any\n}\n\ntype InsertNodeOperation = {\n type: 'insert_node'\n path: Path\n node: Node\n [key: string]: any\n}\n\ntype InsertTextOperation = {\n type: 'insert_text'\n path: Path\n offset: number\n text: string\n [key: string]: any\n}\n\ntype MergeNodeOperation = {\n type: 'merge_node'\n path: Path\n position: number\n target: number | null\n properties: Partial<Node>\n [key: string]: any\n}\n\ntype MoveNodeOperation = {\n type: 'move_node'\n path: Path\n newPath: Path\n [key: string]: any\n}\n\ntype RemoveAnnotationOperation = {\n type: 'remove_annotation'\n key: string\n annotation: Range\n [key: string]: any\n}\n\ntype RemoveMarkOperation = {\n type: 'remove_mark'\n path: Path\n mark: Mark\n [key: string]: any\n}\n\ntype RemoveNodeOperation = {\n type: 'remove_node'\n path: Path\n node: Node\n [key: string]: any\n}\n\ntype RemoveTextOperation = {\n type: 'remove_text'\n path: Path\n offset: number\n text: string\n [key: string]: any\n}\n\ntype SetAnnotationOperation = {\n type: 'set_annotation'\n key: string\n properties: Partial<Range>\n newProperties: Partial<Range>\n [key: string]: any\n}\n\ntype SetMarkOperation = {\n type: 'set_mark'\n path: Path\n properties: Partial<Mark>\n newProperties: Partial<Mark>\n [key: string]: any\n}\n\ntype SetNodeOperation = {\n type: 'set_node'\n path: Path\n properties: Partial<Node>\n newProperties: Partial<Node>\n [key: string]: any\n}\n\ntype SetSelectionOperation =\n | {\n type: 'set_selection'\n [key: string]: any\n properties: null\n newProperties: Range\n }\n | {\n type: 'set_selection'\n [key: string]: any\n properties: Partial<Range>\n newProperties: Partial<Range>\n }\n | {\n type: 'set_selection'\n [key: string]: any\n properties: Range\n newProperties: null\n }\n\ntype SetValueOperation = {\n type: 'set_value'\n properties: Partial<Value>\n newProperties: Partial<Value>\n [key: string]: any\n}\n\ntype SplitNodeOperation = {\n type: 'split_node'\n path: Path\n position: number\n target: number | null\n properties: Partial<Node>\n [key: string]: any\n}\n\n/**\n * `Operation` objects define the low-level instructions that Slate editors use\n * to apply changes to their internal state. Representing all changes as\n * operations is what allows Slate editors to easily implement history,\n * collaboration, and other features.\n */\n\ntype Operation =\n | AnnotationOperation\n | NodeOperation\n | MarkOperation\n | SelectionOperation\n | TextOperation\n | ValueOperation\n\ntype AnnotationOperation =\n | AddAnnotationOperation\n | RemoveAnnotationOperation\n | SetAnnotationOperation\n\ntype NodeOperation =\n | InsertNodeOperation\n | MergeNodeOperation\n | MoveNodeOperation\n | RemoveNodeOperation\n | SetNodeOperation\n | SplitNodeOperation\n\ntype MarkOperation = AddMarkOperation | RemoveMarkOperation | SetMarkOperation\n\ntype SelectionOperation = SetSelectionOperation\n\ntype TextOperation = InsertTextOperation | RemoveTextOperation\n\ntype ValueOperation = SetValueOperation\n\nnamespace Operation {\n /**\n * Check of a value is an `AnnotationOperation` object.\n */\n\n export const isAnnotationOperation = (\n value: any\n): value is AnnotationOperation => {\n return Operation.isOperation(value) && value.type.endsWith('_annotation')\n }\n\n /**\n * Check of a value is a `NodeOperation` object.\n */\n\n export const isNodeOperation = (value: any): value is NodeOperation => {\n return Operation.isOperation(value) && value.type.endsWith('_node')\n }\n\n /**\n * Check of a value is a `MarkOperation` object.\n */\n\n export const isMarkOperation = (value: any): value is MarkOperation => {\n return Operation.isOperation(value) && value.type.endsWith('_mark')\n }\n\n /**\n * Check of a value is an `Operation` object.\n */\n\n export const isOperation = (value: any): value is Operation => {\n if (!isPlainObject(value)) {\n return false\n }\n\n switch (value.type) {\n case 'add_mark': {\n return Path.isPath(value.path) && Mark.isMark(value.mark)\n }\n\n case 'add_annotation': {\n return typeof value.key === 'string' && Range.isRange(value.annotation)\n }\n\n case 'insert_node': {\n return Path.isPath(value.path) && Node.isNode(value.node)\n }\n\n case 'insert_text': {\n return (\n typeof value.offset === 'number' &&\n typeof value.text === 'string' &&\n Path.isPath(value.path)\n)\n }\n\n case 'merge_node': {\n return (\n typeof value.position === 'number' &&\n (typeof value.target === 'number' || value.target === null) &&\n Path.isPath(value.path) &&\n isPlainObject(value.properties)\n)\n }\n\n case 'move_node': {\n

return Path.isPath(value.path) && Path.isPath(value.newPath)\n }\n\n case 'remove_annotation': {\n return typeof value.key === 'string' && Range.isRange(value.annotation)\n }\n\n case 'remove_mark': {\n return Path.isPath(value.path) && Mark.isMark(value.mark)\n }\n\n case 'remove_node': {\n return Path.isPath(value.path) && Node.isNode(value.node)\n }\n\n case 'remove_text': {\n return (\n typeof value.offset === 'number' &&\n typeof value.text === 'string' &&\n Path.isPath(value.path)\n)\n }\n\n case 'set_annotation': {\n return (\n typeof value.key === 'string' &&\n isPlainObject(value.properties) &&\n isPlainObject(value.newProperties)\n)\n }\n\n case 'set_mark': {\n return (\n Path.isPath(value.path) &&\n isPlainObject(value.properties) &&\n isPlainObject(value.newProperties)\n)\n }\n\n case 'set_node': {\n return (\n Path.isPath(value.path) &&\n isPlainObject(value.properties) &&\n isPlainObject(value.newProperties)\n)\n }\n\n case 'set_selection': {\n return (\n isPlainObject(value.properties) && isPlainObject(value.newProperties)\n)\n }\n\n case 'set_value': {\n return (\n isPlainObject(value.properties) && isPlainObject(value.newProperties)\n)\n }\n\n case 'split_node': {\n return (\n Path.isPath(value.path) &&\n typeof value.position === 'number' &&\n (typeof value.target === 'number' || value.target === null) &&\n isPlainObject(value.properties)\n)\n }\n\n default: {\n return false\n }\n }\n}\n\n/**\n * Check if a value is a list of `Operation` objects.\n */\n\nexport const isOperationList = (value: any): value is Operation[] => {\n return (\n Array.isArray(value) &&\n (value.length === 0 || Operation.isOperation(value[0]))\n)\n}\n\n/**\n * Check of a value is a `SelectionOperation` object.\n */\n\nexport const isSelectionOperation = (\n value: any\n): value is SelectionOperation => {\n return Operation.isOperation(value) && value.type.endsWith('_selection')\n}\n\n/**\n * Check of a value is a `TextOperation` object.\n */\n\nexport const isTextOperation = (value: any): value is TextOperation => {\n return Operation.isOperation(value) && value.type.endsWith('_text')\n}\n\n/**\n * Check of a value is a `ValueOperation` object.\n */\n\nexport const isValueOperation = (value: any): value is ValueOperation => {\n return Operation.isOperation(value) && value.type.endsWith('_value')\n}\n\n/**\n * Invert an operation, returning a new operation that will exactly undo the\n * original when applied.\n */\n\nexport const inverse = (op: Operation): Operation => {\n switch (op.type) {\n case 'add_annotation': {\n return { ...op, type: 'remove_annotation' }\n }\n\n case 'add_mark': {\n return { ...op, type: 'remove_mark' }\n }\n\n case 'insert_node': {\n return { ...op, type: 'remove_node' }\n }\n\n case 'insert_text': {\n return { ...op, type: 'remove_text' }\n }\n\n case 'merge_node': {\n return { ...op, type: 'split_node', path: Path.previous(op.path) }\n }\n\n case 'move_node': {\n const { newPath, path } = op\n\n // PERF: in this case the move operation is a no-op anyways.\n if (Path.equals(newPath, path)) {\n return op\n }\n\n // We need to get the original path here, but sometimes the `newPath`\n // is a younger sibling of (or ends before) the original, and this\n // accounts for it.\n const inversePath = Path.transform(path, op)!\n const inverseNewPath = Path.transform(Path.next(path), op)!\n return { ...op, path: inversePath, newPath: inverseNewPath }\n }\n\n case 'remove_annotation': {\n return { ...op, type: 'add_annotation' }\n }\n\n case 'remove_mark': {\n return { ...op, type: 'add_mark' }\n }\n\n case 'remove_node': {\n return { ...op, type: 'insert_node' }\n }\n\n case 'remove_text': {\n return { ...op, type: 'insert_text' }\n }\n\n case 'set_annotation':\n case 'set_mark':\n case 'set_node':\n case 'set_value': {\n const { properties, newProperties } = op\n return { ...op, properties: newProperties, newProperties: properties }\n }\n\n case 'set_selection': {\n const { properties, newProperties } = op\n\n if (properties == null) {\n return {\n ...op,\n properties: newProperties as Range,\n newProperties: null,\n }\n } else if (newProperties == null) {\n return {\n ...op,\n properties: null,\n newProperties: properties as Range,\n }\n } else {\n return { ...op, properties: newProperties, newProperties: properties }\n }\n }\n\n case 'split_node': {\n return { ...op, type: 'merge_node', path: Path.next(op.path) }\n }\n }\n}\n\nexport {\n AddMarkOperation,\n AddAnnotationOperation,\n InsertNodeOperation,\n InsertTextOperation,\n MergeNodeOperation,\n MoveNodeOperation,\n RemoveAnnotationOperation,\n RemoveMarkOperation,\n RemoveNodeOperation,\n RemoveTextOperation,\n SetAnnotationOperation,\n SetMarkOperation,\n SetNodeOperation,\n SetSelectionOperation,\n SetValueOperation,\n SplitNodeOperation,\n

Operation,\n}\n","import { produce } from 'immer'\nimport { Operation } from '..'\n\n/**\n * `Path` arrays are a list of indexes that describe a node's exact position in\n * a Slate node tree. Although they are usually relative to the root `Value`\n * object, they can be relative to any `Node` object.\n */\n\ntype Path = number[]\n\nnamespace Path {\n /**\n * Get a list of ancestor paths for a given path.\n *\n * The paths are sorted from deepest to shallowest ancestor. However, if the\n * `reverse: true` option is passed, they are reversed.\n */\n\n export const ancestors = (\n path: Path,\n options: { reverse?: boolean } = {}\n): Path[] => {\n const { reverse = false } = options\n let paths = Path.levels(path, options)\n\n if (reverse) {\n paths = paths.slice(1)\n } else {\n paths = paths.slice(0, -1)\n }\n\n return paths\n }\n\n /**\n * Get the common ancestor path of two paths.\n */\n\n export const common = (path: Path, another: Path): Path => {\n const common: Path = []\n\n for (let i = 0; i < path.length && i < another.length; i++) {\n const av = path[i]\n const bv = another[i]\n\n if (av !== bv) {\n break\n }\n\n common.push(av)\n }\n\n return common\n }\n\n /**\n * Compare a path to another, returning an integer indicating whether the path\n * was before, at, or after the other.\n *\n * Note: Two paths of unequal length can still receive a `0` result if one is\n * directly above or below the other. If you want exact matching, use\n * [[Path.equals]] instead.\n */\n\n export const compare = (path: Path, another: Path): -1 | 0 | 1 => {\n const min = Math.min(path.length, another.length)\n\n for (let i = 0; i < min; i++) {\n if (path[i] < another[i]) return -1\n if (path[i] > another[i]) return 1\n }\n\n return 0\n }\n\n /**\n * Check if a path ends after one of the indexes in another.\n */\n\n export const endsAfter = (path: Path, another: Path): boolean => {\n const i = path.length - 1\n const as = path.slice(0, i)\n const bs = another.slice(0, i)\n const av = path[i]\n const bv = another[i]\n return Path.equals(as, bs) && av > bv\n }\n\n /**\n * Check if a path ends at one of the indexes in another.\n */\n\n export const endsAt = (path: Path, another: Path): boolean => {\n const i = path.length\n const as = path.slice(0, i)\n const bs = another.slice(0, i)\n return Path.equals(as, bs)\n }\n\n /**\n * Check if a path ends before one of the indexes in another.\n */\n\n export const endsBefore = (path: Path, another: Path): boolean => {\n const i = path.length - 1\n const as = path.slice(0, i)\n const bs = another.slice(0, i)\n const av = path[i]\n const bv = another[i]\n return Path.equals(as, bs) && av < bv\n }\n\n /**\n * Check if a path is exactly equal to another.\n */\n\n export const equals = (path: Path, another: Path): boolean => {\n return (\n path.length === another.length && path.every((n, i) => n === another[i])\n)\n }\n\n /**\n * Check if a path is after another.\n */\n\n export const isAfter = (path: Path, another: Path): boolean => {\n return Path.compare(path, another) === 1\n }\n\n /**\n * Check if a path is an ancestor of another.\n */\n\n export const isAncestor = (path: Path, another: Path): boolean => {\n return path.length < another.length && Path.compare(path, another) === 0\n }\n\n /**\n * Check if a path is before another.\n */\n\n export const isBefore = (path: Path, another: Path): boolean => {\n return Path.compare(path, another) === -1\n }\n\n /**\n * Check if a path is a child of another.\n */\n\n export const isChild = (path: Path, another: Path): boolean => {\n return (\n path.length === another.length + 1 && Path.compare(path, another) === 0\n)\n }\n\n /**\n * Check if a path is equal to or an ancestor of another.\n */\n\n export const isCommon = (path: Path, another: Path): boolean => {\n return path.length <= another.length && Path.compare(path, another) === 0\n }\n\n /**\n * Check if a path is a descendant of another.\n */\n\n export const isDescendant = (path: Path, another: Path): boolean => {\n return path.length > another.length && Path.compare(path, another) === 0\n }\n\n /**\n * Check if a path is the parent of another.\n */\n\n export const isParent = (path: Path, another: Path): boolean => {\n return (\n path.length + 1 === another.length && Path.compare(path, another) === 0\n)\n }\n\n /**\n * Check is a value implements the `Path` interface.\n */\n\n export const isPath = (value: any): value is Path => {\n return (\n Array.isArray(value) &&\n (value.length === 0 || typeof value[0] === 'number')\n)\n }\n\n /**\n * Check if a path is a sibling of another.\n */\n\n export const isSibling = (path: Path, another: Path): boolean => {\n if (path.length !== another.length) {\n return false\n }\n\n const as = path.slice(0, -1)\n const bs = another.slice(0, -1)\n const al = path[path.length - 1]\n const bl = another[another.length - 1]\n return al !== bl && Path.equals(as, bs)\n }\n\n /**\n * Get a list of paths at every level down to a path. Note: this is the same\n * as `Path.ancestors`, but including the path itself.\n *\n * The paths are sorted from deepest to shallowest. However, if the\n * `reverse: true` option is passed, they are reversed.\n */\n\n export const levels = (\n path: Path,\n options: {\n reverse?: boolean\n } = {}\n): Path[] => {\n const { reverse = false } = options\n

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const list: Path[] = []\n\n  for (let i = 0; i <= path.length; i++) {\n    list.push(path.slice(0, i))\n  }\n\n  if (reverse) {\n    list.reverse()\n  }\n\n  return list\n}\n\n/**\n * Given a path, get the path to the next sibling node.\n */\n\nexport const next = (path: Path): Path => {\n  if (path.length === 0) {\n    throw new Error(\n      `Cannot get the next path of a root path [${path}], because it has no next index.`\n    )\n  }\n\n  const last = path[path.length - 1]\n  return path.slice(0, -1).concat(last + 1)\n}\n\n/**\n * Given a path, return a new path referring to the parent node above it.\n */\n\nexport const parent = (path: Path): Path => {\n  if (path.length === 0) {\n    throw new Error(`Cannot get the parent path of the root path [${path}].`)\n  }\n\n  return path.slice(0, -1)\n}\n\n/**\n * Given a path, get the path to the previous sibling node.\n */\n\nexport const previous = (path: Path): Path => {\n  if (path.length === 0) {\n    throw new Error(\n      `Cannot get the previous path of a root path [${path}], because it has no previous index.`\n    )\n  }\n\n  const last = path[path.length - 1]\n\n  if (last <= 0) {\n    throw new Error(\n      `Cannot get the previous path of a first child path [${path}] because it would result in a negative index.`\n    )\n  }\n\n  return path.slice(0, -1).concat(last - 1)\n}\n\n/**\n * Get a path relative to an ancestor.\n */\n\nexport const relative = (path: Path, ancestor: Path): Path => {\n  if (!Path.isAncestor(ancestor, path) && !Path.equals(path, ancestor)) {\n    throw new Error(\n      `Cannot get the relative path of [${path}] inside ancestor [${ancestor}], because it is not above or equal to the path.`\n    )\n  }\n\n  return path.slice(ancestor.length)\n}\n\n/**\n * Transform a path by an operation.\n */\n\nexport const transform = (\n  path: Path,\n  operation: Operation,\n  options: { affinity?: 'forward' | 'backward' | null } = {}\n): Path | null => {\n  return produce(path, p => {\n    const { affinity = 'forward' } = options\n\n    // PERF: Exit early if the operation is guaranteed not to have an effect.\n    if (path.length === 0) {\n      return\n    }\n\n    switch (operation.type) {\n      case 'insert_node': {\n        const { path: op } = operation\n\n        if (\n          Path.equals(op, p) ||\n          Path.endsBefore(op, p) ||\n          Path.isAncestor(op, p)\n        ) {\n          p[op.length - 1] += 1\n        }\n\n        break\n      }\n\n      case 'remove_node': {\n        const { path: op } = operation\n\n        if (Path.equals(op, p) || Path.isAncestor(op, p)) {\n          return null\n        } else if (Path.endsBefore(op, p)) {\n          p[op.length - 1] -= 1\n        }\n\n        break\n      }\n\n      case 'merge_node': {\n        const { path: op, position } = operation\n\n        if (Path.equals(op, p) || Path.endsBefore(op, p)) {\n          p[op.length - 1] -= 1\n        } else if (Path.isAncestor(op, p)) {\n          p[op.length - 1] -= 1\n          p[op.length] += position\n        }\n\n        break\n      }\n\n      case 'split_node': {\n        const { path: op, position } = operation\n\n        if (Path.equals(op, p)) {\n          if (affinity === 'forward') {\n            p[p.length - 1] += 1\n          } else if (affinity === 'backward') {\n            // Nothing, because it still refers to the right path.\n          } else {\n            return null\n          }\n        } else if (Path.endsBefore(op, p)) {\n          p[op.length - 1] += 1\n        } else if (Path.isAncestor(op, p) && path[op.length] >= position) {\n          p[op.length - 1] += 1\n          p[op.length] -= position\n        }\n\n        break\n      }\n\n      case 'move_node': {\n        const { path: op, newPath: onp } = operation\n\n        // If the old and new path are the same, it's a no-op.\n        if (Path.equals(op, onp)) {\n          return\n        }\n\n        if (Path.isAncestor(op, p) || Path.equals(op, p)) {\n          let copy = onp.slice()\n\n          if (Path.endsBefore(op, onp) && op.length < onp.length) {\n            const i = Math.min(onp.length, op.length) - 1\n            copy[i] -= 1\n          }\n\n          return copy.concat(p.slice(op.length))\n        } else {\n          if (Path.endsBefore(op, p)) {\n            p[op.length - 1] -= 1\n          }\n\n          if (\n            Path.endsBefore(onp, p) ||\n            Path.equals(onp, p) ||\n            Path.isAncestor(onp, p)\n          ) {\n            p[onp.length - 1] += 1\n          }\n        }\n\n        break\n      }\n    }\n  })\n}\n\nexport { Path }\n","import isPlainObject from 'is-plain-object'\nimport { produce } from 'immer'\nimport { Operation, Path } from '..'\n\n/**\n * `Point` objects refer to a specific location in a text node in a Slate\n * document. Its path refers to the location of the node in the tree, and its\n * offset refers to the distance into the node's string of text. Points can\n * only refer to `Text` nodes.\n */\n\ninterface Point {\n  path: Path\n  offset: number\n  [key: string]: any\n}\n\n/**\n * `PointKey` is either an \"anchor\" or \"focus\" point string.\n */\n\ntype PointKey = 'anchor' | 'focus'\n\nnamespace Point {\n  /**\n   * Compare a point to another, returning an integer indicating whether the\n   * point was before, at, or after the other.\n   */\n\n  export const compare = (point: Point, another: Point): -1 | 0 | 1 => {\n    const result = Path.compare(point.path, another.path)\n\n    if (result === 0) {\n      if (point.offset < another.offset) return -1\n      if (point.offset > another.offset) return 1\n      return 0\n    }\n\n
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return result\n }\n\n /**\n   * Check if a point is after another.\n   */\n\n export const isAfter = (point: Point, another: Point): boolean => {\n   return Point.compare(point, another) === 1\n }\n\n /**\n   * Check if a point is before another.\n   */\n\n export const isBefore = (point: Point, another: Point): boolean => {\n   return Point.compare(point, another) === -1\n }\n\n /**\n   * Check if a point is exactly equal to another.\n   */\n\n export const equals = (point: Point, another: Point): boolean => {\n   // PERF: We could compare to a result of `0` here, but it's slightly faster\n   // to first ensure the offsets are equal and to use `Path.equals`.\n   return (\n   point.offset === another.offset && Path.equals(point.path, another.path)\n   )\n }\n\n /**\n   * Check if a value implements the `Point` interface.\n   */\n\n export const isPoint = (value: any): value is Point => {\n   return (\n   isPlainObject(value) &&\n   typeof value.offset === 'number' &&\n   Path.isPath(value.path)\n   )\n }\n\n /**\n   * Transform a point by an operation.\n   */\n\n export const transform = (\n   point: Point,\n   op: Operation,\n   options: { affinity?: 'forward' | 'backward' | null } = {}\n): Point | null => {\n   return produce(point, p => {\n   const { affinity = 'forward' } = options\n   const { path, offset } = p\n\n   switch (op.type) {\n   case 'insert_node':\n   case 'move_node': {\n   p.path = Path.transform(path, op, options)!\n   break\n   }\n\n   case 'insert_text': {\n   if (Path.equals(op.path, path) && op.offset <= offset) {\n   p.offset += op.text.length\n   }\n\n   break\n   }\n\n   case 'merge_node': {\n   if (Path.equals(op.path, path)) {\n   p.offset += op.position\n   }\n\n   p.path = Path.transform(path, op, options)!\n   break\n   }\n\n   case 'remove_text': {\n   if (Path.equals(op.path, path) && op.offset <= offset) {\n   p.offset -= Math.min(offset - op.offset, op.text.length)\n   }\n\n   break\n   }\n\n   case 'remove_node': {\n   if (Path.equals(op.path, path) || Path.isAncestor(op.path, path)) {\n   return null\n   }\n\n   p.path = Path.transform(path, op, options)!\n   break\n   }\n\n   case 'split_node': {\n   if (Path.equals(op.path, path)) {\n   if (op.position === offset && affinity == null) {\n   return null\n   } else if (\n   op.position < offset ||\n   (op.position === offset && affinity === 'forward')\n   ) {\n   p.offset -= op.position\n   p.path = Path.transform(path, op, {\n   ...options,\n   affinity: 'forward',\n   })!\n   }\n   } else {\n   p.path = Path.transform(path, op, options)!\n   }\n\n   break\n   }\n   }\n   })\n }\n}\n\nexport { Point, PointKey }\n","import { produce } from 'immer'\nimport isPlainObject from 'is-plain-object'\nimport { Operation, Path, Point } from '..'\n\n/**\n * `Range` objects are a set of points that refer to a specific span of a Slate\n * document. They can define a span inside a single node or a can span across\n * multiple nodes.\n */\n\ninterface Range {\n anchor: Point\n focus: Point\n [key: string]: any\n}\n\nnamespace Range {\n export const start = (range: Range): Point => {\n   const [start] = Range.edges(range)\n   return start\n }\n\n export const end = (range: Range): Point => {\n   const [, end] = Range.edges(range)\n   return end\n }\n\n export const intersection = (range: Range, another: Range): Range | null => {\n   const { anchor, focus, ...rest } = range\n   const [s1, e1] = Range.edges(range)\n   const [s2, e2] = Range.edges(another)\n   const start = Point.isBefore(s1, s2) ? s2 : s1\n   const end = Point.isBefore(e1, e2) ? e1 : e2\n\n   if (Point.isBefore(end, start)) {\n   return null\n   } else {\n   return { anchor: start, focus: end, ...rest }\n   }\n }\n\n /**\n   * Check if a range is exactly equal to another.\n   */\n\n export const equals = (range: Range, another: Range): boolean => {\n   return (\n   Point.equals(range.anchor, another.anchor) &&\n   Point.equals(range.focus, another.focus)\n   )\n }\n\n /**\n   * Check if a range exists in a list or map of ranges.\n   */\n\n export const exists = (\n   range: Range,\n   target: Range[] | Record<string, Range>\n): boolean => {\n   if (Range.isRangeList(target)) {\n   return !!target.find(r => Range.equals(r, range))\n   }\n\n   if (Range.isRangeMap(target)) {\n   for (const key in target) {\n   if (Range.equals(range, target[key])) {\n   return true\n   }\n   }\n   }\n\n   return false\n }\n\n /**\n   * Check if a range includes a path, a point or part of another range.\n   */\n\n export const includes = (\n   range: Range,\n   target: Path | Point | Range\n): boolean => {\n   if (Range.isRange(target)) {\n   if (\n   Range.includes(range, target.anchor) ||\n   Range.includes(range, target.focus)\n   ) {\n   return true\n   }\n\n   const [rs, re] = Range.edges(range)\n   const [ts, te] = Range.edges(target)\n   return Point.isBefore(rs, ts) && Point.isAfter(re, te)\n   }\n\n   const [start, end] = Range.edges(range)\n   let isAfterStart = false\n   let isBeforeEnd = false\n\n   if (Point.isPoint(target)) {\n   isAfterStart = Point.compare(target, start) >= 0\n   isBeforeEnd = Point.compare(target, end) <= 0\n   } else {\n   isAfterStart = Path.compare(target, start.path) >= 0\n   isBeforeEnd = Path.compare(target, end.path) <= 0\n   }\n\n   return isAfterStart && isBeforeEnd\n }\n\n

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/**\n   * Check if a range is backward, meaning that its anchor point appears in the\n   * document _after_ its focus point.\n   */\n\n  export const isBackward = (range: Range): boolean => {\n    const { anchor, focus } = range\n    return Point.isAfter(anchor, focus)\n  }\n\n  /**\n   * Check if a range is collapsed, meaning that both its anchor and focus\n   * points refer to the exact same position in the document.\n   */\n\n  export const isCollapsed = (range: Range): boolean => {\n    const { anchor, focus } = range\n    return Point.equals(anchor, focus)\n  }\n\n  /**\n   * Check if a range is expanded.\n   *\n   * This is the opposite of [[Range.isCollapsed]] and is provided for legibility.\n   */\n\n  export const isExpanded = (range: Range): boolean => {\n    return !isCollapsed(range)\n  }\n\n  /**\n   * Check if a range is forward.\n   *\n   * This is the opposite of [[Range.isBackward]] and is provided for legibility.\n   */\n\n  export const isForward = (range: Range): boolean => {\n    return !isBackward(range)\n  }\n\n  /**\n   * Check if a value implements the [[Range]] interface.\n   */\n\n  export const isRange = (value: any): value is Range => {\n    return (\n      isPlainObject(value) &&\n      Point.isPoint(value.anchor) &&\n      Point.isPoint(value.focus)\n    )\n  }\n\n  /**\n   * Check if a value is an array of `Range` objects.\n   */\n\n  export const isRangeList = (value: any): value is Range[] => {\n    return (\n      Array.isArray(value) && (value.length === 0 || Range.isRange(value[0]))\n    )\n  }\n\n  /**\n   * Check if a value is a map of `Range` objects.\n   */\n\n  export const isRangeMap = (value: any): value is Record<string, Range> => {\n    if (!isPlainObject(value)) {\n      return false\n    }\n\n    for (const key in value) {\n      return Range.isRange(value[key])\n    }\n\n    return true\n  }\n\n  /**\n   * Get the start and end points of a range, in the order in which they appear\n   * in the document.\n   */\n\n  export const edges = (\n    range: Range,\n    options: {\n      reverse?: boolean\n    } = {}\n  ): [Point, Point] => {\n    const { reverse = false } = options\n    const { anchor, focus } = range\n    return Range.isBackward(range) === reverse\n      ? [anchor, focus]\n      : [focus, anchor]\n  }\n\n  /**\n   * Transform a range by an operation.\n   */\n\n  export const transform = (\n    range: Range,\n    op: Operation,\n    options: { affinity: 'forward' | 'backward' | 'outward' | 'inward' | null }\n  ): Range | null => {\n    const { affinity = 'inward' } = options\n    let affinityAnchor: 'forward' | 'backward' | null\n    let affinityFocus: 'forward' | 'backward' | null\n\n    if (affinity === 'inward') {\n      if (Range.isForward(range)) {\n        affinityAnchor = 'forward'\n        affinityFocus = 'backward'\n      } else {\n        affinityAnchor = 'backward'\n        affinityFocus = 'forward'\n      }\n    } else if (affinity === 'outward') {\n      if (Range.isForward(range)) {\n        affinityAnchor = 'backward'\n        affinityFocus = 'forward'\n      } else {\n        affinityAnchor = 'forward'\n        affinityFocus = 'backward'\n      }\n    } else {\n      affinityAnchor = affinity\n      affinityFocus = affinity\n    }\n\n    return produce(range, r => {\n      const anchor = Point.transform(r.anchor, op, { affinity: affinityAnchor })\n      const focus = Point.transform(r.focus, op, { affinity: affinityFocus })\n\n      if (!anchor || !focus) {\n        return null\n      }\n\n      r.anchor = anchor\n      r.focus = focus\n    })\n  }\n}\n\nexport { Range }\n","import isPlainObject from 'is-plain-object'\nimport { Mark, Path } from '..'\n\n/**\n * `Text` objects represent the nodes that contain the actual text content of a\n * Slate document along with any formatting marks. They are always leaf nodes in\n * the document tree as they cannot contain any children.\n */\n\ninterface Text {\n  text: string\n  marks: Mark[]\n  [key: string]: any\n}\n\n/**\n * `TextEntry` objects refer to an `Text` and the `Path` where it can be\n * found inside a root node.\n */\n\ntype TextEntry = [Text, Path]\n\nnamespace Text {\n  /**\n   * Check if a value implements the `Text` interface.\n   */\n\n  export const isText = (value: any): value is Text => {\n    return (\n      isPlainObject(value) &&\n      typeof value.text === 'string' &&\n      Array.isArray(value.marks)\n    )\n  }\n\n  /**\n   * Check if a value is a list of `Text` objects.\n   */\n\n  export const isTextList = (value: any): value is Text[] => {\n    return Array.isArray(value) && (value.length === 0 || Text.isText(value[0]))\n  }\n\n  /**\n   * Check if an text matches set of properties.\n   *\n   * Note: this is for matching custom properties, and it does not ensure that\n   * the `text` property are two nodes equal. However, if `marks` are passed it\n   * will ensure that the set of marks is exactly equal.\n   */\n\n  export const matches = (text: Text, props: Partial<Text>): boolean => {\n    for (const key in props) {\n      if (key === 'text') {\n        continue\n      }\n\n      if (key === 'marks' && props.marks != null) {\n        const existing = text.marks\n        const { marks } = props\n\n        // PERF: If the lengths aren't the same, we know it's not a match.\n        if (existing.length !== marks.length) {\n          return false\n        }\n\n        for (const m of existing) {\n          if (!Mark.exists(m, marks)) {\n            return false\n          }\n        }\n\n        for (const m of marks) {\n          if (!Mark.exists(m, existing)) {\n            return false\n          }\n        }\n\n        continue\n      }\n\n      if (text[key] !== props[key]) {\n        return false\n      }\n    }\n\n    return true\n  }\n}\n\nexport { Text,
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TextEntry }\n","import isPlainObject from 'is-plain-object'\nimport { produce } from 'immer'\nimport {\n Element,\n Mark,\n Node,\n Operation,\n Path,\n Point,\n PointKey,\n Range,\n Descendant,\n Text,\n} from '..'\n\n/**\n * `Value` objects hold all of the state in a Slate editor, including all of the\n * nodes in the document and the user's currently selected range of text.\n */\n\ninterface Value extends Element {\n selection: Range | null\n annotations: Record<string, Range>\n [key: string]: any\n}\n\n/**\n * `ValueEntry` objects refer to an `Value` and the `Path` where it can be\n * found inside a root node.\n */\n\ntype ValueEntry = [Value, Path]\n\n/**\n * `AnnotationEntry` objects are returned when iterating over annotations\n * in the top-level value.\n */\n\ntype AnnotationEntry = [Range, string]\n\n/**\n * `AnnotationPointEntry` objects are returned when iterating over `Point`\n * objects that belong to an annotation.\n */\n\ntype AnnotationPointEntry = [Point, PointKey, Range, string]\n\n/**\n * `SelectionPointEntry` objects are returned when iterating over `Point`\n * objects that belong to a selection.\n */\n\ntype SelectionPointEntry = [Point, PointKey, Range]\n\nnamespace Value {\n /**\n * Check if a value implements the `Value` interface.\n */\n\n export const isValue = (value: any): value is Value => {\n return (\n isPlainObject(value) &&\n (value.selection === null || Range.isRange(value.selection)) &&\n Node.isNodeList(value.nodes) &&\n Range.isRangeMap(value.annotations)\n)\n }\n\n /**\n * Check if a value matches a set of properties.\n *\n * Note: the is for checking custom properties, and it does not ensure that\n * any children in the `nodes` property are equal.\n */\n\n export const matches = (value: Value, props: Partial<Value>): boolean => {\n for (const key in props) {\n if (key === 'annotations' || key === 'nodes' || key === 'selection') {\n continue\n }\n\n if (value[key] !== props[key]) {\n return false\n }\n }\n\n return true\n }\n\n /**\n * Iterate through all of the point objects in a value.\n */\n\n export function* points(\n value: Value\n): Iterable<SelectionPointEntry | AnnotationPointEntry> {\n const { selection, annotations } = value\n\n if (selection != null) {\n yield [selection.anchor, 'anchor', selection]\n yield [selection.focus, 'focus', selection]\n }\n\n for (const key in annotations) {\n const annotation = annotations[key]\n yield [annotation.anchor, 'anchor', annotation, key]\n yield [annotation.focus, 'focus', annotation, key]\n }\n }\n\n /**\n * Transform a value by an operation.\n */\n\n export const transform = (value: Value, op: Operation): Value => {\n return produce(value, v => {\n switch (op.type) {\n case 'add_annotation': {\n const { annotation, key } = op\n v.annotations[key] = annotation\n break\n }\n\n case 'add_mark': {\n const { path, mark } = op\n const node = Node.leaf(v, path)\n\n if (!Mark.exists(mark, node.marks)) {\n node.marks.push(mark)\n }\n\n break\n }\n\n case 'insert_node': {\n const { path, node } = op\n const parent = Node.parent(v, path)\n const index = path[path.length - 1]\n parent.nodes.splice(index, 0, node)\n\n for (const [point, key, range] of Value.points(v)) {\n range[key] = Point.transform(point, op)!\n }\n\n break\n }\n\n case 'insert_text': {\n const { path, offset, text } = op\n const node = Node.leaf(v, path)\n const before = node.text.slice(0, offset)\n const after = node.text.slice(offset)\n node.text = before + text + after\n\n for (const [point, key, range] of Value.points(v)) {\n range[key] = Point.transform(point, op)!\n }\n\n break\n }\n\n case 'merge_node': {\n const { path } = op\n const node = Node.get(v, path)\n const prevPath = Path.previous(path)\n const prev = Node.get(v, prevPath)\n const parent = Node.parent(v, path)\n const index = path[path.length - 1]\n\n if (Text.isText(node) && Text.isText(prev)) {\n prev.text += node.text\n } else if (!Text.isText(node) && !Text.isText(prev)) {\n prev.nodes.push(...node.nodes)\n } else {\n throw new Error(\n `Cannot apply a \"merge_node\" operation at path [${path}] to nodes of different interaces: ${node} ${prev}`\n)\n }\n\n parent.nodes.splice(index, 1)\n\n for (const [point, key, range] of Value.points(v)) {\n range[key] = Point.transform(point, op)!\n }\n\n break\n }\n\n case 'move_node': {\n const { path, newPath } = op\n\n if (Path.isAncestor(path, newPath)) {\n throw new Error(\n `Cannot move a path [${path}] to new path [${newPath}] because the destination is inside itself.`\n)\n }\n\n const node = Node.get(v, path)\n const parent = Node.parent(v, path)\n const index = path[path.length - 1]\n\n // This is tricky, but since the `path` and `newPath` both refer to\n // the same snapshot in time, there's a mismatch. After either\n // removing the original position, the second step's path can be out\n // of date. So instead of using the `op.newPath` directly, we\n // transform `op.path` to ascertain what the `newPath` would be after\n // the operation was

applied.\n parent.nodes.splice(index, 1)\n const truePath = Path.transform(path, op)!\n const newParent = Node.get(v, Path.parent(truePath))\n const newIndex = truePath[truePath.length - 1]\n\n newParent.nodes.splice(newIndex, 0, node)\n\n for (const [point, key, range] of Value.points(v)) {\n range[key] = Point.transform(point, op)!\n }\n\n break\n }\n\n case 'remove_annotation': {\n const { key } = op\n delete v.annotations[key]\n break\n }\n\n case 'remove_mark': {\n const { path, mark } = op\n const node = Node.leaf(v, path)\n\n for (let i = 0; i < node.marks.length; i++) {\n if (Mark.matches(node.marks[i], mark)) {\n node.marks.splice(i, 1)\n break\n }\n }\n\n break\n }\n\n case 'remove_node': {\n const { path } = op\n const index = path[path.length - 1]\n const parent = Node.parent(v, path)\n const [, prev] = Node.texts(v, { from: path, reverse: true })\n const [, next] = Node.texts(v, { from: path })\n parent.nodes.splice(index, 1)\n\n // Transform all of the points in the value, but if the point was in the\n // node that was removed we need to update the range or remove it.\n for (const [point, k, range, key] of Value.points(v)) {\n const result = Point.transform(point, op)\n\n if (result != null) {\n range[k] = result\n } else if (prev) {\n const [prevNode, prevPath] = prev\n point.path = prevPath\n point.offset = prevNode.text.length\n } else if (next) {\n const [, nextPath] = next\n const newNextPath = Path.transform(nextPath, op)!\n point.path = newNextPath\n point.offset = 0\n } else if (key != null) {\n delete v.annotations[key]\n } else {\n v.selection = null\n }\n }\n\n break\n }\n\n case 'remove_text': {\n const { path, offset, text } = op\n const node = Node.leaf(v, path)\n const before = node.text.slice(0, offset)\n const after = node.text.slice(offset + text.length)\n node.text = before + after\n\n for (const [point, key, range] of Value.points(v)) {\n range[key] = Point.transform(point, op)!\n }\n\n break\n }\n\n case 'set_annotation': {\n const { key, newProperties } = op\n const annotation = v.annotations[key]\n Object.assign(annotation, newProperties)\n break\n }\n\n case 'set_mark': {\n const { path, properties, newProperties } = op\n const node = Node.leaf(v, path)\n\n for (const mark of node.marks) {\n if (Mark.matches(mark, properties)) {\n Object.assign(mark, newProperties)\n break\n }\n }\n\n break\n }\n\n case 'set_node': {\n const { path, newProperties } = op\n const node = Node.get(v, path)\n Object.assign(node, newProperties)\n break\n }\n\n case 'set_selection': {\n const { newProperties } = op\n\n if (newProperties == null) {\n v.selection = newProperties\n } else if (v.selection == null) {\n if (!Range.isRange(newProperties)) {\n throw new Error(\n `Cannot apply an incomplete \"set_selection\" operation properties ${JSON.stringify(\n newProperties\n )} when there is no current selection.`\n)\n }\n\n v.selection = newProperties\n } else {\n Object.assign(v.selection, newProperties)\n }\n\n break\n }\n\n case 'set_value': {\n const { newProperties } = op\n Object.assign(v, newProperties)\n break\n }\n\n case 'split_node': {\n const { path, position, properties } = op\n\n if (path.length === 0) {\n throw new Error(\n `Cannot apply a \"split_node\" operation at path [${path}] because the top-level value cannot be split.`\n)\n }\n\n const node = Node.get(v, path)\n const parent = Node.parent(v, path)\n const index = path[path.length - 1]\n let newNode: Descendant\n\n if (Text.isText(node)) {\n const before = node.text.slice(0, position)\n const after = node.text.slice(position)\n node.text = before\n newNode = { ...node, ...(properties as Partial<Text>), text: after }\n } else {\n const before = node.nodes.slice(0, position)\n const after = node.nodes.slice(position)\n node.nodes = before\n newNode = {\n ...node,\n ...(properties as Partial<Element>),\n nodes: after,\n }\n }\n\n parent.nodes.splice(index + 1, 0, newNode)\n\n for (const [point, key, range] of Value.points(v)) {\n range[key] = Point.transform(point, op)!\n }\n\n break\n }\n }\n })\n }\n}\n\nexport {\n Value,\n ValueEntry,\n AnnotationEntry,\n AnnotationPointEntry,\n SelectionPointEntry,\n}\n"],"names":["DIRTY_PATHS","WeakMap","NORMALIZING","FLUSHING","PATH_REFS","POINT_REFS","RANGE_REFS","SPACE","PUNCTUATION","CHAMELEON","SURROGATE_START","SURROGATE_END","isWordCharacter","char","remaining","test","next","charAt","length","getCharacterDistance","slice","rest","text","code","charCodeAt","isSurrogate","getWordDistance","i","started","l","AnnotationComm

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CF,EAAL,EAAS;;;;YAIL,CAACE,OAAD,IAAYC,KAAK,CAACC,OAAN,CAAcJ,EAAd,CAAhB,EAAmC;UACj
CA,EAAE,GAAG,MAAI,CAACqB,WAAL,CAAiBrB,EAAjB,CAAL;;;YAGImH,MAAM,GAAG,MAAI,CAACjF
,OAAL,CAAa;UAAElC,EAAE,EAAFA,EAAF;UAAMmC,KAAK,EAALA;SAAnB,CAAf;;YACMO,QAAQ,GAA
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GACUmM,EADV,CACbnM,GADa;gBACRiB,aADQ,GACUkL,EADV,CACRlL,aADQ;gBAEfhB,WAAU,GAAG
+U,CAAC,CAAC5U,WAAF,CAAcJ,KAAd,CAAnB;YACAc,MAAM,CAACkL,MAAP,CAAc/L,WAAd,EAA0Bg
B,aAA1B;;;;aAIG,UAAL;;gBACUgB,MADO,GAC6BkK,EAD7B,CACPlK,IADO;gBACDjB,UADC,GAC6BmL,
EAD7B,CACDnL,UADC;gBACWC,cADX,GAC6BkL,EAD7B,CACWlL,aADX;;gBAET2D,MAAI,GAGyB,IA
AI,CAAC+I,IAAL,CAAU4F,CAAV,EAAa/S,MAAb,CAAb;;;;;;oCAEmB2C,MAAI,CAACsD,KAAxB,mIAA+B;
oBAApB+C,MAAoB;;oBACzBC,IAAI,CAACxH,OAAL,CAAauH,MAAb,EAAmBjK,UAAnB,CAAAJ,EAAoC;kB
AClCF,MAAM,CAACkL,MAAP,CAAcf,MAAd,EAAoBhK,cAApB;;;;;;;;;;;;;;;;;;;;aAQD,UAAL;;gBACUgB,MA
DO,GACiBkK,EADjB,CACPlK,IADO;gBACDhB,eADC,GACiBkL,EADjB,CACDlL,aADC;;gBAET2D,MAAI,G
AAGyB,IAAI,CAACiG,GAAL,CAAS0I,CAAT,EAAY/S,MAAZ,CAAb;;YACAnB,MAAM,CAACkL,MAAP,CA
AcpH,MAAd,EAAoB3D,eAApB;;;;aAIG,eAAL;;gBACUA,eADY,GACMkL,EADN,CACZlL,aADY;;gBAGhBA,e
AAa,IAAI,IAArB,EAA2B;cACzB+T,CAAC,CAACvT,SAAF,GAAAcR,eAAd;aADF,MAEO,IAAI+T,CAAC,CAAC
vT,SAAF,IAAe,IAAnB,EAAAyB;kBAC1B,CAACE,KAAK,CAACC,OAAN,CAAcX,eAAd,CAAL,EAAmC;sBAC3
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,SAAF,GAAAcR,eAAd;aATK,MAUA;cACLH,MAAM,CAACkL,MAAP,CAAcgJ,CAAC,CAACvT,SAAhB,EAA2
BR,eAA3B;;;;;;aAMC,WAAL;;gBACUA,eADQ,GACUkL,EADV,CACRlL,aADQ;YAEhBH,MAAM,CAACkL,M
AAP,CAAcgJ,CAAd,EAAAiB/T,eAAjB;;;;aAIG,YAAL;;gBACUgB,OADS,GACsBkK,EADtB,CACTlK,IADS;gBA
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AZ,CAAJ,EAAAuB;kBACfrB,QAAM,GAAGGqB,MAAI,CAACrF,IAAL,CAAUF,KAAV,CAAgB,CAAhB,EAAAmB
4I,QAAAnB,CAAf;;kBACMxE,OAAK,GAAGmB,MAAI,CAACrF,IAAL,CAAUF,KAAV,CAAgB4I,QAAAhB,CAA
d;;cACArD,MAAI,CAACrF,IAAL,GAAAYgE,QAAAZ;cACA8R,OAAO,uBAAAQzQ,MAAAR,MAAAkB5D,WAAAlB;gB
AAgDzB,IAAI,EAAAEkE;gBAA7D;aAJF,MAKO;kBACCF,QAAM,GAAGqB,MAAI,CAACiB,KAAL,CAAAWxG,
KAAX,CAAAiB,CAAAjB,EAAAoB4I,QAApB,CAAAf;;kBACMxE,OAAAK,GAAGmB,MAAI,CAACiB,KAAL,CAAAWx
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,MADE,MAED5D,WAFC;gBAGL6E,KAAAK,EAAAEpC;gBAAHT;;;YAOFqD,QAAAM,CAAACjB,KAAAP,CAAAaiJ,MA
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AN,CAAAaC,CAAAb,CAAAlC,mIAAmD;;oBAAvCvQ,OAAAuC;oBAAhCzE,KAAAgC;oBAA3B6J,OAA2B;;gBACjDA
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;;;;;;;;;;;;;;;;;;;KAvQM,CAAAd;GADW;CA5Df,EAAAUlH,KAAAK,KAAALA,KAAAK,KAAAA,CAAAf;;;;"}

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* /opt/cola/permits/1540266768_1674377034.0050993/0/slate-0-47-9-tgz/package/lib/index.es.js.map

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* /opt/cola/permits/1540266768_1674377034.0050993/0/slate-0-47-9-tgz/package/lib/index.es.js
* /opt/cola/permits/1540266768_1674377034.0050993/0/slate-0-47-9-tgz/package/lib/index.js
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```
/*!
* isobject <https://github.com/jonschlinkert/isobject>
*
* Copyright (c) 2014-2017, Jon Schlinkert.
* Released under the MIT License.
*/
/**
* Creates an array of the own enumerable property names of `object`.
*
* **Note:** Non-object values are coerced to objects. See the
* [ES spec](http://ecma-international.org/ecma-262/7.0/#sec-object.keys)
* for more details.
*
* @static
* @since 0.1.0
* @memberOf _
* @category Object
* @param {Object} object The object to query.
* @returns {Array} Returns the array of property names.
* @example
*
* function Foo() {
*   this.a = 1;
*   this.b = 2;
* }
*
* Foo.prototype.c = 3;
*
* _.keys(new Foo);
* // => ['a', 'b'] (iteration order is not guaranteed)
*
* _.keys('hi');
* // => ['0', '1']
*/
```

Found in path(s):
* /opt/cola/permits/1540266768_1674377034.0050993/0/slate-0-47-9-tgz/package/dist/slate.js

1.111 @types/command-exists 1.2.0

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1.112 is-bigint 1.0.4

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1.113 @types/fs-extra 9.0.13

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1.114 @react-aria/dialog 3.3.1

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1.115 rc-cascader 3.7.0

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1.116 fork-ts-checker-webpack-plugin 7.3.0

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1.117 babel-helper-compilation-targets 7.20.7

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1.118 caniuse-lite 1.0.30001446

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1.119 copy-webpack-plugin 9.1.0

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1.120 less-loader 10.2.0

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1.121 @react-stately/tree 3.4.1

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1.122 clsx 1.2.1

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1.123 d3-interpolate v1.4.0

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1.124 is-weakref 1.0.2

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1.125 json-schema-traverse 1.0.0

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1.126 minipass-flush 1.0.5

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1.127 style-loader 3.3.1

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1.128 @sentry/browser 6.19.7

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1.129 felixge-node-retry v0.12.0

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1.130 dom-converter 0.2.0

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1.131 which-boxed-primitive 1.0.2

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1.132 @babel/helper-split-export-declaration 7.18.6

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1.133 safe-regex-test 1.0.0

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1.134 d3-geo 1.12.1

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1.135 @jridgewell/resolve-uri 3.1.0

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1.136 direction 0.1.5

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1.137 prr 1.0.1

1.138 d3-random 1.1.2

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1.139 babel-plugin-transform-property-literals 7.18.6

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1.140 @babel/plugin-transform-parameters 7.20.7

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1.141 comment-parser 1.3.1

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1.142 debug-js/debug 2.6.9

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1.143 expressjs/mime-types 2.1.35

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1.144 istanbul-lib-report 3.0.0

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1.145 ianstormtaylor/slate 0.2.9

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1.146 tmp 0.0.33

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1.147 p-limit 2.3.0

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1.148 ansi-regex 5.0.1

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1.149 ieee754 v1.2.1

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1.150 throat 6.0.2

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1.151 jest-each 27.5.1

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1.152 @babel/helper-hoist-variables 7.18.6

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1.153 mimic-fn 2.1.0

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1.154 postcss-minify-font-values 5.1.0

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1.155 chalk v3.0.0

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1.156 gensync 1.0.0-beta.2

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1.157 micromatch 4.0.5

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1.158 @webassemblyjs/helper-wasm-section 1.11.1

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1.159 is-typed-array 1.1.10

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1.160 v8-to-istanbul 8.1.1

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1.161 md5-file 5.0.0

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1.162 @formatjs/icu-messageformat-parser 2.1.14

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1.163 nodelib-fs-scandir 2.1.5

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1.164 find-up 3.0.0

1.165 cssfontparser 1.2.1

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1.166 postcss-custom-media 8.0.2

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1.167 microsoft/tslib 2.4.0

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1.168 collect-v8-coverage 1.0.1

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1.170 is-string 1.0.7

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1.172 @types/node 16.11.26

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1.174 ansi-escapes 4.3.2

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1.175 dom-accessibility-api 0.5.16

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1.176 postcss-dir-pseudo-class 6.0.5

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1.177 to-fast-properties 2.0.0

1.178 is-unicode-supported 0.1.0

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1.179 babel-plugin-angularjs-annotate 0.10.0

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1.182 prism-js 1.29.0

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1.183 jsx-ast-utils 3.3.3

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1.189 js-cookie 2.2.1

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1.190 jest-circus 27.5.1

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1.192 @react-stately/menu 3.4.4

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1.193 core-js 3.27.2

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1.194 makeerror 1.0.12

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1.195 react-fast-compare 3.2.0

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1.196 saxes 5.0.1

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1.198 ansicolor 1.1.100

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1.199 make-error 1.3.6

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1.201 tiny-warning 1.0.3

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1.202 dedent 0.7.0

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1.204 minipass-sized 1.0.3

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1.206 @babel/plugin-transform-block-scoped-functions 7.18.6

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1.207 @babel/helper-validator-option 7.18.6

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1.208 jest-validate 27.5.1

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1.209 object.fromentries 2.0.6

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1.210 immutable 4.1.0

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1.211 node-address 1.2.2

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1.212 memoize-one v5.2.1

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1.213 @opentelemetry/core 1.8.0

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1.214 querystringify 2.2.0

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1.215 gopd 1.0.1

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1.216 detect-port 1.1.6

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1.217 p-locate 4.1.0

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1.218 stack-utils 2.0.6

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1.219 find-up v4.1.0

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1.220 types-yargs 16.0.5

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1.222 @typescript-eslint/types 5.16.0

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1.223 @babel/core 7.18.9

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1.224 stop-iteration-iterator 1.0.0

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1.225 is-generator-fn 2.1.0

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1.226 mathiasbynens-regenerate 1.4.2

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1.227 @babel/plugin-transform-dotall-regex 7.18.6

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1.228 supports-hyperlinks 2.3.0

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1.229 @webassemblyjs/floating-point-hex-parser 1.11.1

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1.230 @types/mime 3.0.1

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1.231 normalize-path 3.0.0

1.232 jest-diff 29.3.1

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1.233 types-d3-interpolate 1.4.2

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1.234 node-shell-quote 1.7.4

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1.235 stack-generator 2.0.10

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1.236 @grafana/eslint-config 5.0.0

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1.237 @react-stately/toggle 3.4.4

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1.238 @types/react-dev-utils 9.0.10

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1.239 core-js 3.26.0

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1.240 use-memo-one 1.1.3

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1.241 qix-color-convert 1.9.3

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1.242 types-babel-generator 7.6.4

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1.243 @internationalized/string 3.0.1

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1.245 ianstormtaylor/slate 0.5.44

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1.246 arg 4.1.3

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1.249 browserslist 4.21.4

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1.255 types-d3-color 1.4.2

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1.257 source-map 0.7.4

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1.259 highlight-words-core 1.2.2

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1.260 types-yargs-parser 21.0.0

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1.261 which-typed-array 1.1.9

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1.262 @csstools/postcss-oklab-function 1.1.1

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1.263 @babel/plugin-syntax-import-assertions 7.20.0

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1.264 type-detect 4.0.8

1.265 locate-path v6.0.0

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1.266 @babel/code-frame 7.18.6

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1.267 cli-width 3.0.0

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1.268 available-typed-arrays 1.0.5

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1.269 @babel/helper-plugin-utils 7.20.2

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1.270 raf-schd 4.0.3

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1.271 whatwg-encoding 1.0.5

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1.272 unicode-match-property-ecmascript 2.0.0

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1.273 resize-observer-polyfill 1.5.1

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1.274 supports-preserve-symlinks-flag 1.0.0

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1.275 function.prototype.name 1.1.5

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1.276 node-graceful-fs 4.2.10

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1.277 has-flag 4.0.0

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1.278 monaco-editor 0.34.0

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1.285 d3-zoom 1.8.3

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1.287 p-map 4.0.0

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1.293 jest-resolve 27.5.1

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1.294 ci-info 3.7.1

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1.295 @types/graceful-fs 4.1.6

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1.297 nodelib-fs-stat 2.0.5

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1.301 randombytes 2.1.0

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1.302 signal-exit 3.0.7

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1.303 @babel/plugin-transform-spread 7.20.7

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1.304 @floating-ui/core 1.1.0

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1.305 qix-color-convert 2.0.1

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1.306 microsoft/tslib 2.4.1

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1.307 postcss-color-rebeccapurple 7.1.1

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1.308 @babel/helper-function-name 7.19.0

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1.309 sisteransi 1.0.5

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1.310 has-unicode 2.0.1

1.311 postcss-unique-selectors 5.1.1

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1.312 postcss-discard-empty 5.1.1

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1.313 @babel/preset-modules 0.1.5

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1.314 @webassemblyjs/leb128 1.11.1

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1.318 types-minimatch 5.1.2

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1.320 socks 2.7.1

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1.321 html-loader 3.1.2

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1.322 postcss-focus-visible 6.0.4

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1.323 @babel/plugin-proposal-object-rest-spread 7.18.9

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1.324 escalade 3.1.1

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1.325 istanbuljs-load-nyc-config 1.1.0

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1.326 react-calendar 3.9.0

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1.327 @react-types/shared 3.16.0

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1.328 types-yargs 17.0.20

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1.329 set-harmonic-interval 1.0.1

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1.330 @grafana/schema 9.3.2

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1.332 internal-slot 1.0.4

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1.333 terser 5.16.1

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1.334 @types/relateurl 0.2.29

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1.336 get-caller-file 2.0.5

1.337 jquery 3.6.1

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1.338 @babel/helper-simple-access 7.20.2

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1.339 mini-css-extract-plugin 2.7.2

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1.340 @babel/helper-builder-binary-assignment-operator-visitor 7.18.9

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1.341 css-escape 1.5.1

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1.342 types-react-dom 18.0.10

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1.343 emoji-regex v8.0.0

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1.344 node-ip 2.0.0

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1.345 @eslint/eslintrc 1.4.1

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1.346 lodash-merge 4.6.2

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1.347 is-number-object 1.0.7

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1.348 svgo 2.8.0

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1.349 @types/node 18.11.18

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1.350 @react-aria/utils 3.13.1

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1.351 prelude-ls 1.1.2

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1.353 color-support 1.1.3

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1.354 @types/testing-library__jest-dom 5.14.5

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1.355 types-jest 27.4.1

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1.356 @babel/plugin-syntax-numeric-separator 7.10.4

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1.357 object.entries 1.1.6

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1.358 utila 0.4.0

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1.359 jest-test-sequencer 27.5.1

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1.360 isarray 0.0.1

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* /opt/ws_local/PERMITS_SQL/1027006843_1593099137.24/0/isarray-0-0-1-4-tgz/package/README.md

1.361 @types/semver 7.3.9

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1.362 agent-base 6.0.2

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* /opt/cola/permits/1113036253_1607377260.1/0/agent-base-6-0-2-1-tgz/package/README.md

1.363 jest-haste-map 27.5.1

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1.364 @jridgewell/source-map 0.3.2

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1.365 @babel/types 7.20.7

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1.366 @babel/helper-annotate-as-pure 7.18.6

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1.367 types-babel-traverse 7.18.3

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1.368 param-case 3.0.4

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1.369 @babel/plugin-transform-react-pure-annotations 7.18.6

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1.370 @babel/helper-module-imports 7.18.6

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1.371 json-stringify-pretty-compact 2.0.0

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1.372 require-directory 2.1.1

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1.373 @babel/helper-replace-supers 7.20.7

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1.374 watchman 2.0.2

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* /opt/cola/permits/1492060076_1673858806.5051994/0/fb-watchman-2-0-2-1-tgz/package/index.js

1.375 ajv-keywords 3.5.2

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1.376 nodeca-argparse 1.0.10

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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1.377 ianstormtaylor/slate v0.22.10

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{"version":3,"file":"index.js","sources":["../../../node_modules/lodash/isObject.js","../../../node_modules/lodash/_freeGlobal.js","../../../node_modules/lodash/_root.js","../../../node_modules/lodash/now.js","../../../node_modules/lodash/_Symbol.js","../../../node_modules/lodash/_getRawTag.js","../../../node_modules/lodash/_objectToString.js","../../../node_modules/lodash/_baseGetTag.js","../../../node_modules/lodash/isObjectLike.js","../../../node_modules/lodash/isSymbol.js","../../../node_modules/lodash/toNumber.js","../../../node_modules/lodash/debounce.js","../../../node_modules/compute-scroll-into-view/es/index.js","../../../node_modules/scroll-into-view-if-needed/es/index.js","../src/hooks/use-editor.ts","../src/components/string.tsx","../src/components/custom.tsx","../src/utils/weak-maps.ts","../../../node_modules/@babel/runtime/helpers/arrayWithoutHoles.js","../../../node_modules/@babel/runtime/helpers/iterableToArray.js","../../../node_modules/@babel/runtime/helpers/nonIterableSpread.js","../../../node_modules/@babel/runtime/helpers/toConsumableArray.js","../../../node_modules/@babel/runtime/helpers/defineProperty.js","../node_modules/isobject/index.js","../node_modules/is-plain-object/index.js","../src/utils/leaf.ts","../src/components/leaf.tsx","../src/components/text.tsx","../src/hooks/use-read-only.ts","../src/hooks/use-selected.ts","../src/components/element.tsx","../src/components/children.tsx","../src/hooks/use-focused.ts","../src/utils/environment.ts","../../../node_modules/@babel/runtime/helpers/arrayWithHoles.js","../../../node_modules/@babel/runtime/helpers/iterableToArrayLimit.js","../../../node_modules/@babel/runtime/helpers/nonIterableRest.js","../../../node_modules/@babel/runtime/helpers/slicedToArray.js","../src/utils/dom.ts","../src/utils/utils.ts","../src/components/editor.tsx","../src/hooks/use-slate.ts","../../../node_modules/@babel/runtime/helpers/classCallCheck.js","../../../node_modules/@babel/runtime/helpers/createClass.js","../../../node_modules/@babel/runtime/helpers/typeof.js","../../../node_modules/@babel/runtime/helpers/assertThisInitialized.js","../../../node_modules/@babel/runtime/helpers/possibleConstructorReturn.js","../../../node_modules/@babel/runtime/helpers/getPrototypeOf.js","../../../node_modules/@babel/runtime/helpers/superPropBase.js","../../../node_modules/@babel/runtime/helpers/get.js","../../../node_modules/@babel/runtime/helpers/setPrototypeOf.js","../../../node_modules/@babel/runtime/helpers/inherits.js","../src/utils/hotkeys.ts","../src/utils/key.ts","../src/plugin.ts"],"sourcesContent":["/**\n * Checks if `value` is the\n * [language type](http://www.ecma-

international.org/ecma-262/7.0/#sec-ecmascript-language-types)\n * of `Object`. (e.g. arrays, functions, objects, regexes, `new Number(0)`, and `new String('')`)\n *\n * @static\n * @memberOf _\n * @since 0.1.0\n * @category Lang\n * @param {*} value The value to check.\n * @returns {boolean} Returns `true` if `value` is an object, else `false`.\n * @example\n *\n * _.isObject({});\n * // => true\n *\n * _.isObject([1, 2, 3]);\n * // => true\n *\n * _.isObject(_.noop);\n * // => true\n *\n * _.isObject(null);\n * // => false\n */\nfunction isObject(value) {\n var type = typeof value;\n return value != null && (type == 'object' || type == 'function');\n}\n\nmodule.exports = isObject;\n","/** Detect free variable `global` from Node.js. */\nvar freeGlobal = typeof global == 'object' && global && global.Object === Object && global;\n\nmodule.exports = freeGlobal;\n","var freeGlobal = require('./_freeGlobal');\n\n/** Detect free variable `self`. */\nvar freeSelf = typeof self == 'object' && self && self.Object === Object && self;\n\n/** Used as a reference to the global object. */\nvar root = freeGlobal || freeSelf || Function('return this')();\n\nmodule.exports = root;\n","var root = require('./_root');\n\n/**\n * Gets the timestamp of the number of milliseconds that have elapsed since\n * the Unix epoch (1 January 1970 00:00:00 UTC).\n *\n * @static\n * @memberOf _\n * @since 2.4.0\n * @category Date\n * @returns {number} Returns the timestamp.\n * @example\n *\n * _.defer(function(stamp) {\n *   console.log(_.now() - stamp);\n * }, _.now());\n * // => Logs the number of milliseconds it took for the deferred invocation.\n */\nvar now = function() {\n return root.Date.now();\n};\n\nmodule.exports = now;\n","var root = require('./_root');\n\n/** Built-in value references. */\nvar Symbol = root.Symbol;\n\nmodule.exports = Symbol;\n","var Symbol = require('./_Symbol');\n\n/** Used for built-in method references. */\nvar objectProto = Object.prototype;\n\n/** Used to check objects for own properties. */\nvar hasOwnProperty = objectProto.hasOwnProperty;\n\n/**\n * Used to resolve the\n * [`toStringTag`](http://ecma-international.org/ecma-262/7.0/#sec-object.prototype.tostring)\n * of values.\n */\nvar nativeObjectToString = objectProto.toString;\n\n/** Built-in value references. */\nvar symToStringTag = Symbol ? Symbol.toStringTag : undefined;\n\n/**\n * A specialized version of `baseGetTag` which ignores `Symbol.toStringTag` values.\n *\n * @private\n * @param {*} value The value to query.\n * @returns {string} Returns the raw `toStringTag`.\n */\nfunction getRawTag(value) {\n var isOwn = hasOwnProperty.call(value, symToStringTag),\n   tag = value[symToStringTag];\n\n try {\n   value[symToStringTag] = undefined;\n   var unmasked = true;\n } catch (e) {}\n\n var result = nativeObjectToString.call(value);\n if (unmasked) {\n   if (isOwn) {\n   value[symToStringTag] = tag;\n   } else {\n   delete value[symToStringTag];\n   }\n }\n return result;\n}\n\nmodule.exports = getRawTag;\n","/** Used for built-in method references. */\nvar objectProto = Object.prototype;\n\n/**\n * Used to resolve the\n * [`toStringTag`](http://ecma-international.org/ecma-262/7.0/#sec-object.prototype.tostring)\n * of values.\n */\nvar nativeObjectToString = objectProto.toString;\n\n/**\n * Converts `value` to a string using `Object.prototype.toString`.\n *\n * @private\n * @param {*} value The value to convert.\n * @returns {string} Returns the converted string.\n */\nfunction objectToString(value) {\n return nativeObjectToString.call(value);\n}\n\nmodule.exports = objectToString;\n","var Symbol = require('./_Symbol'),\n   getRawTag = require('./_getRawTag'),\n   objectToString = require('./_objectToString');\n\n/** `Object#toString` result references. */\nvar nullTag = '[object Null]',\n   undefinedTag = '[object Undefined]';\n\n/** Built-in value references. */\nvar symToStringTag = Symbol ? Symbol.toStringTag : undefined;\n\n/**\n * The base implementation of `getTag` without fallbacks for buggy environments.\n *\n * @private\n * @param {*} value The value to query.\n * @returns {string} Returns the `toStringTag`.\n */\nfunction baseGetTag(value) {\n if (value == null) {\n   return value === undefined ? undefinedTag : nullTag;\n }\n return (symToStringTag && symToStringTag in Object(value))\n   ? getRawTag(value)\n   : objectToString(value);\n}\n\nmodule.exports = baseGetTag;\n","/**\n * Checks if `value` is object-like. A value is object-like if it's not `null`\n * and has a `typeof` result of \"object\".\n *\n * @static\n * @memberOf _\n * @since 4.0.0\n * @category Lang\n * @param {*} value The value to check.\n * @returns {boolean} Returns `true` if `value` is object-like, else `false`.\n * @example\n *\n * _.isObjectLike({});\n * // => true\n *\n * _.isObjectLike([1, 2, 3]);\n * // => true\n *\n * _.isObjectLike(_.noop);\n * // => false\n *\n * _.isObjectLike(null);\n * // => false\n */\nfunction isObjectLike(value) {\n return value != null && typeof value == 'object';\n}\n\nmodule.exports = isObjectLike;\n","var baseGetTag = require('./_baseGetTag'),\n   isObjectLike = require('./isObjectLike');\n\n/** `Object#toString` result references. */\nvar symbolTag = '[object Symbol]';\n\n/**\n

* Checks if `value` is classified as a `Symbol` primitive or object.\n *\n * @static\n * @memberOf _\n * @since 4.0.0\n * @category Lang\n * @param {*} value The value to check.\n * @returns {boolean} Returns `true` if `value` is a symbol, else `false`.\n * @example\n *\n * _.isSymbol(Symbol.iterator);\n * // => true\n *\n * _.isSymbol('abc');\n * // => false\n */\nfunction isSymbol(value) {\n return typeof value == 'symbol' ||\n (isObjectLike(value) && baseGetTag(value) == symbolTag);\n}\n\nmodule.exports = isSymbol;\n","var isObject = require('./isObject'),\n   isSymbol = require('./isSymbol');\n\n/** Used as references for various `Number` constants. */\nvar NAN = 0 / 0;\n\n/** Used to match leading and trailing whitespace. */\nvar reTrim = /^\\s+|\\s+$/g;\n\n/** Used to detect bad signed hexadecimal string values. */\nvar reIsBadHex = /^[-+]0x[0-9a-f]+$/i;\n\n/** Used to detect binary string values. */\nvar reIsBinary = /^0b[01]+$/i;\n\n/** Used to detect octal string values. */\nvar reIsOctal = /^0o[0-7]+$/i;\n\n/** Built-in method references without a dependency on `root`. */\nvar freeParseInt = parseInt;\n\n/**\n * Converts `value` to a number.\n *\n * @static\n * @memberOf _\n * @since 4.0.0\n * @category Lang\n * @param {*} value The value to process.\n * @returns {number} Returns the number.\n * @example\n *\n * _.toNumber(3.2);\n * // => 3.2\n *\n * _.toNumber(Number.MIN_VALUE);\n * // => 5e-324\n *\n * _.toNumber(Infinity);\n * // => Infinity\n *\n * _.toNumber('3.2');\n * // => 3.2\n */\nfunction toNumber(value) {\n if (typeof value == 'number') {\n   return value;\n }\n if (isSymbol(value)) {\n   return NAN;\n }\n if (isObject(value)) {\n   var other = typeof value.valueOf == 'function' ? value.valueOf() : value;\n value = isObject(other) ? (other + '') : other;\n }\n if (typeof value != 'string') {\n   return value === 0 ? value : +value;\n }\n value = value.replace(reTrim, '');\n var isBinary = reIsBinary.test(value);\n return (isBinary || reIsOctal.test(value))\n   ? freeParseInt(value.slice(2), isBinary ? 2 : 8)\n   : (reIsBadHex.test(value) ? NAN : +value);\n}\n\nmodule.exports = toNumber;\n","var isObject = require('./isObject'),\n   now = require('./now'),\n   toNumber = require('./toNumber');\n\n/** Error message constants. */\nvar FUNC_ERROR_TEXT = 'Expected a function';\n\n/* Built-in method references for those with the same name as other `lodash` methods. */\nvar nativeMax = Math.max,\n   nativeMin = Math.min;\n\n/**\n * Creates a debounced function that delays invoking `func` until after `wait`\n * milliseconds have elapsed since the last time the debounced function was\n * invoked. The debounced function comes with a `cancel` method to cancel\n * delayed `func` invocations and a `flush` method to immediately invoke them.\n * Provide `options` to indicate whether `func` should be invoked on the\n * leading and/or trailing edge of the `wait` timeout. The `func` is invoked\n * with the last arguments provided to the debounced function. Subsequent\n * calls to the debounced function return the result of the last `func`\n * invocation.\n *\n * **Note:** If `leading` and `trailing` options are `true`, `func` is\n * invoked on the trailing edge of the timeout only if the debounced function\n * is invoked more than once during the `wait` timeout.\n *\n * If `wait` is `0` and `leading` is `false`, `func` invocation is deferred\n * until to the next tick, similar to `setTimeout` with a timeout of `0`.\n *\n * See [David Corbacho's article](https://css-tricks.com/debouncing-throttling-explained-examples/)\n * for details over the differences between `_.debounce` and `_.throttle`.\n *\n * @static\n * @memberOf _\n * @since 0.1.0\n * @category Function\n * @param {Function} func The function to debounce.\n * @param {number} [wait=0] The number of milliseconds to delay.\n * @param {Object} [options={}] The options object.\n * @param {boolean} [options.leading=false]\n * Specify invoking on the leading edge of the timeout.\n * @param {number} [options.maxWait]\n * The maximum time `func` is allowed to be delayed before it's invoked.\n * @param {boolean} [options.trailing=true]\n * Specify invoking on the trailing edge of the timeout.\n * @returns {Function} Returns the new debounced function.\n * @example\n *\n * // Avoid costly calculations while the window size is in flux.\n * jQuery(window).on('resize', _.debounce(calculateLayout, 150));\n *\n * // Invoke `sendMail` when clicked, debouncing subsequent calls.\n * jQuery(element).on('click', _.debounce(sendMail, 300, {\n *   'leading': true,\n *   'trailing': false\n * }));\n *\n * // Ensure `batchLog` is invoked once after 1 second of debounced calls.\n * var debounced = _.debounce(batchLog, 250, { 'maxWait': 1000 });\n * var source = new EventSource('/stream');\n * jQuery(source).on('message', debounced);\n *\n * // Cancel the trailing debounced invocation.\n * jQuery(window).on('popstate', debounced.cancel);\n */\nfunction debounce(func, wait, options) {\n var lastArgs,\n   lastThis,\n   maxWait,\n   result,\n   timerId,\n   lastCallTime,\n   lastInvokeTime = 0,\n leading = false,\n   maxing = false,\n   trailing = true;\n\n if (typeof func != 'function') {\n   throw new TypeError(FUNC_ERROR_TEXT);\n }\n wait = toNumber(wait) || 0;\n if (isObject(options)) {\n   leading =

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!!options.leading;\n    maxing = 'maxWait' in options;\n    maxWait = maxing ?
nativeMax(toNumber(options.maxWait) || 0, wait) : maxWait;\n    trailing = 'trailing' in options ? !!options.trailing :
trailing;\n  }\n\n  function invokeFunc(time) {\n    var args = lastArgs,\n        thisArg = lastThis;\n\n    lastArgs =
lastThis = undefined;\n    lastInvokeTime = time;\n    result = func.apply(thisArg, args);\n    return result;\n  }\n\n
function leadingEdge(time) {\n    // Reset any `maxWait` timer.\n    lastInvokeTime = time;\n    // Start the timer for
the trailing edge.\n    timerId = setTimeout(timerExpired, wait);\n    // Invoke the leading edge.\n    return leading ?
invokeFunc(time) : result;\n  }\n\n  function remainingWait(time) {\n    var timeSinceLastCall = time -
lastCallTime,\n        timeSinceLastInvoke = time - lastInvokeTime,\n        timeWaiting = wait -
timeSinceLastCall;\n\n    return maxing\n      ? nativeMin(timeWaiting, maxWait - timeSinceLastInvoke)\n      :
timeWaiting;\n  }\n\n  function shouldInvoke(time) {\n    var timeSinceLastCall = time - lastCallTime,\n
timeSinceLastInvoke = time - lastInvokeTime;\n\n    // Either this is the first call, activity has stopped and we're at
the\n    // trailing edge, the system time has gone backwards and we're treating\n    // it as the trailing edge, or we've
hit the `maxWait` limit.\n    return (lastCallTime === undefined || (timeSinceLastCall >= wait) ||\n
(timeSinceLastCall < 0) || (maxing && timeSinceLastInvoke >= maxWait));\n  }\n\n  function timerExpired() {\n
var time = now();\n    if (shouldInvoke(time)) {\n      return trailingEdge(time);\n    }\n    // Restart the timer.\n
timerId = setTimeout(timerExpired, remainingWait(time));\n  }\n\n  function trailingEdge(time) {\n    timerId =
undefined;\n\n    // Only invoke if we have `lastArgs` which means `func` has been\n    // debounced at least once.\n
 if (trailing && lastArgs) {\n      return invokeFunc(time);\n    }\n    lastArgs = lastThis = undefined;\n    return
result;\n  }\n\n  function cancel() {\n    if (timerId !== undefined) {\n      clearTimeout(timerId);\n    }\n
lastInvokeTime = 0;\n    lastArgs = lastCallTime = lastThis = timerId = undefined;\n  }\n\n  function flush() {\n
return timerId === undefined ? result : trailingEdge(now());\n  }\n\n  function debounced() {\n    var time = now(),\n
    isInvoking = shouldInvoke(time);\n\n    lastArgs = arguments;\n    lastThis = this;\n    lastCallTime = time;\n\n
if (isInvoking) {\n      if (timerId === undefined) {\n        return leadingEdge(lastCallTime);\n      }\n      if (maxing)
{\n        // Handle invocations in a tight loop.\n        clearTimeout(timerId);\n        timerId =
setTimeout(timerExpired, wait);\n        return invokeFunc(lastCallTime);\n      }\n    }\n    if (timerId === undefined)
{\n      timerId = setTimeout(timerExpired, wait);\n    }\n    return result;\n  }\n  debounced.cancel = cancel;\n
debounced.flush = flush;\n  return debounced;\n}\n\nmodule.exports = debounce;\n","function isElement(el) {\n
return el != null && typeof el === 'object' && el.nodeType === 1;\n}\n\nfunction canOverflow(overflow,
skipOverflowHiddenElements) {\n  if (skipOverflowHiddenElements && overflow === 'hidden') {\n    return
false;\n  }\n\n  return overflow !== 'visible' && overflow !== 'clip';\n}\n\nfunction isScrollable(el,
skipOverflowHiddenElements) {\n  if (el.clientHeight < el.scrollHeight || el.clientWidth < el.scrollWidth) {\n    var
style = getComputedStyle(el, null);\n    return canOverflow(style.overflowY, skipOverflowHiddenElements) ||
canOverflow(style.overflowX, skipOverflowHiddenElements);\n  }\n\n  return false;\n}\n\nfunction
alignNearest(scrollingEdgeStart, scrollingEdgeEnd, scrollingSize, scrollingBorderStart, scrollingBorderEnd,
elementEdgeStart, elementEdgeEnd, elementSize) {\n  if (elementEdgeStart < scrollingEdgeStart &&
elementEdgeEnd > scrollingEdgeEnd || elementEdgeStart > scrollingEdgeStart && elementEdgeEnd <
scrollingEdgeEnd) {\n    return 0;\n  }\n\n  if (elementEdgeStart <= scrollingEdgeStart && elementSize <=
scrollingSize || elementEdgeEnd >= scrollingEdgeEnd && elementSize >= scrollingSize) {\n    return
elementEdgeStart - scrollingEdgeStart - scrollingBorderStart;\n  }\n\n  if (elementEdgeEnd > scrollingEdgeEnd &&
elementSize < scrollingSize || elementEdgeStart < scrollingEdgeStart && elementSize > scrollingSize) {\n    return
elementEdgeEnd - scrollingEdgeEnd + scrollingBorderEnd;\n  }\n\n  return 0;\n}\n\nexport default (function (target,
options) {\n  var scrollMode = options.scrollMode,\n      block = options.block,\n      inline = options.inline,\n
boundary = options.boundary,\n      skipOverflowHiddenElements = options.skipOverflowHiddenElements;\n  var
checkBoundary = typeof boundary === 'function' ? boundary : function (node) {\n    return node !== boundary;\n
};\n\n  if (!isElement(target)) {\n    throw new TypeError('Invalid target');\n  }\n\n  var scrollingElement =
document.scrollingElement || document.documentElement;\n  var frames = [];\n  var cursor = target;\n\n  while
(isElement(cursor) && checkBoundary(cursor)) {\n    cursor = cursor.parentNode;\n\n    if (cursor ===
scrollingElement) {\n      frames.push(cursor);\n      break;\n    }\n\n    if (cursor === document.body &&
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isScrollable(cursor) && !isScrollable(document.documentElement)) {\n      continue;\n    }\n\n    if (isScrollable(cursor, skipOverflowHiddenElements)) {\n      frames.push(cursor);\n    }\n  }\n\n  var viewportWidth = window.visualViewport ? visualViewport.width : innerWidth;\n  var viewportHeight = window.visualViewport ? visualViewport.height : innerHeight;\n  var viewportX = window.scrollX || pageXOffset;\n  var viewportY = window.scrollY || pageYOffset;\n\n  var _target$getBoundingCl = target.getBoundingClientRect(),\n      targetHeight = _target$getBoundingCl.height,\n      targetWidth = _target$getBoundingCl.width,\n      targetTop = _target$getBoundingCl.top,\n      targetRight = _target$getBoundingCl.right,\n      targetBottom = _target$getBoundingCl.bottom,\n      targetLeft = _target$getBoundingCl.left;\n\n  var targetBlock = block === 'start' || block === 'nearest' ? targetTop : block === 'end' ? targetBottom : targetTop + targetHeight / 2;\n  var targetInline = inline === 'center' ? targetLeft + targetWidth / 2 : inline === 'end' ? targetRight : targetLeft;\n  var computations = [];\n\n  for (var index = 0; index < frames.length; index++) {\n    var frame = frames[index];\n\n    var _frame$getBoundingCli = frame.getBoundingClientRect(),\n        _height = _frame$getBoundingCli.height,\n        _width = _frame$getBoundingCli.width,\n        _top = _frame$getBoundingCli.top,\n        right = _frame$getBoundingCli.right,\n        bottom = _frame$getBoundingCli.bottom,\n        _left = _frame$getBoundingCli.left;\n\n    if (scrollMode === 'if-needed' && targetTop >= 0 && targetLeft >= 0 && targetBottom <= viewportHeight && targetRight <= viewportWidth && targetTop >= _top && targetBottom <= bottom && targetLeft >= _left && targetRight <= right) {\n      return computations;\n    }\n\n    var frameStyle = getComputedStyle(frame);\n    var borderLeft = parseInt(frameStyle.borderLeftWidth, 10);\n    var borderTop = parseInt(frameStyle.borderTopWidth, 10);\n    var borderRight = parseInt(frameStyle.borderRightWidth, 10);\n    var borderBottom = parseInt(frameStyle.borderBottomWidth, 10);\n    var blockScroll = 0;\n    var inlineScroll = 0;\n    var scrollbarWidth = 'offsetWidth' in frame ? frame.offsetWidth - frame.clientWidth - borderLeft - borderRight : 0;\n    var scrollbarHeight = 'offsetHeight' in frame ? frame.offsetHeight - frame.clientHeight - borderTop - borderBottom : 0;\n\n    if (scrollingElement === frame) {\n      if (block === 'start') {\n        blockScroll = targetBlock;\n      } else if (block === 'end') {\n        blockScroll = targetBlock - viewportHeight;\n      } else if (block === 'nearest') {\n        blockScroll = alignNearest(viewportY, viewportY + viewportHeight, viewportHeight, borderTop, borderBottom, viewportY + targetBlock, viewportY + targetBlock + targetHeight, targetHeight);\n      } else {\n        blockScroll = targetBlock - viewportHeight / 2;\n      }\n\n      if (inline === 'start') {\n        inlineScroll = targetInline;\n      } else if (inline === 'center') {\n        inlineScroll = targetInline - viewportWidth / 2;\n      } else if (inline === 'end') {\n        inlineScroll = targetInline - viewportWidth;\n      } else {\n        inlineScroll = alignNearest(viewportX, viewportX + viewportWidth, viewportWidth, borderLeft, borderRight, viewportX + targetInline, viewportX + targetInline + targetWidth, targetWidth);\n      }\n\n      blockScroll = Math.max(0, blockScroll + viewportY);\n      inlineScroll = Math.max(0, inlineScroll + viewportX);\n    } else {\n      if (block === 'start') {\n        blockScroll = targetBlock - _top - borderTop;\n      } else if (block === 'end') {\n        blockScroll = targetBlock - bottom + borderBottom + scrollbarHeight;\n      } else if (block === 'nearest') {\n        blockScroll = alignNearest(_top, bottom, _height, borderTop, borderBottom + scrollbarHeight, targetBlock, targetBlock + targetHeight, targetHeight);\n      } else {\n        blockScroll = targetBlock - (_top + _height / 2) + scrollbarHeight / 2;\n      }\n\n      if (inline === 'start') {\n        inlineScroll = targetInline - _left - borderLeft;\n      } else if (inline === 'center') {\n        inlineScroll = targetInline - (_left + _width / 2) + scrollbarWidth / 2;\n      } else if (inline === 'end') {\n        inlineScroll = targetInline - right + borderRight + scrollbarWidth;\n      } else {\n        inlineScroll = alignNearest(_left, right, _width, borderLeft, borderRight + scrollbarWidth, targetInline, targetInline + targetWidth, targetWidth);\n      }\n\n      var scrollLeft = frame.scrollLeft,\n          scrollTop = frame.scrollTop;\n      blockScroll = Math.max(0, Math.min(scrollTop + blockScroll, frame.scrollHeight - _height + scrollbarHeight));\n      inlineScroll = Math.max(0, Math.min(scrollLeft + inlineScroll, frame.scrollWidth - _width + scrollbarWidth));\n      targetBlock += scrollTop - blockScroll;\n      targetInline += scrollLeft - inlineScroll;\n    }\n\n    computations.push({\n      el: frame,\n      top: blockScroll,\n      left: inlineScroll\n    });\n  }\n\n  return computations;\n});","import compute from 'compute-scroll-into-view';\n\nfunction isOptionsObject(options) {\n  return options === Object(options) && Object.keys(options).length !== 0;\n}\n\nfunction defaultBehavior(actions, behavior) {\n  if (behavior === void 0)
```

{\n behavior = 'auto';\n }\n\n var canSmoothScroll = 'scrollBehavior' in document.body.style;\n actions.forEach(function (_ref) {\n var el = _ref.el,\n top = _ref.top,\n left = _ref.left;\n\n if (el.scroll && canSmoothScroll) {\n el.scroll({\n top: top,\n left: left,\n behavior: behavior\n });\n } else {\n el.scrollTop = top;\n el.scrollLeft = left;\n }\n });\n}\n\nfunction getOptions(options) {\n if (options === false) {\n return {\n block: 'end',\n inline: 'nearest'\n };\n }\n\n if (isOptionsObject(options)) {\n return options;\n }\n\n return {\n block: 'start',\n inline: 'nearest'\n };\n}\n\nfunction scrollIntoView(target, options) {\n var targetIsDetached = !target.ownerDocument.documentElement.contains(target);\n\n if (isOptionsObject(options) && typeof options.behavior === 'function') {\n return options.behavior(targetIsDetached ? [] : compute(target, options));\n }\n\n if (targetIsDetached) {\n return;\n }\n\n var computeOptions = getOptions(options);\n return defaultBehavior(compute(target, computeOptions), computeOptions.behavior);\n}\n\nexport default scrollIntoView;","import { createContext, useContext } from 'react'\nimport { ReactEditor } from '..'\n\n/**\n * A React context for sharing the `ReactEditor` class.\n */\n\nexport const EditorContext = createContext<ReactEditor | undefined>(undefined)\n\n/**\n * Get the current `ReactEditor` class that the component lives under.\n */\n\nexport const useEditor = () => {\n const editor = useContext(EditorContext)\n\n if (!editor) {\n throw new Error(\n `The \\`useEditor\\` hook must be used inside the <Editor> context.`\n)\n }\n\n return editor\n}\n","import React from 'react'\nimport { Text, Path, Element, Node } from 'slate'\n\nimport { useEditor } from '../hooks/use-editor'\nimport { Leaf } from '../utils/leaf'\n\n/**\n * Leaf content strings.\n */\n\nconst String = (props: {\n isLast: boolean\n leaf: Leaf\n parent: Element\n text: Text\n}) => {\n const { isLast, leaf, parent, text } = props\n const editor = useEditor()\n const path = editor.findPath(text)\n const parentPath = Path.parent(path)\n\n // COMPAT: Render text inside void nodes with a zero-width space.\n // So the node can contain selection but the text is not visible.\n if (editor.isVoid(parent)) {\n return <ZeroWidthString length={Node.text(parent).length} />\n }\n\n // COMPAT: If this is the last text node in an empty block, render a zero-\n // width space that will convert into a line break when copying and pasting\n // to support expected plain text.\n if (\n leaf.text === '' &&\n parent.nodes[parent.nodes.length - 1] === text &&\n !editor.isInline(parent) &&\n editor.getText(parentPath) === ''\n) {\n return <ZeroWidthString isLineBreak />\n }\n\n // COMPAT: If the text is empty, it's because it's on the edge of an inline\n // node, so we render a zero-width space so that the selection can be\n // inserted next to it still.\n if (leaf.text === '') {\n return <ZeroWidthString />\n }\n\n // COMPAT: Browsers will collapse trailing new lines at the end of blocks,\n // so we need to add an extra trailing new lines to prevent that.\n if (isLast && leaf.text.slice(-1) === '\n') {\n return <TextString isTrailing text={leaf.text} />\n }\n\n return <TextString text={leaf.text} />\n}\n\n/**\n * Leaf strings with text in them.\n */\n\nconst TextString = (props: { text: string; isTrailing?: boolean }) => {\n const { text, isTrailing = false } = props\n return (\n <span data-slate-string>\n {text}\n {isTrailing ? '\n' : null}\n \n)\n}\n\n/**\n * Leaf strings without text, render as zero-width strings.\n */\n\nconst ZeroWidthString = (props: { length?: number; isLineBreak?: boolean }) => {\n const { length = 0, isLineBreak = false } = props\n return (\n <span\n data-slate-zero-width={isLineBreak ? 'n' : 'z'}\n data-slate-length={length}\n >\n {'\uFEFF'}\n {isLineBreak ?
 : null}\n \n)\n}\n\nexport default String\n","import React from 'react'\nimport { Element, Range, Mark, Text } from 'slate'\n\nimport { useEditor } from '../hooks/use-editor'\nimport { Leaf } from '../utils/leaf'\n\n/**\n * `CustomAnnotationProps` are passed to the `renderAnnotation` handler.\n */\n\nexport interface CustomAnnotationProps {\n annotation: Range\n children: any\n key: string\n leaf: Leaf\n text: Text\n attributes: {\n 'data-slate-annotation': true\n }\n}\n\n/**\n * The default custom annotation renderer.\n */\n\nexport const CustomAnnotation = (props: CustomAnnotationProps) => {\n const { attributes, children } = props\n return <span {...attributes}>{children}\n}\n\nexport interface CustomDecorationProps {\n children: any\n decoration: Range\n leaf: Leaf\n text: Text\n attributes: {\n 'data-slate-decoration': true\n }\n}\n\n/**\n * The default custom decoration renderer.\n */\n\nexport const CustomDecoration = (props: CustomDecorationProps) => {\n const { attributes, children } = props\n return <span {...attributes}>{children}\n}\n\n/**\n * `CustomElementProps` are passed to the `renderElement` handler.\n */\n\nexport interface CustomElementProps {\n children: any\n element: Element\n attributes: {\n 'data-slate-inline'?: true\n 'data-slate-node': 'element'\n

'data-slate-void'?: true\n dir?: 'rtl'\n ref: any\n }\n}\n\n/**\n * The default element renderer.\n */\n\nexport const CustomElement = (props: CustomElementProps) => {\n const { attributes, children, element } = props\n const editor = useEditor()\n const Tag = editor.isInline(element) ? 'span' : 'div'\n return (\n <Tag {...attributes} style={{ position: 'relative' }}>\n {children}\n </Tag>\n)\n}\n\n/**\n * `CustomMarkProps` are passed to the `renderMark` handler.\n */\n\nexport interface CustomMarkProps {\n children: any\n mark: Mark\n leaf: Leaf\n text: Text\n attributes: {\n 'data-slate-mark': true\n }\n}\n\n/**\n * The default custom mark renderer.\n */\n\nexport const CustomMark = (props: CustomMarkProps) => {\n const { attributes, children } = props\n return <span {...attributes}>{children}\n}\n\n/**\n * A custom decoration for the default placeholder behavior.\n */\n\nexport const PlaceholderDecoration = (props: CustomDecorationProps) => {\n const { decoration, attributes, children } = props\n const { placeholder } = decoration\n return (\n <span {...attributes}>\n <span\n contentEditable={false}\n style={{\n pointerEvents: 'none',\n display: 'inline-block',\n verticalAlign: 'text-top',\n width: '0',\n maxWidth: '100%',\n whiteSpace: 'nowrap',\n opacity: '0.333',\n }}\n >\n {placeholder}\n \n {children}\n \n)\n}\n","import { Node, Ancestor, Editor } from 'slate'\n\nimport { Key } from './key'\n\n/**\n * Two weak maps that allow us rebuild a path given a node. They are populated\n * at render time such that after a render occurs we can always backtrack.\n */\n\nexport const NODE_TO_INDEX: WeakMap<Node, number> = new WeakMap()\nexport const NODE_TO_PARENT: WeakMap<Node, Ancestor> = new WeakMap()\n\n/**\n * Weak maps that allow us to go between Slate nodes and DOM nodes. These\n * are used to resolve DOM event-related logic into Slate actions.\n */\n\nexport const EDITOR_TO_ELEMENT: WeakMap<Editor, HTMLElement> = new WeakMap()\nexport const NODE_TO_ELEMENT: WeakMap<Node, HTMLElement> = new WeakMap()\nexport const ELEMENT_TO_NODE: WeakMap<HTMLElement, Node> = new WeakMap()\nexport const NODE_TO_KEY: WeakMap<Node, Key> = new WeakMap()\nexport const KEY_TO_ELEMENT: WeakMap<Key, HTMLElement> = new WeakMap()\n\n/**\n * Weak maps for storing editor-related state.\n */\n\nexport const IS_READ_ONLY: WeakMap<Editor, boolean> = new WeakMap()\nexport const IS_FOCUSED: WeakMap<Editor, boolean> = new WeakMap()\nexport const IS_DRAGGING: WeakMap<Editor, boolean> = new WeakMap()\nexport const IS_CLICKING: WeakMap<Editor, boolean> = new WeakMap()\nexport const PLACEHOLDER: WeakMap<Editor, string | undefined> = new WeakMap()\n\n/**\n * Symbols.\n */\n\nexport const PLACEHOLDER_SYMBOL = Symbol('placeholder')\n","function _arrayWithoutHoles(arr) {\n if (Array.isArray(arr)) {\n for (var i = 0, arr2 = new Array(arr.length); i < arr.length; i++) {\n arr2[i] = arr[i];\n }\n\n return arr2;\n }\n}\n\nmodule.exports = _arrayWithoutHoles;","function _iterableToArray(iter) {\n if (Symbol.iterator in Object(iter) || Object.prototype.toString.call(iter) === \"[object Arguments]\") return Array.from(iter);\n}\n\nmodule.exports = _iterableToArray;","function _nonIterableSpread() {\n throw new TypeError(\"Invalid attempt to spread non-iterable instance\");\n}\n\nmodule.exports = _nonIterableSpread;","var arrayWithoutHoles = require(\"./arrayWithoutHoles\");\n\nvar iterableToArray = require(\"./iterableToArray\");\n\nvar nonIterableSpread = require(\"./nonIterableSpread\");\n\nfunction _toConsumableArray(arr) {\n return arrayWithoutHoles(arr) || iterableToArray(arr) || nonIterableSpread();\n}\n\nmodule.exports = _toConsumableArray;","function _defineProperty(obj, key, value) {\n if (key in obj) {\n Object.defineProperty(obj, key, {\n value: value,\n enumerable: true,\n configurable: true,\n writable: true\n });\n } else {\n obj[key] = value;\n }\n\n return obj;\n}\n\nmodule.exports = _defineProperty;","/*!\n * isobject <https://github.com/jonschlinkert/isobject>\n *\n * Copyright (c) 2014-2017, Jon Schlinkert.\n * Released under the MIT License.\n */\n\nexport default function isObject(val) {\n return val != null && typeof val === 'object' && Array.isArray(val) === false;\n}\n","/*!\n * is-plain-object <https://github.com/jonschlinkert/is-plain-object>\n *\n * Copyright (c) 2014-2017, Jon Schlinkert.\n * Released under the MIT License.\n */\n\nimport isObject from 'isobject';\n\nfunction isObjectObject(o) {\n return isObject(o) === true\n && Object.prototype.toString.call(o) === '[object Object]';\n}\n\nexport default function isPlainObject(o) {\n var ctor,prot;\n\n if (isObjectObject(o) === false) return false;\n\n // If has modified constructor\n ctor = o.constructor;\n if (typeof ctor !== 'function') return false;\n\n // If has modified prototype\n prot = ctor.prototype;\n if (isObjectObject(prot) === false) return false;\n\n // If constructor does not have an

Object-specific method\n if (prot.hasOwnProperty('isPrototypeOf') === false) {\n   return false;\n }\n\n // Most likely a plain Object\n return true;\n};\n","import isPlainObject from 'is-plain-object'\nimport { Range, Mark } from 'slate'\n\n/**\n * The `Leaf` interface represents the individual leaves inside a text node,\n * once annotations and decorations have been applied.\n */\n\ninterface Leaf {\n annotations: Record<string, Range>\n decorations: Range[]\n marks: Mark[]\n text: string\n}\n\nnamespace Leaf {\n /**\n   * Check if two leaves are equal.\n   */\n\n export const equals = (leaf: Leaf, another: Leaf): boolean => {\n   return (\n   leaf.text === another.text &&\n   leaf.annotations.length === another.annotations.length &&\n   leaf.decorations.length === another.decorations.length &&\n   leaf.marks.length === another.marks.length &&\n   leaf.marks.every(m => Mark.exists(m, another.marks)) &&\n   another.marks.every(m => Mark.exists(m, leaf.marks)) &&\n   isRangeListEqual(leaf.decorations, another.decorations) &&\n   isRangeMapEqual(leaf.annotations, another.annotations)\n   )\n }\n\n /**\n   * Check if a value is a `Leaf` object.\n   */\n\n export const isLeaf = (value: any): value is Leaf => {\n   return (\n   isPlainObject(value) &&\n   typeof value.text === 'string' &&\n   Mark.isMarkSet(value.marks) &&\n   Range.isRangeList(value.decorations) &&\n   Range.isRangeMap(value.annotations)\n   )\n }\n\n /**\n   * Split a leaf into two at an offset.\n   */\n\n export const split = (leaf: Leaf, offset: number): [Leaf, Leaf] => {\n   return [\n   {\n   text: leaf.text.slice(0, offset),\n   marks: leaf.marks,\n   annotations: { ...leaf.annotations },\n   decorations: [...leaf.decorations],\n   },\n   {\n   text: leaf.text.slice(offset),\n   marks: leaf.marks,\n   annotations: { ...leaf.annotations },\n   decorations: [...leaf.decorations],\n   },\n   ]\n }\n}\n\n/**\n * Check if a list of ranges is equal to another.\n *\n * PERF: this requires the two lists to also have the ranges inside them in the\n * same order, but this is an okay constraint for us since decorations are\n * kept in order, and the odd case where they aren't is okay to re-render for.\n */\n\nconst isRangeListEqual = (list: Range[], another: Range[]): boolean => {\n if (list.length !== another.length) {\n   return false\n }\n\n for (let i = 0; i < list.length; i++) {\n   const range = list[i]\n   const other = another[i]\n\n   if (!Range.equals(range, other)) {\n   return false\n   }\n }\n\n return true\n}\n\n/**\n * Check if a map of ranges is equal to another.\n */\n\nconst isRangeMapEqual = (\n map: Record<string, Range>,\n another: Record<string, Range>\n): boolean => {\n if (Object.keys(map).length !== Object.keys(another).length) {\n   return false\n }\n\n for (const key in map) {\n   const range = map[key]\n   const other = another[key]\n\n   if (!Range.equals(range, other)) {\n   return false\n   }\n }\n\n return true\n}\n\nexport { Leaf, isRangeListEqual, isRangeMapEqual }\n","import React from 'react'\nimport { Mark, Range, Text, Element } from 'slate'\nimport String from './string'\nimport {\n CustomAnnotation,\n CustomAnnotationProps,\n CustomDecoration,\n CustomDecorationProps,\n CustomMark,\n CustomMarkProps,\n PlaceholderDecoration,\n} from './custom'\nimport { PLACEHOLDER_SYMBOL } from '../utils/weak-maps'\nimport { Leaf as SlateLeaf } from '../utils/leaf'\n\n/**\n * Individual leaves in a text node with unique formatting.\n */\n\nconst Leaf = (props: {\n isLast: boolean\n leaf: SlateLeaf\n parent: Element\n renderAnnotation?: (props: CustomAnnotationProps) => JSX.Element\n renderDecoration?: (props: CustomDecorationProps) => JSX.Element\n renderMark?: (props: CustomMarkProps) => JSX.Element\n text: Text\n}) => {\n const {\n   leaf,\n   isLast,\n   text,\n   parent,\n   renderAnnotation = (props: CustomAnnotationProps) => (\n   <CustomAnnotation {...props} />\n   ),\n   renderDecoration = (props: CustomDecorationProps) => (\n   <CustomDecoration {...props} />\n   ),\n   renderMark = (props: CustomMarkProps) => <CustomMark {...props} />,\n } = props\n\n let children = (\n   <String isLast={isLast} leaf={leaf} parent={parent} text={text} />\n)\n\n // COMPAT: Having the `data-` attributes on these leaf elements ensures that\n // in certain misbehaving browsers they aren't weirdly cloned/destroyed by\n // contenteditable behaviors. (2019/05/08)\n for (const mark of leaf.marks) {\n   const ret = renderMark({\n   children,\n   leaf,\n   mark,\n   text,\n   attributes: {\n   'data-slate-mark': true,\n   },\n   })\n\n   if (ret) {\n   children = ret\n   }\n }\n\n for (const decoration of leaf.decorations) {\n   const p = {\n   children,\n   decoration,\n   leaf,\n   text,\n   attributes: {\n   'data-slate-decoration': true,\n   },\n   }\n\n   if (PLACEHOLDER_SYMBOL in decoration) {\n   // @ts-ignore\n   children = <PlaceholderDecoration {...p} />\n   } else {\n   // @ts-ignore\n   const ret = renderDecoration(p)\n\n   if (ret) {\n   children = ret\n   }\n   }\n }\n\n for (const key in leaf.annotations) {\n   const annotation = leaf.annotations[key]\n   const ret = renderAnnotation({\n   annotation,\n   children,\n   key,\n   leaf,\n   text,\n   attributes: {\n   'data-slate-

annotation': true,\n },\n })\n\n if (ret) {\n children = ret\n }\n }\n\n return <span data-slate-leaf>{children}\n}\n\nconst MemoizedLeaf = React.memo(Leaf, (prev, next) => {\n return (\n next.parent === prev.parent &&\n next.isLast === prev.isLast &&\n next.renderAnnotation === prev.renderAnnotation &&\n next.renderDecoration === prev.renderDecoration &&\n next.renderMark === prev.renderMark &&\n next.text === prev.text &&\n SlateLeaf.equals(next.leaf, prev.leaf)\n)\n})\n\nexport default MemoizedLeaf\n","import React, { useLayoutEffect, useRef } from 'react'\nimport { Range, Element, Mark, Text as SlateText } from 'slate'\n\nimport Leaf from './leaf'\nimport { Leaf as SlateLeaf } from '../utils/leaf'\nimport { useEditor } from '../hooks/use-editor'\nimport {\n KEY_TO_ELEMENT,\n NODE_TO_ELEMENT,\n ELEMENT_TO_NODE,\n} from '../utils/weak-maps'\nimport {\n CustomAnnotationProps,\n CustomDecorationProps,\n CustomMarkProps,\n} from './custom'\n\n/**\n * Text.\n */\n\nconst Text = (props: {\n annotations: Record<string, Range>\n decorations: Range[]\n isLast: boolean\n parent: Element\n renderAnnotation?: (props: CustomAnnotationProps) => JSX.Element\n renderDecoration?: (props: CustomDecorationProps) => JSX.Element\n renderMark?: (props: CustomMarkProps) => JSX.Element\n text: SlateText\n}) => {\n const {\n annotations,\n decorations,\n isLast,\n parent,\n renderAnnotation,\n renderDecoration,\n renderMark,\n text,\n } = props\n const editor = useEditor()\n const ref = useRef<HTMLSpanElement>(null)\n const leaves = getLeaves(text, annotations, decorations)\n const key = editor.findKey(text)\n const children = []\n\n for (let i = 0; i < leaves.length; i++) {\n const leaf = leaves[i]\n\n children.push(\n <Leaf\n isLast={isLast && i === leaves.length - 1}\n key={`${key.id}-${i}`}\n leaf={leaf}\n text={text}\n parent={parent}\n renderAnnotation={renderAnnotation}\n renderDecoration={renderDecoration}\n renderMark={renderMark}\n />\n)\n }\n\n console.log('render (text)')\n\n // Update element-related weak maps with the DOM element ref.\n useLayoutEffect(() => {\n if (ref.current) {\n console.log('add (text)', key)\n KEY_TO_ELEMENT.set(key, ref.current)\n NODE_TO_ELEMENT.set(text, ref.current)\n ELEMENT_TO_NODE.set(ref.current, text)\n } else {\n console.log('remove (text)', key)\n KEY_TO_ELEMENT.delete(key)\n NODE_TO_ELEMENT.delete(text)\n }\n })\n\n return (\n <span data-slate-node=\"text\" ref={ref}>\n {children}\n \n)\n}\n\n/**\n * Get the leaves for a text node given annotations and decorations.\n */\n\nconst getLeaves = (\n node: SlateText,\n annotations: Record<string, Range>,\n decorations: Range[]\n): SlateLeaf[] => {\n const { text, marks } = node\n let leaves: SlateLeaf[] = [{ text, marks, annotations: {}, decorations: [] }]\n\n const compile = (\n collection: 'annotations' | 'decorations',\n range: Range,\n key?: string\n) => {\n const [start, end] = Range.edges(range)\n const next = []\n let o = 0\n\n for (const leaf of leaves) {\n const { length } = leaf.text\n const offset = o\n o += length\n\n // If the range encompases the entire leaf, add the range.\n if (start.offset <= offset && end.offset >= offset + length) {\n if (collection === 'annotations') {\n leaf.annotations[key!] = range\n } else {\n leaf.decorations.push(range)\n }\n\n next.push(leaf)\n continue\n }\n\n // If the range starts after the leaf, or ends before it, continue.\n if (\n start.offset > offset + length ||\n end.offset < offset ||\n (end.offset === offset && offset !== 0)\n) {\n next.push(leaf)\n continue\n }\n\n // Otherwise we need to split the leaf, at the start, end, or both,\n // and add the range to the middle intersecting section. Do the end\n // split first since we don't need to update the offset that way.\n let middle = leaf\n let before\n let after\n\n if (end.offset < offset + length) {\n ;[middle, after] = SlateLeaf.split(middle, end.offset - offset)\n }\n\n if (start.offset > offset) {\n ;[before, middle] = SlateLeaf.split(middle, start.offset - offset)\n }\n\n if (collection === 'annotations') {\n middle.annotations[key!] = range\n } else {\n middle.decorations.push(range)\n }\n\n if (before) {\n next.push(before)\n }\n\n next.push(middle)\n\n if (after) {\n next.push(after)\n }\n }\n\n leaves = next\n }\n\n for (const key in annotations) {\n const range = annotations[key]\n compile('annotations', range, key)\n }\n\n for (const range of decorations) {\n compile('decorations', range)\n }\n\n return leaves\n}\n\nconst MemoizedText = React.memo(Text, (prev, next) => {\n if (\n next.parent === prev.parent &&\n next.isLast === prev.isLast &&\n next.renderAnnotation === prev.renderAnnotation &&\n next.renderDecoration === prev.renderDecoration &&\n next.renderMark === prev.renderMark &&\n next.text === prev.text\n) {\n return SlateLeaf.equals(\n {\n ...next.text,\n annotations: next.annotations,\n decorations:

next.decorations,\n },\n {\n ...prev.text,\n annotations: prev.annotations,\n decorations: prev.decorations,\n }\n)\n }\n\n return false\n})\n\nexport default MemoizedText\n","import { createContext, useContext } from 'react'\n\n/**\n * A React context for sharing the `readOnly` state of the editor.\n */\n\nexport const ReadOnlyContext = createContext(false)\n\n/**\n * Get the current `readOnly` state of the editor.\n */\n\nexport const useReadOnly = (): boolean => {\n return useContext(ReadOnlyContext)\n}\n","import { createContext, useContext } from 'react'\n\n/**\n * A React context for sharing the `selected` state of an element.\n */\n\nexport const SelectedContext = createContext(false)\n\n/**\n * Get the current `selected` state of an element.\n */\n\nexport const useSelected = (): boolean => {\n return useContext(SelectedContext)\n}\n","import React, { useLayoutEffect, useRef } from 'react'\nimport getDirection from 'direction'\nimport { Node, Range, NodeEntry, Element as SlateElement, Path } from 'slate'\n\nimport Text from './text'\nimport Children from './children'\nimport { useEditor } from '../hooks/use-editor'\nimport { useReadOnly } from '../hooks/use-read-only'\nimport { SelectedContext } from '../hooks/use-selected'\nimport {\n NODE_TO_ELEMENT,\n ELEMENT_TO_NODE,\n NODE_TO_PARENT,\n NODE_TO_INDEX,\n KEY_TO_ELEMENT,\n} from '../utils/weak-maps'\nimport {\n CustomAnnotationProps,\n CustomDecorationProps,\n CustomElement,\n CustomElementProps,\n CustomMarkProps,\n} from './custom'\nimport { isRangeListEqual, isRangeMapEqual } from '../utils/leaf'\n\n/**\n * Element.\n */\n\nconst Element = (props: {\n annotations: Record<string, Range>\n decorate: (entry: NodeEntry) => Range[]\n decorations: Range[]\n element: SlateElement\n renderAnnotation?: (props: CustomAnnotationProps) => JSX.Element\n renderDecoration?: (props: CustomDecorationProps) => JSX.Element\n renderElement?: (props: CustomElementProps) => JSX.Element\n renderMark?: (props: CustomMarkProps) => JSX.Element\n selection: Range | null\n}) => {\n const {\n annotations,\n decorate,\n decorations,\n element,\n renderAnnotation,\n renderDecoration,\n renderElement = (props: CustomElementProps) => <CustomElement {...props} />,\n renderMark,\n selection,\n } = props\n const ref = useRef<HTMLElement>(null)\n const editor = useEditor()\n const readOnly = useReadOnly()\n const isInline = editor.isInline(element)\n const key = editor.findKey(element)\n\n let children: JSX.Element | null = (\n <Children\n annotations={annotations}\n decorate={decorate}\n decorations={decorations}\n node={element}\n renderAnnotation={renderAnnotation}\n renderDecoration={renderDecoration}\n renderElement={renderElement}\n renderMark={renderMark}\n selection={selection}\n />\n)\n\n // Attributes that the developer must mix into the element in their\n // custom node renderer component.\n const attributes: {\n 'data-slate-node': 'element'\n 'data-slate-void'?: true\n 'data-slate-inline'?: true\n contentEditable?: false\n dir?: 'rtl'\n ref: any\n } = {\n 'data-slate-node': 'element',\n ref,\n }\n\n if (isInline) {\n attributes['data-slate-inline'] = true\n }\n\n // If it's a block node with inline children, add the proper `dir` attribute\n // for text direction.\n if (!isInline && editor.hasInlines(element)) {\n const text = Node.text(element)\n const dir = getDirection(text)\n\n if (dir === 'rtl') {\n attributes.dir = dir\n }\n }\n\n // If it's a void node, wrap the children in extra void-specific elements.\n if (editor.isVoid(element)) {\n attributes['data-slate-void'] = true\n\n if (!readOnly && isInline) {\n attributes['contentEditable'] = false\n }\n\n const Tag = isInline ? 'span' : 'div'\n const [[text]] = Node.texts(element)\n children = readOnly ? null : (\n <Tag\n data-slate-spacer\n style={{\n height: '0',\n color: 'transparent',\n outline: 'none',\n position: 'absolute',\n }}\n >\n <Text\n annotations={{}}\n decorations={[]}\n isLast={false}\n parent={element}\n text={text}\n />\n </Tag>\n)\n\n NODE_TO_INDEX.set(text, 0)\n NODE_TO_PARENT.set(text, element)\n }\n\n console.log('render (element)')\n\n // Update element-related weak maps with the DOM element ref.\n useLayoutEffect(() => {\n if (ref.current) {\n console.log('add (element)', key)\n KEY_TO_ELEMENT.set(key, ref.current)\n NODE_TO_ELEMENT.set(element, ref.current)\n ELEMENT_TO_NODE.set(ref.current, element)\n } else {\n console.log('remove (element)', key)\n KEY_TO_ELEMENT.delete(key)\n NODE_TO_ELEMENT.delete(element)\n }\n })\n\n return (\n <SelectedContext.Provider value={!!selection}>\n {renderElement({ attributes, children, element })}\n </SelectedContext.Provider>\n)\n}\n\nconst MemoizedElement = React.memo(Element, (prev, next) => {\n return (\n prev.decorate === next.decorate &&\n prev.element === next.element &&\n prev.renderAnnotation === next.renderAnnotation

&&\n prev.renderDecoration === next.renderDecoration &&\n prev.renderElement === next.renderElement &&\n prev.renderMark === next.renderMark &&\n isRangeListEqual(prev.decorations, next.decorations) &&\n isRangeMapEqual(prev.annotations, next.annotations) &&\n (prev.selection === next.selection ||\n (!!prev.selection &&\n !!next.selection &&\n Range.equals(prev.selection, next.selection)))\n)\n})\n\nexport default MemoizedElement\n","import React from 'react'\nimport { Range, Element, NodeEntry, Ancestor, Descendant } from 'slate'\n\nimport ElementComponent from './element'\nimport TextComponent from './text'\nimport { useEditor } from '../hooks/use-editor'\nimport { NODE_TO_INDEX, NODE_TO_PARENT } from '../utils/weak-maps'\nimport {\n CustomAnnotationProps,\n CustomDecorationProps,\n CustomElementProps,\n CustomMarkProps,\n} from './custom'\n\n/**\n * Children.\n */\n\nconst Children = (props: {\n annotations: Record<string, Range>\n decorate: (entry: NodeEntry) => Range[]\n decorations: Range[]\n node: Ancestor\n renderAnnotation?: (props: CustomAnnotationProps) => JSX.Element\n renderDecoration?: (props: CustomDecorationProps) => JSX.Element\n renderElement?: (props: CustomElementProps) => JSX.Element\n renderMark?: (props: CustomMarkProps) => JSX.Element\n selection: Range | null\n}) => {\n const {\n   annotations,\n   decorate,\n   decorations,\n   node,\n   renderAnnotation,\n   renderDecoration,\n   renderElement,\n   renderMark,\n   selection,\n } = props\n const editor = useEditor()\n const path = editor.findPath(node)\n const children = []\n const isLeafBlock =\n   Element.isElement(node) &&\n   !editor.isInline(node) &&\n   editor.hasInlines(node)\n\n for (let i = 0; i < node.nodes.length; i++) {\n   const p = path.concat(i)\n   const n = node.nodes[i] as Descendant\n   const key = editor.findKey(n)\n   const range = editor.getRange(p)\n   const sel = selection && Range.intersection(range, selection)\n   const decs = decorate([n, p])\n   const anns = {}\n\n   for (const dec of decorations) {\n   const d = Range.intersection(dec, range)\n\n   if (d) {\n   decs.push(d)\n   }\n   }\n\n   for (const k in annotations) {\n   const ann = annotations[k]\n   const a = Range.intersection(ann, range)\n\n   if (a) {\n   anns[k] = a\n   }\n   }\n\n   if (Element.isElement(n)) {\n   children.push(\n   <ElementComponent\n   annotations={anns}\n   decorate={decorate}\n   decorations={decs}\n   element={n}\n   key={key.id}\n   renderAnnotation={renderAnnotation}\n   renderDecoration={renderDecoration}\n   renderElement={renderElement}\n   renderMark={renderMark}\n   selection={sel}\n   />\n   )\n   } else {\n   children.push(\n   <TextComponent\n   annotations={anns}\n   decorations={decs}\n   key={key.id}\n   isLast={isLeafBlock && i === node.nodes.length}\n   parent={node}\n   renderAnnotation={renderAnnotation}\n   renderDecoration={renderDecoration}\n   renderMark={renderMark}\n   text={n}\n   />\n   )\n   }\n\n   NODE_TO_INDEX.set(n, i)\n   NODE_TO_PARENT.set(n, node)\n }\n\n return <React.Fragment>{children}</React.Fragment>\n}\n\nexport default Children\n","import { createContext, useContext } from 'react'\n\n/**\n * A React context for sharing the `focused` state of the editor.\n */\n\nexport const FocusedContext = createContext(false)\n\n/**\n * Get the current `focused` state of the editor.\n */\n\nexport const useFocused = (): boolean => {\n return useContext(FocusedContext)\n}\n","export const IS_IOS =\n typeof navigator !== 'undefined' &&\n typeof window !== 'undefined' &&\n /iPad|iPhone|iPod/.test(navigator.userAgent) &&\n !window.MSStream\n\nexport const IS_APPLE =\n typeof navigator !== 'undefined' && /Mac OS X/.test(navigator.userAgent)\n\nexport const IS_FIREFOX =\n typeof navigator !== 'undefined' &&\n /^(?!.*Seamonkey)(?=.*Firefox).*/i.test(navigator.userAgent)\n\nexport const IS_SAFARI =\n typeof navigator !== 'undefined' &&\n /Version\\/[\\d\\.]+.*Safari/.test(navigator.userAgent)\n","function _arrayWithHoles(arr) {\n if (Array.isArray(arr)) return arr;\n}\n\nmodule.exports = _arrayWithHoles;","function _iterableToArrayLimit(arr, i) {\n if (!(Symbol.iterator in Object(arr) || Object.prototype.toString.call(arr) === \"[object Arguments]\")) {\n   return;\n }\n\n var _arr = [];\n var _n = true;\n var _d = false;\n var _e = undefined;\n\n try {\n   for (var _i = arr[Symbol.iterator](), _s; !(_n = (_s = _i.next()).done); _n = true) {\n   _arr.push(_s.value);\n\n   if (i && _arr.length === i) break;\n   }\n } catch (err) {\n   _d = true;\n   _e = err;\n } finally {\n   try {\n   if (!_n && _i[\"return\"] != null) _i[\"return\"]();\n   } finally {\n   if (_d) throw _e;\n   }\n }\n\n return _arr;\n}\n\nmodule.exports = _iterableToArrayLimit;","function _nonIterableRest() {\n throw new TypeError(\"Invalid attempt to destructure non-iterable instance\");\n}\n\nmodule.exports = _nonIterableRest;","var

arrayWithHoles = require(\"./arrayWithHoles\");\n\nvar iterableToArrayLimit = require(\"./iterableToArrayLimit\");\n\nvar nonIterableRest = require(\"./nonIterableRest\");\n\nfunction _slicedToArray(arr, i) {\n return arrayWithHoles(arr) || iterableToArrayLimit(arr, i) || nonIterableRest();\n}\n\nmodule.exports = _slicedToArray;","/**\n * Types.\n */\n\nexport type DOMComment = Comment\nexport type DOMElement = Element\nexport type DOMText = Text\nexport type DOMNode = Node\nexport type DOMPoint = [Node, number]\nexport type DOMRange = Range\nexport type DOMSelection = Selection\nexport type DOMStaticRange = StaticRange\n\n/**\n * Check if a DOM node is a comment node.\n */\n\nexport const isDOMComment = (value: any): value is DOMComment => {\n return isDOMNode(value) && value.nodeType === 8\n}\n\n/**\n * Check if a DOM node is an element node.\n */\n\nexport const isDOMElement = (value: any): value is DOMElement => {\n return isDOMNode(value) && value.nodeType === 1\n}\n\n/**\n * Check if a value is a DOM node.\n */\n\nexport const isDOMNode = (value: any): value is DOMNode => {\n return value instanceof Node\n}\n\n/**\n * Check if a DOM node is an element node.\n */\n\nexport const isDOMText = (value: any): value is DOMText => {\n return isDOMNode(value) && value.nodeType === 3\n}\n\n/**\n * Normalize a DOM point so that it always refers to a text node.\n */\n\nexport const normalizeDOMPoint = (domPoint: DOMPoint): DOMPoint => {\n let [node, offset] = domPoint\n\n // If it's an element node, its offset refers to the index of its children\n // including comment nodes, so try to find the right text child node.\n if (isDOMElement(node) && node.childNodes.length) {\n   const isLast = offset === node.childNodes.length\n   const direction = isLast ? 'backward' : 'forward'\n   const index = isLast ? offset - 1 : offset\n   node = getEditableChild(node, index, direction)\n\n   // If the node has children, traverse until we have a leaf node. Leaf nodes\n   // can be either text nodes, or other void DOM nodes.\n   while (isDOMElement(node) && node.childNodes.length) {\n   const i = isLast ? node.childNodes.length - 1 : 0\n   node = getEditableChild(node, i, direction)\n   }\n\n   // Determine the new offset inside the text node.\n   offset = isLast && node.textContent != null ? node.textContent.length : 0\n }\n\n // Return the node and offset.\n return [node, offset]\n}\n\n/**\n * Get the nearest editable child at `index` in a `parent`, preferring\n * `direction`.\n */\n\nexport const getEditableChild = (\n parent: DOMElement,\n index: number,\n direction: 'forward' | 'backward'\n): DOMNode => {\n const { childNodes } = parent\n let child = childNodes[index]\n let i = index\n let triedForward = false\n let triedBackward = false\n\n // While the child is a comment node, or an element node with no children,\n // keep iterating to find a sibling non-void, non-comment node.\n while (\n   isDOMComment(child) ||\n   (isDOMElement(child) && child.childNodes.length === 0) ||\n   (isDOMElement(child) && child.getAttribute('contenteditable') === 'false')\n) {\n   if (triedForward && triedBackward) {\n   break\n   }\n\n   if (i >= childNodes.length) {\n   triedForward = true\n   i = index - 1\n   direction = 'backward'\n   continue\n   }\n\n   if (i < 0) {\n   triedBackward = true\n   i = index + 1\n   direction = 'forward'\n   continue\n   }\n\n   child = childNodes[i]\n   i += direction === 'forward' ? 1 : -1\n }\n\n return child\n}\n","import { Fragment, Range as SlateRange, Node as SlateNode } from 'slate'\n\nimport { ReactEditor } from '../plugin'\nimport { isDOMText, isDOMElement, DOMNode } from './dom'\n\nnamespace Utils {\n /**\n   * Get the `Fragment` data from a `DataTransfer` object.\n   */\n\n export const getFragmentData = (\n   dataTransfer: DataTransfer\n): Fragment | undefined => {\n   const base64 = dataTransfer.getData('application/x-slate-fragment')\n\n   if (base64) {\n   const decoded = decodeURIComponent(window.atob(base64))\n   const fragment = JSON.parse(decoded)\n   return fragment\n   }\n }\n\n /**\n   * Set the currently selected fragment to the clipboard.\n   */\n\n export const setFragmentData = (\n   dataTransfer: DataTransfer,\n   editor: ReactEditor\n): void => {\n   const { value } = editor\n   const { selection } = value\n\n   if (!selection) {\n   return\n   }\n\n   const [start, end] = SlateRange.edges(selection)\n   const startVoid = editor.getMatch(start.path, 'void')\n   const endVoid = editor.getMatch(end.path, 'void')\n\n   if (SlateRange.isCollapsed(selection) && !startVoid) {\n   return\n   }\n\n   // Create a fake selection so that we can add a Base64-encoded copy of the\n   // fragment to the HTML, to decode on future pastes.\n   const domRange = editor.toDomRange(selection)\n   let contents = domRange.cloneContents()\n   let attach = contents.childNodes[0] as HTMLElement\n\n   // Make sure attach is non-empty, since empty nodes will not get copied.\n   contents.childNodes.forEach(node => {\n   if (node.textContent && node.textContent.trim() !== '') {\n   attach = node as HTMLElement\n   }\n   })\n\n   //

COMPAT: If the end node is a void node, we need to move the end of the\n // range from the void node's spacer span, to the end of the void node's\n // content, since the spacer is before void's content in the DOM.\n if (endVoid) {\n const [voidNode] = endVoid\n const r = domRange.cloneRange()\n const domNode = editor.toDomNode(voidNode)\n r.setEndAfter(domNode)\n contents = r.cloneContents()\n }\n\n // COMPAT: If the start node is a void node, we need to attach the encoded\n // fragment to the void node's content node instead of the spacer, because\n // attaching it to empty `<div>/<span>` nodes will end up having it erased by\n // most browsers. (2018/04/27)\n if (startVoid) {\n attach = contents.querySelector('[data-slate-spacer]')! as HTMLElement\n }\n\n // Remove any zero-width space spans from the cloned DOM so that they don't\n // show up elsewhere when pasted.\n Array.from(contents.querySelectorAll('[data-slate-zero-width]')).forEach(\n zw => {\n const isNewline = zw.getAttribute('data-slate-zero-width') === 'n'\n zw.textContent = isNewline ? '\\n' : ''\n }\n)\n\n // Set a `data-slate-fragment` attribute on a non-empty node, so it shows up\n // in the HTML, and can be used for intra-Slate pasting. If it's a text\n // node, wrap it in a `<span>` so we have something to set an attribute on.\n if (isDOMText(attach)) {\n const span = document.createElement('span')\n // COMPAT: In Chrome and Safari, if we don't add the `white-space` style\n // then leading and trailing spaces will be ignored. (2017/09/21)\n span.style.whiteSpace = 'pre'\n span.appendChild(attach)\n contents.appendChild(span)\n attach = span\n }\n\n const fragment = SlateNode.fragment(value, selection)\n const string = JSON.stringify(fragment)\n const encoded = window.btoa(encodeURIComponent(string))\n attach.setAttribute('data-slate-fragment', encoded)\n dataTransfer.setData('application/x-slate-fragment', encoded)\n\n // Add the content to a so that we can get its inner HTML.\n const div = document.createElement('div')\n div.appendChild(contents)\n dataTransfer.setData('text/html', div.innerHTML)\n dataTransfer.setData('text/plain', getPlainText(div))\n }\n}\n\n/**\n * Get a plaintext representation of the content of a node, accounting for block\n * elements which get a newline appended.\n */\n\nconst getPlainText = (domNode: DOMNode) => {\n let text = ''\n\n if (isDOMText(domNode) && domNode.nodeValue) {\n return domNode.nodeValue\n }\n\n if (isDOMElement(domNode)) {\n for (const childNode of Array.from(domNode.childNodes)) {\n text += getPlainText(childNode)\n }\n\n var display = getComputedStyle(domNode).getPropertyValue('display')\n\n if (display === 'block' || display === 'list' || domNode.tagName === 'BR') {\n text += '\\n'\n }\n }\n\n return text\n}\n\nexport { Utils }\n","import React, { useLayoutEffect, useRef, useMemo, useCallback } from 'react'\nimport {\n Value,\n Element,\n NodeEntry,\n Range as SlateRange,\n Operation,\n} from 'slate'\nimport debounce from 'lodash/debounce'\nimport scrollIntoView from 'scroll-into-view-if-needed'\n\nimport Children from './children'\nimport { EditorContext } from '../hooks/use-editor'\nimport { FocusedContext } from '../hooks/use-focused'\nimport { IS_FIREFOX, IS_SAFARI } from '../utils/environment'\nimport { ReactEditor } from '../plugin'\nimport { ReadOnlyContext } from '../hooks/use-read-only'\nimport {\n DOMElement,\n DOMNode,\n DOMRange,\n isDOMElement,\n isDOMNode,\n DOMStaticRange,\n} from '../utils/dom'\nimport {\n EDITOR_TO_ELEMENT,\n ELEMENT_TO_NODE,\n IS_READ_ONLY,\n NODE_TO_ELEMENT,\n IS_FOCUSED,\n PLACEHOLDER,\n} from '../utils/weak-maps'\nimport { Utils } from '../utils/utils'\nimport {\n CustomAnnotationProps,\n CustomDecorationProps,\n CustomElementProps,\n CustomMarkProps,\n} from './custom'\n\n/**\n * Editor.\n */\n\nconst Editor = (props: {\n decorate?: (entry: NodeEntry) => SlateRange[]\n editor: ReactEditor\n onChange: (value: Value, operations: Operation[]) => void\n placeholder?: string\n readOnly?: boolean\n role?: string\n style?: Record<string, any>\n renderAnnotation?: (props: CustomAnnotationProps) => JSX.Element\n renderDecoration?: (props: CustomDecorationProps) => JSX.Element\n renderElement?: (props: CustomElementProps) => JSX.Element\n renderMark?: (props: CustomMarkProps) => JSX.Element\n value: Value\n [key: string]: any\n}) => {\n const {\n decorate = defaultDecorate,\n editor,\n value,\n onChange,\n placeholder,\n readOnly = false,\n renderAnnotation,\n renderDecoration,\n renderElement,\n renderMark,\n role = 'textbox',\n style = {},\n ...attributes\n } = props\n if (!Value.isValue(value)) {\n throw new Error(\n `The \\`value=\\` prop you passed to <Editor> was not a valid Slate value: ${JSON.stringify(\n value\n )}`\n)\n }\n\n const ref = useRef<HTMLDivElement>(null)\n\n // Update internal state on each render.\n editor.onChange = onChange\n

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editor.value = value\n  PLACEHOLDER.set(editor, placeholder)\n  IS_READ_ONLY.set(editor, readOnly)\n\n  // Keep track of some state for the event handler logic.\n  const state = useMemo(\n    () => ({\n      isComposing: false,\n      isUpdatingSelection: false,\n      latestElement: null as DOMElement | null,\n    }),\n    []\n  )\n\n  // Update element-related weak maps with the DOM element ref.\n  useLayoutEffect(() => {\n    if (ref.current) {\n      EDITOR_TO_ELEMENT.set(editor, ref.current)\n      NODE_TO_ELEMENT.set(value, ref.current)\n      ELEMENT_TO_NODE.set(ref.current, value)\n    } else {\n      NODE_TO_ELEMENT.delete(value)\n    }\n  })\n\n  // Attach a native DOM event handler for `selectionchange`, because React's\n  // built-in `onSelect` handler doesn't fire for all selection changes. It's a\n  // leaky polyfill that only fires on keypresses or clicks. Instead, we want to\n  // fire for any change to the selection inside the editor. (2019/11/04)\n  // https://github.com/facebook/react/issues/5785\n  useLayoutEffect(() => {\n    window.document.addEventListener('selectionchange', onDOMSelectionChange)\n\n    return () => {\n      window.document.removeEventListener(\n        'selectionchange',\n        onDOMSelectionChange\n      )\n    }\n  }, [])\n\n  // Attach a native DOM event handler for `beforeinput` events, because React's\n  // built-in `onBeforeInput` is actually a leaky polyfill that doesn't expose\n  // real `beforeinput` events sadly... (2019/11/04)\n  // https://github.com/facebook/react/issues/11211\n  useLayoutEffect(() => {\n    if (ref.current) {\n      // @ts-ignore The `beforeinput` event isn't recognized.\n      ref.current.addEventListener('beforeinput', onDOMBeforeInput)\n    }\n\n    return () => {\n      if (ref.current) {\n        // @ts-ignore The `beforeinput` event isn't recognized.\n        ref.current.removeEventListener('beforeinput', onDOMBeforeInput)\n      }\n    }\n  }, [])\n\n  console.log('render')\n\n  // Whenever the editor updates, make sure the DOM selection state is in sync.\n  useLayoutEffect(() => {\n    console.log('useLayoutEffect: sync selection')\n    const { selection } = value\n    const domSelection = window.getSelection()\n\n    if (state.isComposing || !domSelection || !editor.isFocused()) {\n      return\n    }\n\n    const el = editor.toDomNode(value)\n    const domRange = domSelection.getRangeAt(0)\n    const newDomRange = selection && editor.toDomRange(selection)\n\n    if (\n      (!selection && !domRange) ||\n      (domRange && newDomRange && isRangeEqual(domRange, newDomRange))\n    ) {\n      return\n    }\n\n    state.isUpdatingSelection = true\n    console.log('updating domSelection')\n    domSelection.removeAllRanges()\n\n    if (newDomRange) {\n      domSelection.addRange(newDomRange!)\n      const leafEl = newDomRange.startContainer.parentElement!\n      scrollIntoView(leafEl, { scrollMode: 'if-needed' })\n    }\n\n    setTimeout(() => {\n      // COMPAT: In Firefox, it's not enough to create a range, you also need\n      // to focus the contenteditable element too. (2016/11/16)\n      if (newDomRange && IS_FIREFOX) {\n        el.focus()\n      }\n\n      state.isUpdatingSelection = false\n    })\n  })\n\n  // Listen on the native `beforeinput` event to get real \"Level 2\" events. This\n  // is required because React's `beforeinput` is fake and never really attaches\n  // to the real event sadly. (2019/11/01)\n  // https://github.com/facebook/react/issues/11211\n  const onDOMBeforeInput = useCallback(\n    (\n      event: Event & {\n        data: string | null\n        dataTransfer: DataTransfer | null\n        getTargetRanges(): DOMStaticRange[]\n        inputType: string\n        isComposing: boolean\n      }\n    ) => {\n      if (!readOnly && hasEditableTarget(editor, event.target)) {\n        console.log('beforeinput', event)\n        const { inputType } = event\n\n        // These two types occur while a user is composing text and can't be\n        // cancelled. Let them through and wait for the composition to end.\n        if (\n          inputType === 'insertCompositionText' ||\n          inputType === 'deleteCompositionText'\n        ) {\n          return\n        }\n\n        const [targetRange] = event.getTargetRanges()\n\n        if (targetRange && inputType !== 'deleteContent') {\n          const range = editor.toSlateRange(targetRange)\n          editor.select(range)\n        }\n\n        event.preventDefault()\n        editor.onBeforeInput(event)\n      }\n    },\n    []\n  )\n\n  // On native `selectionchange` event, trigger the `onSelect` handler. This is\n  // needed to account for React's `onSelect` being non-standard and not firing\n  // until after a selection has been released. This causes issues in situations\n  // where another change happens while a selection is being dragged.\n  const onDOMSelectionChange = useCallback(\n    debounce(() => {\n      console.log('selectionchange')\n      if (!readOnly && !state.isComposing && !state.isUpdatingSelection) {\n        const { activeElement } = window.document\n        const el = editor.toDomNode(value)\n        const domSelection = window.getSelection()\n        const domRange =\n          domSelection &&\n          domSelection.rangeCount > 0 &&\n          domSelection.getRangeAt(0)\n\n        if (activeElement === el) {\n          state.latestElement =
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activeElement\n IS_FOCUSED.set(editor, true)\n } else {\n IS_FOCUSED.delete(editor)\n }\n\n if (\n domRange &&\n hasEditableTarget(editor, domRange.startContainer) &&\n hasEditableTarget(editor, domRange.endContainer)\n ) {\n const range = editor.toSlateRange(domRange)\n console.log('select', domRange, range)\n editor.select(range)\n } else {\n editor.deselect()\n }\n }\n }, 100),\n []\n )\n\n return (\n <EditorContext.Provider value={editor}>\n <ReadOnlyContext.Provider value={readOnly}>\n <FocusedContext.Provider value={editor.isFocused()}>\n <div\n // COMPAT: The Grammarly Chrome extension works by changing the DOM\n // out from under `contenteditable` elements, which leads to weird\n // behaviors so we have to disable it like editor. (2017/04/24)\n data-gramm={false}\n role={readOnly ? undefined : props.role || 'textbox'}\n {...attributes}\n data-slate-editor\n data-slate-node=\"value\"\n contentEditable={readOnly ? undefined : true}\n suppressContentEditableWarning\n ref={ref}\n style={{\n // Prevent the default outline styles.\n outline: 'none',\n // Preserve adjacent whitespace and new lines.\n whiteSpace: 'pre-wrap',\n // Allow words to break if they are too long.\n wordWrap: 'break-word',\n // Allow for passed-in styles to override anything.\n ...style,\n }}\n onBlur={useCallback((event: React.FocusEvent) => {\n if (\n !readOnly &&\n !state.isUpdatingSelection &&\n hasEditableTarget(editor, event.target) &&\n // COMPAT: If the current `activeElement` is still the previous\n // one, this is due to the window being blurred when the tab\n // itself becomes unfocused, so we want to abort early to allow to\n // editor to stay focused when the tab becomes focused again.\n state.latestElement !== window.document.activeElement\n ) {\n const { relatedTarget } = event\n\n // COMPAT: The `relatedTarget` can be null when the new focus target\n // is not a \"focusable\" element (eg. a `<div>` without `tabindex`\n // set).\n if (relatedTarget) {\n const el = editor.toDomNode(value)\n\n // COMPAT: The event should be ignored if the focus is returning\n // to the editor from an embedded editable element (eg. an <input>\n // element inside a void node).\n if (relatedTarget === el) return\n\n if (isDOMElement(relatedTarget)) {\n // COMPAT: The event should be ignored if the focus is moving from\n // the editor to inside a void node's spacer element.\n if (relatedTarget.hasAttribute('data-slate-spacer')) return\n\n // COMPAT: The event should be ignored if the focus is moving to a\n // non- editable section of an element that isn't a void node (eg.\n // a list item of the check list example).\n const node = editor.toSlateNode(relatedTarget)\n\n if (\n editor.hasDomNode(relatedTarget) &&\n (!Element.isElement(node) || !editor.isVoid(node))\n ) {\n return\n }\n }\n }\n\n IS_FOCUSED.delete(editor)\n }, [])}\n onClick={useCallback((event: React.MouseEvent) => {\n if (\n !readOnly &&\n hasTarget(editor, event.target) &&\n isDOMNode(event.target)\n ) {\n const node = editor.toSlateNode(event.target)\n const path = editor.findPath(node)\n const start = editor.getStart(path)\n\n if (editor.getMatch(start, 'void')) {\n editor.select(start)\n }\n }\n }, [])}\n onCompositionEnd={useCallback((event: React.CompositionEvent) => {\n if (hasEditableTarget(editor, event.target)) {\n state.isComposing = false\n\n // COMPAT: In Chrome, `beforeinput` events for compositions\n // aren't correct and never fire the \"insertFromComposition\"\n // type that we need. So instead, insert whenever a composition\n // ends since it will already have been committed to the DOM.\n if (!IS_SAFARI && event.data) {\n editor.insertText(event.data)\n }\n }\n }, [])}\n onCompositionStart={useCallback((event: React.CompositionEvent) => {\n if (hasEditableTarget(editor, event.target)) {\n state.isComposing = true\n }\n }, [])}\n onCopy={useCallback((event: React.ClipboardEvent) => {\n if (hasEditableTarget(editor, event.target)) {\n event.preventDefault()\n Utils.setFragmentData(event.clipboardData, editor)\n }\n }, [])}\n onCut={useCallback((event: React.ClipboardEvent) => {\n if (!readOnly && hasEditableTarget(editor, event.target)) {\n event.preventDefault()\n Utils.setFragmentData(event.clipboardData, editor)\n const { selection } = value\n\n if (selection
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&& SlateRange.isExpanded(selection)) {\n editor.delete()\n }\n }\n }, [])}\n onDragOver={useCallback((event: React.DragEvent) => {\n if (hasTarget(editor, event.target)) {\n // Only when the target is void, call `preventDefault` to signal\n // that drops are allowed. Editable content is droppable by\n // default, and calling `preventDefault` hides the cursor.\n const node = editor.toSlateNode(event.target)\n\n if (Element.isElement(node) && editor.isVoid(node)) {\n event.preventDefault()\n }\n }\n }, [])}\n onDragStart={useCallback((event: React.DragEvent) => {\n if (hasTarget(editor, event.target)) {\n const node = editor.toSlateNode(event.target)\n const path = editor.findPath(node)\n const voidMatch = editor.getMatch(path, 'void')\n\n // If starting a drag on a void node, make sure it is selected\n // so that it shows up in the selection's fragment.\n if (voidMatch) {\n const range = editor.getRange(path)\n editor.select(range)\n }\n\n Utils.setFragmentData(event.dataTransfer, editor)\n }\n }, [])}\n onFocus={useCallback((event: React.FocusEvent) => {\n if (\n !readOnly &&\n !state.isUpdatingSelection &&\n hasEditableTarget(editor, event.target)\n) {\n const el = editor.toDomNode(value)\n state.latestElement = window.document.activeElement\n\n // COMPAT: If the editor has nested editable elements, the focus\n // can go to them. In Firefox, this must be prevented because it\n // results in issues with keyboard navigation. (2017/03/30)\n if (IS_FIREFOX && event.target !== el) {\n el.focus()\n return\n }\n\n IS_FOCUSED.set(editor, true)\n }\n }, [])}\n onKeyDown={event => {\n if (!readOnly && hasEditableTarget(editor, event.target)) {\n editor.onKeyDown(event.nativeEvent)\n }\n }}\n >\n <Children\n annotations={value.annotations}\n decorate={decorate}\n decorations={decorate([value, []])}\n node={value}\n renderAnnotation={renderAnnotation}\n renderDecoration={renderDecoration}\n renderElement={renderElement}\n renderMark={renderMark}\n selection={value.selection}\n />\n \n </FocusedContext.Provider>\n </ReadOnlyContext.Provider>\n </EditorContext.Provider>\n)\n}\n\n/**\n * A default memoized decorate function.\n */\n\nconst defaultDecorate = () => []\n\n/**\n * Check if two DOM range objects are equal.\n */\n\nconst isRangeEqual = (a: DOMRange, b: DOMRange) => {\n return (\n (a.startContainer === b.startContainer &&\n a.startOffset === b.startOffset &&\n a.endContainer === b.endContainer &&\n a.endOffset === b.endOffset) ||\n (a.startContainer === b.endContainer &&\n a.startOffset === b.endOffset &&\n a.endContainer === b.startContainer &&\n a.endOffset === b.startOffset)\n)\n}\n\n/**\n * Check if the target is in the editor.\n */\n\nconst hasTarget = (\n editor: ReactEditor,\n target: EventTarget | null\n): target is DOMNode => {\n return isDOMNode(target) && editor.hasDomNode(target)\n}\n\n/**\n * Check if the target is editable and in the editor.\n */\n\nconst hasEditableTarget = (\n editor: ReactEditor,\n target: EventTarget | null\n): target is DOMNode => {\n return isDOMNode(target) && editor.hasDomNode(target, { editable: true })\n}\n\nexport default Editor\n","import { useMemo } from 'react'\n\nimport { ReactEditor } from '../plugin'\n\n/**\n * A thin wrapper around `useMemo` to make it easy to get an editor instance.\n */\n\nexport const useSlate = <E extends ReactEditor>(\n Editor: new (...args: any[]) => E\n): E => {\n const editor = useMemo(() => new Editor(), [Editor])\n return editor\n}\n","function _classCallCheck(instance, Constructor) {\n if (!(instance instanceof Constructor)) {\n throw new TypeError(\"Cannot call a class as a function\");\n }\n}\n\nmodule.exports = _classCallCheck;","function _defineProperties(target, props) {\n for (var i = 0; i < props.length; i++) {\n var descriptor = props[i];\n descriptor.enumerable = descriptor.enumerable || false;\n descriptor.configurable = true;\n if (\"value\" in descriptor) descriptor.writable = true;\n Object.defineProperty(target, descriptor.key, descriptor);\n }\n}\n\nfunction _createClass(Constructor, protoProps, staticProps) {\n if (protoProps) _defineProperties(Constructor.prototype, protoProps);\n if (staticProps) _defineProperties(Constructor, staticProps);\n return Constructor;\n}\n\nmodule.exports = _createClass;","function _typeof2(obj) { if (typeof Symbol === \"function\" && typeof Symbol.iterator === \"symbol\") { _typeof2 = function _typeof2(obj) { return typeof obj; }; } else { _typeof2 = function _typeof2(obj) { return obj && typeof Symbol === \"function\" &&

obj.constructor === Symbol && obj !== Symbol.prototype ? \"symbol\" : typeof obj; }; } return _typeof2(obj); }\n\nfunction _typeof(obj) {\n if (typeof Symbol === \"function\" && _typeof2(Symbol.iterator) === \"symbol\") {\n   module.exports = _typeof = function _typeof(obj) {\n   return _typeof2(obj);\n   };\n } else {\n   module.exports = _typeof = function _typeof(obj) {\n   return obj && typeof Symbol === \"function\" && obj.constructor === Symbol && obj !== Symbol.prototype ? \"symbol\" : _typeof2(obj);\n   };\n }\n\n return _typeof(obj);\n}\n\nmodule.exports = _typeof;","function _assertThisInitialized(self) {\n if (self === void 0) {\n   throw new ReferenceError(\"this hasn't been initialised - super() hasn't been called\");\n }\n\n return self;\n}\n\nmodule.exports = _assertThisInitialized;","var _typeof = require(\"../helpers/typeof\");\n\nvar assertThisInitialized = require(\"./assertThisInitialized\");\n\nfunction _possibleConstructorReturn(self, call) {\n if (call && (_typeof(call) === \"object\" || typeof call === \"function\")) {\n   return call;\n }\n\n return assertThisInitialized(self);\n}\n\nmodule.exports = _possibleConstructorReturn;","function _getPrototypeOf(o) {\n module.exports = _getPrototypeOf = Object.setPrototypeOf ? Object.getPrototypeOf : function _getPrototypeOf(o) {\n   return o.__proto__ || Object.getPrototypeOf(o);\n };\n return _getPrototypeOf(o);\n}\n\nmodule.exports = _getPrototypeOf;","var getPrototypeOf = require(\"./getPrototypeOf\");\n\nfunction _superPropBase(object, property) {\n while (!Object.prototype.hasOwnProperty.call(object, property)) {\n   object = getPrototypeOf(object);\n   if (object === null) break;\n }\n\n return object;\n}\n\nmodule.exports = _superPropBase;","var superPropBase = require(\"./superPropBase\");\n\nfunction _get(target, property, receiver) {\n if (typeof Reflect !== \"undefined\" && Reflect.get) {\n   module.exports = _get = Reflect.get;\n } else {\n   module.exports = _get = function _get(target, property, receiver) {\n   var base = superPropBase(target, property);\n   if (!base) return;\n   var desc = Object.getOwnPropertyDescriptor(base, property);\n\n   if (desc.get) {\n   return desc.get.call(receiver);\n   }\n\n   return desc.value;\n   };\n }\n\n return _get(target, property, receiver || target);\n}\n\nmodule.exports = _get;","function _setPrototypeOf(o, p) {\n module.exports = _setPrototypeOf = Object.setPrototypeOf || function _setPrototypeOf(o, p) {\n   o.__proto__ = p;\n   return o;\n };\n\n return _setPrototypeOf(o, p);\n}\n\nmodule.exports = _setPrototypeOf;","var setPrototypeOf = require(\"./setPrototypeOf\");\n\nfunction _inherits(subClass, superClass) {\n if (typeof superClass !== \"function\" && superClass !== null) {\n   throw new TypeError(\"Super expression must either be null or a function\");\n }\n\n subClass.prototype = Object.create(superClass && superClass.prototype, {\n   constructor: {\n   value: subClass,\n   writable: true,\n   configurable: true\n   }\n });\n if (superClass) setPrototypeOf(subClass, superClass);\n}\n\nmodule.exports = _inherits;","import { isKeyHotkey } from 'is-hotkey'\nimport { IS_APPLE } from './environment'\n\n/**\n * Hotkey mappings for each platform.\n */\n\nconst HOTKEYS = {\n bold: 'mod+b',\n compose: ['down', 'left', 'right', 'up', 'backspace', 'enter'],\n moveBackward: 'left',\n moveForward: 'right',\n moveWordBackward: 'ctrl+left',\n moveWordForward: 'ctrl+right',\n deleteBackward: 'shift?+backspace',\n deleteForward: 'shift?+delete',\n extendBackward: 'shift+left',\n extendForward: 'shift+right',\n italic: 'mod+i',\n splitBlock: 'shift?+enter',\n undo: 'mod+z',\n}\n\nconst APPLE_HOTKEYS = {\n moveLineBackward: 'opt+up',\n moveLineForward: 'opt+down',\n moveWordBackward: 'opt+left',\n moveWordForward: 'opt+right',\n deleteBackward: ['ctrl+backspace', 'ctrl+h'],\n deleteForward: ['ctrl+delete', 'ctrl+d'],\n deleteLineBackward: 'cmd+shift?+backspace',\n deleteLineForward: ['cmd+shift?+delete', 'ctrl+k'],\n deleteWordBackward: 'opt+shift?+backspace',\n deleteWordForward: 'opt+shift?+delete',\n extendLineBackward: 'opt+shift+up',\n extendLineForward: 'opt+shift+down',\n redo: 'cmd+shift+z',\n transposeCharacter: 'ctrl+t',\n}\n\nconst WINDOWS_HOTKEYS = {\n deleteWordBackward: 'ctrl+shift?+backspace',\n deleteWordForward: 'ctrl+shift?+delete',\n redo: 'ctrl+y',\n}\n\n/**\n * Create a platform-aware hotkey checker.\n */\n\nconst create = (key: string) => {\n const generic = HOTKEYS[key]\n const apple = APPLE_HOTKEYS[key]\n const windows = WINDOWS_HOTKEYS[key]\n const isGeneric = generic && isKeyHotkey(generic)\n const isApple = apple && isKeyHotkey(apple)\n const isWindows = windows && isKeyHotkey(windows)\n return (event: KeyboardEvent) => {\n   if (isGeneric && isGeneric(event)) return true\n   if (IS_APPLE && isApple && isApple(event)) return true\n   if (!IS_APPLE && isWindows && isWindows(event)) return true\n   return false\n }\n}\n\n/**\n * Hotkeys.\n */\n\nexport default {\n isBold: create('bold'),\n isCompose: create('compose'),\n isMoveBackward: create('moveBackward'),\n isMoveForward:

create('moveForward'),\n isDeleteBackward: create('deleteBackward'),\n isDeleteForward: create('deleteForward'),\n isDeleteLineBackward: create('deleteLineBackward'),\n isDeleteLineForward: create('deleteLineForward'),\n isDeleteWordBackward: create('deleteWordBackward'),\n isDeleteWordForward: create('deleteWordForward'),\n isExtendBackward: create('extendBackward'),\n isExtendForward: create('extendForward'),\n isExtendLineBackward: create('extendLineBackward'),\n isExtendLineForward: create('extendLineForward'),\n isItalic: create('italic'),\n isMoveLineBackward: create('moveLineBackward'),\n isMoveLineForward: create('moveLineForward'),\n isMoveWordBackward: create('moveWordBackward'),\n isMoveWordForward: create('moveWordForward'),\n isRedo: create('redo'),\n isSplitBlock: create('splitBlock'),\n isTransposeCharacter: create('transposeCharacter'),\n isUndo: create('undo'),\n}\n","/**\n * An auto-incrementing identifier for keys.\n */\n\nlet n = 0\n\n/**\n * A class that keeps track of a key string. We use a full class here because we\n * want to be able to use them as keys in `WeakMap` objects.\n */\n\nexport class Key {\n id: string\n\n constructor() {\n   this.id = `${n++}`\n }\n}\n","import {\n Editor,\n Element as SlateElement,\n Node as SlateNode,\n Operation as SlateOperation,\n Path as SlatePath,\n Point as SlatePoint,\n Range as SlateRange,\n Value as SlateValue,\n Path,\n} from 'slate'\n\nimport Hotkeys from './utils/hotkeys'\nimport { Key } from './utils/key'\nimport { Utils } from './utils/utils'\nimport {\n EDITOR_TO_ELEMENT,\n ELEMENT_TO_NODE,\n IS_FOCUSED,\n IS_READ_ONLY,\n KEY_TO_ELEMENT,\n NODE_TO_INDEX,\n NODE_TO_KEY,\n NODE_TO_PARENT,\n PLACEHOLDER,\n PLACEHOLDER_SYMBOL,\n} from './utils/weak-maps'\nimport {\n DOMElement,\n DOMNode,\n DOMPoint,\n DOMRange,\n DOMSelection,\n DOMStaticRange,\n isDOMElement,\n normalizeDOMPoint,\n} from './utils/dom'\n\n/**\n * `ReactEditor` is a Slate editor interface with the React mixin applied.\n */\n\nexport type ReactEditor = InstanceType<ReturnType<typeof withReact>>\n\n/**\n * `withReact` adds React and DOM specific behaviors to the editor.\n */\n\nexport const withReact = (Editor: new (...args: any[]) => Editor) => {\n return class ReactEditor extends Editor {\n   apply(op: SlateOperation): void {\n   const matches: [SlatePath, Key][] = []\n\n   switch (op.type) {\n   case 'add_mark':\n   case 'insert_text':\n   case 'remove_mark':\n   case 'remove_text':\n   case 'set_mark':\n   case 'set_node': {\n   for (const [node, path] of this.levels({ at: op.path })) {\n   const key = this.findKey(node)\n   matches.push([path, key])\n   }\n\n   break\n   }\n\n   case 'insert_node':\n   case 'remove_node':\n   case 'merge_node':\n   case 'split_node': {\n   for (const [node, path] of this.levels({\n   at: Path.parent(op.path),\n   })) {\n   const key = this.findKey(node)\n   matches.push([path, key])\n   }\n\n   break\n   }\n\n   case 'move_node': {\n   // TODO\n   break\n   }\n   }\n\n   super.apply(op)\n\n   for (const [path, key] of matches) {\n   const [node] = this.getNode(path)\n   NODE_TO_KEY.set(node, key)\n   }\n   }\n\n   /**\n   * Find a key for a Slate node.\n   */\n\n   findKey(node: SlateNode): Key {\n   let key = NODE_TO_KEY.get(node)\n\n   if (!key) {\n   key = new Key()\n   NODE_TO_KEY.set(node, key)\n   }\n\n   return key\n   }\n\n   /**\n   * Find the path of Slate node.\n   */\n\n   findPath(node: SlateNode): SlatePath {\n   const path: SlatePath = []\n   let child = node\n\n   while (true) {\n   const parent = NODE_TO_PARENT.get(child)\n\n   if (parent == null) {\n   if (SlateValue.isValue(child)) {\n   return path\n   } else {\n   break\n   }\n   }\n\n   const i = NODE_TO_INDEX.get(child)\n\n   if (i == null) {\n   break\n   }\n\n   path.unshift(i)\n   child = parent\n   }\n\n   throw new Error(\n   `Unable to find the path for Slate node: ${JSON.stringify(node)}`\n   )\n   }\n\n   /**\n   * Resolve the decorations for a node.\n   */\n\n   getDecorations(node: SlateNode): SlateRange[] {\n   const placeholder = PLACEHOLDER.get(this)\n   const decorations = []\n\n   if (\n   placeholder &&\n   SlateValue.isValue(node) &&\n   node.nodes.length === 1 &&\n   Array.from(SlateNode.texts(node)).length === 1 &&\n   SlateNode.text(node) === ''\n   ) {\n   const start = this.getStart([])\n   decorations.push({\n   [PLACEHOLDER_SYMBOL]: true,\n   placeholder,\n   anchor: start,\n   focus: start,\n   })\n   }\n\n   return decorations\n   }\n\n   /**\n   * Check if the editor is focused.\n   */\n\n   isFocused(): boolean {\n   return !!IS_FOCUSED.get(this)\n   }\n\n   /**\n   * Check if the editor is in read-only mode.\n   */\n\n   isReadOnly(): boolean {\n   return !!IS_READ_ONLY.get(this)\n   }\n\n   /**\n   * Blur the editor.\n   */\n\n   blur(): void {\n   const el = this.toDomNode(this.value)\n   IS_FOCUSED.set(this, false)\n\n   if (window.document.activeElement === el)

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{\n el.blur()\n }\n }\n\n /**\n * Focus the editor.\n */\n\n focus(): void {\n const el =
this.toDomNode(this.value)\n IS_FOCUSED.set(this, true)\n\n if (window.document.activeElement !== el)
{\n el.focus({ preventScroll: true })\n }\n }\n\n /**\n * Deselect the editor.\n */\n\n deselect():
void {\n const { selection } = this.value\n const domSelection = window.getSelection()\n\n if
(domSelection && domSelection.rangeCount > 0) {\n domSelection.removeAllRanges()\n }\n\n if
(selection) {\n this.apply({\n type: 'set_selection',\n properties: selection,\n newProperties:
null,\n })\n }\n }\n\n /**\n * Insert a `DataTransfer` object.\n */\n\n insertData(dataTransfer:
DataTransfer): void {\n const fragment = Utils.getFragmentData(dataTransfer)\n\n if (fragment) {\n
this.insertFragment(fragment)\n return\n }\n\n const text = dataTransfer.getData('text/plain')\n\n if
(text) {\n const lines = text.split('\\n')\n let split = false\n\n for (const line of lines) {\n if (split) {\n
this.splitNodes()\n }\n\n this.insertText(line)\n split = true\n }\n }\n }\n\n /**\n
* Transform an `InputEvent` into commands on the editor.\n */\n\n onBeforeInput(\n event: Event & {\n
data: string | null\n dataTransfer: DataTransfer | null\n getTargetRanges(): DOMStaticRange[]\n
inputType: string\n isComposing: boolean\n }\n ): void {\n const { inputType, data, dataTransfer } =
event\n\n // Each of these input types reflects specific user intent, and most of them\n // are cancellable so we
can perform the action on the Slate model direclty.\n // https://w3c.github.io/input-events/#dom-inputevent-
inputtype\n switch (inputType) {\n case 'deleteByComposition':\n case 'deleteByCut':\n case
'deleteByDrag':\n case 'deleteContent':\n case 'deleteContentForward': {\n this.delete()\n break\n
}\n\n case 'deleteContentBackward': {\n this.delete({ reverse: true })\n break\n }\n\n case
'deleteEntireSoftLine': {\n this.delete({ unit: 'line', reverse: true })\n this.delete({ unit: 'line' })\n
break\n }\n\n case 'deleteSoftLineBackward':\n case 'deleteHardLineBackward': {\n this.delete({
unit: 'line', reverse: true })\n break\n }\n\n case 'deleteSoftLineForward':\n case
'deleteHardLineForward': {\n this.delete({ unit: 'line' })\n break\n }\n\n case
'deleteWordBackward': {\n this.delete({ unit: 'word', reverse: true })\n break\n }\n\n case
'deleteWordForward': {\n this.delete({ unit: 'word' })\n break\n }\n\n case 'historyRedo': {\n
this.redo()\n break\n }\n\n case 'historyUndo': {\n this.undo()\n break\n }\n\n case
'insertLineBreak':\n case 'insertParagraph': {\n this.splitNodes({ always: true })\n break\n }\n\n
case 'insertFromComposition':\n case 'insertFromDrop':\n case 'insertFromPaste':\n case
'insertFromYank':\n case 'insertReplacementText':\n case 'insertText': {\n if (dataTransfer != null) {\n
this.insertData(dataTransfer)\n } else if (data != null) {\n this.insertText(data)\n }\n\n
break\n }\n }\n\n /**\n * Transform a `KeyboardEvent` into commands on the editor. This should
only\n * be used for hotkeys which attach specific commands to specific key\n * combinations. Most input
logic will be handled by the `onBeforeInput`\n * method instead.\n */\n\n onKeyDown(event:
KeyboardEvent): void {\n // COMPAT: Since we prevent the default behavior on `beforeinput` events,\n // the
browser doesn't think there's ever any history stack to undo or redo,\n // so we have to manage these hotkeys
ourselves. (2019/11/06)\n if (Hotkeys.isRedo(event)) {\n this.redo()\n return\n }\n\n if
(Hotkeys.isUndo(event)) {\n this.undo()\n return\n }\n\n // COMPAT: Certain browsers don't handle
the selection updates\n // properly. In Chrome, the selection isn't properly extended.\n // And in Firefox, the
selection isn't properly collapsed.\n // (2017/10/17)\n if (Hotkeys.isMoveLineBackward(event)) {\n
event.preventDefault()\n this.move({ unit: 'line', reverse: true })\n return\n }\n\n if
(Hotkeys.isMoveLineForward(event)) {\n event.preventDefault()\n this.move({ unit: 'line' })\n return\n
}\n\n if (Hotkeys.isExtendLineBackward(event)) {\n event.preventDefault()\n this.move({ unit: 'line',
edge: 'focus', reverse: true })\n return\n }\n\n if (Hotkeys.isExtendLineForward(event)) {\n
event.preventDefault()\n this.move({ unit: 'line', edge: 'focus' })\n return\n }\n\n // COMPAT: If a
void node is selected, or a zero-width text node\n // adjacent to an inline is selected, we need to handle these\n
// hotkeys manually because browsers won't be able to skip over\n // the void node with the zero-width space not
being an empty\n // string.\n if (Hotkeys.isMoveBackward(event)) {\n const { selection } = this.value\n
event.preventDefault()\n\n if (selection && SlateRange.isCollapsed(selection)) {\n this.move({ reverse:
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true })\n      } else {\n        this.collapse({ edge: 'start' })\n      }\n\n      return\n    }\n\n    if (Hotkeys.isMoveForward(event)) {\n      const { selection } = this.value\n      event.preventDefault()\n\n      if (selection && SlateRange.isCollapsed(selection)) {\n        this.move()\n      } else {\n        this.collapse({ edge: 'end' })\n      }\n\n      return\n    }\n\n    if (Hotkeys.isMoveWordBackward(event)) {\n      event.preventDefault()\n      this.move({ unit: 'word', reverse: true })\n      return\n    }\n\n    if (Hotkeys.isMoveWordForward(event)) {\n      event.preventDefault()\n      this.move({ unit: 'word' })\n      return\n    }\n  }\n\n  /**\n   * Redo.\n   */\n\n  redo(): void {}\n\n  /**\n   * Undo.\n   */\n\n  undo(): void {}\n\n  /**\n   * Check if a DOM node is within the editor.\n   */\n\n  hasDomNode(target: DOMNode, options: { editable?: boolean } = {}): boolean {\n    const { editable = false } = options\n    const el = this.toDomNode(this.value)\n    let element\n\n    // COMPAT: In Firefox, reading `target.nodeType` will throw an error if\n    // target is originating from an internal \"restricted\" element (e.g. a\n    // stepper arrow on a number input). (2018/05/04)\n    // https://github.com/ianstormtaylor/slate/issues/1819\n    try {\n      element = isDOMElement(target) ? target : target.parentElement\n    } catch (err) {\n      if (\n        !err.message.includes(\n          'Permission denied to access property \"nodeType\"'\n        )\n      ) {\n        throw err\n      }\n    }\n\n    if (!element) {\n      return false\n    }\n\n    return (\n      element.closest(`[data-slate-editor]`) === el &&\n      (!editable || el.isContentEditable)\n    )\n  }\n\n  /**\n   * Find the native DOM element from a Slate node.\n   */\n\n  toDomNode(node: SlateNode): HTMLElement {\n    const domNode = SlateValue.isValue(node)\n      ? EDITOR_TO_ELEMENT.get(this)\n      : KEY_TO_ELEMENT.get(this.findKey(node))\n\n    if (!domNode) {\n      throw new Error(\n        `Cannot resolve a DOM node from Slate node: ${JSON.stringify(node)}`\n      )\n    }\n\n    return domNode\n  }\n\n  /**\n   * Find a native DOM selection point from a Slate point.\n   */\n\n  toDomPoint(point: SlatePoint): DOMPoint {\n    const [node] = this.getNode(point.path)\n    const el = this.toDomNode(node)\n    let domPoint: DOMPoint | undefined\n\n    // For each leaf, we need to isolate its content, which means filtering\n    // to its direct text and zero-width spans. (We have to filter out any\n    // other siblings that may have been rendered alongside them.)\n    const selector = `[data-slate-string], [data-slate-zero-width]`\n    const texts = Array.from(el.querySelectorAll(selector))\n    let start = 0\n\n    for (const text of texts) {\n      const domNode = text.childNodes[0] as HTMLElement\n\n      if (domNode == null || domNode.textContent == null) {\n        continue\n      }\n\n      const { length } = domNode.textContent\n      const attr = text.getAttribute('data-slate-length')\n      const trueLength = attr == null ? length : parseInt(attr, 10)\n      const end = start + trueLength\n\n      if (point.offset <= end) {\n        const offset = Math.min(length, Math.max(0, point.offset - start))\n        domPoint = [domNode, offset]\n        break\n      }\n\n      start = end\n    }\n\n    if (!domPoint) {\n      throw new Error(\n        `Cannot resolve a DOM point from Slate point: ${JSON.stringify(\n          point\n        )}`\n      )\n    }\n\n    return domPoint\n  }\n\n  /**\n   * Find a native DOM range from a Slate `range`.\n   */\n\n  toDomRange(range: SlateRange): DOMRange {\n    const { anchor, focus } = range\n    const domAnchor = this.toDomPoint(anchor)\n    const domFocus = SlateRange.isCollapsed(range)\n      ? domAnchor\n      : this.toDomPoint(focus)\n\n    const domRange = window.document.createRange()\n    const start = SlateRange.isBackward(range) ? domFocus : domAnchor\n    const end = SlateRange.isBackward(range) ? domAnchor : domFocus\n    domRange.setStart(start[0], start[1])\n    domRange.setEnd(end[0], end[1])\n    return domRange\n  }\n\n  /**\n   * Find a Slate node from a native DOM `element`.\n   */\n\n  toSlateNode(domNode: DOMNode): SlateNode {\n    let domEl = isDOMElement(domNode) ? domNode : domNode.parentElement\n\n    if (domEl && !domEl.hasAttribute('data-slate-node')) {\n      domEl = domEl.closest(`[data-slate-node]`)\n    }\n\n    const node = domEl ? ELEMENT_TO_NODE.get(domEl as HTMLElement) : null\n\n    if (!node) {\n      throw new Error(`Cannot resolve a Slate node from DOM node: ${domEl}`)\n    }\n\n    return node\n  }\n\n  /**\n   * Get the target range from a DOM `event`.\n   */\n\n  findEventRange(event: any): SlateRange | undefined {\n    if ('nativeEvent' in event) {\n      event = event.nativeEvent\n    }\n\n    const { clientX: x, clientY: y, target } = event\n\n    if (x == null || y == null) {\n      return\n    }\n\n    const node = this.toSlateNode(event.target)\n    const path = this.findPath(node)\n\n    // If the drop target is inside a void node, move it into either the\n    // next or previous node, depending on which side the `x` and `y`\n    // coordinates are closest to.\n    if
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(SlateElement.isElement(node) && this.isVoid(node)) {\n        const rect = target.getBoundingClientRect()\n
const isPrev = this.isInline(node)\n          ? x - rect.left < rect.left + rect.width - x\n          : y - rect.top < rect.top +
rect.height - y\n\n        const edge = this.getPoint(path, { edge: isPrev ? 'start' : 'end' })\n        const point = isPrev ?
this.getBefore(edge) : this.getAfter(edge)\n\n        if (point) {\n          const range = this.getRange(point)\n
return range\n        }\n      }\n\n      // Else resolve a range from the caret position where the drop occured.\n      let
domRange\n      const { document } = window\n\n      // COMPAT: In Firefox, `caretRangeFromPoint` doesn't exist.
(2016/07/25)\n      if (document.caretRangeFromPoint) {\n        domRange = document.caretRangeFromPoint(x,
y)\n      } else {\n        const position = document.caretPositionFromPoint(x, y)\n\n        if (position) {\n
domRange = document.createRange()\n          domRange.setStart(position.offsetNode, position.offset)\n
domRange.setEnd(position.offsetNode, position.offset)\n        }\n      }\n\n      if (!domRange) {\n        throw new
Error(\n          `Cannot resolve a Slate range from a DOM event: ${event}`\n        )\n      }\n\n      // Resolve a Slate
range from the DOM range.\n      const range = this.toSlateRange(domRange)\n      return range\n    }\n\n    /**\n
* Find a Slate point from a DOM selection's `domNode` and `domOffset`.\n     */\n\n    toSlatePoint(domPoint:
DOMPoint): SlatePoint {\n      const [nearestNode, nearestOffset] = normalizeDOMPoint(domPoint)\n      const
parentNode = nearestNode.parentNode as DOMElement\n      let textNode: DOMElement | null = null\n      let offset
= 0\n\n      if (parentNode) {\n        const voidNode = parentNode.closest('[data-slate-void=\"true\"]')\n        let
leafNode = parentNode.closest('[data-slate-leaf]')\n        let domNode: DOMElement | null = null\n\n        //
Calculate how far into the text node the `nearestNode` is, so that we\n        // can determine what the offset relative
to the text node is.\n        if (leafNode) {\n          textNode = leafNode.closest('[data-slate-node=\"text\"]')!\n
const range = window.document.createRange()\n          range.setStart(textNode, 0)\n
range.setEnd(nearestNode, nearestOffset)\n          const contents = range.cloneContents()\n          const zeroWidths =
contents.querySelectorAll(\n            '[data-slate-zero-width]'\n          )\n\n          Array.from(zeroWidths).forEach(el
=> {\n            el!.parentNode!.removeChild(el)\n          })\n\n          // COMPAT: Edge has a bug where
SlateRange.prototype.toString() will\n          // convert \\n into \\r\\n. The bug causes a loop when slate-react\n
// attempts to reposition its cursor to match the native position. Use\n          // textContent.length instead.\n          //
https://developer.microsoft.com/en-us/microsoft-edge/platform/issues/10291116/\n          offset =
contents.textContent!.length\n          domNode = textNode\n        } else if (voidNode) {\n          // For void nodes, the
element with the offset key will be a cousin, not an\n          // ancestor, so find it by going down from the nearest
void parent.\n\n          leafNode = voidNode.querySelector('[data-slate-leaf]')!\n          textNode =
leafNode.closest('[data-slate-node=\"text\"]')!\n          domNode = leafNode\n          offset =
domNode.textContent!.length\n        }\n\n        // COMPAT: If the parent node is a Slate zero-width space, this is\n
// because the text node should have no characters. However, during IME\n        // composition the ASCII
characters will be prepended to the zero-width\n        // space, so subtract 1 from the offset to account for the zero-
width\n        // space character.\n        if (\n          domNode &&\n          offset === domNode.textContent!.length
&&\n          parentNode.hasAttribute('data-slate-zero-width')\n        ) {\n          offset--\n        }\n      }\n\n      if
(!textNode) {\n        throw new Error(\n          `Cannot resolve a Slate point from DOM point: ${domPoint}`\n
)\n      }\n\n      // COMPAT: If someone is clicking from one Slate editor into another,\n      // the select event fires
twice, once for the old editor's `element`\n      // first, and then afterwards for the correct `element`. (2017/03/03)\n
const slateNode = this.toSlateNode(textNode!)\n      const path = this.findPath(slateNode)\n      return { path, offset
}\n    }\n\n    /**\n     * Find a Slate range from a DOM range or selection.\n     */\n\n    toSlateRange(\n
domRange: DOMRange | DOMStaticRange | DOMSelection\n    ): SlateRange {\n      const el =\n        domRange
instanceof Selection\n          ? domRange.anchorNode\n          : domRange.startContainer\n      let anchorNode\n
let anchorOffset\n      let focusNode\n      let focusOffset\n      let isCollapsed\n\n      if (el) {\n        if (domRange
instanceof Selection) {\n          anchorNode = domRange.anchorNode\n          anchorOffset =
domRange.anchorOffset\n          focusNode = domRange.focusNode\n          focusOffset = domRange.focusOffset\n
isCollapsed = domRange.isCollapsed\n        } else {\n          anchorNode = domRange.startContainer\n
anchorOffset = domRange.startOffset\n          focusNode = domRange.endContainer\n          focusOffset =
domRange.endOffset\n          isCollapsed = domRange.collapsed\n        }\n      }\n\n      if (\n        anchorNode ==
```

null ||\n focusNode == null ||\n anchorOffset == null ||\n focusOffset == null\n) {\n throw new Error(\n `Cannot resolve a Slate range from DOM range: ${domRange}`\n)\n }\n\n const anchor = this.toSlatePoint([anchorNode, anchorOffset])\n const focus = isCollapsed\n ? anchor\n : this.toSlatePoint([focusNode, focusOffset])\n\n return { anchor, focus }\n }\n}\n"],"names":["global","freeGlobal","root","Symbol","objectProto","nativeObjectToString","symToStringTag","getRawTag","objectToString","isObjectLike","baseGetTag","isSymbol","isObject","toNumber","now","EditorContext","createContext","undefined","useEditor","editor","useContext","Error","Path","React","Node","NODE_TO_INDEX","WeakMap","NODE_TO_PARENT","EDITOR_TO_ELEMENT","NODE_TO_ELEMENT","ELEMENT_TO_NODE","NODE_TO_KEY","KEY_TO_ELEMENT","IS_READ_ONLY","IS_FOCUSED","PLACEHOLDER","PLACEHOLDER_SYMBOL","Leaf","leaf","another","text","annotations","length","decorations","marks","every","m","Mark","exists","isRangeListEqual","isRangeMapEqual","value","isPlainObject","isMarkSet","Range","isRangeList","isRangeMap","offset","slice","list","i","range","other","equals","map","Object","keys","key","SlateLeaf",useRef","useLayoutEffect","ReadOnlyContext","useReadOnly","SelectedContext","useSelected","Text","Element","ElementComponent","TextComponent","FocusedContext","useFocused","IS_IOS","navigator","window","test","userAgent","MSStream","IS_APPLE","IS_FIREFOX","IS_SAFARI","isDOMComment","isDOMNode","nodeType","isDOMElement","isDOMText","normalizeDOMPoint","domPoint","node","childNodes","isLast","direction","index","getEditableChild","textContent","parent","child","triedForward","triedBackward","getAttribute","Utils","dataTransfer","base64","getData","decoded","decodeURIComponent","atob","fragment","JSON","parse","selection","SlateRange","edges","start","end","startVoid","getMatch","path","endVoid","isCollapsed","domRange","toDomRange","contents","cloneContents","attach","forEach","trim","voidNode","r","cloneRange","domNode","toDomNode","setEndAfter","querySelector","Array","from","querySelectorAll","zw","isNewline","span","document","createElement","style","whiteSpace","appendChild","SlateNode","string","stringify","encoded","btoa","encodeURIComponent","setAttribute","setData","div","innerHTML","getPlainText","nodeValue","childNode","display","getComputedStyle","getPropertyValue","tagName","Value","useMemo","useCallback","debounce","useSlate","Editor","_typeof","HOTKEYS","bold","compose","moveBackward","moveForward","moveWordBackward","moveWordForward","deleteBackward","deleteForward","extendBackward","extendForward","italic","splitBlock","undo","APPLE_HOTKEYS","moveLineBackward","moveLineForward","deleteLineBackward","deleteLineForward","deleteWordBackward","deleteWordForward","extendLineBackward","extendLineForward","redo","transposeCharacter","WINDOWS_HOTKEYS","create","generic","apple","windows","isGeneric","isKeyHotkey","isApple","isWindows","event","isBold","isCompose","isMoveBackward","isMoveForward","isDeleteBackward","isDeleteForward","isDeleteLineBackward","isDeleteLineForward","isDeleteWordBackward","isDeleteWordForward","isExtendBackward","isExtendForward","isExtendLineBackward","isExtendLineForward","isItalic","isMoveLineBackward","isMoveLineForward","isMoveWordBackward","isMoveWordForward","isRedo","isSplitBlock","isTransposeCharacter","isUndo","n","Key","id","withReact","op","matches","type","levels","at","findKey","push","getNode","set","get","SlateValue","isValue","unshift","placeholder","nodes","texts","getStart","el","activeElement","blur","focus","preventScroll","domSelection","getSelection","rangeCount","removeAllRanges","apply","properties","newProperties","getFragmentData","insertFragment","lines","split","line","splitNodes","insertText","inputType","data","reverse","unit","always","insertData","Hotkeys","preventDefault","move","edge","collapse","target","options","editable","element","parentElement","err","message","includes","closest","isContentEditable","point","selector","attr","trueLength","parseInt","Math","min","max","anchor","domAnchor","toDomPoint","domFocus","createRange","isBackward","setStart","setEnd","domEl","hasAttribute","nativeEvent","x","clientX","y","clientY","toSlateNode","findPath","SlateElement","isElement","isVoid","rect","getBoundingClientRect","isPrev","isInline","left","width","top","height","getPoint","getBefore","getAfter","getRange","caretRangeFromPoint","position","caretPositionFromPoint","offsetNode","toSlateRange","nearestNode","nearestOffset","parentNode","textNode","leafNode","zeroWidths","removeChild","slateNode","Selection","anchorNode","startContainer","anchorOffset","focusNode","focusOffset","startOffset","endContainer","endOffset","collapsed","toSlatePoint"],"mappings":";;;;;;;;;;;;AAAA;;;;;;;;;;;;;;;;;;;;;;;;AAyBA,SAAS,QAAQ,GAAG,QAAQ,GAAG,QAAQ,GAAG

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Found in path(s):
* /opt/cola/permits/1540266076_1674381230.7911966/0/slate-react-npm-0-22-10-eca32f2ffc-1ecddaf0f6-zip/node_modules/slate-react/lib/index.js.map
No license file was found, but licenses were detected in source scan.

/*!
* isobject <https://github.com/jonschlinkert/isobject>
*
* Copyright (c) 2014-2017, Jon Schlinkert.
* Released under the MIT License.
*/

Found in path(s):
* /opt/cola/permits/1540266076_1674381230.7911966/0/slate-react-npm-0-22-10-eca32f2ffc-1ecddaf0f6-zip/node_modules/slate-react/lib/index.js
* /opt/cola/permits/1540266076_1674381230.7911966/0/slate-react-npm-0-22-10-eca32f2ffc-1ecddaf0f6-zip/node_modules/slate-react/lib/index.es.js
No license file was found, but licenses were detected in source scan.

```
/**
* Copyright (c) 2013-present, Facebook, Inc.
*
* This source code is licensed under the MIT license found in the
* LICENSE file in the root directory of this source tree.
*
*
*/
/**
* Creates an array of the own enumerable property names of `object`.
*
* **Note:** Non-object values are coerced to objects. See the
* [ES spec](http://ecma-international.org/ecma-262/7.0/#sec-object.keys)
* for more details.
*
* @static
* @since 0.1.0
* @memberOf _
* @category Object
* @param {Object} object The object to query.
* @returns {Array} Returns the array of property names.
* @example
*
* function Foo() {
*   this.a = 1;
*   this.b = 2;
* }
*
* Foo.prototype.c = 3;
*
* _.keys(new Foo);
* // => ['a', 'b'] (iteration order is not guaranteed)
*
* _.keys('hi');
* // => ['0', '1']
*/
```

Found in path(s):
* /opt/cola/permits/1540266076_1674381230.7911966/0/slate-react-npm-0-22-10-eca32f2ffc-1ecddaf0f6-zip/node_modules/slate-react/dist/slate-react.js

No license file was found, but licenses were detected in source scan.

{"version":3,"file":"index.es.js","sources":["../../../node_modules/lodash/isObject.js","../../../node_modules/lodash/_freeGlobal.js","../../../node_modules/lodash/_root.js","../../../node_modules/lodash/now.js","../../../node_modules/lodash/_Symbol.js","../../../node_modules/lodash/_getRawTag.js","../../../node_modules/lodash/_objectToString.js","../../../node_modules/lodash/_baseGetTag.js","../../../node_modules/lodash/isObjectLike.js","../../../node_modules/lodash/isSymbol.js","../../../node_modules/lodash/toNumber.js","../../../node_modules/lodash/debounce.js","../../../node_modules/compute-scroll-into-view/es/index.js","../../../node_modules/scroll-into-view-if-needed/es/index.js","../src/hooks/use-editor.ts","../src/components/string.tsx","../src/components/custom.tsx","../src/utils/weak-maps.ts","../../../node_modules/@babel/runtime/helpers/arrayWithoutHoles.js","../../../node_modules/@babel/runtime/helpers/iterableToArray.js","../../../node_modules/@babel/runtime/helpers/nonIterableSpread.js","../../../node_modules/@babel/runtime/helpers/toConsumableArray.js","../../../node_modules/@babel/runtime/helpers/defineProperty.js","../node_modules/isobject/index.js","../node_modules/is-plain-object/index.js","../src/utils/leaf.ts","../src/components/leaf.tsx","../src/components/text.tsx","../src/hooks/use-read-only.ts","../src/hooks/use-selected.ts","../src/components/element.tsx","../src/components/children.tsx","../src/hooks/use-focused.ts","../src/utils/environment.ts","../../../node_modules/@babel/runtime/helpers/arrayWithHoles.js","../../../node_modules/@babel/runtime/helpers/iterableToArrayLimit.js","../../../node_modules/@babel/runtime/helpers/nonIterableRest.js","../../../node_modules/@babel/runtime/helpers/slicedToArray.js","../src/utils/dom.ts","../src/utils/utils.ts","../src/components/editor.tsx","../src/hooks/use-slate.ts","../../../node_modules/@babel/runtime/helpers/classCallCheck.js","../../../node_modules/@babel/runtime/helpers/createClass.js","../../../node_modules/@babel/runtime/helpers/typeof.js","../../../node_modules/@babel/runtime/helpers/assertThisInitialized.js","../../../node_modules/@babel/runtime/helpers/possibleConstructorReturn.js","../../../node_modules/@babel/runtime/helpers/getPrototypeOf.js","../../../node_modules/@babel/runtime/helpers/superPropBase.js","../../../node_modules/@babel/runtime/helpers/get.js","../../../node_modules/@babel/runtime/helpers/setPrototypeOf.js","../../../node_modules/@babel/runtime/helpers/inherits.js","../src/utils/hotkeys.ts","../src/utils/key.ts","../src/plugin.ts"],"sourcesContent":["/**\n * Checks if `value` is the\n * [language type](http://www.ecma-international.org/ecma-262/7.0/#sec-ecmascript-language-types)\n * of `Object`. (e.g. arrays, functions, objects, regexes, `new Number(0)`, and `new String('')`)\n *\n * @static\n * @memberOf _\n * @since 0.1.0\n * @category Lang\n * @param {*} value The value to check.\n * @returns {boolean} Returns `true` if `value` is an object, else `false`.\n * @example\n *\n * _.isObject({});\n * // => true\n *\n * _.isObject([1, 2, 3]);\n * // => true\n *\n * _.isObject(_.noop);\n * // => true\n *\n * _.isObject(null);\n * // => false\n */\nfunction isObject(value) {\n var type = typeof value;\n return value != null && (type == 'object' || type == 'function');\n}\n\nmodule.exports = isObject;\n","/** Detect free variable `global` from Node.js. */\nvar freeGlobal = typeof global == 'object' && global && global.Object === Object && global;\n\nmodule.exports = freeGlobal;\n","var freeGlobal = require('./_freeGlobal');\n\n/** Detect free variable `self`. */\nvar freeSelf = typeof self == 'object' && self && self.Object === Object && self;\n\n/** Used as a reference to the global object. */\nvar root = freeGlobal || freeSelf || Function('return this')();\n\nmodule.exports = root;\n","var root = require('./_root');\n\n/**\n * Gets the timestamp of the number of milliseconds that have elapsed since\n * the Unix epoch (1 January 1970 00:00:00 UTC).\n *\n * @static\n * @memberOf _\n * @since 2.4.0\n * @category Date\n * @returns {number} Returns the timestamp.\n * @example\n *\n * _.defer(function(stamp) {\n *   console.log(_.now() - stamp);\n * }, _.now());\n * // => Logs the number of milliseconds it took for the deferred invocation.\n */\nvar now = function() {\n return root.Date.now();\n};\n\nmodule.exports = now;\n","var root = require('./_root');\n\n/** Built-in value references. */\nvar Symbol = root.Symbol;\n\nmodule.exports = Symbol;\n","var Symbol = require('./_Symbol');\n\n/** Used for built-in method references. */\nvar objectProto = Object.prototype;\n\n/** Used to check objects for own properties. */\nvar hasOwnProperty = objectProto.hasOwnProperty;\n\n/**\n * Used to resolve the\n * [`toStringTag`](http://ecma-international.org/ecma-262/7.0/#sec-object.prototype.tostring)\n * of values.\n */\nvar

nativeObjectToString = objectProto.toString;\n\n/** Built-in value references. */\nvar symToStringTag = Symbol ? Symbol.toStringTag : undefined;\n\n/**\n * A specialized version of `baseGetTag` which ignores `Symbol.toStringTag` values.\n *\n * @private\n * @param {*} value The value to query.\n * @returns {string} Returns the raw `toStringTag`.\n */\nfunction getRawTag(value) {\n var isOwn = hasOwnProperty.call(value, symToStringTag),\n   tag = value[symToStringTag];\n\n try {\n   value[symToStringTag] = undefined;\n   var unmasked = true;\n } catch (e) {}\n\n var result = nativeObjectToString.call(value);\n if (unmasked) {\n   if (isOwn) {\n   value[symToStringTag] = tag;\n   } else {\n   delete value[symToStringTag];\n   }\n }\n return result;\n}\n\nmodule.exports = getRawTag;\n","/** Used for built-in method references. */\nvar objectProto = Object.prototype;\n\n/**\n * Used to resolve the\n * [`toStringTag`](http://ecma-international.org/ecma-262/7.0/#sec-object.prototype.tostring)\n * of values.\n */\nvar nativeObjectToString = objectProto.toString;\n\n/**\n * Converts `value` to a string using `Object.prototype.toString`.\n *\n * @private\n * @param {*} value The value to convert.\n * @returns {string} Returns the converted string.\n */\nfunction objectToString(value) {\n return nativeObjectToString.call(value);\n}\n\nmodule.exports = objectToString;\n","var Symbol = require('./_Symbol'),\n   getRawTag = require('./_getRawTag'),\n   objectToString = require('./_objectToString');\n\n/** `Object#toString` result references. */\nvar nullTag = '[object Null]',\n   undefinedTag = '[object Undefined]';\n\n/** Built-in value references. */\nvar symToStringTag = Symbol ? Symbol.toStringTag : undefined;\n\n/**\n * The base implementation of `getTag` without fallbacks for buggy environments.\n *\n * @private\n * @param {*} value The value to query.\n * @returns {string} Returns the `toStringTag`.\n */\nfunction baseGetTag(value) {\n if (value == null) {\n   return value === undefined ? undefinedTag : nullTag;\n }\n return (symToStringTag && symToStringTag in Object(value))\n   ? getRawTag(value)\n   : objectToString(value);\n}\n\nmodule.exports = baseGetTag;\n","/**\n * Checks if `value` is object-like. A value is object-like if it's not `null`\n * and has a `typeof` result of \"object\".\n *\n * @static\n * @memberOf _\n * @since 4.0.0\n * @category Lang\n * @param {*} value The value to check.\n * @returns {boolean} Returns `true` if `value` is object-like, else `false`.\n * @example\n *\n * _.isObjectLike({});\n * // => true\n *\n * _.isObjectLike([1, 2, 3]);\n * // => true\n *\n * _.isObjectLike(_.noop);\n * // => false\n *\n * _.isObjectLike(null);\n * // => false\n */\nfunction isObjectLike(value) {\n return value != null && typeof value == 'object';\n}\n\nmodule.exports = isObjectLike;\n","var baseGetTag = require('./_baseGetTag'),\n   isObjectLike = require('./isObjectLike');\n\n/** `Object#toString` result references. */\nvar symbolTag = '[object Symbol]';\n\n/**\n * Checks if `value` is classified as a `Symbol` primitive or object.\n *\n * @static\n * @memberOf _\n * @since 4.0.0\n * @category Lang\n * @param {*} value The value to check.\n * @returns {boolean} Returns `true` if `value` is a symbol, else `false`.\n * @example\n *\n * _.isSymbol(Symbol.iterator);\n * // => true\n *\n * _.isSymbol('abc');\n * // => false\n */\nfunction isSymbol(value) {\n return typeof value == 'symbol' ||\n   (isObjectLike(value) && baseGetTag(value) == symbolTag);\n}\n\nmodule.exports = isSymbol;\n","var isObject = require('./isObject'),\n   isSymbol = require('./isSymbol');\n\n/** Used as references for various `Number` constants. */\nvar NAN = 0 / 0;\n\n/** Used to match leading and trailing whitespace. */\nvar reTrim = /^\\s+|\\s+$/g;\n\n/** Used to detect bad signed hexadecimal string values. */\nvar reIsBadHex = /^[-+]0x[0-9a-f]+$/i;\n\n/** Used to detect binary string values. */\nvar reIsBinary = /^0b[01]+$/i;\n\n/** Used to detect octal string values. */\nvar reIsOctal = /^0o[0-7]+$/i;\n\n/** Built-in method references without a dependency on `root`. */\nvar freeParseInt = parseInt;\n\n/**\n * Converts `value` to a number.\n *\n * @static\n * @memberOf _\n * @since 4.0.0\n * @category Lang\n * @param {*} value The value to process.\n * @returns {number} Returns the number.\n * @example\n *\n * _.toNumber(3.2);\n * // => 3.2\n *\n * _.toNumber(Number.MIN_VALUE);\n * // => 5e-324\n *\n * _.toNumber(Infinity);\n * // => Infinity\n *\n * _.toNumber('3.2');\n * // => 3.2\n */\nfunction toNumber(value) {\n if (typeof value == 'number') {\n   return value;\n }\n if (isSymbol(value)) {\n   return NAN;\n }\n if (isObject(value)) {\n   var other = typeof value.valueOf == 'function' ? value.valueOf() : value;\n   value = isObject(other) ? (other + '') : other;\n }\n if (typeof value != 'string') {\n   return value === 0 ? value : +value;\n }\n value = value.replace(reTrim, '');\n var isBinary = reIsBinary.test(value);\n return (isBinary || reIsOctal.test(value))\n   ? freeParseInt(value.slice(2), isBinary ? 2 : 8)\n   : (reIsBadHex.test(value) ? NAN : +value);\n}\n\nmodule.exports = toNumber;\n","var isObject = require('./isObject'),\n   now = require('./now'),\n

toNumber = require('./toNumber');\n\n/** Error message constants. */\nvar FUNC_ERROR_TEXT = 'Expected a function';\n\n/* Built-in method references for those with the same name as other `lodash` methods. */\nvar nativeMax = Math.max,\n nativeMin = Math.min;\n\n/**\n * Creates a debounced function that delays invoking `func` until after `wait`\n * milliseconds have elapsed since the last time the debounced function was\n * invoked. The debounced function comes with a `cancel` method to cancel\n * delayed `func` invocations and a `flush` method to immediately invoke them.\n * Provide `options` to indicate whether `func` should be invoked on the\n * leading and/or trailing edge of the `wait` timeout. The `func` is invoked\n * with the last arguments provided to the debounced function. Subsequent\n * calls to the debounced function return the result of the last `func`\n * invocation.\n *\n * **Note:** If `leading` and `trailing` options are `true`, `func` is\n * invoked on the trailing edge of the timeout only if the debounced function\n * is invoked more than once during the `wait` timeout.\n *\n * If `wait` is `0` and `leading` is `false`, `func` invocation is deferred\n * until to the next tick, similar to `setTimeout` with a timeout of `0`.\n *\n * See [David Corbacho's article](https://css-tricks.com/debouncing-throttling-explained-examples/)\n * for details over the differences between `_.debounce` and `_.throttle`.\n *\n * @static\n * @memberOf _\n * @since 0.1.0\n * @category Function\n * @param {Function} func The function to debounce.\n * @param {number} [wait=0] The number of milliseconds to delay.\n * @param {Object} [options={}] The options object.\n * @param {boolean} [options.leading=false]\n * Specify invoking on the leading edge of the timeout.\n * @param {number} [options.maxWait]\n * The maximum time `func` is allowed to be delayed before it's invoked.\n * @param {boolean} [options.trailing=true]\n * Specify invoking on the trailing edge of the timeout.\n * @returns {Function} Returns the new debounced function.\n * @example\n *\n * // Avoid costly calculations while the window size is in flux.\n * jQuery(window).on('resize', _.debounce(calculateLayout, 150));\n *\n * // Invoke `sendMail` when clicked, debouncing subsequent calls.\n * jQuery(element).on('click', _.debounce(sendMail, 300, {\n * 'leading': true,\n * 'trailing': false\n * }));\n *\n * // Ensure `batchLog` is invoked once after 1 second of debounced calls.\n * var debounced = _.debounce(batchLog, 250, { 'maxWait': 1000 });\n * var source = new EventSource('/stream');\n * jQuery(source).on('message', debounced);\n *\n * // Cancel the trailing debounced invocation.\n * jQuery(window).on('popstate', debounced.cancel);\n */\nfunction debounce(func, wait, options) {\n var lastArgs,\n lastThis,\n maxWait,\n result,\n timerId,\n lastCallTime,\n lastInvokeTime = 0,\n leading = false,\n maxing = false,\n trailing = true;\n\n if (typeof func != 'function') {\n throw new TypeError(FUNC_ERROR_TEXT);\n }\n wait = toNumber(wait) || 0;\n if (isObject(options)) {\n leading = !!options.leading;\n maxing = 'maxWait' in options;\n maxWait = maxing ? nativeMax(toNumber(options.maxWait) || 0, wait) : maxWait;\n trailing = 'trailing' in options ? !!options.trailing : trailing;\n }\n\n function invokeFunc(time) {\n var args = lastArgs,\n thisArg = lastThis;\n\n lastArgs = lastThis = undefined;\n lastInvokeTime = time;\n result = func.apply(thisArg, args);\n return result;\n }\n\n function leadingEdge(time) {\n // Reset any `maxWait` timer.\n lastInvokeTime = time;\n // Start the timer for the trailing edge.\n timerId = setTimeout(timerExpired, wait);\n // Invoke the leading edge.\n return leading ? invokeFunc(time) : result;\n }\n\n function remainingWait(time) {\n var timeSinceLastCall = time - lastCallTime,\n timeSinceLastInvoke = time - lastInvokeTime,\n timeWaiting = wait - timeSinceLastCall;\n\n return maxing\n ? nativeMin(timeWaiting, maxWait - timeSinceLastInvoke)\n : timeWaiting;\n }\n\n function shouldInvoke(time) {\n var timeSinceLastCall = time - lastCallTime,\n timeSinceLastInvoke = time - lastInvokeTime;\n\n // Either this is the first call, activity has stopped and we're at the\n // trailing edge, the system time has gone backwards and we're treating\n // it as the trailing edge, or we've hit the `maxWait` limit.\n return (lastCallTime === undefined || (timeSinceLastCall >= wait) ||\n (timeSinceLastCall < 0) || (maxing && timeSinceLastInvoke >= maxWait));\n }\n\n function timerExpired() {\n var time = now();\n if (shouldInvoke(time)) {\n return trailingEdge(time);\n }\n // Restart the timer.\n timerId = setTimeout(timerExpired, remainingWait(time));\n }\n\n function trailingEdge(time) {\n timerId = undefined;\n\n // Only invoke if we have `lastArgs` which means `func` has been\n // debounced at least once.\n if (trailing && lastArgs) {\n return invokeFunc(time);\n }\n lastArgs = lastThis = undefined;\n return result;\n }\n\n function cancel() {\n if (timerId !== undefined) {\n clearTimeout(timerId);\n }\n lastInvokeTime = 0;\n lastArgs = lastCallTime = lastThis = timerId = undefined;\n }\n\n function flush() {\n

```
return timerId === undefined ? result : trailingEdge(now());\n  }\n\n  function debounced() {\n    var time = now(),\n
    isInvoking = shouldInvoke(time);\n\n    lastArgs = arguments;\n    lastThis = this;\n    lastCallTime = time;\n\n
if (isInvoking) {\n      if (timerId === undefined) {\n        return leadingEdge(lastCallTime);\n      }\n      if (maxing)
{\n        // Handle invocations in a tight loop.\n        clearTimeout(timerId);\n        timerId =
setTimeout(timerExpired, wait);\n        return invokeFunc(lastCallTime);\n      }\n    }\n    if (timerId === undefined)
{\n      timerId = setTimeout(timerExpired, wait);\n    }\n    return result;\n  }\n  debounced.cancel = cancel;\n
debounced.flush = flush;\n  return debounced;\n}\n\nmodule.exports = debounce;\n","function isElement(el) {\n
return el != null && typeof el === 'object' && el.nodeType === 1;\n}\n\nfunction canOverflow(overflow,
skipOverflowHiddenElements) {\n  if (skipOverflowHiddenElements && overflow === 'hidden') {\n    return
false;\n  }\n\n  return overflow !== 'visible' && overflow !== 'clip';\n}\n\nfunction isScrollable(el,
skipOverflowHiddenElements) {\n  if (el.clientHeight < el.scrollHeight || el.clientWidth < el.scrollWidth) {\n    var
style = getComputedStyle(el, null);\n    return canOverflow(style.overflowY, skipOverflowHiddenElements) ||
canOverflow(style.overflowX, skipOverflowHiddenElements);\n  }\n\n  return false;\n}\n\nfunction
alignNearest(scrollingEdgeStart, scrollingEdgeEnd, scrollingSize, scrollingBorderStart, scrollingBorderEnd,
elementEdgeStart, elementEdgeEnd, elementSize) {\n  if (elementEdgeStart < scrollingEdgeStart &&
elementEdgeEnd > scrollingEdgeEnd || elementEdgeStart > scrollingEdgeStart && elementEdgeEnd <
scrollingEdgeEnd) {\n    return 0;\n  }\n\n  if (elementEdgeStart <= scrollingEdgeStart && elementSize <=
scrollingSize || elementEdgeEnd >= scrollingEdgeEnd && elementSize >= scrollingSize) {\n    return
elementEdgeStart - scrollingEdgeStart - scrollingBorderStart;\n  }\n\n  if (elementEdgeEnd > scrollingEdgeEnd &&
elementSize < scrollingSize || elementEdgeStart < scrollingEdgeStart && elementSize > scrollingSize) {\n    return
elementEdgeEnd - scrollingEdgeEnd + scrollingBorderEnd;\n  }\n\n  return 0;\n}\n\nexport default (function (target,
options) {\n  var scrollMode = options.scrollMode,\n      block = options.block,\n      inline = options.inline,\n
boundary = options.boundary,\n      skipOverflowHiddenElements = options.skipOverflowHiddenElements;\n  var
checkBoundary = typeof boundary === 'function' ? boundary : function (node) {\n    return node !== boundary;\n
};\n\n  if (!isElement(target)) {\n    throw new TypeError('Invalid target');\n  }\n\n  var scrollingElement =
document.scrollingElement || document.documentElement;\n  var frames = [];\n  var cursor = target;\n\n  while
(isElement(cursor) && checkBoundary(cursor)) {\n    cursor = cursor.parentNode;\n\n    if (cursor ===
scrollingElement) {\n      frames.push(cursor);\n      break;\n    }\n\n    if (cursor === document.body &&
isScrollable(cursor) && !isScrollable(document.documentElement)) {\n      continue;\n    }\n\n    if
(isScrollable(cursor, skipOverflowHiddenElements)) {\n      frames.push(cursor);\n    }\n  }\n\n  var viewportWidth
= window.visualViewport ? visualViewport.width : innerWidth;\n  var viewportHeight = window.visualViewport ?
visualViewport.height : innerHeight;\n  var viewportX = window.scrollX || pageXOffset;\n  var viewportY =
window.scrollY || pageYOffset;\n\n  var _target$getBoundingCl = target.getBoundingClientRect(),\n
targetHeight = _target$getBoundingCl.height,\n      targetWidth = _target$getBoundingCl.width,\n      targetTop =
_target$getBoundingCl.top,\n      targetRight = _target$getBoundingCl.right,\n      targetBottom =
_target$getBoundingCl.bottom,\n      targetLeft = _target$getBoundingCl.left;\n\n  var targetBlock = block ===
'start' || block === 'nearest' ? targetTop : block === 'end' ? targetBottom : targetTop + targetHeight / 2;\n  var
targetInline = inline === 'center' ? targetLeft + targetWidth / 2 : inline === 'end' ? targetRight : targetLeft;\n  var
computations = [];\n\n  for (var index = 0; index < frames.length; index++) {\n    var frame = frames[index];\n\n
var _frame$getBoundingCli = frame.getBoundingClientRect(),\n        _height = _frame$getBoundingCli.height,\n
  _width = _frame$getBoundingCli.width,\n        _top = _frame$getBoundingCli.top,\n        right =
_frame$getBoundingCli.right,\n        bottom = _frame$getBoundingCli.bottom,\n        _left =
_frame$getBoundingCli.left;\n\n    if (scrollMode === 'if-needed' && targetTop >= 0 && targetLeft >= 0 &&
targetBottom <= viewportHeight && targetRight <= viewportWidth && targetTop >= _top && targetBottom <=
bottom && targetLeft >= _left && targetRight <= right) {\n      return computations;\n    }\n\n    var frameStyle =
getComputedStyle(frame);\n    var borderLeft = parseInt(frameStyle.borderLeftWidth, 10);\n    var borderTop =
parseInt(frameStyle.borderTopWidth, 10);\n    var borderRight = parseInt(frameStyle.borderRightWidth, 10);\n
var borderBottom = parseInt(frameStyle.borderBottomWidth, 10);\n    var blockScroll = 0;\n    var inlineScroll =
```

0;\n var scrollbarWidth = 'offsetWidth' in frame ? frame.offsetWidth - frame.clientWidth - borderLeft - borderRight : 0;\n var scrollbarHeight = 'offsetHeight' in frame ? frame.offsetHeight - frame.clientHeight - borderTop - borderBottom : 0;\n\n if (scrollingElement === frame) {\n   if (block === 'start') {\n   blockScroll = targetBlock;\n   } else if (block === 'end') {\n   blockScroll = targetBlock - viewportHeight;\n   } else if (block === 'nearest') {\n   blockScroll = alignNearest(viewportY, viewportY + viewportHeight, viewportHeight, borderTop, borderBottom, viewportY + targetBlock, viewportY + targetBlock + targetHeight, targetHeight);\n   } else {\n   blockScroll = targetBlock - viewportHeight / 2;\n   }\n\n   if (inline === 'start') {\n   inlineScroll = targetInline;\n   } else if (inline === 'center') {\n   inlineScroll = targetInline - viewportWidth / 2;\n   } else if (inline === 'end') {\n   inlineScroll = targetInline - viewportWidth;\n   } else {\n   inlineScroll = alignNearest(viewportX, viewportX + viewportWidth, viewportWidth, borderLeft, borderRight, viewportX + targetInline, viewportX + targetInline + targetWidth, targetWidth);\n   }\n\n   blockScroll = Math.max(0, blockScroll + viewportY);\n   inlineScroll = Math.max(0, inlineScroll + viewportX);\n } else {\n   if (block === 'start') {\n   blockScroll = targetBlock - _top - borderTop;\n   } else if (block === 'end') {\n   blockScroll = targetBlock - bottom + borderBottom + scrollbarHeight;\n   } else if (block === 'nearest') {\n   blockScroll = alignNearest(_top, bottom, _height, borderTop, borderBottom + scrollbarHeight, targetBlock, targetBlock + targetHeight, targetHeight);\n   } else {\n   blockScroll = targetBlock - (_top + _height / 2) + scrollbarHeight / 2;\n   }\n\n   if (inline === 'start') {\n   inlineScroll = targetInline - _left - borderLeft;\n   } else if (inline === 'center') {\n   inlineScroll = targetInline - (_left + _width / 2) + scrollbarWidth / 2;\n   } else if (inline === 'end') {\n   inlineScroll = targetInline - right + borderRight + scrollbarWidth;\n   } else {\n   inlineScroll = alignNearest(_left, right, _width, borderLeft, borderRight + scrollbarWidth, targetInline, targetInline + targetWidth, targetWidth);\n   }\n\n   var scrollLeft = frame.scrollLeft,\n   scrollTop = frame.scrollTop;\n   blockScroll = Math.max(0, Math.min(scrollTop + blockScroll, frame.scrollHeight - _height + scrollbarHeight));\n   inlineScroll = Math.max(0, Math.min(scrollLeft + inlineScroll, frame.scrollWidth - _width + scrollbarWidth));\n   targetBlock += scrollTop - blockScroll;\n   targetInline += scrollLeft - inlineScroll;\n }\n\n computations.push({\n   el: frame,\n   top: blockScroll,\n   left: inlineScroll\n });\n }\n\n return computations;\n});","import compute from 'compute-scroll-into-view';\n\nfunction isOptionsObject(options) {\n return options === Object(options) && Object.keys(options).length !== 0;\n}\n\nfunction defaultBehavior(actions, behavior) {\n if (behavior === void 0) {\n behavior = 'auto';\n }\n\n var canSmoothScroll = 'scrollBehavior' in document.body.style;\n actions.forEach(function (_ref) {\n var el = _ref.el,\n   top = _ref.top,\n   left = _ref.left;\n\n if (el.scroll && canSmoothScroll) {\n   el.scroll({\n   top: top,\n   left: left,\n   behavior: behavior\n   });\n } else {\n   el.scrollTop = top;\n   el.scrollLeft = left;\n }\n });\n}\n\nfunction getOptions(options) {\n if (options === false) {\n return {\n   block: 'end',\n   inline: 'nearest'\n };\n }\n\n if (isOptionsObject(options)) {\n return options;\n }\n\n return {\n block: 'start',\n inline: 'nearest'\n };\n}\n\nfunction scrollIntoView(target, options) {\n var targetIsDetached = !target.ownerDocument.documentElement.contains(target);\n\n if (isOptionsObject(options) && typeof options.behavior === 'function') {\n return options.behavior(targetIsDetached ? [] : compute(target, options));\n }\n\n if (targetIsDetached) {\n return;\n }\n\n var computeOptions = getOptions(options);\n return defaultBehavior(compute(target, computeOptions), computeOptions.behavior);\n}\n\nexport default scrollIntoView;","import { createContext, useContext } from 'react'\nimport { ReactEditor } from '..'\n\n/**\n * A React context for sharing the `ReactEditor` class.\n */\n\nexport const EditorContext = createContext<ReactEditor | undefined>(undefined)\n\n/**\n * Get the current `ReactEditor` class that the component lives under.\n */\n\nexport const useEditor = () => {\n const editor = useContext(EditorContext)\n\n if (!editor) {\n   throw new Error(\n   `The \\`useEditor\\` hook must be used inside the <Editor> context.`\n   )\n }\n\n return editor\n}\n","import React from 'react'\nimport { Text, Path, Element, Node } from 'slate'\n\nimport { useEditor } from '../hooks/use-editor'\nimport { Leaf } from '../utils/leaf'\n\n/**\n * Leaf content strings.\n */\n\nconst String = (props: {\n isLast: boolean\n leaf: Leaf\n parent: Element\n text: Text\n}) => {\n const { isLast, leaf, parent, text } = props\n const editor = useEditor()\n const path = editor.findPath(text)\n const parentPath = Path.parent(path)\n\n // COMPAT: Render text inside void nodes

with a zero-width space.\n // So the node can contain selection but the text is not visible.\n if (editor.isVoid(parent)) {\n   return <ZeroWidthString length={Node.text(parent).length} />\n }\n\n // COMPAT: If this is the last text node in an empty block, render a zero-\n // width space that will convert into a line break when copying and pasting\n // to support expected plain text.\n if (\n   leaf.text === '' &&\n   parent.nodes[parent.nodes.length - 1] === text &&\n   !editor.isInline(parent) &&\n   editor.getText(parentPath) === ''\n) {\n   return <ZeroWidthString isLineBreak />\n }\n\n // COMPAT: If the text is empty, it's because it's on the edge of an inline\n // node, so we render a zero-width space so that the selection can be\n // inserted next to it still.\n if (leaf.text === '') {\n   return <ZeroWidthString />\n }\n\n // COMPAT: Browsers will collapse trailing new lines at the end of blocks,\n // so we need to add an extra trailing new lines to prevent that.\n if (isLast && leaf.text.slice(-1) === '\\n') {\n   return <TextString isTrailing text={leaf.text} />\n }\n\n return <TextString text={leaf.text} />\n}\n\n/**\n * Leaf strings with text in them.\n */\n\nconst TextString = (props: { text: string; isTrailing?: boolean }) => {\n const { text, isTrailing = false } = props\n return (\n   <span data-slate-string>\n   {text}\n   {isTrailing ? '\\n' : null}\n   \n)\n}\n\n/**\n * Leaf strings without text, render as zero-width strings.\n */\n\nconst ZeroWidthString = (props: { length?: number; isLineBreak?: boolean }) => {\n const { length = 0, isLineBreak = false } = props\n return (\n   <span\n   data-slate-zero-width={isLineBreak ? 'n' : 'z'}\n   data-slate-length={length}\n   >\n   {'\\uFEFF'}\n   {isLineBreak ?
 : null}\n   \n)\n}\n\nexport default String\n","import React from 'react'\nimport { Element, Range, Mark, Text } from 'slate'\n\nimport { useEditor } from '../hooks/use-editor'\nimport { Leaf } from '../utils/leaf'\n\n/**\n * `CustomAnnotationProps` are passed to the `renderAnnotation` handler.\n */\n\nexport interface CustomAnnotationProps {\n annotation: Range\n children: any\n key: string\n leaf: Leaf\n text: Text\n attributes: {\n   'data-slate-annotation': true\n }\n}\n\n/**\n * The default custom annotation renderer.\n */\n\nexport const CustomAnnotation = (props: CustomAnnotationProps) => {\n const { attributes, children } = props\n return <span {...attributes}>{children}\n}\n\nexport interface CustomDecorationProps {\n children: any\n decoration: Range\n leaf: Leaf\n text: Text\n attributes: {\n   'data-slate-decoration': true\n }\n}\n\n/**\n * The default custom decoration renderer.\n */\n\nexport const CustomDecoration = (props: CustomDecorationProps) => {\n const { attributes, children } = props\n return <span {...attributes}>{children}\n}\n\n/**\n * `CustomElementProps` are passed to the `renderElement` handler.\n */\n\nexport interface CustomElementProps {\n children: any\n element: Element\n attributes: {\n   'data-slate-inline'?: true\n   'data-slate-node': 'element'\n   'data-slate-void'?: true\n   dir?: 'rtl'\n   ref: any\n }\n}\n\n/**\n * The default element renderer.\n */\n\nexport const CustomElement = (props: CustomElementProps) => {\n const { attributes, children, element } = props\n const editor = useEditor()\n const Tag = editor.isInline(element) ? 'span' : 'div'\n return (\n   <Tag {...attributes} style={{ position: 'relative' }}>\n   {children}\n   </Tag>\n)\n}\n\n/**\n * `CustomMarkProps` are passed to the `renderMark` handler.\n */\n\nexport interface CustomMarkProps {\n children: any\n mark: Mark\n leaf: Leaf\n text: Text\n attributes: {\n   'data-slate-mark': true\n }\n}\n\n/**\n * The default custom mark renderer.\n */\n\nexport const CustomMark = (props: CustomMarkProps) => {\n const { attributes, children } = props\n return <span {...attributes}>{children}\n}\n\n/**\n * A custom decoration for the default placeholder behavior.\n */\n\nexport const PlaceholderDecoration = (props: CustomDecorationProps) => {\n const { decoration, attributes, children } = props\n const { placeholder } = decoration\n return (\n   <span {...attributes}>\n   <span\n   contentEditable={false}\n   style={{\n   pointerEvents: 'none',\n   display: 'inline-block',\n   verticalAlign: 'text-top',\n   width: '0',\n   maxWidth: '100%',\n   whiteSpace: 'nowrap',\n   opacity: '0.333',\n   }}\n   >\n   {placeholder}\n   \n   {children}\n   \n)\n}\n","import { Node, Ancestor, Editor } from 'slate'\n\nimport { Key } from './key'\n\n/**\n * Two weak maps that allow us rebuild a path given a node. They are populated\n * at render time such that after a render occurs we can always backtrack.\n */\n\nexport const NODE_TO_INDEX: WeakMap<Node, number> = new WeakMap()\nexport const NODE_TO_PARENT: WeakMap<Node, Ancestor> = new WeakMap()\n\n/**\n * Weak maps that allow us to go between Slate nodes and DOM nodes. These\n * are used to resolve DOM event-related logic into Slate actions.\n */\n\nexport const EDITOR_TO_ELEMENT: WeakMap<Editor, HTMLElement> = new WeakMap()\nexport const NODE_TO_ELEMENT: WeakMap<Node, HTMLElement> = new WeakMap()\nexport const

ELEMENT_TO_NODE: WeakMap<HTMLElement, Node> = new WeakMap()\nexport const NODE_TO_KEY: WeakMap<Node, Key> = new WeakMap()\nexport const KEY_TO_ELEMENT: WeakMap<Key, HTMLElement> = new WeakMap()\n\n/**\n * Weak maps for storing editor-related state.\n */\n\nexport const IS_READ_ONLY: WeakMap<Editor, boolean> = new WeakMap()\nexport const IS_FOCUSED: WeakMap<Editor, boolean> = new WeakMap()\nexport const IS_DRAGGING: WeakMap<Editor, boolean> = new WeakMap()\nexport const IS_CLICKING: WeakMap<Editor, boolean> = new WeakMap()\nexport const PLACEHOLDER: WeakMap<Editor, string | undefined> = new WeakMap()\n\n/**\n * Symbols.\n */\n\nexport const PLACEHOLDER_SYMBOL = Symbol('placeholder')\n","function _arrayWithoutHoles(arr) {\n if (Array.isArray(arr)) {\n   for (var i = 0, arr2 = new Array(arr.length); i < arr.length; i++) {\n   arr2[i] = arr[i];\n   }\n\n   return arr2;\n }\n}\n\nmodule.exports = _arrayWithoutHoles;","function _iterableToArray(iter) {\n if (Symbol.iterator in Object(iter) || Object.prototype.toString.call(iter) === \"[object Arguments]\") return Array.from(iter);\n}\n\nmodule.exports = _iterableToArray;","function _nonIterableSpread() {\n throw new TypeError(\"Invalid attempt to spread non-iterable instance\");\n}\n\nmodule.exports = _nonIterableSpread;","var arrayWithoutHoles = require(\"./arrayWithoutHoles\");\n\nvar iterableToArray = require(\"./iterableToArray\");\n\nvar nonIterableSpread = require(\"./nonIterableSpread\");\n\nfunction _toConsumableArray(arr) {\n return arrayWithoutHoles(arr) || iterableToArray(arr) || nonIterableSpread();\n}\n\nmodule.exports = _toConsumableArray;","function _defineProperty(obj, key, value) {\n if (key in obj) {\n   Object.defineProperty(obj, key, {\n   value: value,\n   enumerable: true,\n   configurable: true,\n   writable: true\n   });\n } else {\n   obj[key] = value;\n }\n\n return obj;\n}\n\nmodule.exports = _defineProperty;","/*!\n * isobject <https://github.com/jonschlinkert/isobject>\n *\n * Copyright (c) 2014-2017, Jon Schlinkert.\n * Released under the MIT License.\n */\n\nexport default function isObject(val) {\n return val != null && typeof val === 'object' && Array.isArray(val) === false;\n};\n","/*!\n * is-plain-object <https://github.com/jonschlinkert/is-plain-object>\n *\n * Copyright (c) 2014-2017, Jon Schlinkert.\n * Released under the MIT License.\n */\n\nimport isObject from 'isobject';\n\nfunction isObjectObject(o) {\n return isObject(o) === true\n   && Object.prototype.toString.call(o) === '[object Object]';\n}\n\nexport default function isPlainObject(o) {\n var ctor,prot;\n\n if (isObjectObject(o) === false) return false;\n\n // If has modified constructor\n ctor = o.constructor;\n if (typeof ctor !== 'function') return false;\n\n // If has modified prototype\n prot = ctor.prototype;\n if (isObjectObject(prot) === false) return false;\n\n // If constructor does not have an Object-specific method\n if (prot.hasOwnProperty('isPrototypeOf') === false) {\n   return false;\n }\n\n // Most likely a plain Object\n return true;\n};\n","import isPlainObject from 'is-plain-object'\nimport { Range, Mark } from 'slate'\n\n/**\n * The `Leaf` interface represents the individual leaves inside a text node,\n * once annotations and decorations have been applied.\n */\n\ninterface Leaf {\n annotations: Record<string, Range>\n decorations: Range[]\n marks: Mark[]\n text: string\n}\n\nnamespace Leaf {\n /**\n   * Check if two leaves are equal.\n   */\n\n export const equals = (leaf: Leaf, another: Leaf): boolean => {\n   return (\n   leaf.text === another.text &&\n   leaf.annotations.length === another.annotations.length &&\n   leaf.decorations.length === another.decorations.length &&\n   leaf.marks.length === another.marks.length &&\n   leaf.marks.every(m => Mark.exists(m, another.marks)) &&\n   another.marks.every(m => Mark.exists(m, leaf.marks)) &&\n   isRangeListEqual(leaf.decorations, another.decorations) &&\n   isRangeMapEqual(leaf.annotations, another.annotations)\n   )\n }\n\n /**\n   * Check if a value is a `Leaf` object.\n   */\n\n export const isLeaf = (value: any): value is Leaf => {\n   return (\n   isPlainObject(value) &&\n   typeof value.text === 'string' &&\n   Mark.isMarkSet(value.marks) &&\n   Range.isRangeList(value.decorations) &&\n   Range.isRangeMap(value.annotations)\n   )\n }\n\n /**\n   * Split a leaf into two at an offset.\n   */\n\n export const split = (leaf: Leaf, offset: number): [Leaf, Leaf] => {\n   return [\n   {\n   text: leaf.text.slice(0, offset),\n   marks: leaf.marks,\n   annotations: { ...leaf.annotations },\n   decorations: [...leaf.decorations],\n   },\n   {\n   text: leaf.text.slice(offset),\n   marks: leaf.marks,\n   annotations: { ...leaf.annotations },\n   decorations: [...leaf.decorations],\n   },\n   ]\n }\n}\n\n/**\n * Check if a list of ranges is equal to another.\n *\n * PERF: this requires the two lists to also have the ranges inside them in the\n * same order, but this is an okay constraint for us since decorations are\n * kept in order, and the odd case where they aren't is okay to re-render for.\n

*/\n\nconst isRangeListEqual = (list: Range[], another: Range[]): boolean => {\n if (list.length !== another.length) {\n   return false\n }\n\n for (let i = 0; i < list.length; i++) {\n   const range = list[i]\n   const other = another[i]\n\n   if (!Range.equals(range, other)) {\n   return false\n   }\n }\n\n return true\n}\n\n/**\n * Check if a map of ranges is equal to another.\n */\n\nconst isRangeMapEqual = (\n map: Record<string, Range>,\n another: Record<string, Range>\n): boolean => {\n if (Object.keys(map).length !== Object.keys(another).length) {\n   return false\n }\n\n for (const key in map) {\n   const range = map[key]\n   const other = another[key]\n\n   if (!Range.equals(range, other)) {\n   return false\n   }\n }\n\n return true\n}\n\nexport { Leaf, isRangeListEqual, isRangeMapEqual }\n","import React from 'react'\nimport { Mark, Range, Text, Element } from 'slate'\nimport String from './string'\nimport {\n CustomAnnotation,\n CustomAnnotationProps,\n CustomDecoration,\n CustomDecorationProps,\n CustomMark,\n CustomMarkProps,\n PlaceholderDecoration,\n} from './custom'\nimport { PLACEHOLDER_SYMBOL } from '../utils/weak-maps'\nimport { Leaf as SlateLeaf } from '../utils/leaf'\n\n/**\n * Individual leaves in a text node with unique formatting.\n */\n\nconst Leaf = (props: {\n isLast: boolean\n leaf: SlateLeaf\n parent: Element\n renderAnnotation?: (props: CustomAnnotationProps) => JSX.Element\n renderDecoration?: (props: CustomDecorationProps) => JSX.Element\n renderMark?: (props: CustomMarkProps) => JSX.Element\n text: Text\n}) => {\n const {\n   leaf,\n   isLast,\n   text,\n   parent,\n   renderAnnotation = (props: CustomAnnotationProps) => (\n   <CustomAnnotation {...props} />\n   ),\n   renderDecoration = (props: CustomDecorationProps) => (\n   <CustomDecoration {...props} />\n   ),\n   renderMark = (props: CustomMarkProps) => <CustomMark {...props} />,\n } = props\n\n let children = (\n   <String isLast={isLast} leaf={leaf} parent={parent} text={text} />\n)\n\n // COMPAT: Having the `data-` attributes on these leaf elements ensures that\n // in certain misbehaving browsers they aren't weirdly cloned/destroyed by\n // contenteditable behaviors. (2019/05/08)\n for (const mark of leaf.marks) {\n   const ret = renderMark({\n   children,\n   leaf,\n   mark,\n   text,\n   attributes: {\n   'data-slate-mark': true,\n   },\n   })\n\n   if (ret) {\n   children = ret\n   }\n }\n\n for (const decoration of leaf.decorations) {\n   const p = {\n   children,\n   decoration,\n   leaf,\n   text,\n   attributes: {\n   'data-slate-decoration': true,\n   },\n   }\n\n   if (PLACEHOLDER_SYMBOL in decoration) {\n   // @ts-ignore\n   children = <PlaceholderDecoration {...p} />\n   } else {\n   // @ts-ignore\n   const ret = renderDecoration(p)\n\n   if (ret) {\n   children = ret\n   }\n   }\n }\n\n for (const key in leaf.annotations) {\n   const annotation = leaf.annotations[key]\n   const ret = renderAnnotation({\n   annotation,\n   children,\n   key,\n   leaf,\n   text,\n   attributes: {\n   'data-slate-annotation': true,\n   },\n   })\n\n   if (ret) {\n   children = ret\n   }\n }\n\n return <span data-slate-leaf>{children}\n}\n\nconst MemoizedLeaf = React.memo(Leaf, (prev, next) => {\n return (\n   next.parent === prev.parent &&\n   next.isLast === prev.isLast &&\n   next.renderAnnotation === prev.renderAnnotation &&\n   next.renderDecoration === prev.renderDecoration &&\n   next.renderMark === prev.renderMark &&\n   next.text === prev.text &&\n   SlateLeaf.equals(next.leaf, prev.leaf)\n)\n})\n\nexport default MemoizedLeaf\n","import React, { useLayoutEffect, useRef } from 'react'\nimport { Range, Element, Mark, Text as SlateText } from 'slate'\n\nimport Leaf from './leaf'\nimport { Leaf as SlateLeaf } from '../utils/leaf'\nimport { useEditor } from '../hooks/use-editor'\nimport {\n KEY_TO_ELEMENT,\n NODE_TO_ELEMENT,\n ELEMENT_TO_NODE,\n} from '../utils/weak-maps'\nimport {\n CustomAnnotationProps,\n CustomDecorationProps,\n CustomMarkProps,\n} from './custom'\n\n/**\n * Text.\n */\n\nconst Text = (props: {\n annotations: Record<string, Range>\n decorations: Range[]\n isLast: boolean\n parent: Element\n renderAnnotation?: (props: CustomAnnotationProps) => JSX.Element\n renderDecoration?: (props: CustomDecorationProps) => JSX.Element\n renderMark?: (props: CustomMarkProps) => JSX.Element\n text: SlateText\n}) => {\n const {\n   annotations,\n   decorations,\n   isLast,\n   parent,\n   renderAnnotation,\n   renderDecoration,\n   renderMark,\n   text,\n } = props\n const editor = useEditor()\n const ref = useRef<HTMLSpanElement>(null)\n const leaves = getLeaves(text, annotations, decorations)\n const key = editor.findKey(text)\n const children = []\n\n for (let i = 0; i < leaves.length; i++) {\n   const leaf = leaves[i]\n\n   children.push(\n   <Leaf\n   isLast={isLast && i === leaves.length - 1}\n   key={`${key.id}-${i}`}\n   leaf={leaf}\n   text={text}\n   parent={parent}\n   renderAnnotation={renderAnnotation}\n   renderDecoration={renderDecoration}\n   renderMark={renderMark}\n   />\n   )\n }\n\n console.log('render

(text)')\n\n // Update element-related weak maps with the DOM element ref.\n useLayoutEffect(() => {\n   if (ref.current) {\n   console.log('add (text)', key)\n   KEY_TO_ELEMENT.set(key, ref.current)\n   NODE_TO_ELEMENT.set(text, ref.current)\n   ELEMENT_TO_NODE.set(ref.current, text)\n   } else {\n   console.log('remove (text)', key)\n   KEY_TO_ELEMENT.delete(key)\n   NODE_TO_ELEMENT.delete(text)\n   }\n })\n\n return (\n   <span data-slate-node=\"text\" ref={ref}>\n   {children}\n   \n)\n}\n\n/**\n * Get the leaves for a text node given annotations and decorations.\n */\n\nconst getLeaves = (\n node: SlateText,\n annotations: Record<string, Range>,\n decorations: Range[]\n): SlateLeaf[] => {\n const { text, marks } = node\n let leaves: SlateLeaf[] = [{ text, marks, annotations: {}, decorations: [] }]\n\n const compile = (\n   collection: 'annotations' | 'decorations',\n   range: Range,\n   key?: string\n) => {\n   const [start, end] = Range.edges(range)\n   const next = []\n   let o = 0\n\n   for (const leaf of leaves) {\n   const { length } = leaf.text\n   const offset = o\n   o += length\n\n   // If the range encompases the entire leaf, add the range.\n   if (start.offset <= offset && end.offset >= offset + length) {\n   if (collection === 'annotations') {\n   leaf.annotations[key!] = range\n   } else {\n   leaf.decorations.push(range)\n   }\n\n   next.push(leaf)\n   continue\n   }\n\n   // If the range starts after the leaf, or ends before it, continue.\n   if (\n   start.offset > offset + length ||\n   end.offset < offset ||\n   (end.offset === offset && offset !== 0)\n   ) {\n   next.push(leaf)\n   continue\n   }\n\n   // Otherwise we need to split the leaf, at the start, end, or both,\n   // and add the range to the middle intersecting section. Do the end\n   // split first since we don't need to update the offset that way.\n   let middle = leaf\n   let before\n   let after\n\n   if (end.offset < offset + length) {\n   ;[middle, after] = SlateLeaf.split(middle, end.offset - offset)\n   }\n\n   if (start.offset > offset) {\n   ;[before, middle] = SlateLeaf.split(middle, start.offset - offset)\n   }\n\n   if (collection === 'annotations') {\n   middle.annotations[key!] = range\n   } else {\n   middle.decorations.push(range)\n   }\n\n   if (before) {\n   next.push(before)\n   }\n\n   next.push(middle)\n\n   if (after) {\n   next.push(after)\n   }\n   }\n\n   leaves = next\n }\n\n for (const key in annotations) {\n   const range = annotations[key]\n   compile('annotations', range, key)\n }\n\n for (const range of decorations) {\n   compile('decorations', range)\n }\n\n return leaves\n}\n\nconst MemoizedText = React.memo(Text, (prev, next) => {\n if (\n   next.parent === prev.parent &&\n   next.isLast === prev.isLast &&\n   next.renderAnnotation === prev.renderAnnotation &&\n   next.renderDecoration === prev.renderDecoration &&\n   next.renderMark === prev.renderMark &&\n   next.text === prev.text\n) {\n   return SlateLeaf.equals(\n   {\n   ...next.text,\n   annotations: next.annotations,\n   decorations: next.decorations,\n   },\n   {\n   ...prev.text,\n   annotations: prev.annotations,\n   decorations: prev.decorations,\n   }\n   )\n }\n\n return false\n})\n\nexport default MemoizedText\n","import { createContext, useContext } from 'react'\n\n/**\n * A React context for sharing the `readOnly` state of the editor.\n */\n\nexport const ReadOnlyContext = createContext(false)\n\n/**\n * Get the current `readOnly` state of the editor.\n */\n\nexport const useReadOnly = (): boolean => {\n return useContext(ReadOnlyContext)\n}\n","import { createContext, useContext } from 'react'\n\n/**\n * A React context for sharing the `selected` state of an element.\n */\n\nexport const SelectedContext = createContext(false)\n\n/**\n * Get the current `selected` state of an element.\n */\n\nexport const useSelected = (): boolean => {\n return useContext(SelectedContext)\n}\n","import React, { useLayoutEffect, useRef } from 'react'\nimport getDirection from 'direction'\nimport { Node, Range, NodeEntry, Element as SlateElement, Path } from 'slate'\n\nimport Text from './text'\nimport Children from './children'\nimport { useEditor } from '../hooks/use-editor'\nimport { useReadOnly } from '../hooks/use-read-only'\nimport { SelectedContext } from '../hooks/use-selected'\nimport {\n NODE_TO_ELEMENT,\n ELEMENT_TO_NODE,\n NODE_TO_PARENT,\n NODE_TO_INDEX,\n KEY_TO_ELEMENT,\n} from '../utils/weak-maps'\nimport {\n CustomAnnotationProps,\n CustomDecorationProps,\n CustomElement,\n CustomElementProps,\n CustomMarkProps,\n} from './custom'\nimport { isRangeListEqual, isRangeMapEqual } from '../utils/leaf'\n\n/**\n * Element.\n */\n\nconst Element = (props: {\n annotations: Record<string, Range>\n decorate: (entry: NodeEntry) => Range[]\n decorations: Range[]\n element: SlateElement\n renderAnnotation?: (props: CustomAnnotationProps) => JSX.Element\n renderDecoration?: (props: CustomDecorationProps) => JSX.Element\n renderElement?: (props: CustomElementProps) => JSX.Element\n renderMark?: (props: CustomMarkProps) => JSX.Element\n selection: Range | null\n}) => {\n const {\n   annotations,\n   decorate,\n

decorations,\n element,\n renderAnnotation,\n renderDecoration,\n renderElement = (props: CustomElementProps) => <CustomElement {...props} />,\n renderMark,\n selection,\n } = props\n const ref = useRef<HTMLElement>(null)\n const editor = useEditor()\n const readOnly = useReadOnly()\n const isInline = editor.isInline(element)\n const key = editor.findKey(element)\n\n let children: JSX.Element | null = (\n <Children\n annotations={annotations}\n decorate={decorate}\n decorations={decorations}\n node={element}\n renderAnnotation={renderAnnotation}\n renderDecoration={renderDecoration}\n renderElement={renderElement}\n renderMark={renderMark}\n selection={selection}\n />\n)\n\n // Attributes that the developer must mix into the element in their\n // custom node renderer component.\n const attributes: {\n 'data-slate-node': 'element'\n 'data-slate-void'?: true\n 'data-slate-inline'?: true\n contentEditable?: false\n dir?: 'rtl'\n ref: any\n } = {\n 'data-slate-node': 'element',\n ref,\n }\n\n if (isInline) {\n attributes['data-slate-inline'] = true\n }\n\n // If it's a block node with inline children, add the proper `dir` attribute\n // for text direction.\n if (!isInline && editor.hasInlines(element)) {\n const text = Node.text(element)\n const dir = getDirection(text)\n\n if (dir === 'rtl') {\n attributes.dir = dir\n }\n }\n\n // If it's a void node, wrap the children in extra void-specific elements.\n if (editor.isVoid(element)) {\n attributes['data-slate-void'] = true\n\n if (!readOnly && isInline) {\n attributes['contentEditable'] = false\n }\n\n const Tag = isInline ? 'span' : 'div'\n const [[text]] = Node.texts(element)\n children = readOnly ? null : (\n <Tag\n data-slate-spacer\n style={{\n height: '0',\n color: 'transparent',\n outline: 'none',\n position: 'absolute',\n }}\n >\n <Text\n annotations={{}}\n decorations={[]}\n isLast={false}\n parent={element}\n text={text}\n />\n </Tag>\n)\n\n NODE_TO_INDEX.set(text, 0)\n NODE_TO_PARENT.set(text, element)\n }\n\n console.log('render (element)')\n\n // Update element-related weak maps with the DOM element ref.\n useLayoutEffect(() => {\n if (ref.current) {\n console.log('add (element)', key)\n KEY_TO_ELEMENT.set(key, ref.current)\n NODE_TO_ELEMENT.set(element, ref.current)\n ELEMENT_TO_NODE.set(ref.current, element)\n } else {\n console.log('remove (element)', key)\n KEY_TO_ELEMENT.delete(key)\n NODE_TO_ELEMENT.delete(element)\n }\n })\n\n return (\n <SelectedContext.Provider value={!!selection}>\n {renderElement({ attributes, children, element })}\n </SelectedContext.Provider>\n)\n}\n\nconst MemoizedElement = React.memo(Element, (prev, next) => {\n return (\n prev.decorate === next.decorate &&\n prev.element === next.element &&\n prev.renderAnnotation === next.renderAnnotation &&\n prev.renderDecoration === next.renderDecoration &&\n prev.renderElement === next.renderElement &&\n prev.renderMark === next.renderMark &&\n isRangeListEqual(prev.decorations, next.decorations) &&\n isRangeMapEqual(prev.annotations, next.annotations) &&\n (prev.selection === next.selection ||\n (!!prev.selection &&\n !!next.selection &&\n Range.equals(prev.selection, next.selection)))\n)\n})\n\nexport default MemoizedElement\n","import React from 'react'\nimport { Range, Element, NodeEntry, Ancestor, Descendant } from 'slate'\n\nimport ElementComponent from './element'\nimport TextComponent from './text'\nimport { useEditor } from '../hooks/use-editor'\nimport { NODE_TO_INDEX, NODE_TO_PARENT } from '../utils/weak-maps'\nimport {\n CustomAnnotationProps,\n CustomDecorationProps,\n CustomElementProps,\n CustomMarkProps,\n} from './custom'\n\n/**\n * Children.\n */\n\nconst Children = (props: {\n annotations: Record<string, Range>\n decorate: (entry: NodeEntry) => Range[]\n decorations: Range[]\n node: Ancestor\n renderAnnotation?: (props: CustomAnnotationProps) => JSX.Element\n renderDecoration?: (props: CustomDecorationProps) => JSX.Element\n renderElement?: (props: CustomElementProps) => JSX.Element\n renderMark?: (props: CustomMarkProps) => JSX.Element\n selection: Range | null\n}) => {\n const {\n annotations,\n decorate,\n decorations,\n node,\n renderAnnotation,\n renderDecoration,\n renderElement,\n renderMark,\n selection,\n } = props\n const editor = useEditor()\n const path = editor.findPath(node)\n const children = []\n const isLeafBlock =\n Element.isElement(node) &&\n !editor.isInline(node) &&\n editor.hasInlines(node)\n\n for (let i = 0; i < node.nodes.length; i++) {\n const p = path.concat(i)\n const n = node.nodes[i] as Descendant\n const key = editor.findKey(n)\n const range = editor.getRange(p)\n const sel = selection && Range.intersection(range, selection)\n const decs = decorate([n, p])\n const anns = {}\n\n for (const dec of decorations) {\n const d = Range.intersection(dec, range)\n\n if

(d) {\n decs.push(d)\n }\n }\n\n for (const k in annotations) {\n const ann = annotations[k]\n const a = Range.intersection(ann, range)\n\n if (a) {\n anns[k] = a\n }\n }\n\n if (Element.isElement(n)) {\n children.push(\n <ElementComponent\n annotations={anns}\n decorate={decorate}\n decorations={decs}\n element={n}\n key={key.id}\n renderAnnotation={renderAnnotation}\n renderDecoration={renderDecoration}\n renderElement={renderElement}\n renderMark={renderMark}\n selection={sel}\n />\n)\n } else {\n children.push(\n <TextComponent\n annotations={anns}\n decorations={decs}\n key={key.id}\n isLast={isLeafBlock && i === node.nodes.length}\n parent={node}\n renderAnnotation={renderAnnotation}\n renderDecoration={renderDecoration}\n renderMark={renderMark}\n text={n}\n />\n)\n }\n\n NODE_TO_INDEX.set(n, i)\n NODE_TO_PARENT.set(n, node)\n }\n\n return <React.Fragment>{children}</React.Fragment>\n}\n\nexport default Children\n","import { createContext, useContext } from 'react'\n\n/**\n * A React context for sharing the `focused` state of the editor.\n */\n\nexport const FocusedContext = createContext(false)\n\n/**\n * Get the current `focused` state of the editor.\n */\n\nexport const useFocused = (): boolean => {\n return useContext(FocusedContext)\n}\n","export const IS_IOS =\n typeof navigator !== 'undefined' &&\n typeof window !== 'undefined' &&\n /iPad|iPhone|iPod/.test(navigator.userAgent) &&\n !window.MSStream\n\nexport const IS_APPLE =\n typeof navigator !== 'undefined' && /Mac OS X/.test(navigator.userAgent)\n\nexport const IS_FIREFOX =\n typeof navigator !== 'undefined' &&\n /^(?!.*Seamonkey)(?=.*Firefox).*/i.test(navigator.userAgent)\n\nexport const IS_SAFARI =\n typeof navigator !== 'undefined' &&\n /Version\\/[\\d\\.]+.*Safari/.test(navigator.userAgent)\n","function _arrayWithHoles(arr) {\n if (Array.isArray(arr)) return arr;\n}\n\nmodule.exports = _arrayWithHoles;","function _iterableToArrayLimit(arr, i) {\n if (!(Symbol.iterator in Object(arr) || Object.prototype.toString.call(arr) === \"[object Arguments]\")) {\n return;\n }\n\n var _arr = [];\n var _n = true;\n var _d = false;\n var _e = undefined;\n\n try {\n for (var _i = arr[Symbol.iterator](), _s; !(_n = (_s = _i.next()).done); _n = true) {\n _arr.push(_s.value);\n\n if (i && _arr.length === i) break;\n }\n } catch (err) {\n _d = true;\n _e = err;\n } finally {\n try {\n if (!_n && _i[\"return\"] != null) _i[\"return\"]();\n } finally {\n if (_d) throw _e;\n }\n }\n\n return _arr;\n}\n\nmodule.exports = _iterableToArrayLimit;","function _nonIterableRest() {\n throw new TypeError(\"Invalid attempt to destructure non-iterable instance\");\n}\n\nmodule.exports = _nonIterableRest;","var arrayWithHoles = require(\"./arrayWithHoles\");\n\nvar iterableToArrayLimit = require(\"./iterableToArrayLimit\");\n\nvar nonIterableRest = require(\"./nonIterableRest\");\n\nfunction _slicedToArray(arr, i) {\n return arrayWithHoles(arr) || iterableToArrayLimit(arr, i) || nonIterableRest();\n}\n\nmodule.exports = _slicedToArray;","/**\n * Types.\n */\n\nexport type DOMComment = Comment\nexport type DOMElement = Element\nexport type DOMText = Text\nexport type DOMNode = Node\nexport type DOMPoint = [Node, number]\nexport type DOMRange = Range\nexport type DOMSelection = Selection\nexport type DOMStaticRange = StaticRange\n\n/**\n * Check if a DOM node is a comment node.\n */\n\nexport const isDOMComment = (value: any): value is DOMComment => {\n return isDOMNode(value) && value.nodeType === 8\n}\n\n/**\n * Check if a DOM node is an element node.\n */\n\nexport const isDOMElement = (value: any): value is DOMElement => {\n return isDOMNode(value) && value.nodeType === 1\n}\n\n/**\n * Check if a value is a DOM node.\n */\n\nexport const isDOMNode = (value: any): value is DOMNode => {\n return value instanceof Node\n}\n\n/**\n * Check if a DOM node is an element node.\n */\n\nexport const isDOMText = (value: any): value is DOMText => {\n return isDOMNode(value) && value.nodeType === 3\n}\n\n/**\n * Normalize a DOM point so that it always refers to a text node.\n */\n\nexport const normalizeDOMPoint = (domPoint: DOMPoint): DOMPoint => {\n let [node, offset] = domPoint\n\n // If it's an element node, its offset refers to the index of its children\n // including comment nodes, so try to find the right text child node.\n if (isDOMElement(node) && node.childNodes.length) {\n const isLast = offset === node.childNodes.length\n const direction = isLast ? 'backward' : 'forward'\n const index = isLast ? offset - 1 : offset\n node = getEditableChild(node, index, direction)\n\n // If the node has children, traverse until we have a leaf node. Leaf nodes\n // can be either text nodes, or other void DOM nodes.\n while (isDOMElement(node)

```
&& node.childNodes.length) {\n      const i = isLast ? node.childNodes.length - 1 : 0\n      node =
getEditableChild(node, i, direction)\n    }\n\n    // Determine the new offset inside the text node.\n    offset = isLast
&& node.textContent != null ? node.textContent.length : 0\n  }\n\n  // Return the node and offset.\n  return [node,
offset]\n}\n\n/**\n * Get the nearest editable child at `index` in a `parent`, preferring\n * `direction`.\n */\n\nexport
const getEditableChild = (\n  parent: DOMElement,\n  index: number,\n  direction: 'forward' | 'backward'\n):
DOMNode => {\n  const { childNodes } = parent\n  let child = childNodes[index]\n  let i = index\n  let triedForward
= false\n  let triedBackward = false\n\n  // While the child is a comment node, or an element node with no
children,\n  // keep iterating to find a sibling non-void, non-comment node.\n  while (\n    isDOMComment(child)
||\n    (isDOMElement(child) && child.childNodes.length === 0) ||\n    (isDOMElement(child) &&
child.getAttribute('contenteditable') === 'false')\n  ) {\n    if (triedForward && triedBackward) {\n      break\n
}\n\n    if (i >= childNodes.length) {\n      triedForward = true\n      i = index - 1\n      direction = 'backward'\n
continue\n    }\n\n    if (i < 0) {\n      triedBackward = true\n      i = index + 1\n      direction = 'forward'\n
continue\n    }\n\n    child = childNodes[i]\n    i += direction === 'forward' ? 1 : -1\n  }\n\n  return
child\n}\n","import { Fragment, Range as SlateRange, Node as SlateNode } from 'slate'\n\nimport { ReactEditor }
from '../plugin'\nimport { isDOMText, isDOMElement, DOMNode } from './dom'\n\nnamespace Utils {\n  /**\n   *
Get the `Fragment` data from a `DataTransfer` object.\n   */\n\n  export const getFragmentData = (\n    dataTransfer:
DataTransfer\n  ): Fragment | undefined => {\n    const base64 = dataTransfer.getData('application/x-slate-
fragment')\n\n    if (base64) {\n      const decoded = decodeURIComponent(window.atob(base64))\n      const
fragment = JSON.parse(decoded)\n      return fragment\n    }\n  }\n\n  /**\n   * Set the currently selected fragment to
the clipboard.\n   */\n\n  export const setFragmentData = (\n    dataTransfer: DataTransfer,\n    editor: ReactEditor\n
): void => {\n    const { value } = editor\n    const { selection } = value\n\n    if (!selection) {\n      return\n    }\n\n
const [start, end] = SlateRange.edges(selection)\n    const startVoid = editor.getMatch(start.path, 'void')\n    const
endVoid = editor.getMatch(end.path, 'void')\n\n    if (SlateRange.isCollapsed(selection) && !startVoid) {\n
return\n    }\n\n    // Create a fake selection so that we can add a Base64-encoded copy of the\n    // fragment to the
HTML, to decode on future pastes.\n    const domRange = editor.toDomRange(selection)\n    let contents =
domRange.cloneContents()\n    let attach = contents.childNodes[0] as HTMLElement\n\n    // Make sure attach is
non-empty, since empty nodes will not get copied.\n    contents.childNodes.forEach(node => {\n      if
(node.textContent && node.textContent.trim() !== '') {\n        attach = node as HTMLElement\n      }\n    })\n\n    //
COMPAT: If the end node is a void node, we need to move the end of the\n    // range from the void node's spacer
span, to the end of the void node's\n    // content, since the spacer is before void's content in the DOM.\n    if
(endVoid) {\n      const [voidNode] = endVoid\n      const r = domRange.cloneRange()\n      const domNode =
editor.toDomNode(voidNode)\n      r.setEndAfter(domNode)\n      contents = r.cloneContents()\n    }\n\n    //
COMPAT: If the start node is a void node, we need to attach the encoded\n    // fragment to the void node's content
node instead of the spacer, because\n    // attaching it to empty `<div>/<span>` nodes will end up having it erased
by\n    // most browsers. (2018/04/27)\n    if (startVoid) {\n      attach = contents.querySelector('[data-slate-spacer]')!
as HTMLElement\n    }\n\n    // Remove any zero-width space spans from the cloned DOM so that they don't\n    //
show up elsewhere when pasted.\n    Array.from(contents.querySelectorAll('[data-slate-zero-width]')).forEach(\n
zw => {\n      const isNewline = zw.getAttribute('data-slate-zero-width') === 'n'\n      zw.textContent = isNewline
? '\\n' : ''\n    }\n    )\n\n    // Set a `data-slate-fragment` attribute on a non-empty node, so it shows up\n    // in the
HTML, and can be used for intra-Slate pasting. If it's a text\n    // node, wrap it in a `<span>` so we have something
to set an attribute on.\n    if (isDOMText(attach)) {\n      const span = document.createElement('span')\n      //
COMPAT: In Chrome and Safari, if we don't add the `white-space` style\n      // then leading and trailing spaces will
be ignored. (2017/09/21)\n      span.style.whiteSpace = 'pre'\n      span.appendChild(attach)\n
contents.appendChild(span)\n      attach = span\n    }\n\n    const fragment = SlateNode.fragment(value, selection)\n
const string = JSON.stringify(fragment)\n    const encoded = window.btoa(encodeURIComponent(string))\n
attach.setAttribute('data-slate-fragment', encoded)\n    dataTransfer.setData('application/x-slate-fragment',
encoded)\n\n    // Add the content to a <div> so that we can get its inner HTML.\n    const div =
document.createElement('div')\n    div.appendChild(contents)\n    dataTransfer.setData('text/html',
```

div.innerHTML)\n dataTransfer.setData('text/plain', getPlainText(div))\n }\n}\n\n/**\n * Get a plaintext representation of the content of a node, accounting for block\n * elements which get a newline appended.\n */\n\nconst getPlainText = (domNode: DOMNode) => {\n let text = ''\n\n if (isDOMText(domNode) && domNode.nodeValue) {\n   return domNode.nodeValue\n }\n\n if (isDOMElement(domNode)) {\n   for (const childNode of Array.from(domNode.childNodes)) {\n   text += getPlainText(childNode)\n   }\n\n   var display = getComputedStyle(domNode).getPropertyValue('display')\n\n   if (display === 'block' || display === 'list' || domNode.tagName === 'BR') {\n   text += '\\n'\n   }\n }\n\n return text\n}\n\nexport { Utils }\n","import React, { useLayoutEffect, useRef, useMemo, useCallback } from 'react'\nimport {\n Value,\n Element,\n NodeEntry,\n Range as SlateRange,\n Operation,\n} from 'slate'\nimport debounce from 'lodash/debounce'\nimport scrollIntoView from 'scroll-into-view-if-needed'\n\nimport Children from './children'\nimport { EditorContext } from '../hooks/use-editor'\nimport { FocusedContext } from '../hooks/use-focused'\nimport { IS_FIREFOX, IS_SAFARI } from '../utils/environment'\nimport { ReactEditor } from '../plugin'\nimport { ReadOnlyContext } from '../hooks/use-read-only'\nimport {\n DOMElement,\n DOMNode,\n DOMRange,\n isDOMElement,\n isDOMNode,\n DOMStaticRange,\n} from '../utils/dom'\nimport {\n EDITOR_TO_ELEMENT,\n ELEMENT_TO_NODE,\n IS_READ_ONLY,\n NODE_TO_ELEMENT,\n IS_FOCUSED,\n PLACEHOLDER,\n} from '../utils/weak-maps'\nimport { Utils } from '../utils/utils'\nimport {\n CustomAnnotationProps,\n CustomDecorationProps,\n CustomElementProps,\n CustomMarkProps,\n} from './custom'\n\n/**\n * Editor.\n */\n\nconst Editor = (props: {\n decorate?: (entry: NodeEntry) => SlateRange[]\n editor: ReactEditor\n onChange: (value: Value, operations: Operation[]) => void\n placeholder?: string\n readOnly?: boolean\n role?: string\n style?: Record<string, any>\n renderAnnotation?: (props: CustomAnnotationProps) => JSX.Element\n renderDecoration?: (props: CustomDecorationProps) => JSX.Element\n renderElement?: (props: CustomElementProps) => JSX.Element\n renderMark?: (props: CustomMarkProps) => JSX.Element\n value: Value\n [key: string]: any\n}) => {\n const {\n   decorate = defaultDecorate,\n   editor,\n   value,\n   onChange,\n   placeholder,\n   readOnly = false,\n   renderAnnotation,\n   renderDecoration,\n   renderElement,\n   renderMark,\n   role = 'textbox',\n   style = {},\n   ...attributes\n } = props\n if (!Value.isValue(value)) {\n   throw new Error(\n   `The \\`value=\\` prop you passed to <Editor> was not a valid Slate value: ${JSON.stringify(\n        value\n      )}`\n   )\n }\n\n const ref = useRef<HTMLDivElement>(null)\n\n // Update internal state on each render.\n editor.onChange = onChange\n editor.value = value\n PLACEHOLDER.set(editor, placeholder)\n IS_READ_ONLY.set(editor, readOnly)\n\n // Keep track of some state for the event handler logic.\n const state = useMemo(\n   () => ({\n   isComposing: false,\n   isUpdatingSelection: false,\n   latestElement: null as DOMElement | null,\n   }),\n   []\n)\n\n // Update element-related weak maps with the DOM element ref.\n useLayoutEffect(() => {\n   if (ref.current) {\n   EDITOR_TO_ELEMENT.set(editor, ref.current)\n   NODE_TO_ELEMENT.set(value, ref.current)\n   ELEMENT_TO_NODE.set(ref.current, value)\n   } else {\n   NODE_TO_ELEMENT.delete(value)\n   }\n })\n\n // Attach a native DOM event handler for `selectionchange`, because React's\n // built-in `onSelect` handler doesn't fire for all selection changes. It's a\n // leaky polyfill that only fires on keypresses or clicks. Instead, we want to\n // fire for any change to the selection inside the editor. (2019/11/04)\n // https://github.com/facebook/react/issues/5785\n useLayoutEffect(() => {\n   window.document.addEventListener('selectionchange', onDOMSelectionChange)\n\n   return () => {\n   window.document.removeEventListener(\n   'selectionchange',\n   onDOMSelectionChange\n   )\n   }\n }, [])\n\n // Attach a native DOM event handler for `beforeinput` events, because React's\n // built-in `onBeforeInput` is actually a leaky polyfill that doesn't expose\n // real `beforeinput` events sadly... (2019/11/04)\n // https://github.com/facebook/react/issues/11211\n useLayoutEffect(() => {\n   if (ref.current) {\n   // @ts-ignore The `beforeinput` event isn't recognized.\n   ref.current.addEventListener('beforeinput', onDOMBeforeInput)\n   }\n\n   return () => {\n   if (ref.current) {\n   // @ts-ignore The `beforeinput` event isn't recognized.\n   ref.current.removeEventListener('beforeinput', onDOMBeforeInput)\n   }\n   }\n }, [])\n\n console.log('render')\n\n // Whenever the editor updates, make sure the DOM selection state is in sync.\n useLayoutEffect(() => {\n   console.log('useLayoutEffect: sync selection')\n   const { selection } = value\n   const

```
domSelection = window.getSelection()\n\n    if (state.isComposing || !domSelection || !editor.isFocused()) {\n
return\n    }\n\n    const el = editor.toDomNode(value)\n    const domRange = domSelection.getRangeAt(0)\n
const newDomRange = selection && editor.toDomRange(selection)\n\n    if (\n      (!selection && !domRange) ||\n
  (domRange && newDomRange && isRangeEqual(domRange, newDomRange))\n    ) {\n      return\n    }\n\n
state.isUpdatingSelection = true\n    console.log('updating domSelection')\n    domSelection.removeAllRanges()\n\n
 if (newDomRange) {\n      domSelection.addRange(newDomRange!)\n      const leafEl =
newDomRange.startContainer.parentElement!\n      scrollIntoView(leafEl, { scrollMode: 'if-needed' })\n    }\n\n
setTimeout(() => {\n      // COMPAT: In Firefox, it's not enough to create a range, you also need\n      // to focus the
contenteditable element too. (2016/11/16)\n      if (newDomRange && IS_FIREFOX) {\n        el.focus()\n      }\n\n
 state.isUpdatingSelection = false\n    })\n  })\n\n  // Listen on the native `beforeinput` event to get real \"Level 2\"
events. This\n  // is required because React's `beforeinput` is fake and never really attaches\n  // to the real event
sadly. (2019/11/01)\n  // https://github.com/facebook/react/issues/11211\n  const onDOMBeforeInput =
useCallback(\n    (\n      event: Event & {\n        data: string | null\n        dataTransfer: DataTransfer | null\n
getTargetRanges(): DOMStaticRange[]\n        inputType: string\n        isComposing: boolean\n      }\n    ) => {\n
if (!readOnly && hasEditableTarget(editor, event.target)) {\n      console.log('beforeinput', event)\n      const {
inputType } = event\n\n      // These two types occur while a user is composing text and can't be\n      // cancelled.
Let them through and wait for the composition to end.\n      if (\n        inputType === 'insertCompositionText' ||\n
      inputType === 'deleteCompositionText'\n      ) {\n        return\n      }\n\n      const [targetRange] =
event.getTargetRanges()\n\n      if (targetRange && inputType !== 'deleteContent') {\n        const range =
editor.toSlateRange(targetRange)\n        editor.select(range)\n      }\n\n      event.preventDefault()\n
editor.onBeforeInput(event)\n    }\n  },\n  []\n  )\n\n  // On native `selectionchange` event, trigger the `onSelect`
handler. This is\n  // needed to account for React's `onSelect` being non-standard and not firing\n  // until after a
selection has been released. This causes issues in situations\n  // where another change happens while a selection is
being dragged.\n  const onDOMSelectionChange = useCallback(\n    debounce(() => {\n
console.log('selectionchange')\n      if (!readOnly && !state.isComposing && !state.isUpdatingSelection) {\n
const { activeElement } = window.document\n        const el = editor.toDomNode(value)\n        const domSelection =
window.getSelection()\n        const domRange =\n          domSelection &&\n          domSelection.rangeCount > 0
&&\n          domSelection.getRangeAt(0)\n\n        if (activeElement === el) {\n          state.latestElement =
activeElement\n          IS_FOCUSED.set(editor, true)\n        } else {\n          IS_FOCUSED.delete(editor)\n
}\n\n        if (\n          domRange &&\n          hasEditableTarget(editor, domRange.startContainer) &&\n
hasEditableTarget(editor, domRange.endContainer)\n        ) {\n          const range =
editor.toSlateRange(domRange)\n          console.log('select', domRange, range)\n          editor.select(range)\n        }
else {\n          editor.deselect()\n        }\n      }\n    }, 100),\n    []\n  )\n\n  return (\n    <EditorContext.Provider
value={editor}>\n      <ReadOnlyContext.Provider value={readOnly}>\n        <FocusedContext.Provider
value={editor.isFocused()}>\n          <div\n            // COMPAT: The Grammarly Chrome extension works by
changing the DOM\n            // out from under `contenteditable` elements, which leads to weird\n            // behaviors
so we have to disable it like editor. (2017/04/24)\n            data-gramm={false}\n            role={readOnly ? undefined
: props.role || 'textbox'}\n            {...attributes}\n            data-slate-editor\n            data-slate-node=\"value\"\n
contentEditable={readOnly ? undefined : true}\n            suppressContentEditableWarning\n            ref={ref}\n
 style={{\n              // Prevent the default outline styles.\n              outline: 'none',\n              // Preserve adjacent
whitespace and new lines.\n              whiteSpace: 'pre-wrap',\n              // Allow words to break if they are too long.\n
              wordWrap: 'break-word',\n              // Allow for passed-in styles to override anything.\n              ...style,\n
    }}\n            onBlur={useCallback((event: React.FocusEvent) => {\n              if (\n                !readOnly &&\n
    !state.isUpdatingSelection &&\n                hasEditableTarget(editor, event.target) &&\n                // COMPAT: If
the current `activeElement` is still the previous\n                // one, this is due to the window being blurred when the
tab\n                // itself becomes unfocused, so we want to abort early to allow to\n                // editor to stay focused
when the tab becomes focused again.\n                state.latestElement !== window.document.activeElement\n
) {\n                const { relatedTarget } = event\n\n                // COMPAT: The `relatedTarget` can be null when the
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new focus target\n                // is not a \"focusable\" element (eg. a `<div>` without `tabindex`\n                // set).\n
        if (relatedTarget) {\n                const el = editor.toDomNode(value)\n\n                // COMPAT: The event
should be ignored if the focus is returning\n                // to the editor from an embedded editable element (eg. an
<input>\n                // element inside a void node).\n                if (relatedTarget === el) return\n\n                if
(isDOMElement(relatedTarget)) {\n                // COMPAT: The event should be ignored if the focus is moving
from\n                // the editor to inside a void node's spacer element.\n                if
(relatedTarget.hasAttribute('data-slate-spacer')) return\n\n                // COMPAT: The event should be ignored if
the focus is moving to a\n                // non- editable section of an element that isn't a void node (eg.\n
// a list item of the check list example).\n                const node = editor.toSlateNode(relatedTarget)\n\n
if (\n                editor.hasDomNode(relatedTarget) &&\n                (!Element.isElement(node) ||
!editor.isVoid(node))\n                ) {\n                return\n                }\n                }\n                }\n
}\n\n                IS_FOCUSED.delete(editor)\n                }, [])}\n                onClick={useCallback((event:
React.MouseEvent) => {\n                if (\n                !readOnly &&\n                hasTarget(editor, event.target) &&\n
        isDOMNode(event.target)\n                ) {\n                const node = editor.toSlateNode(event.target)\n
const path = editor.findPath(node)\n                const start = editor.getStart(path)\n\n                if
(editor.getMatch(start, 'void')) {\n                editor.select(start)\n                }\n                }\n                }, [])}\n
onCompositionEnd={useCallback((event: React.CompositionEvent) => {\n                if (hasEditableTarget(editor,
event.target)) {\n                state.isComposing = false\n\n                // COMPAT: In Chrome, `beforeinput` events for
compositions\n                // aren't correct and never fire the \"insertFromComposition\"\n                // type that we
need. So instead, insert whenever a composition\n                // ends since it will already have been committed to the
DOM.\n                if (!IS_SAFARI && event.data) {\n                editor.insertText(event.data)\n                }\n
}\n                }, [])}\n                onCompositionStart={useCallback((event: React.CompositionEvent) => {\n                if
(hasEditableTarget(editor, event.target)) {\n                state.isComposing = true\n                }\n                }, [])}\n
onCopy={useCallback((event: React.ClipboardEvent) => {\n                if (hasEditableTarget(editor, event.target)) {\n
        event.preventDefault()\n                Utils.setFragmentData(event.clipboardData, editor)\n                }\n
}, [])}\n                onCut={useCallback((event: React.ClipboardEvent) => {\n                if (!readOnly &&
hasEditableTarget(editor, event.target)) {\n                event.preventDefault()\n
Utils.setFragmentData(event.clipboardData, editor)\n                const { selection } = value\n\n                if (selection
&& SlateRange.isExpanded(selection)) {\n                editor.delete()\n                }\n                }\n                }, [])}\n
 onDragOver={useCallback((event: React.DragEvent) => {\n                if (hasTarget(editor, event.target)) {\n
// Only when the target is void, call `preventDefault` to signal\n                // that drops are allowed. Editable content
is droppable by\n                // default, and calling `preventDefault` hides the cursor.\n                const node =
editor.toSlateNode(event.target)\n\n                if (Element.isElement(node) && editor.isVoid(node)) {\n
event.preventDefault()\n                }\n                }\n                }, [])}\n                onDragStart={useCallback((event:
React.DragEvent) => {\n                if (hasTarget(editor, event.target)) {\n                const node =
editor.toSlateNode(event.target)\n                const path = editor.findPath(node)\n                const voidMatch =
editor.getMatch(path, 'void')\n\n                // If starting a drag on a void node, make sure it is selected\n                //
so that it shows up in the selection's fragment.\n                if (voidMatch) {\n                const range =
editor.getRange(path)\n                editor.select(range)\n                }\n\n
Utils.setFragmentData(event.dataTransfer, editor)\n                }\n                }, [])}\n
onFocus={useCallback((event: React.FocusEvent) => {\n                if (\n                !readOnly &&\n
!state.isUpdatingSelection &&\n                hasEditableTarget(editor, event.target)\n                ) {\n                const el =
editor.toDomNode(value)\n                state.latestElement = window.document.activeElement\n\n                //
COMPAT: If the editor has nested editable elements, the focus\n                // can go to them. In Firefox, this must be
prevented because it\n                // results in issues with keyboard navigation. (2017/03/30)\n                if
(IS_FIREFOX && event.target !== el) {\n                el.focus()\n                return\n                }\n\n
IS_FOCUSED.set(editor, true)\n                }\n                }, [])}\n                onKeyDown={event => {\n                if
(!readOnly && hasEditableTarget(editor, event.target)) {\n                editor.onKeyDown(event.nativeEvent)\n
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}\n        }}\n        >\n        <Children\n          annotations={value.annotations}\n
decorate={decorate}\n          decorations={decorate([value, []])}\n          node={value}\n
renderAnnotation={renderAnnotation}\n          renderDecoration={renderDecoration}\n
renderElement={renderElement}\n          renderMark={renderMark}\n          selection={value.selection}\n
/>\n        </div>\n      </FocusedContext.Provider>\n    </ReadOnlyContext.Provider>\n
</EditorContext.Provider>\n  )\n}\n\n/**\n * A default memoized decorate function.\n */\n\nconst defaultDecorate
= () => []\n\n/**\n * Check if two DOM range objects are equal.\n */\n\nconst isRangeEqual = (a: DOMRange, b:
DOMRange) => {\n  return (\n    (a.startContainer === b.startContainer &&\n      a.startOffset === b.startOffset
&&\n      a.endContainer === b.endContainer &&\n      a.endOffset === b.endOffset) ||\n    (a.startContainer ===
b.endContainer &&\n      a.startOffset === b.endOffset &&\n      a.endContainer === b.startContainer &&\n
a.endOffset === b.startOffset)\n  )\n}\n\n/**\n * Check if the target is in the editor.\n */\n\nconst hasTarget = (\n
editor: ReactEditor,\n  target: EventTarget | null\n): target is DOMNode => {\n  return isDOMNode(target) &&
editor.hasDomNode(target)\n}\n\n/**\n * Check if the target is editable and in the editor.\n */\n\nconst
hasEditableTarget = (\n  editor: ReactEditor,\n  target: EventTarget | null\n): target is DOMNode => {\n  return
isDOMNode(target) && editor.hasDomNode(target, { editable: true })\n}\n\nexport default Editor\n","import {
useMemo } from 'react'\n\nimport { ReactEditor } from '../plugin'\n\n/**\n * A thin wrapper around `useMemo` to
make it easy to get an editor instance.\n */\n\nexport const useSlate = <E extends ReactEditor>(\n  Editor: new
(...args: any[]) => E\n): E => {\n  const editor = useMemo(() => new Editor(), [Editor])\n  return
editor\n}\n","function _classCallCheck(instance, Constructor) {\n  if (!(instance instanceof Constructor)) {\n
throw new TypeError(\"Cannot call a class as a function\");\n  }\n}\n\nmodule.exports =
_classCallCheck;","function _defineProperties(target, props) {\n  for (var i = 0; i < props.length; i++) {\n    var
descriptor = props[i];\n    descriptor.enumerable = descriptor.enumerable || false;\n    descriptor.configurable =
true;\n    if (\"value\" in descriptor) descriptor.writable = true;\n    Object.defineProperty(target, descriptor.key,
descriptor);\n  }\n}\n\nfunction _createClass(Constructor, protoProps, staticProps) {\n  if (protoProps)
_defineProperties(Constructor.prototype, protoProps);\n  if (staticProps) _defineProperties(Constructor,
staticProps);\n  return Constructor;\n}\n\nmodule.exports = _createClass;","function _typeof2(obj) { if (typeof
Symbol === \"function\" && typeof Symbol.iterator === \"symbol\") { _typeof2 = function _typeof2(obj) { return
typeof obj; }; } else { _typeof2 = function _typeof2(obj) { return obj && typeof Symbol === \"function\" &&
obj.constructor === Symbol && obj !== Symbol.prototype ? \"symbol\" : typeof obj; }; } return _typeof2(obj);
}\n\nfunction _typeof(obj) {\n  if (typeof Symbol === \"function\" && _typeof2(Symbol.iterator) === \"symbol\")
{\n    module.exports = _typeof = function _typeof(obj) {\n      return _typeof2(obj);\n    };\n  } else {\n
module.exports = _typeof = function _typeof(obj) {\n      return obj && typeof Symbol === \"function\" &&
obj.constructor === Symbol && obj !== Symbol.prototype ? \"symbol\" : _typeof2(obj);\n    };\n  }\n\n  return
_typeof(obj);\n}\n\nmodule.exports = _typeof;","function _assertThisInitialized(self) {\n  if (self === void 0) {\n
throw new ReferenceError(\"this hasn't been initialised - super() hasn't been called\");\n  }\n\n  return
self;\n}\n\nmodule.exports = _assertThisInitialized;","var _typeof = require(\"../helpers/typeof\");\n\nvar
assertThisInitialized = require(\"./assertThisInitialized\");\n\nfunction _possibleConstructorReturn(self, call) {\n  if
(call && (_typeof(call) === \"object\" || typeof call === \"function\")) {\n    return call;\n  }\n\n  return
assertThisInitialized(self);\n}\n\nmodule.exports = _possibleConstructorReturn;","function _getPrototypeOf(o) {\n
module.exports = _getPrototypeOf = Object.setPrototypeOf ? Object.getPrototypeOf : function _getPrototypeOf(o)
{\n    return o.__proto__ || Object.getPrototypeOf(o);\n  };\n  return _getPrototypeOf(o);\n}\n\nmodule.exports =
_getPrototypeOf;","var getPrototypeOf = require(\"./getPrototypeOf\");\n\nfunction _superPropBase(object,
property) {\n  while (!Object.prototype.hasOwnProperty.call(object, property)) {\n    object =
getPrototypeOf(object);\n    if (object === null) break;\n  }\n\n  return object;\n}\n\nmodule.exports =
_superPropBase;","var superPropBase = require(\"./superPropBase\");\n\nfunction _get(target, property, receiver)
{\n  if (typeof Reflect !== \"undefined\" && Reflect.get) {\n    module.exports = _get = Reflect.get;\n  } else {\n
module.exports = _get = function _get(target, property, receiver) {\n      var base = superPropBase(target,
property);\n      if (!base) return;\n      var desc = Object.getOwnPropertyDescriptor(base, property);\n\n      if
```

(desc.get) {\n return desc.get.call(receiver);\n }\n\n return desc.value;\n };\n }\n\n return _get(target, property, receiver || target);\n}\n\nmodule.exports = _get;","function _setPrototypeOf(o, p) {\n module.exports = _setPrototypeOf = Object.setPrototypeOf || function _setPrototypeOf(o, p) {\n o.__proto__ = p;\n return o;\n };\n\n return _setPrototypeOf(o, p);\n}\n\nmodule.exports = _setPrototypeOf;","var setPrototypeOf = require(\"./setPrototypeOf\");\n\nfunction _inherits(subClass, superClass) {\n if (typeof superClass !== \"function\" && superClass !== null) {\n throw new TypeError(\"Super expression must either be null or a function\");\n }\n\n subClass.prototype = Object.create(superClass && superClass.prototype, {\n constructor: {\n value: subClass,\n writable: true,\n configurable: true\n }\n });\n if (superClass) setPrototypeOf(subClass, superClass);\n}\n\nmodule.exports = _inherits;","import { isKeyHotkey } from 'is-hotkey'\nimport { IS_APPLE } from './environment'\n\n/**\n * Hotkey mappings for each platform.\n */\n\nconst HOTKEYS = {\n bold: 'mod+b',\n compose: ['down', 'left', 'right', 'up', 'backspace', 'enter'],\n moveBackward: 'left',\n moveForward: 'right',\n moveWordBackward: 'ctrl+left',\n moveWordForward: 'ctrl+right',\n deleteBackward: 'shift?+backspace',\n deleteForward: 'shift?+delete',\n extendBackward: 'shift+left',\n extendForward: 'shift+right',\n italic: 'mod+i',\n splitBlock: 'shift?+enter',\n undo: 'mod+z',\n}\n\nconst APPLE_HOTKEYS = {\n moveLineBackward: 'opt+up',\n moveLineForward: 'opt+down',\n moveWordBackward: 'opt+left',\n moveWordForward: 'opt+right',\n deleteBackward: ['ctrl+backspace', 'ctrl+h'],\n deleteForward: ['ctrl+delete', 'ctrl+d'],\n deleteLineBackward: 'cmd+shift?+backspace',\n deleteLineForward: ['cmd+shift?+delete', 'ctrl+k'],\n deleteWordBackward: 'opt+shift?+backspace',\n deleteWordForward: 'opt+shift?+delete',\n extendLineBackward: 'opt+shift+up',\n extendLineForward: 'opt+shift+down',\n redo: 'cmd+shift+z',\n transposeCharacter: 'ctrl+t',\n}\n\nconst WINDOWS_HOTKEYS = {\n deleteWordBackward: 'ctrl+shift?+backspace',\n deleteWordForward: 'ctrl+shift?+delete',\n redo: 'ctrl+y',\n}\n\n/**\n * Create a platform-aware hotkey checker.\n */\n\nconst create = (key: string) => {\n const generic = HOTKEYS[key]\n const apple = APPLE_HOTKEYS[key]\n const windows = WINDOWS_HOTKEYS[key]\n const isGeneric = generic && isKeyHotkey(generic)\n const isApple = apple && isKeyHotkey(apple)\n const isWindows = windows && isKeyHotkey(windows)\n return (event: KeyboardEvent) => {\n if (isGeneric && isGeneric(event)) return true\n if (IS_APPLE && isApple && isApple(event)) return true\n if (!IS_APPLE && isWindows && isWindows(event)) return true\n return false\n }\n}\n\n/**\n * Hotkeys.\n */\n\nexport default {\n isBold: create('bold'),\n isCompose: create('compose'),\n isMoveBackward: create('moveBackward'),\n isMoveForward: create('moveForward'),\n isDeleteBackward: create('deleteBackward'),\n isDeleteForward: create('deleteForward'),\n isDeleteLineBackward: create('deleteLineBackward'),\n isDeleteLineForward: create('deleteLineForward'),\n isDeleteWordBackward: create('deleteWordBackward'),\n isDeleteWordForward: create('deleteWordForward'),\n isExtendBackward: create('extendBackward'),\n isExtendForward: create('extendForward'),\n isExtendLineBackward: create('extendLineBackward'),\n isExtendLineForward: create('extendLineForward'),\n isItalic: create('italic'),\n isMoveLineBackward: create('moveLineBackward'),\n isMoveLineForward: create('moveLineForward'),\n isMoveWordBackward: create('moveWordBackward'),\n isMoveWordForward: create('moveWordForward'),\n isRedo: create('redo'),\n isSplitBlock: create('splitBlock'),\n isTransposeCharacter: create('transposeCharacter'),\n isUndo: create('undo'),\n}\n","/**\n * An auto-incrementing identifier for keys.\n */\n\nlet n = 0\n\n/**\n * A class that keeps track of a key string. We use a full class here because we\n * want to be able to use them as keys in `WeakMap` objects.\n */\n\nexport class Key {\n id: string\n\n constructor() {\n this.id = `${n++}`\n }\n}\n","import {\n Editor,\n Element as SlateElement,\n Node as SlateNode,\n Operation as SlateOperation,\n Path as SlatePath,\n Point as SlatePoint,\n Range as SlateRange,\n Value as SlateValue,\n Path,\n} from 'slate'\n\nimport Hotkeys from './utils/hotkeys'\nimport { Key } from './utils/key'\nimport { Utils } from './utils/utils'\nimport {\n EDITOR_TO_ELEMENT,\n ELEMENT_TO_NODE,\n IS_FOCUSED,\n IS_READ_ONLY,\n KEY_TO_ELEMENT,\n NODE_TO_INDEX,\n NODE_TO_KEY,\n NODE_TO_PARENT,\n PLACEHOLDER,\n PLACEHOLDER_SYMBOL,\n} from './utils/weak-maps'\nimport {\n DOMElement,\n DOMNode,\n DOMPoint,\n DOMRange,\n DOMSelection,\n DOMStaticRange,\n isDOMElement,\n normalizeDOMPoint,\n} from './utils/dom'\n\n/**\n * `ReactEditor` is a Slate editor interface with the React mixin applied.\n */\n\nexport

```
type ReactEditor = InstanceType<ReturnType<typeof withReact>>\n\n/**\n * `withReact` adds React and DOM specific behaviors to the editor.\n */\n\nexport const withReact = (Editor: new (...args: any[]) => Editor) => {\n return class ReactEditor extends Editor {\n apply(op: SlateOperation): void {\n const matches: [SlatePath, Key][] = []\n\n switch (op.type) {\n case 'add_mark':\n case 'insert_text':\n case 'remove_mark':\n case 'remove_text':\n case 'set_mark':\n case 'set_node': {\n for (const [node, path] of this.levels({ at: op.path })) {\n const key = this.findKey(node)\n matches.push([path, key])\n }\n\n break\n }\n\n case 'insert_node':\n case 'remove_node':\n case 'merge_node':\n case 'split_node': {\n for (const [node, path] of this.levels({\n at: Path.parent(op.path),\n })) {\n const key = this.findKey(node)\n matches.push([path, key])\n }\n\n break\n }\n\n case 'move_node': {\n // TODO\n break\n }\n }\n\n super.apply(op)\n\n for (const [path, key] of matches) {\n const [node] = this.getNode(path)\n NODE_TO_KEY.set(node, key)\n }\n }\n\n /**\n * Find a key for a Slate node.\n */\n\n findKey(node: SlateNode): Key {\n let key = NODE_TO_KEY.get(node)\n\n if (!key) {\n key = new Key()\n NODE_TO_KEY.set(node, key)\n }\n\n return key\n }\n\n /**\n * Find the path of Slate node.\n */\n\n findPath(node: SlateNode): SlatePath {\n const path: SlatePath = []\n let child = node\n\n while (true) {\n const parent = NODE_TO_PARENT.get(child)\n\n if (parent == null) {\n if (SlateValue.isValue(child)) {\n return path\n } else {\n break\n }\n }\n\n const i = NODE_TO_INDEX.get(child)\n\n if (i == null) {\n break\n }\n\n path.unshift(i)\n child = parent\n }\n\n throw new Error(\n `Unable to find the path for Slate node: ${JSON.stringify(node)}`\n )\n }\n\n /**\n * Resolve the decorations for a node.\n */\n\n getDecorations(node: SlateNode): SlateRange[] {\n const placeholder = PLACEHOLDER.get(this)\n const decorations = []\n\n if (\n placeholder &&\n SlateValue.isValue(node) &&\n node.nodes.length === 1 &&\n Array.from(SlateNode.texts(node)).length === 1 &&\n SlateNode.text(node) === ''\n ) {\n const start = this.getStart([])\n decorations.push({\n [PLACEHOLDER_SYMBOL]: true,\n placeholder,\n anchor: start,\n focus: start,\n })\n }\n\n return decorations\n }\n\n /**\n * Check if the editor is focused.\n */\n\n isFocused(): boolean {\n return !!IS_FOCUSED.get(this)\n }\n\n /**\n * Check if the editor is in read-only mode.\n */\n\n isReadOnly(): boolean {\n return !!IS_READ_ONLY.get(this)\n }\n\n /**\n * Blur the editor.\n */\n\n blur(): void {\n const el = this.toDomNode(this.value)\n IS_FOCUSED.set(this, false)\n\n if (window.document.activeElement === el) {\n el.blur()\n }\n }\n\n /**\n * Focus the editor.\n */\n\n focus(): void {\n const el = this.toDomNode(this.value)\n IS_FOCUSED.set(this, true)\n\n if (window.document.activeElement !== el) {\n el.focus({ preventScroll: true })\n }\n }\n\n /**\n * Deselect the editor.\n */\n\n deselect(): void {\n const { selection } = this.value\n const domSelection = window.getSelection()\n\n if (domSelection && domSelection.rangeCount > 0) {\n domSelection.removeAllRanges()\n }\n\n if (selection) {\n this.apply({\n type: 'set_selection',\n properties: selection,\n newProperties: null,\n })\n }\n }\n\n /**\n * Insert a `DataTransfer` object.\n */\n\n insertData(dataTransfer: DataTransfer): void {\n const fragment = Utils.getFragmentData(dataTransfer)\n\n if (fragment) {\n this.insertFragment(fragment)\n return\n }\n\n const text = dataTransfer.getData('text/plain')\n\n if (text) {\n const lines = text.split('\\n')\n let split = false\n\n for (const line of lines) {\n if (split) {\n this.splitNodes()\n }\n\n this.insertText(line)\n split = true\n }\n }\n }\n\n /**\n * Transform an `InputEvent` into commands on the editor.\n */\n\n onBeforeInput(\n event: Event & {\n data: string | null\n dataTransfer: DataTransfer | null\n getTargetRanges(): DOMStaticRange[]\n inputType: string\n isComposing: boolean\n }\n ): void {\n const { inputType, data, dataTransfer } = event\n\n // Each of these input types reflects specific user intent, and most of them\n // are cancellable so we can perform the action on the Slate model direclty.\n // https://w3c.github.io/input-events/#dom-inputevent-inputtype\n switch (inputType) {\n case 'deleteByComposition':\n case 'deleteByCut':\n case 'deleteByDrag':\n case 'deleteContent':\n case 'deleteContentForward': {\n this.delete()\n break\n }\n\n case 'deleteContentBackward': {\n this.delete({ reverse: true })\n break\n }\n\n case 'deleteEntireSoftLine': {\n this.delete({ unit: 'line', reverse: true })\n this.delete({ unit: 'line' })\n
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break\n      }\n\n      case 'deleteSoftLineBackward':\n      case 'deleteHardLineBackward': {\n        this.delete({ unit: 'line', reverse: true })\n        break\n      }\n\n      case 'deleteSoftLineForward':\n      case 'deleteHardLineForward': {\n        this.delete({ unit: 'line' })\n        break\n      }\n\n      case 'deleteWordBackward': {\n        this.delete({ unit: 'word', reverse: true })\n        break\n      }\n\n      case 'deleteWordForward': {\n        this.delete({ unit: 'word' })\n        break\n      }\n\n      case 'historyRedo': {\n        this.redo()\n        break\n      }\n\n      case 'historyUndo': {\n        this.undo()\n        break\n      }\n\n      case 'insertLineBreak':\n      case 'insertParagraph': {\n        this.splitNodes({ always: true })\n        break\n      }\n\n      case 'insertFromComposition':\n      case 'insertFromDrop':\n      case 'insertFromPaste':\n      case 'insertFromYank':\n      case 'insertReplacementText':\n      case 'insertText': {\n        if (dataTransfer != null) {\n          this.insertData(dataTransfer)\n        } else if (data != null) {\n          this.insertText(data)\n        }\n\n        break\n      }\n    }\n  }\n\n  /**\n   * Transform a `KeyboardEvent` into commands on the editor. This should only\n   * be used for hotkeys which attach specific commands to specific key\n   * combinations. Most input logic will be handled by the `onBeforeInput`\n   * method instead.\n   */\n\n  onKeyDown(event: KeyboardEvent): void {\n    // COMPAT: Since we prevent the default behavior on `beforeinput` events,\n    // the browser doesn't think there's ever any history stack to undo or redo,\n    // so we have to manage these hotkeys ourselves. (2019/11/06)\n    if (Hotkeys.isRedo(event)) {\n      this.redo()\n      return\n    }\n\n    if (Hotkeys.isUndo(event)) {\n      this.undo()\n      return\n    }\n\n    // COMPAT: Certain browsers don't handle the selection updates\n    // properly. In Chrome, the selection isn't properly extended.\n    // And in Firefox, the selection isn't properly collapsed.\n    // (2017/10/17)\n    if (Hotkeys.isMoveLineBackward(event)) {\n      event.preventDefault()\n      this.move({ unit: 'line', reverse: true })\n      return\n    }\n\n    if (Hotkeys.isMoveLineForward(event)) {\n      event.preventDefault()\n      this.move({ unit: 'line' })\n      return\n    }\n\n    if (Hotkeys.isExtendLineBackward(event)) {\n      event.preventDefault()\n      this.move({ unit: 'line', edge: 'focus', reverse: true })\n      return\n    }\n\n    if (Hotkeys.isExtendLineForward(event)) {\n      event.preventDefault()\n      this.move({ unit: 'line', edge: 'focus' })\n      return\n    }\n\n    // COMPAT: If a void node is selected, or a zero-width text node\n    // adjacent to an inline is selected, we need to handle these\n    // hotkeys manually because browsers won't be able to skip over\n    // the void node with the zero-width space not being an empty\n    // string.\n    if (Hotkeys.isMoveBackward(event)) {\n      const { selection } = this.value\n      event.preventDefault()\n\n      if (selection && SlateRange.isCollapsed(selection)) {\n        this.move({ reverse: true })\n      } else {\n        this.collapse({ edge: 'start' })\n      }\n\n      return\n    }\n\n    if (Hotkeys.isMoveForward(event)) {\n      const { selection } = this.value\n      event.preventDefault()\n\n      if (selection && SlateRange.isCollapsed(selection)) {\n        this.move()\n      } else {\n        this.collapse({ edge: 'end' })\n      }\n\n      return\n    }\n\n    if (Hotkeys.isMoveWordBackward(event)) {\n      event.preventDefault()\n      this.move({ unit: 'word', reverse: true })\n      return\n    }\n\n    if (Hotkeys.isMoveWordForward(event)) {\n      event.preventDefault()\n      this.move({ unit: 'word' })\n      return\n    }\n  }\n\n  /**\n   * Redo.\n   */\n\n  redo(): void {}\n\n  /**\n   * Undo.\n   */\n\n  undo(): void {}\n\n  /**\n   * Check if a DOM node is within the editor.\n   */\n\n  hasDomNode(target: DOMNode, options: { editable?: boolean } = {}): boolean {\n    const { editable = false } = options\n    const el = this.toDomNode(this.value)\n    let element\n\n    // COMPAT: In Firefox, reading `target.nodeType` will throw an error if\n    // target is originating from an internal \"restricted\" element (e.g. a\n    // stepper arrow on a number input). (2018/05/04)\n    // https://github.com/ianstormtaylor/slate/issues/1819\n    try {\n      element = isDOMElement(target) ? target : target.parentElement\n    } catch (err) {\n      if (\n        !err.message.includes(\n          'Permission denied to access property \"nodeType\"'\n        )\n      ) {\n        throw err\n      }\n    }\n\n    if (!element) {\n      return false\n    }\n\n    return (\n      element.closest(`[data-slate-editor]`) === el &&\n      (!editable || el.isContentEditable)\n    )\n  }\n\n  /**\n   * Find the native DOM element from a Slate node.\n   */\n\n  toDomNode(node: SlateNode): HTMLElement {\n    const domNode = SlateValue.isValue(node)\n      ? EDITOR_TO_ELEMENT.get(this)\n      : KEY_TO_ELEMENT.get(this.findKey(node))\n\n    if (!domNode) {\n      throw new Error(\n        `Cannot resolve a DOM node from Slate node: ${JSON.stringify(node)}`\n      )\n    }\n\n    return domNode\n  }\n\n  /**\n   * Find a native DOM selection point from a Slate point.\n   */\n\n
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toDomPoint(point: SlatePoint): DOMPoint {\n      const [node] = this.getNode(point.path)\n      const el = this.toDomNode(node)\n      let domPoint: DOMPoint | undefined\n\n      // For each leaf, we need to isolate its content, which means filtering\n      // to its direct text and zero-width spans. (We have to filter out any\n      // other siblings that may have been rendered alongside them.)\n      const selector = `[data-slate-string], [data-slate-zero-width]`\n      const texts = Array.from(el.querySelectorAll(selector))\n      let start = 0\n\n      for (const text of texts) {\n        const domNode = text.childNodes[0] as HTMLElement\n\n        if (domNode == null || domNode.textContent == null) {\n          continue\n        }\n\n        const { length } = domNode.textContent\n        const attr = text.getAttribute('data-slate-length')\n        const trueLength = attr == null ? length : parseInt(attr, 10)\n        const end = start + trueLength\n\n        if (point.offset <= end) {\n          const offset = Math.min(length, Math.max(0, point.offset - start))\n          domPoint = [domNode, offset]\n          break\n        }\n\n        start = end\n      }\n\n      if (!domPoint) {\n        throw new Error(\n          `Cannot resolve a DOM point from Slate point: ${JSON.stringify(\n            point\n          )}`\n        )\n      }\n\n      return domPoint\n    }\n\n    /**\n     * Find a native DOM range from a Slate `range`.\n     */\n\n    toDomRange(range: SlateRange): DOMRange {\n      const { anchor, focus } = range\n      const domAnchor = this.toDomPoint(anchor)\n      const domFocus = SlateRange.isCollapsed(range)\n        ? domAnchor\n        : this.toDomPoint(focus)\n\n      const domRange = window.document.createRange()\n      const start = SlateRange.isBackward(range) ? domFocus : domAnchor\n      const end = SlateRange.isBackward(range) ? domAnchor : domFocus\n      domRange.setStart(start[0], start[1])\n      domRange.setEnd(end[0], end[1])\n      return domRange\n    }\n\n    /**\n     * Find a Slate node from a native DOM `element`.\n     */\n\n    toSlateNode(domNode: DOMNode): SlateNode {\n      let domEl = isDOMElement(domNode) ? domNode : domNode.parentElement\n\n      if (domEl && !domEl.hasAttribute('data-slate-node')) {\n        domEl = domEl.closest(`[data-slate-node]`)\n      }\n\n      const node = domEl ? ELEMENT_TO_NODE.get(domEl as HTMLElement) : null\n\n      if (!node) {\n        throw new Error(`Cannot resolve a Slate node from DOM node: ${domEl}`)\n      }\n\n      return node\n    }\n\n    /**\n     * Get the target range from a DOM `event`.\n     */\n\n    findEventRange(event: any): SlateRange | undefined {\n      if ('nativeEvent' in event) {\n        event = event.nativeEvent\n      }\n\n      const { clientX: x, clientY: y, target } = event\n\n      if (x == null || y == null) {\n        return\n      }\n\n      const node = this.toSlateNode(event.target)\n      const path = this.findPath(node)\n\n      // If the drop target is inside a void node, move it into either the\n      // next or previous node, depending on which side the `x` and `y`\n      // coordinates are closest to.\n      if (SlateElement.isElement(node) && this.isVoid(node)) {\n        const rect = target.getBoundingClientRect()\n        const isPrev = this.isInline(node)\n          ? x - rect.left < rect.left + rect.width - x\n          : y - rect.top < rect.top + rect.height - y\n\n        const edge = this.getPoint(path, { edge: isPrev ? 'start' : 'end' })\n        const point = isPrev ? this.getBefore(edge) : this.getAfter(edge)\n\n        if (point) {\n          const range = this.getRange(point)\n          return range\n        }\n      }\n\n      // Else resolve a range from the caret position where the drop occured.\n      let domRange\n      const { document } = window\n\n      // COMPAT: In Firefox, `caretRangeFromPoint` doesn't exist. (2016/07/25)\n      if (document.caretRangeFromPoint) {\n        domRange = document.caretRangeFromPoint(x, y)\n      } else {\n        const position = document.caretPositionFromPoint(x, y)\n\n        if (position) {\n          domRange = document.createRange()\n          domRange.setStart(position.offsetNode, position.offset)\n          domRange.setEnd(position.offsetNode, position.offset)\n        }\n      }\n\n      if (!domRange) {\n        throw new Error(\n          `Cannot resolve a Slate range from a DOM event: ${event}`\n        )\n      }\n\n      // Resolve a Slate range from the DOM range.\n      const range = this.toSlateRange(domRange)\n      return range\n    }\n\n    /**\n     * Find a Slate point from a DOM selection's `domNode` and `domOffset`.\n     */\n\n    toSlatePoint(domPoint: DOMPoint): SlatePoint {\n      const [nearestNode, nearestOffset] = normalizeDOMPoint(domPoint)\n      const parentNode = nearestNode.parentNode as DOMElement\n      let textNode: DOMElement | null = null\n      let offset = 0\n\n      if (parentNode) {\n        const voidNode = parentNode.closest('[data-slate-void=\"true\"]')\n        let leafNode = parentNode.closest('[data-slate-leaf]')\n        let domNode: DOMElement | null = null\n\n        // Calculate how far into the text node the `nearestNode` is, so that we\n        // can determine what the offset relative to the text node is.\n        if (leafNode) {\n          textNode = leafNode.closest('[data-slate-node=\"text\"]')!\n          const range = window.document.createRange()\n          range.setStart(textNode, 0)\n
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range.setEnd(nearestNode, nearestOffset)\n const contents = range.cloneContents()\n const zeroWidths = contents.querySelectorAll(\n '[data-slate-zero-width]'\n)\n\n Array.from(zeroWidths).forEach(el => {\n el!.parentNode!.removeChild(el)\n })\n\n // COMPAT: Edge has a bug where SlateRange.prototype.toString() will\n // convert \\n into \\r\\n. The bug causes a loop when slate-react\n // attempts to reposition its cursor to match the native position. Use\n // textContent.length instead.\n // https://developer.microsoft.com/en-us/microsoft-edge/platform/issues/10291116/\n offset = contents.textContent!.length\n domNode = textNode\n } else if (voidNode) {\n // For void nodes, the element with the offset key will be a cousin, not an\n // ancestor, so find it by going down from the nearest void parent.\n\n leafNode = voidNode.querySelector('[data-slate-leaf]')!\n textNode = leafNode.closest('[data-slate-node=\"text\"]')!\n domNode = leafNode\n offset = domNode.textContent!.length\n }\n\n // COMPAT: If the parent node is a Slate zero-width space, this is\n // because the text node should have no characters. However, during IME\n // composition the ASCII characters will be prepended to the zero-width\n // space, so subtract 1 from the offset to account for the zero-width\n // space character.\n if (\n domNode &&\n offset === domNode.textContent!.length &&\n parentNode.hasAttribute('data-slate-zero-width')\n) {\n offset--\n }\n }\n\n if (!textNode) {\n throw new Error(\n `Cannot resolve a Slate point from DOM point: ${domPoint}`\n)\n }\n\n // COMPAT: If someone is clicking from one Slate editor into another,\n // the select event fires twice, once for the old editor's `element`\n // first, and then afterwards for the correct `element`. (2017/03/03)\n const slateNode = this.toSlateNode(textNode!)\n const path = this.findPath(slateNode)\n return { path, offset }\n }\n\n /**\n * Find a Slate range from a DOM range or selection.\n */\n\n toSlateRange(\n domRange: DOMRange | DOMStaticRange | DOMSelection\n): SlateRange {\n const el =\n domRange instanceof Selection\n ? domRange.anchorNode\n : domRange.startContainer\n let anchorNode\n let anchorOffset\n let focusNode\n let focusOffset\n let isCollapsed\n\n if (el) {\n if (domRange instanceof Selection) {\n anchorNode = domRange.anchorNode\n anchorOffset = domRange.anchorOffset\n focusNode = domRange.focusNode\n focusOffset = domRange.focusOffset\n isCollapsed = domRange.isCollapsed\n } else {\n anchorNode = domRange.startContainer\n anchorOffset = domRange.startOffset\n focusNode = domRange.endContainer\n focusOffset = domRange.endOffset\n isCollapsed = domRange.collapsed\n }\n }\n\n if (\n anchorNode == null ||\n focusNode == null ||\n anchorOffset == null ||\n focusOffset == null\n) {\n throw new Error(\n `Cannot resolve a Slate range from DOM range: ${domRange}`\n)\n }\n\n const anchor = this.toSlatePoint([anchorNode, anchorOffset])\n const focus = isCollapsed\n ? anchor\n : this.toSlatePoint([focusNode, focusOffset])\n\n return { anchor, focus }\n }\n}\n"],"names":["global","freeGlobal","root","Symbol","objectProto","nativeObjectToString","symToStringTag","getRawTag","objectToString","isObjectLike","baseGetTag","isSymbol","isObject","toNumber","now","EditorContext","createContext","undefined","useEditor","editor","useContext","Error","Node","NODE_TO_INDEX","WeakMap","NODE_TO_PARENT","EDITOR_TO_ELEMENT","NODE_TO_ELEMENT","ELEMENT_TO_NODE","NODE_TO_KEY","KEY_TO_ELEMENT","IS_READ_ONLY","IS_FOCUSED","PLACEHOLDER","PLACEHOLDER_SYMBOL","Leaf","leaf","another","text","annotations","length","decorations","marks","every","m","Mark","exists","isRangeListEqual","isRangeMapEqual","value","isPlainObject","isMarkSet","Range","isRangeList","isRangeMap","offset","slice","list","i","range","other","equals","map","Object","keys","key","SlateLeaf","ReadOnlyContext","useReadOnly","SelectedContext","useSelected","Text","Element","ElementComponent","TextComponent","FocusedContext","useFocused","IS_IOS","navigator","window","test","userAgent","MSStream","IS_APPLE","IS_FIREFOX","IS_SAFARI","isDOMComment","isDOMNode","nodeType","isDOMElement","isDOMText","normalizeDOMPoint","domPoint","node","childNodes","isLast","direction","index","getEditableChild","textContent","parent","child","triedForward","triedBackward","getAttribute","Utils","dataTransfer","base64","getData","decoded","decodeURIComponent","atob","fragment","JSON","parse","selection","SlateRange","edges","start","end","startVoid","getMatch","path","endVoid","isCollapsed","domRange","toDomRange","contents","cloneContents","attach","forEach","trim","voidNode","r","cloneRange","domNode","toDomNode","setEndAfter","querySelector","Array","fro

m","querySelectorAll","zw","isNewline","span","document","createElement","style","whiteSpace","appendChild","
SlateNode","string","stringify","encoded","btoa","encodeURIComponent","setAttribute","setData","div","innerHT
ML","getPlainText","nodeValue","childNode","display","getComputedStyle","getPropertyValue","tagName","debo
unce","useSlate","Editor","useMemo","_typeof","HOTKEYS","bold","compose","moveBackward","moveForward"
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AQAsE,QA3rBJ;cA6rBU+H,EAAE,GACN/H,QAAQ,YAAY4N,SAApB,GACI5N,QAAQ,CAAC6N,UADb,GAEI7N,QAAQ,CAAC8N,cAHf;cAIID,UAAJ;cACIE,YAAJ;cACIC,SAAJ;cACIC,WAAJ;cACIlO,WAAJ;;cAEIgI,EAAAJ,EAAAQ;gBACF/H,QAAQ,YAAY4N,SAAxB,EAAmC;cACjCC,UAAU,GAAG7N,QAAQ,CAAC6N,UAAtB;cACAE,YAAY,GAAG/N,QAAQ,CAAC+N,YAAxB;cACAC,SAAS,GAAGhO,QAAQ,CAACgO,SAArB;cACAC,WAAW,GAAGjO,QAAQ,CAACiO,WAAvB;cACAlO,WAAW,GAAGC,QAAQ,CAACD,WAAvB;aALF,MAMO;cACL8N,UAAU,GAAG7N,QAAQ,CAAC8N,cAAtB;cACAC,YAAY,GAAG/N,QAAQ,CACkO,WAAxB;cACAF,SAAS,GAAGhO,QAAQ,CACmO,YAArB;cACAF,WAAW,GAAGjO,QAAQ,CACoO,SAAvB;cACArO,WAAW,GAAGC,QAAQ,CACqO,SAAvB;;;;cAKFR,UAAU,IAAI,IAAd,IACAG,SAAS,IAAI,IADb,IAEAD,YAAY,IAAI,IAFhB,IAGAE,WAAW,IAAI,IAJjB,EAKE;kBACACM,IAAIzU,KAAJ,wDAC4CwG,QAD5C,EAAAN;;;cAKI+K,MAAM,GAAG,KAAKuD,YAAL,CAAAkB,CAACT,UAAD,EAAAaE,YAAb,CAAAlB,CAAAf;cACM7F,KAAK,GAAGnI,WAAW,GACrBgL,MADqB,GAErB,KAAKuD,YAAL,CAAAkB,CAACN,SAAD,EAAAYC,WAAZ,CAAAlB,CAFJ;iBAIO;YAAElD,MAAM,EAANA,MAAF;YAAAU7C,KAAK,EAALA;WAAjB;;;;;MAvuB6BtF,MAAjC;;CADK;;;;"
}

Found in path(s):
* /opt/cola/permits/1540266076_1674381230.7911966/0/slate-react-npm-0-22-10-eca32f2ffc-1ecddaf0f6-zip/node_modules/slate-react/lib/index.es.js.map

1.378 @sentry/types 6.19.7

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1.379 functional-red-black-tree 1.0.1

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1.380 jest-test-result 27.5.1

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1.381 strip-indent v3.0.0

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1.382 postcss-modules-values 4.0.0

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1.383 ianstormtaylor/slate 0.7.13

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1.384 @gar/promisify 1.1.3

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1.385 to-space-case 1.0.0

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* /opt/cola/permits/1540458680_1674402632.375048/0/ianstormtaylor-to-space-case-1-0-0-0-gaa68213-1-tar-gz/ianstormtaylor-to-space-case-aa68213/Readme.md

1.386 natural-compare 1.4.0

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```
/*
* @version    1.4.0
* @date       2015-10-26
* @stability  3 - Stable
* @author     Lauri Rooden (https://github.com/litejs/natural-compare-lite)
* @license    MIT License
*/
```

Found in path(s):
* /opt/cola/permits/1018350782_1606727739.86/0/natural-compare-1-4-0-3-tgz/package/index.js

1.387 samccone/chrome-trace-event 1.0.3

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1.388 react-popper 2.3.0

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1.389 object-assign 4.1.1

1.390 node-uuid 9.0.0

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1.391 fast-glob 3.2.12

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1.392 isobject 3.0.1

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1.393 human-signals 2.1.0

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1.394 @typescript-eslint/types 5.36.2

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1.395 d3-dsv v1.2.0

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1.396 protocol-buffers-schema 3.6.0

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1.397 postcss-focus-within 5.0.4

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1.398 eslint-plugin-react-hooks 4.6.0

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1.399 sax 1.2.4

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1.400 postcss-ordered-values 5.1.3

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1.401 @jridgewell/gen-mapping 0.3.2

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1.402 rc-tooltip 5.2.2

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1.403 detect-newline v3.1.0

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1.404 cssom 0.4.4

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1.405 d3-polygon v1.0.6

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1.406 node-lru-cache 5.1.1

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1.407 types-babel-template 7.4.1

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1.408 @react-aria/interactions 3.13.1

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1.409 postcss-normalize-unicode 5.1.1

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1.410 @mapbox/jsonlint-lines-primitives 2.0.2

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1.412 postcss-double-position-gradients 3.1.2

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1.413 jest-regex-util 27.5.1

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1.414 @react-types/overlays 3.6.5

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1.415 browserify-resolve 1.22.1

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1.416 @react-types/button 3.7.0

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1.417 escodegen 2.0.0

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1.418 v8-compile-cache 2.3.0

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1.419 types-estree 1.0.0

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1.420 rc-virtual-list 3.4.13

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1.421 fastq 1.15.0

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1.422 eslint-plugin-react-hooks 4.3.0

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1.423 @babel/plugin-transform-shorthand-properties 7.18.6

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1.424 ol-mapbox-style 9.1.0

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1.425 typescript-eslint-eslint-plugin 5.36.2

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1.426 boolbase 1.0.0

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1.427 npm-run-path 4.0.1

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1.428 tiny-warning 0.0.3

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1.429 jest-environment-jsdom 27.5.1

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1.437 @react-stately/collections 3.5.1

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1.442 babel-plugin-polyfill-corejs2 0.3.3

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1.443 resolve-pathname 3.0.0

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1.444 rc-align 2.4.5

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1.445 js-tokens 4.0.0

1.446 postcss-modules-extract-imports 3.0.0

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1.447 postcss-replace-overflow-wrap 4.0.0

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1.448 css-in-js-utils 3.1.0

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1.449 picomatch 2.3.1

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1.450 aria-query 5.1.3

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1.451 fastest-stable-stringify 2.0.2

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1.452 babel-plugin-syntax-top-level-await 7.14.5

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1.453 rc-util v4.21.1

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1.454 @webassemblyjs/ast 1.11.1

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1.455 at-least-node 1.0.0

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1.456 node-xml 1.0.1

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1.457 @types/aria-query 5.0.1

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1.458 babel-helper-create-class-features-plugin 7.20.12

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1.459 lilconfig 2.0.6

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1.460 @types/tmp 0.2.3

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1.461 @babel/plugin-transform-for-of 7.18.8

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1.462 is-typedarray 1.0.0

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1.463 @grafana/faro-web-sdk 1.0.0-beta2

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1.464 es-to-primitive 1.2.1

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1.465 w3c-xmlserializer 2.0.0

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1.466 prompts 2.4.2

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1.467 fs-extra 9.1.0

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1.468 is-negative-zero 2.0.2

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1.469 @popperjs/core 2.11.6

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1.470 @webassemblyjs/wasm-edit 1.11.1

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1.472 es-set-tostringtag 2.0.1

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1.473 esprima 4.0.1

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1.474 is-core-module 2.11.0

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1.475 babel-runtime 6.26.0

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1.476 http-proxy 1.18.1

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1.477 babel-preset-typescript 7.18.6

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1.478 @opentelemetry/sdk-trace-base 1.8.0

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1.479 safer-buffer 2.1.2

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1.480 jest-fake-timers 27.5.1

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1.481 @jridgewell/trace-mapping 0.3.17

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1.482 csso 4.2.0

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1.483 type-fest 0.20.2

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1.485 selection-is-backward 1.0.0

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1.486 lodash.debounce 4.0.8

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1.487 @types/js-cookie 2.2.7

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1.488 moo-color 1.0.3

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/*! ./color */

/*! ./color-converter */

/*! ./color-formatter */

/*! ./color-names */

```
/*! ./input-parser */

/*! ./util/util */

/*! color-name */

/*!**********************!*\
 !*** ./src/color.ts ***!
 \**********************/

/*!**************************!*\
 !*** ./src/moo-color.ts ***!
 \**************************/

/*!***************************!*\
 !*** ./src/util/util.ts ***!
 \***************************/

/*!*****************************!*\
 !*** ./src/color-names.ts ***!
 \*****************************/

/*!*******************************!*\
 !*** ./src/input-parser.ts ***!
 \*******************************/

/*!*********************************!*\
 !*** ./src/color-converter.ts ***!
 \*********************************/

/*!**********************************!*\
 !*** ./src/color-formatter.ts ***!
 \**********************************/

/*!*********************************************!*\
 !*** ./node_modules/color-name/index.js ***!
 \*********************************************/
```

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1.489 @csstools/postcss-normalize-display-values 1.0.1

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1.490 cliui v7.0.4

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1.491 uri-js 4.4.1

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1.492 path-exists 3.0.0

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1.493 void-elements 3.1.0

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1.494 follow-redirects 1.15.2

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1.495 define-lazy-prop 2.0.0

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1.496 ajv-formats 2.1.1

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1.497 @babel/plugin-transform-block-scoping 7.20.11

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1.498 tiny-invariant 1.3.1

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1.499 regexpu-core 5.2.2

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1.500 jest-types 27.5.1

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1.501 negotiator 0.6.3

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1.503 memoize-one 6.0.0

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1.504 @react-aria/i18n 3.6.3

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1.505 @emotion/hash 0.9.0

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1.506 history v4.10.1

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1.507 find-up v5.0.0

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1.508 @react-stately/overlays 3.4.4

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1.509 string-width 4.2.3

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1.510 node-semver 6.3.0

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1.511 react-hook-form 7.5.3

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1.512 node-pngjs 6.0.0

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1.513 rimraf 3.0.2

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1.514 global-modules 2.0.0

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1.515 console-control-strings 1.1.0

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1.516 postcss-preset-env 7.4.3

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1.517 import-local 3.1.0

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1.529 @babel/plugin-transform-sticky-regex 7.18.6

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1.532 anymatch 3.1.3

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1.536 https-proxy-agent 5.0.1

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https-proxy-agent
==========
An HTTP(s) proxy `http.Agent` implementation for HTTPS
[![Build Status](https://github.com/TooTallNate/node-https-proxy-agent/workflows/Node%20CI/badge.svg)](https://github.com/TooTallNate/node-https-proxy-agent/actions?workflow=Node+CI)

This module provides an `http.Agent` implementation that connects to a specified
HTTP or HTTPS proxy server, and can be used with the built-in `https` module.

Specifically, this `Agent` implementation connects to an intermediary "proxy"
server and issues the [CONNECT HTTP method][CONNECT], which tells the proxy to
open a direct TCP connection to the destination server.

Since this agent implements the CONNECT HTTP method, it also works with other
protocols that use this method when connecting over proxies (i.e. WebSockets).
See the "Examples" section below for more.

Installation

Install with `npm`:

``` bash
$ npm install https-proxy-agent
```

Examples

`https` module example

``` js
var url = require('url');
var https = require('https');
var HttpsProxyAgent = require('https-proxy-agent');

// HTTP/HTTPS proxy to connect to
var proxy = process.env.http_proxy || 'http://168.63.76.32:3128';
console.log('using proxy server %j', proxy);

// HTTPS endpoint for the proxy to connect to
var endpoint = process.argv[2] || 'https://graph.facebook.com/tootallnate';
console.log('attempting to GET %j', endpoint);
var options = url.parse(endpoint);

// create an instance of the `HttpsProxyAgent` class with the proxy server information
var agent = new HttpsProxyAgent(proxy);
options.agent = agent;

https.get(options, function (res) {
 console.log('"response" event!', res.headers);
 res.pipe(process.stdout);
});
```

`ws` WebSocket connection example

``` js
var url = require('url');
var WebSocket = require('ws');
var HttpsProxyAgent = require('https-proxy-agent');

// HTTP/HTTPS proxy to connect to
var proxy = process.env.http_proxy || 'http://168.63.76.32:3128';
console.log('using proxy server %j', proxy);

// WebSocket endpoint for the proxy to connect to
var endpoint = process.argv[2] || 'ws://echo.websocket.org';
var parsed = url.parse(endpoint);
console.log('attempting to connect to WebSocket %j', endpoint);

// create an instance of the `HttpsProxyAgent` class with the proxy server information
var options = url.parse(proxy);

var agent = new HttpsProxyAgent(options);

// finally, initiate the WebSocket connection
```

```
var socket = new WebSocket(endpoint, { agent: agent });

socket.on('open', function () {
 console.log('"open" event!');
 socket.send('hello world');
});

socket.on('message', function (data, flags) {
 console.log('"message" event! %j %j', data, flags);
 socket.close();
});
```

API
---

new HttpsProxyAgent(Object options)

The `HttpsProxyAgent` class implements an `http.Agent` subclass that connects
to the specified "HTTP(s) proxy server" in order to proxy HTTPS and/or WebSocket
requests. This is achieved by using the [HTTP `CONNECT` method][CONNECT].

The `options` argument may either be a string URI of the proxy server to use, or an
"options" object with more specific properties:

 * `host` - String - Proxy host to connect to (may use `hostname` as well). Required.
 * `port` - Number - Proxy port to connect to. Required.
 * `protocol` - String - If `https:`, then use TLS to connect to the proxy.
 * `headers` - Object - Additional HTTP headers to be sent on the HTTP CONNECT method.
 * Any other options given are passed to the `net.connect()`/`tls.connect()` functions.

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[CONNECT]: http://en.wikipedia.org/wiki/HTTP_tunnel#HTTP_CONNECT_Tunneling

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* /opt/cola/permits/1347748594_1655726241.002005/0/https-proxy-agent-5-0-1-3-tgz/package/README.md

1.537 tmpl 1.0.5

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1.542 ini 1.3.8

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1.546 nth-check 2.1.1

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1.547 d3js 5.15.0

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1.548 @types/eslint 8.4.10

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1.549 test-exclude 6.0.0

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1.550 babel-plugin-polyfill-regenerator 0.4.1

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1.551 postcss-custom-selectors 6.0.3

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1.552 @grafana/e2e-selectors 9.3.2

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1.553 postcss-opacity-percentage 1.1.3

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1.554 get-stream 6.0.1

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1.555 jest-message-util 27.5.1

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1.557 is-arguments 1.1.1

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1.558 react-from-facebook 16.13.1

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1.559 @webassemblyjs/utf8 1.11.1

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1.560 @grafana/tsconfig 1.2.0-rc1

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1.561 html-encoding-sniffer 2.0.1

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1.562 decimal.js 10.4.3

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1.563 @react-aria/selection 3.12.1

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1.564 array-tree-filter 2.1.0

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1.565 @formatjs/intl-localematcher 0.2.32

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1.566 istanbul-lib-source-maps 4.0.1

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1.567 node-glob 8.1.0

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1.568 regenerator-runtime 0.11.1

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1.569 acorn 7.4.1

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1.570 delayed-stream 1.0.0

1.571 xml-name-validator 3.0.0

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1.572 @types/parse-json 4.0.0

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1.573 point-geometry 0.1.0

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1.574 css-prefers-color-scheme 6.0.3

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1.576 @opentelemetry/api 1.4.0

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1.577 babel-plugin-proposal-nullish-coalescing-operator 7.18.6

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1.578 object-is 1.1.5

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1.579 has-flag 3.0.0

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1.580 jest-pnp-resolver 1.2.3

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 [Plug'n'Play](https://github.com/yarnpkg/rfcs/pull/101) resolver for Jest

[![npm version](https://img.shields.io/npm/v/jest-pnp-resolver.svg)](https://www.npmjs.com/package/jest-pnp-resolver)
[![node version](https://img.shields.io/node/v/jest-pnp-resolver.svg)](https://www.npmjs.com/package/jest-pnp-resolver)

This plugin is also available for Rollup ([rollup-plugin-pnp-resolve](https://github.com/arcanis/rollup-plugin-pnp-resolve)), TypeScript ([ts-pnp](https://github.com/arcanis/ts-pnp)), and Webpack ([pnp-webpack-plugin](https://github.com/arcanis/pnp-webpack-plugin))

Installation

```
yarn add -D jest-pnp-resolver
```

Usage

As of `jest@^24.4.0` you don't need to manually add this package anymore. The default resolver will already use PnP.

Simply add the resolver to your configuration. For example, a minimal `jest.config.js` would be as such:

```js
module.exports = {
 resolver: require.resolve(`jest-pnp-resolver`)
};
```

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Found in path(s):
* /opt/cola/permits/1513851349_1671514831.1544652/0/jest-pnp-resolver-1-2-3-1-tgz/package/README.md

1.581 rc-animate 2.11.1

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1.582 react-from-facebook 18.2.0

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1.583 rc-motion 2.6.3

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1.584 @babel/helper-member-expression-to-functions 7.20.7

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1.585 icss-utils 5.1.0

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1.586 lesscss 4.1.3

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1.587 nopt v6.0.0

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1.588 @babel/plugin-syntax-class-static-block 7.14.5

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1.589 kossnocorp-date-fns 2.29.3

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1.590 punycode 2.3.0

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1.592 eslint-visitor-keys 2.1.0

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1.593 @babel/plugin-transform-object-super 7.18.6

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1.594 jest-get-type 29.2.0

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1.595 lodash 4.17.21

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1.596 sprintf-js 1.0.3

1.597 stylis 4.1.3

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1.598 is-array-buffer 3.0.1

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1.599 @es-joy/jsdoccomment 0.22.2

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1.600 mapbox-to-css-font 2.4.2

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1.601 jest-message-util 29.3.1

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1.602 unique-filename 2.0.1

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1.603 d3-color 1.4.1

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1.604 @babel/plugin-proposal-export-namespace-from 7.18.9

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1.605 webidl-conversions 6.1.0

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1.606 postcss-pseudo-class-any-link 7.1.6

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1.608 dir-glob 3.0.1

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1.609 @grafana/faro-core 1.0.0-beta4

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1.610 electron-to-chromium 1.4.284

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1.614 prettier 2.7.1

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@babel/code-frame@v7.16.7

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By: James Halliday
Repository: <http://github.com/substack/node-commondir.git>

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cosmiconfig@v7.0.1

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cross-spawn@v7.0.3

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Repository: <git@github.com:moxystudio/node-cross-spawn.git>

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crypto-random-string@v4.0.0

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css-units-list@v1.1.0

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Repository: <git://github.com/debug-js/debug.git>

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del@v6.0.0

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detect-newline@v3.1.0

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diff@v5.0.0

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dir-glob@v3.0.1

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emoji-regex@v9.2.2

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error-ex@v1.3.2

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eslint-visitor-keys@v3.3.0

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fs.realpath@v1.0.0

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jest-docblock@v27.5.1

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js-tokens@v4.0.0

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json-parse-even-better-errors@v2.3.1

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json5@v2.2.1

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linguist-languages@v7.21.0

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locate-path@v5.0.0

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map-age-cleaner@v0.1.3

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npm-run-path@v5.1.0

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parse-entities@v2.0.0

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pseudomap@v1.0.2

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repeat-string@v1.6.1

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state-toggle@v1.0.3

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string-width@v5.0.1

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to-regex-range@v5.0.1

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By: TJ Holowaychuk

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trim-trailing-lines@v1.1.4

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trough@v1.0.5

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wcwidth@v1.0.1

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By: Tim Oxley
Repository: <git+https://github.com/timoxley/wcwidth.git>

> wcwidth.js: JavaScript Portng of Markus Kuhn's wcwidth() Implementation
> ==
>
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which@v2.0.2

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Repository: <git://github.com/isaacs/node-which.git>

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yallist@v2.1.2

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yaml@v1.10.2

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yaml-unist-parser@v1.3.1

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1.615 ts-node 9.1.1

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1.616 unicode-canonical-property-names-ecmascript 2.0.0

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1.617 types-lodash 4.14.191

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1.618 queue-microtask 1.2.3

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1.619 file-entry-cache 6.0.1

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1.620 regjsgen 0.7.1

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1.621 regjsparser 0.9.1

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1.622 @babel/plugin-syntax-import-meta 7.10.4

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1.623 domutils 2.8.0

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1.624 @babel/plugin-transform-typeof-symbol 7.18.9

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1.626 @internationalized/number 3.1.2

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1.627 whatwg-url v8.7.0

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1.628 spdx-expression-parse 3.0.1

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1.629 state-local 1.0.7

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1.630 @typescript-eslint/type-utils 5.16.0

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1.631 @babel/plugin-proposal-class-properties 7.18.6

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1.632 testing-library-dom 8.20.0

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1.633 @typescript-eslint/utils 5.36.2

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1.634 optionator 0.8.3

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1.635 normalize-range 0.1.2

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1.636 stackframe 1.3.4

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1.637 commander 9.5.0

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1.638 @babel/plugin-transform-modules-amd 7.20.11

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1.639 yocto-queue 0.1.0

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1.640 mdn-data 2.0.14

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1.641 jest-environment-node 27.5.1

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1.643 inline-style-prefixer 6.0.4

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1.644 buffer-from 1.1.2

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1.646 lower-case 2.0.2

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1.647 pbf 3.2.1

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1.648 @webassemblyjs/helper-wasm-bytecode 1.11.1

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1.655 resolve-from 4.0.0

1.656 @wojtekmaj/date-utils 1.0.3

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1.660 es-get-iterator 1.1.3

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1.668 react-i18next 12.1.4

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1.669 levn 0.4.1

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1.670 css-box-model 1.2.1

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1.671 @emotion/serialize 1.1.1

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1.672 typescript 4.6.4

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1.674 postcss-minify-selectors 5.2.1

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1.675 jest-runner 27.5.1

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1.676 node-int64 0.4.0

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1.677 is-lambda 1.0.1

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1.678 spdx-exceptions 2.3.0

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1.679 react-select-event 5.5.1

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1.680 http-proxy-agent 4.0.1

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http-proxy-agent
==========
An HTTP(s) proxy `http.Agent` implementation for HTTP
[![Build Status](https://github.com/TooTallNate/node-http-proxy-agent/workflows/Node%20CI/badge.svg)](https://github.com/TooTallNate/node-http-proxy-agent/actions?workflow=Node+CI)

This module provides an `http.Agent` implementation that connects to a specified
HTTP or HTTPS proxy server, and can be used with the built-in `http` module.

__Note:__ For HTTP proxy usage with the `https` module, check out
[`node-https-proxy-agent`](https://github.com/TooTallNate/node-https-proxy-agent).

Installation

Install with `npm`:

``` bash
$ npm install http-proxy-agent
```

Example

``` js
var url = require('url');
var http = require('http');
var HttpProxyAgent = require('http-proxy-agent');

// HTTP/HTTPS proxy to connect to
var proxy = process.env.http_proxy || 'http://168.63.76.32:3128';
console.log('using proxy server %j', proxy);
```

```
// HTTP endpoint for the proxy to connect to
var endpoint = process.argv[2] || 'http://nodejs.org/api/';
console.log('attempting to GET %j', endpoint);
var opts = url.parse(endpoint);

// create an instance of the `HttpProxyAgent` class with the proxy server information
var agent = new HttpProxyAgent(proxy);
opts.agent = agent;

http.get(opts, function (res) {
 console.log('"response" event!', res.headers);
 res.pipe(process.stdout);
});
```

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* /opt/cola/permits/1145182297_1655090433.4751701/0/http-proxy-agent-4-0-1-4-tgz/package/README.md

1.681 minipass 3.3.6

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1.682 markedjs 4.2.0

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1.683 @xtuc/long 4.2.2

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1.684 iconv-lite 0.6.3

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1.685 error-stack-parser 2.1.4

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1.686 domexception 2.0.1

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1.687 resolve-from 5.0.0

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1.688 classes 1.2.6

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1.689 netroy-image-size 0.5.5

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1.690 react-transition-group 4.4.5

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1.691 @babel/plugin-proposal-logical-assignment-operators 7.20.7

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1.692 d3-contour 1.3.2

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1.693 @types/eslint 8.4.1

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1.694 braces 3.0.2

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1.695 run-parallel v1.2.0

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1.696 source-map 0.5.6

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1.697 import-fresh 3.3.0

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1.698 eslint-visitor-keys 3.3.0

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1.699 babel-plugin-transform-react-constant-elements 7.18.9

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1.700 react-select 5.6.0

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1.704 tootallnate-once 1.1.2

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1.705 @babel/generator 7.20.7

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1.706 @types/qs 6.9.7

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1.707 cjs-module-lexer 1.2.2

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1.708 is-in-browser 1.1.3

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1.710 node-source-map-support 0.5.21

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1.711 @braintree/sanitize-url 6.0.1

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1.712 web-vitals 3.1.1

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1.717 d3-drag 1.2.5

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1.724 @types/prop-types 15.7.5

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1.730 sort-asc 0.1.0

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1.734 resolve.exports 1.1.1

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1.735 @ampproject/remapping 2.2.0

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1.746 @babel/plugin-proposal-optional-catch-binding 7.18.6

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1.747 exenv 1.2.2

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1.748 postcss-image-set-function 4.0.7

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1.749 @react-aria/menu 3.6.1

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1.750 path-exists 4.0.0

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1.751 @types/tapable 1.0.8

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1.752 @csstools/postcss-hwb-function 1.0.2

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1.753 source-map 0.5.7

1.754 cssesc 3.0.0

1.755 d3-quadtree v1.0.7

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1.756 lodash.memoize 4.1.2

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1.757 @babel/plugin-transform-new-target 7.18.6

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1.758 @babel/preset-react 7.18.6

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1.759 jest-types 29.3.1

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1.760 readdirp 3.6.0

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1.761 ajv 6.12.6

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1.762 add-px-to-style 1.0.0

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1.764 terminal-link 2.1.1

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1.765 @babel/helper-string-parser 7.19.4

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1.766 d3-force 1.2.1

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1.767 which 1.3.1

1.768 node-promise-retry 2.0.1

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1.769 memfs 3.4.13

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1.770 chalk 2.4.2

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1.771 rc-tree 5.7.2

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1.772 react-immutable-proptypes 2.2.0

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1.773 jest-changed-files 27.5.1

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1.774 babel-plugin-proposal-optional-chaining 7.18.9

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1.775 spdx-license-ids 3.0.12

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Installation

[Download JSON directly](https://raw.githubusercontent.com/jslicense/spdx-license-ids/main/index.json), or [use](https://docs.npmjs.com/cli/install) [npm](https://docs.npmjs.com/about-npm/):

```
npm install spdx-license-ids
```

[Node.js](https://nodejs.org/) API

require('spdx-license-ids')

Type: `string[]`

All license IDs except for the currently deprecated ones.

```javascript
const ids = require('spdx-license-ids');
//=> ['0BSD', 'AAL', 'ADSL', 'AFL-1.1', 'AFL-1.2', 'AFL-2.0', 'AFL-2.1', 'AFL-3.0', 'AGPL-1.0-only', ...]

ids.includes('BSD-3-Clause'); //=> true
ids.includes('CC-BY-1.0'); //=> true

ids.includes('GPL-3.0'); //=> false
```

require('spdx-license-ids/deprecated')

Type: `string[]`

Deprecated license IDs.

```javascript
const deprecatedIds = require('spdx-license-ids/deprecated');
//=> ['AGPL-1.0', 'AGPL-3.0', 'GFDL-1.1', 'GFDL-1.2', 'GFDL-1.3', 'GPL-1.0', 'GPL-2.0', ...]

deprecatedIds.includes('BSD-3-Clause'); //=> false
deprecatedIds.includes('CC-BY-1.0'); //=> false

deprecatedIds.includes('GPL-3.0'); //=> true
```

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1.776 @humanwhocodes/config-array 0.9.5

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1.777 @typescript-eslint/visitor-keys 5.16.0

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1.778 type-check 0.3.2

1.779 path-key 3.1.1

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1.780 typescript-eslint-typescript-estree 5.16.0

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1.783 moment-timezone 0.5.38

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1.805 postcss-merge-rules 5.1.3

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1.806 abab 2.0.6

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1.807 @types/express-serve-static-core 4.17.32

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1.809 typedarray-to-buffer 3.1.5

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1.810 shallowequal 1.1.0

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1.812 @babel/helper-explode-assignable-expression 7.18.6

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1.813 acorn-import-assertions 1.8.0

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Support for import assertions in acorn

Usage

This module provides a plugin that can be used to extend the Acorn Parser class:

```js
const {Parser} = require('acorn');
const {importAssertions} = require('acorn-import-assertions');
Parser.extend(importAssertions).parse('...');
```

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Found in path(s):
* /opt/cola/permits/1247772693_1640336471.34/0/acorn-import-assertions-1-8-0-tgz/package/README.md

1.814 types-uglify-js 3.17.1

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1.815 restore-cursor v3.1.0

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1.816 hyphenate-style-name 1.0.4

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1.817 is-fullwidth-code-point 3.0.0

1.818 @typescript-eslint/type-utils 5.36.2

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1.819 sindresorhus-globals 13.19.0

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1.820 sindresorhus/normalize-url 6.1.0

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1.821 jest-environment 27.5.1

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1.822 sindresorhus-supports-color 8.1.1

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1.823 levn 0.3.0

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1.827 word-wrap 1.2.3

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1.830 warning 4.0.3

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1.831 types-react-transition-group 4.4.5

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1.833 @grafana/data 9.3.2

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1.834 d3-axis 1.0.12

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1.835 update-browserslist-db 1.0.10

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1.836 types-estree 0.0.51

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1.837 @petamoriken/float16 3.7.1

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1.839 xml-utils 1.3.0

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1.841 d3-time 1.1.0

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1.853 locate-path v5.0.0

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1.854 @webassemblyjs/wasm-opt 1.11.1

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1.855 types-stack-utils 2.0.1

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1.856 @babel/helper-validator-identifier 7.19.1

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1.857 rw 1.3.3

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1.858 add-dom-event-listener 1.1.0

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1.859 is-boolean-object 1.1.2

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1.860 tar 6.1.13

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1.861 flat-cache 3.0.4

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1.862 tomas-needle 3.2.0

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1.863 @types/clean-css 4.2.6

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1.864 @babel/plugin-transform-named-capturing-groups-regex 7.20.5

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1.865 reusify 1.0.4

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1.866 types-istanbul-lib-coverage 2.0.4

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1.867 immer 9.0.18

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1.868 co 4.6.0

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1.869 jest-runtime 27.5.1

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1.870 postcss-normalize-positions 5.1.1

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1.871 os-tmpdir 1.0.2

1.872 istanbul-reports 3.1.5

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1.873 css-declaration-sorter 6.3.1

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1.874 functions-have-names 1.2.3

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1.875 testing-library-jest-dom 5.16.5

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1.876 nano-css 5.3.5

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1.877 @sinonjs/fake-timers 8.1.0

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1.878 typescript 4.8.2

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1.879 dom-align 1.12.4

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1.880 jsdom 16.7.0

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1.881 stacktracejs v2.0.2

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1.882 serialize-javascript 6.0.1

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1.883 @react-aria/focus 3.8.0

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1.884 parse5 6.0.1

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1.885 @react-stately/selection 3.11.2

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1.888 terser-webpack-plugin 5.3.6

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1.889 watchman 2.1.1

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1.890 @csstools/postcss-progressive-custom-properties 1.3.0

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1.891 node-lru-cache 7.14.1

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1.893 array-prototype-flatmap 1.3.1

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1.895 @babel/plugin-transform-unicode-escapes 7.18.10

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1.898 minimist 1.2.7

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1.900 isarray 2.0.5

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1.903 gozala-events 3.3.0

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1.904 @babel/template 7.20.7

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1.906 imurmurhash 0.1.4

1.907 moment/moment 2.29.4

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1.908 typescript-eslint-typescript-estree 5.36.2

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1.910 ianstormtaylor/slate v0.2.5

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1.912 parse-node-version 1.0.1

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1.919 systemjs 0.20.19

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1.922 @babel/plugin-transform-modules-umd 7.18.6

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1.927 @babel/helper-environment-visitor 7.18.9

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1.931 regexp-prototype-flags 1.4.3

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1.932 acorn 8.8.1

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1.933 postcss-merge-longhand 5.1.7

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1.934 @formatjs/icu-skeleton-parser 1.3.18

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1.935 postcss-svgo 5.1.0

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1.936 make-fetch-happen 10.2.1

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1.937 d3-transition v1.3.2

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1.938 @jest/schemas 29.0.0

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1.939 chokidar 3.5.3

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1.940 rc-select 14.1.16

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1.941 types-babel-core 7.20.0

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1.942 is-number 7.0.0

1.943 core-js v2.6.12

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1.944 postcss-modules-scope 3.0.0

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1.945 is-window 1.0.2

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1.946 use-isomorphic-layout-effect 1.1.2

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1.947 typescript-eslint-eslint-plugin 5.16.0

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1.948 @webassemblyjs/wasm-parser 1.11.1

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1.949 shebang-command 2.0.0

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1.951 call-bind 1.0.2

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1.952 csstype 3.1.1

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1.953 @opentelemetry/otlp-transformer 0.34.0

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1.955 @types/http-proxy 1.17.9

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1.957 @react-aria/ssr 3.4.1

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1.960 js-yaml-native-js-port-of-pyyaml 4.1.0

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1.962 @webassemblyjs/wasm-gen 1.11.1

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1.963 @babel/plugin-transform-async-to-generator 7.20.7

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1.965 types-hoist-non-react-statics 3.3.1

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1.967 path-parse 1.0.7

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1.968 @xobotyi/scrollbar-width 1.9.5

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1.970 css-animation 1.6.1

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1.971 dot-case 3.0.4

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1.973 @babel/plugin-transform-regenerator 7.20.5

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1.974 rc-resize-observer 1.2.1

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1.976 uaparser-js 1.0.32

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1.977 babel-helper-create-regexp-features-plugin 7.20.5

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1.978 commander v2.20.3

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1.979 unicode-property-aliases-ecmascript 2.1.0

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1.980 cssfilter 0.0.10

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1.982 papa-parse 5.3.2

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1.983 @babel/helper-wrap-function 7.20.5

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1.989 command-exists 1.2.9

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1.990 @types/connect 3.4.35

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1.991 @babel/plugin-syntax-optional-catch-binding 7.8.3

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1.992 postcss-font-variant 5.0.0

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1.994 eventemitter3 4.0.7

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1.995 wrap-ansi v7.0.0

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1.996 babel-plugin-macros 3.1.0

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1.997 d3-path 1.0.9

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1.998 @babel/plugin-syntax-logical-assignment-operators 7.10.4

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1.999 performance-now 2.1.0

1.1000 fs-minipass v2.1.0

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1.1001 jest-transform 27.5.1

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1.1003 dom-css 2.1.0

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1.1004 unbox-primitive 1.0.2

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1.1005 postcss-logical 5.0.4

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1.1007 ianstormtaylor/slate 0.2.115

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1.1008 @babel/plugin-proposal-private-property-in-object 7.20.5

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1.1009 glob-to-regexp 0.4.1

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1.1019 @babel/helper-optimise-call-expression 7.18.6

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1.1021 @types/range-parser 1.2.4

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1.1028 @sinclair/typebox 0.24.51

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1.1030 sourcemap-codec 1.4.8

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1.1034 are-we-there-yet 3.0.1

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1.1040 @react-aria/utils 3.14.2

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1.1043 postcss-colormin 5.3.0

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1.1044 tapable 1.1.3

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1.1045 @typescript-eslint/utils 5.16.0

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1.1047 nodejs-exit 0.1.2

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1.1048 shebang-regex 3.0.0

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1.1049 react-dev-utils 12.0.1

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1.1050 @babel/plugin-syntax-jsx 7.18.6

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1.1051 @npmcli/fs 2.1.2

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1.1052 source-map 0.6.1

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1.1054 prelude-ls 1.2.1

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1.1055 autoprefixer 10.4.13

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1.1057 is-potential-custom-element-name 1.0.1

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1.1058 fast-deep-equal v3.1.3

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1.1059 whatwg-mimetype 2.3.0

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1.1060 @babel/plugin-proposal-json-strings 7.18.6

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1.1061 get-symbol-description 1.0.0

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1.1062 @babel/plugin-transform-unicode-regex 7.18.6

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1.1063 @babel/plugin-transform-arrow-functions 7.20.7

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1.1064 postcss-discard-duplicates 5.1.0

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1.1065 object-keys 1.1.1

1.1066 @babel/helper-define-polyfill-provider 0.3.3

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1.1067 minipass-collect 1.0.2

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1.1068 eslint-scope v5.1.1

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1.1069 string-prototype-trimstart 1.0.6

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1.1070 @babel/plugin-syntax-class-properties 7.12.13

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1.1071 calculate-size 1.1.1

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1.1072 d3-array 1.2.4

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1.1073 postcss-normalize-display-values 5.1.0

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1.1074 @webassemblyjs/ieee754 1.11.1

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1.1075 @adobe/css-tools 4.0.2

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1.1076 camelcase 5.3.1

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1.1077 @typescript-eslint/scope-manager 5.16.0

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1.1078 tinycolor 1.4.2

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1.1079 node-lru-cache 6.0.0

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1.1080 @jridgewell/sourcemap-codec 1.4.14

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1.1081 react-redux 7.2.9

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1.1082 css-blank-pseudo 3.0.3

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1.1083 @babel/plugin-transform-function-name 7.18.9

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1.1084 postcss-normalize-whitespace 5.1.1

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1.1085 babel-plugin-proposal-optional-chaining 7.20.7

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1.1086 no-case 3.0.4

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1.1087 regenerator-runtime 0.13.10

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1.1088 eslint 8.20.0

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1.1089 is-symbol 1.0.4

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1.1090 node-gyp 9.3.1

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1.1091 unicode-match-property-value-ecmascript 2.1.0

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1.1092 merge-class-names 1.4.2

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1.1093 eslint-plugin-jsdoc 38.0.6

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1.1094 string-prototype-matchall 4.0.8

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1.1095 jest-get-type 27.5.1

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1.1096 object.values 1.1.6

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1.1097 jest-source-map 27.5.1

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1.1098 env-paths 2.2.1

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1.1099 @jridgewell/gen-mapping 0.1.1

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1.1100 asynckit 0.4.0

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1.1101 @internationalized/message 3.0.10

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{"version":3,"file":"index.es.js","sources":["../../../node_modules/json-stringify-pretty-compact/index.js","../format.js","../../../node_modules/url/node_modules/punycode/punycode.js","../../../node_modules/url/util.js","../../../node_modules/querystring/decode.js","../../../node_modules/querystring/encode.js","../../../node_modules/querystring/index.js","../../../node_modules/url/url.js","../visit.js","../migrate/v8.js","../util/extend.js","../expression/parsing_error.js","../expression/scope.js","../expression/types.js","../../../node_modules/csscolorparser/csscolorparser.js","../util/color.js","../expression/types/collator.js","../expression/types/formatted.js","../expression/types/resolved_image.js","../expression/values.js","../expression/definitions/literal.js","../expression/runtime_error.js","../expression/definitions/assertion.js","../expression/definitions/format.js","../expression/definitions/image.js","../expression/definitions/coercion.js","../expression/evaluation_context.js","../expression/compound_expression.js","../expression/definitions/collator.js","../expression/definitions/within.js","../expression/is_constant.js","../expression/definitions/var.js","../expression/parsing_context.js","../expression/stops.js","../expression/definitions/step.js","../../../node_modules/@mapbox/unitbezier/index.js","../util/interpolate.js","../util/color_spaces.js","../expression/definitions/interpolate.js","../expression/definitions/coalesce.js","../expression/definitions/let.js","../expression/definitions/at.js","../expression/definitions/in.js","../expression/definitions/index_of.js","../expression/definitions/match.js","../expression/definitions/case.js","../expression/definitions/slice.js","../expression/definitions/comparison.js","../expression/definitions/number_format.js","../expression/definitions/length.js","../expression/definitions/index.js","../util/result.js","../util/properties.js","../util/get_type.js","../function/index.js","../expression/index.js","../function/convert.js","../util/unbundle_jsonlint.js","../feature_filter/index.js","../feature_filter/convert.js","../migrate/expressions.js","../migrate.js","../composite.js","../util/ref_properties.js","../deref.js","../util/deep_equal.js","../diff.js","../error/validation_error.js","../error/parsing_error.js","../validate/validate_object.js","../validate/validate_array.js","../validate/validate_number.js","../validate/validate_function.js","../validate/validate_expression.js","../validate/validate_boolean.js","../validate/validate_color.js","../validate/validate_enum.js","../validate/validate_filter.js","../validate/validate_property.js","../validate/validate_paint_property.js","../validate/validate_layout_property.js","../validate/validate_layer.js","../validate/validate_string.js","../validate/validate_source.js","../validate/validate_light.js","../validate/validate_terrain.js","../validate/validate_fog.js","../validate/validate_formatted.js","../validate/validate_image.js","../validate/validate_projection.js","../validate/validate.js","../validate/validate_glyphs_url.js","../validate_style.min.js","../../../node_modules/@mapbox/jsonlint-lines-primitives/lib/jsonlint.js","../read_style.js","../validate_style.js","../validate_mapbox_api_supported.js","../style-spec.js"],"sourcesContent":["// Note: This regex matches even invalid JSON strings, but since we’re\n// working on the output of `JSON.stringify` we know that only valid strings\n// are present (unless the user supplied a weird `options.indent` but in\n// that case we don’t care since the output would be invalid anyway).\nconst stringOrChar = /(\"(?:[^\\\\\"]|\\\\.)*\")|[:,]/g;\n\nexport default function stringify(passedObj, options = {}) {\n const indent = JSON.stringify(\n   [1],\n   undefined,\n   options.indent === undefined ? 2 : options.indent\n).slice(2, -3);\n\n const maxLength =\n   indent === \"\"\n   ? Infinity\n   : options.maxLength === undefined\n   ? 80\n   : options.maxLength;\n\n let { replacer } = options;\n\n return (function _stringify(obj, currentIndent, reserved) {\n   if (obj && typeof obj.toJSON === \"function\") {\n   obj = obj.toJSON();\n   }\n\n   const string = JSON.stringify(obj, replacer);\n\n   if (string === undefined) {\n   return string;\n   }\n\n   const length = maxLength - currentIndent.length - reserved;\n\n   if (string.length <= length) {\n   const prettified = string.replace(\n   stringOrChar,\n   (match, stringLiteral) => {\n   return stringLiteral || `${match} `;\n   }\n   );\n   if (prettified.length <= length) {\n   return prettified;\n   }\n   }\n\n   if (replacer != null) {\n   obj = JSON.parse(string);\n   replacer = undefined;\n   }\n\n   if (typeof obj === \"object\" && obj !== null) {\n   const nextIndent = currentIndent + indent;\n   const items = [];\n   let index = 0;\n   let start;\n   let end;\n\n

if (Array.isArray(obj)) {\n start = \"[\";\n end = \"]\";\n const { length } = obj;\n for (; index < length; index++) {\n items.push(\n _stringify(obj[index], nextIndent, index === length - 1 ? 0 : 1) ||\n \"null\"\n);\n }\n } else {\n start = \"{\";\n end = \"}\";\n const keys = Object.keys(obj);\n const { length } = keys;\n for (; index < length; index++) {\n const key = keys[index];\n const keyPart = `${JSON.stringify(key)}: `;\n const value = _stringify(\n obj[key],\n nextIndent,\n keyPart.length + (index === length - 1 ? 0 : 1)\n);\n if (value !== undefined) {\n items.push(keyPart + value);\n }\n }\n }\n\n if (items.length > 0) {\n return [start, indent + items.join(`,\\n${nextIndent}`), end].join(\n `\\n${currentIndent}`\n);\n }\n }\n\n return string;\n })(passedObj, \"\", 0);\n}\n","\nimport reference from './reference/latest.js';\nimport stringifyPretty from 'json-stringify-pretty-compact';\n\nfunction sortKeysBy(obj, reference) {\n const result = {};\n for (const key in reference) {\n if (obj[key] !== undefined) {\n result[key] = obj[key];\n }\n }\n for (const key in obj) {\n if (result[key] === undefined) {\n result[key] = obj[key];\n }\n }\n return result;\n}\n\n/**\n * Format a Mapbox GL Style. Returns a stringified style with its keys\n * sorted in the same order as the reference style.\n *\n * The optional `space` argument is passed to\n * [`JSON.stringify`](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON/stringify)\n * to generate formatted output.\n *\n * If `space` is unspecified, a default of `2` spaces will be used.\n *\n * @private\n * @param {Object} style a Mapbox GL Style\n * @param {number} [space] space argument to pass to `JSON.stringify`\n * @returns {string} stringified formatted JSON\n * @example\n * var fs = require('fs');\n * var format = require('mapbox-gl-style-spec').format;\n * var style = fs.readFileSync('./source.json', 'utf8');\n * fs.writeFileSync('./dest.json', format(style));\n * fs.writeFileSync('./dest.min.json', format(style, 0));\n */\nfunction format(style, space = 2) {\n style = sortKeysBy(style, reference.$root);\n\n if (style.layers) {\n style.layers = style.layers.map((layer) => sortKeysBy(layer, reference.layer));\n }\n\n return stringifyPretty(style, {indent: space});\n}\n\nexport default format;\n","/*! https://mths.be/punycode v1.3.2 by @mathias */\n;(function(root) {\n\n\t/** Detect free variables */\n\tvar freeExports = typeof exports == 'object' && exports &&\n\t\t!exports.nodeType && exports;\n\tvar freeModule = typeof module == 'object' && module &&\n\t\t!module.nodeType && module;\n\tvar freeGlobal = typeof global == 'object' && global;\n\tif (\n\t\tfreeGlobal.global === freeGlobal ||\n\t\tfreeGlobal.window === freeGlobal ||\n\t\tfreeGlobal.self === freeGlobal\n\t) {\n\t\troot = freeGlobal;\n\t}\n\n\t/**\n\t * The `punycode` object.\n\t * @name punycode\n\t * @type Object\n\t */\n\tvar punycode,\n\n\t/** Highest positive signed 32-bit float value */\n\tmaxInt = 2147483647, // aka. 0x7FFFFFFF or 2^31-1\n\n\t/** Bootstring parameters */\n\tbase = 36,\n\ttMin = 1,\n\ttMax = 26,\n\tskew = 38,\n\tdamp = 700,\n\tinitialBias = 72,\n\tinitialN = 128, // 0x80\n\tdelimiter = '-', // '\\x2D'\n\n\t/** Regular expressions */\n\tregexPunycode = /^xn--/,\n\tregexNonASCII = /[^\\x20-\\x7E]/, // unprintable ASCII chars + non-ASCII chars\n\tregexSeparators = /[\\x2E\\u3002\\uFF0E\\uFF61]/g, // RFC 3490 separators\n\n\t/** Error messages */\n\terrors = {\n\t\t'overflow': 'Overflow: input needs wider integers to process',\n\t\t'not-basic': 'Illegal input >= 0x80 (not a basic code point)',\n\t\t'invalid-input': 'Invalid input'\n\t},\n\n\t/** Convenience shortcuts */\n\tbaseMinusTMin = base - tMin,\n\tfloor = Math.floor,\n\tstringFromCharCode = String.fromCharCode,\n\n\t/** Temporary variable */\n\tkey;\n\n\t/*--*/\n\n\t/**\n\t * A generic error utility function.\n\t * @private\n\t * @param {String} type The error type.\n\t * @returns {Error} Throws a `RangeError` with the applicable error message.\n\t */\n\tfunction error(type) {\n\t\tthrow RangeError(errors[type]);\n\t}\n\n\t/**\n\t * A generic `Array#map` utility function.\n\t * @private\n\t * @param {Array} array The array to iterate over.\n\t * @param {Function} callback The function that gets called for every array\n\t * item.\n\t * @returns {Array} A new array of values returned by the callback function.\n\t */\n\tfunction map(array, fn) {\n\t\tvar length = array.length;\n\t\tvar result = [];\n\t\twhile (length--) {\n\t\t\tresult[length] = fn(array[length]);\n\t\t}\n\t\treturn result;\n\t}\n\n\t/**\n\t * A simple `Array#map`-like wrapper to work with domain name strings or email\n\t * addresses.\n\t * @private\n\t * @param {String} domain The domain name or email address.\n\t * @param {Function} callback The function that gets called for every\n\t * character.\n\t * @returns {Array} A new string of characters returned by the callback\n\t * function.\n\t */\n\tfunction

mapDomain(string, fn) {\n\t\tvar parts = string.split('@');\n\t\tvar result = '';\n\t\tif (parts.length > 1) {\n\t\t\t// In email addresses, only the domain name should be punycoded. Leave\n\t\t\t// the local part (i.e. everything up to `@`) intact.\n\t\t\tresult = parts[0] + '@';\n\t\t\tstring = parts[1];\n\t\t}\n\t\t// Avoid `split(regex)` for IE8 compatibility. See #17.\n\t\tstring = string.replace(regexSeparators, '\\x2E');\n\t\tvar labels = string.split('.');\n\t\tvar encoded = map(labels, fn).join('.');\n\t\treturn result + encoded;\n\t}\n\n/**\n\t * Creates an array containing the numeric code points of each Unicode\n\t * character in the string. While JavaScript uses UCS-2 internally,\n\t * this function will convert a pair of surrogate halves (each of which\n\t * UCS-2 exposes as separate characters) into a single code point,\n\t * matching UTF-16.\n\t * @see `punycode.ucs2.encode`\n\t * @see <https://mathiasbynens.be/notes/javascript-encoding>\n\t * @memberOf punycode.ucs2\n\t * @name decode\n\t * @param {String} string The Unicode input string (UCS-2).\n\t * @returns {Array} The new array of code points.\n\t */\n\tfunction ucs2decode(string) {\n\t\tvar output = [],\n\t\t   counter = 0,\n\t\t   length = string.length,\n\t\t   value,\n\t\t   extra;\n\t\twhile (counter < length) {\n\t\t\tvalue = string.charCodeAt(counter++);\n\t\t\tif (value >= 0xD800 && value <= 0xDBFF && counter < length) {\n\t\t\t\t// high surrogate, and there is a next character\n\t\t\t\textra = string.charCodeAt(counter++);\n\t\t\t\tif ((extra & 0xFC00) == 0xDC00) { // low surrogate\n\t\t\t\t\toutput.push(((value & 0x3FF) << 10) + (extra & 0x3FF) + 0x10000);\n\t\t\t} else {\n\t\t\t\t// unmatched surrogate; only append this code unit, in case the next\n\t\t\t\t// code unit is the high surrogate of a surrogate pair\n\t\t\t\toutput.push(value);\n\t\t\t\tcounter--;\n\t\t\t}\n\t\t} else {\n\t\t\toutput.push(value);\n\t\t}\n\t}\n\treturn output;\n}\n\n/**\n\t * Creates a string based on an array of numeric code points.\n\t * @see `punycode.ucs2.decode`\n\t * @memberOf punycode.ucs2\n\t * @name encode\n\t * @param {Array} codePoints The array of numeric code points.\n\t * @returns {String} The new Unicode string (UCS-2).\n\t */\n\tfunction ucs2encode(array) {\n\t\treturn map(array, function(value) {\n\t\t\tvar output = '';\n\t\t\tif (value > 0xFFFF) {\n\t\t\t\tvalue -= 0x10000;\n\t\t\t\toutput += stringFromCharCode(value >>> 10 & 0x3FF | 0xD800);\n\t\t\tvalue = 0xDC00 | value & 0x3FF;\n\t\t}\n\t\toutput += stringFromCharCode(value);\n\t\treturn output;\n\t}).join('');\n}\n\n/**\n\t * Converts a basic code point into a digit/integer.\n\t * @see `digitToBasic()`\n\t * @private\n\t * @param {Number} codePoint The basic numeric code point value.\n\t * @returns {Number} The numeric value of a basic code point (for use in\n\t * representing integers) in the range `0` to `base - 1`, or `base` if\n\t * the code point does not represent a value.\n\t */\n\tfunction basicToDigit(codePoint) {\n\t\tif (codePoint - 48 < 10) {\n\t\t\treturn codePoint - 22;\n\t\t}\n\t\tif (codePoint - 65 < 26) {\n\t\t\treturn codePoint - 65;\n\t\t}\n\t\tif (codePoint - 97 < 26) {\n\t\t\treturn codePoint - 97;\n\t\t}\n\t\treturn base;\n}\n\n/**\n\t * Converts a digit/integer into a basic code point.\n\t * @see `basicToDigit()`\n\t * @private\n\t * @param {Number} digit The numeric value of a basic code point.\n\t * @returns {Number} The basic code point whose value (when used for\n\t * representing integers) is `digit`, which needs to be in the range\n\t * `0` to `base - 1`. If `flag` is non-zero, the uppercase form is\n\t * used; else, the lowercase form is used. The behavior is undefined\n\t * if `flag` is non-zero and `digit` has no uppercase form.\n\t */\n\tfunction digitToBasic(digit, flag) {\n\t\t// 0..25 map to ASCII a..z or A..Z\n\t\t// 26..35 map to ASCII 0..9\n\t\treturn digit + 22 + 75 * (digit < 26) - ((flag != 0) << 5);\n\t}\n\n/**\n\t * Bias adaptation function as per section 3.4 of RFC 3492.\n\t * http://tools.ietf.org/html/rfc3492#section-3.4\n\t * @private\n\t */\n\tfunction adapt(delta, numPoints, firstTime) {\n\t\tvar k = 0;\n\t\tdelta = firstTime ? floor(delta / damp) : delta >> 1;\n\t\tdelta += floor(delta / numPoints);\n\t\tfor (/* no initialization */; delta > baseMinusTMin * tMax >> 1; k += base) {\n\t\t\tdelta = floor(delta / baseMinusTMin);\n\t\t}\n\t\treturn floor(k + (baseMinusTMin + 1) * delta / (delta + skew));\n}\n\n/**\n\t * Converts a Punycode string of ASCII-only symbols to a string of Unicode\n\t * symbols.\n\t * @memberOf punycode\n\t * @param {String} input The Punycode string of ASCII-only symbols.\n\t * @returns {String} The resulting string of Unicode symbols.\n\t */\n\tfunction decode(input) {\n\t\t// Don't use UCS-2\n\t\tvar output = [],\n\t\t   inputLength = input.length,\n\t\t   out,\n\t\t   i = 0,\n\t\t   n = initialN,\n\t\t   bias = initialBias,\n\t\t   basic,\n\t\t   j,\n\t\t   index,\n\t\t   oldi,\n\t\t   w,\n\t\t   k,\n\t\t   digit,\n\t\t   t,\n\t\t   /** Cached calculation results */\n\t\t   baseMinusT;\n\n\t\t// Handle the basic code points: let `basic` be the number of input code\n\t\t// points before the last delimiter, or `0` if there is none, then copy\n\t\t// the first basic code points to the output.\n\n\t\tbasic = input.lastIndexOf(delimiter);\n\t\tif (basic < 0) {\n\t\t\tbasic = 0;\n\t\t}\n\n\t\tfor (j = 0; j <

basic; ++j) {\n\t\t\t// if it's not a basic code point\n\t\t\tif (input.charCodeAt(j) >= 0x80) {\n\t\t\t\terror('not-basic');\n\t\t\t}\n\t\t\toutput.push(input.charCodeAt(j));\n\t\t}\n\n\t// Main decoding loop: start just after the last delimiter if any basic code\n\t// points were copied; start at the beginning otherwise.\n\n\tfor (index = basic > 0 ? basic + 1 : 0; index < inputLength; /* no final expression */) {\n\n\t\t// `index` is the index of the next character to be consumed.\n\t\t// Decode a generalized variable-length integer into `delta`,\n\t\t// which gets added to `i`. The overflow checking is easier\n\t\t// if we increase `i` as we go, then subtract off its starting\n\t\t// value at the end to obtain `delta`.\n\t\tfor (oldi = i, w = 1, k = base; /* no condition */; k += base) {\n\n\t\t\tif (index >= inputLength) {\n\t\t\t\terror('invalid-input');\n\t\t\t}\n\n\t\t\tdigit = basicToDigit(input.charCodeAt(index++));\n\n\t\t\tif (digit >= base || digit > floor((maxInt - i) / w)) {\n\t\t\t\terror('overflow');\n\t\t\t}\n\n\t\t\ti += digit * w;\n\t\t\tt = k <= bias ? tMin : (k >= bias + tMax ? tMax : k - bias);\n\n\t\t\tif (digit < t) {\n\t\t\t\tbreak;\n\t\t\t}\n\n\t\t\tbaseMinusT = base - t;\n\t\t\tif (w > floor(maxInt / baseMinusT)) {\n\t\t\t\terror('overflow');\n\t\t\t}\n\n\t\t\tw *= baseMinusT;\n\n\t\t}\n\n\t\tout = output.length + 1;\n\t\tbias = adapt(i - oldi, out, oldi == 0);\n\n\t\t// `i` was supposed to wrap around from `out` to `0`,\n\t\t// incrementing `n` each time, so we'll fix that now:\n\t\tif (floor(i / out) > maxInt - n) {\n\t\t\terror('overflow');\n\t\t}\n\n\t\tn += floor(i / out);\n\t\ti %= out;\n\n\t\t// Insert `n` at position `i` of the output\n\t\toutput.splice(i++, 0, n);\n\n\t}\n\n\treturn ucs2encode(output);\n}\n\n/**\n * Converts a string of Unicode symbols (e.g. a domain name label) to a\n * Punycode string of ASCII-only symbols.\n * @memberOf punycode\n * @param {String} input The string of Unicode symbols.\n * @returns {String} The resulting Punycode string of ASCII-only symbols.\n */\nfunction encode(input) {\n\tvar n,\n\t   delta,\n\t   handledCPCount,\n\t   basicLength,\n\t   bias,\n\t   j,\n\t   m,\n\t   q,\n\t   k,\n\t   t,\n\t   currentValue,\n\t   output = [],\n\t   /** `inputLength` will hold the number of code points in `input`. */\n\t   inputLength,\n\t   /** Cached calculation results */\n\t   handledCPCountPlusOne,\n\t   baseMinusT,\n\t   qMinusT;\n\n\t// Convert the input in UCS-2 to Unicode\n\tinput = ucs2decode(input);\n\n\t// Cache the length\n\tinputLength = input.length;\n\n\t// Initialize the state\n\tn = initialN;\n\tdelta = 0;\n\tbias = initialBias;\n\n\t// Handle the basic code points\n\tfor (j = 0; j < inputLength; ++j) {\n\t\tcurrentValue = input[j];\n\t\tif (currentValue < 0x80) {\n\t\t\toutput.push(stringFromCharCode(currentValue));\n\t\t}\n\t}\n\n\thandledCPCount = basicLength = output.length;\n\n\t// `handledCPCount` is the number of code points that have been handled;\n\t// `basicLength` is the number of basic code points.\n\n\t// Finish the basic string - if it is not empty - with a delimiter\n\tif (basicLength) {\n\t\toutput.push(delimiter);\n\t}\n\n\t// Main encoding loop:\n\twhile (handledCPCount < inputLength) {\n\n\t\t// All non-basic code points < n have been handled already. Find the next\n\t\t// larger one:\n\t\tfor (m = maxInt, j = 0; j < inputLength; ++j) {\n\t\t\tcurrentValue = input[j];\n\t\t\tif (currentValue >= n && currentValue < m) {\n\t\t\t\tm = currentValue;\n\t\t\t}\n\t\t}\n\n\t\t// Increase `delta` enough to advance the decoder's <n,i> state to <m,0>,\n\t\t// but guard against overflow\n\t\thandledCPCountPlusOne = handledCPCount + 1;\n\t\tif (m - n > floor((maxInt - delta) / handledCPCountPlusOne)) {\n\t\t\terror('overflow');\n\t\t}\n\n\t\tdelta += (m - n) * handledCPCountPlusOne;\n\t\tn = m;\n\n\t\tfor (j = 0; j < inputLength; ++j) {\n\t\t\tcurrentValue = input[j];\n\n\t\t\tif (currentValue < n && ++delta > maxInt) {\n\t\t\t\terror('overflow');\n\t\t\t}\n\n\t\t\tif (currentValue == n) {\n\t\t\t\t// Represent delta as a generalized variable-length integer\n\t\t\t\tfor (q = delta, k = base; /* no condition */; k += base) {\n\t\t\t\t\tt = k <= bias ? tMin : (k >= bias + tMax ? tMax : k - bias);\n\t\t\t\t\tif (q < t) {\n\t\t\t\t\t\tbreak;\n\t\t\t\t\t}\n\t\t\t\t\tqMinusT = q - t;\n\t\t\t\t\tbaseMinusT = base - t;\n\t\t\t\t\toutput.push(\n\t\t\t\t\t\tstringFromCharCode(digitToBasic(t + qMinusT % baseMinusT, 0))\n\t\t\t\t\t);\n\t\t\t\t\tq = floor(qMinusT / baseMinusT);\n\t\t\t\t}\n\n\t\t\t\toutput.push(stringFromCharCode(digitToBasic(q, 0)));\n\t\t\t\tbias = adapt(delta, handledCPCountPlusOne, handledCPCount == basicLength);\n\t\t\t\tdelta = 0;\n\t\t\t\t++handledCPCount;\n\t\t\t}\n\t\t}\n\t\t++delta;\n\t\t++n;\n\n\t}\n\treturn output.join('');\n}\n\n/**\n * Converts a Punycode string representing a domain name or an email address\n * to Unicode. Only the Punycoded parts of the input will be converted, i.e.\n * it doesn't matter if you call it on a string that has already been\n * converted to Unicode.\n * @memberOf punycode\n * @param {String} input The Punycoded domain name or email address to\n * convert to Unicode.\n * @returns {String} The Unicode

representation of the given Punycode\n\t * string.\n\t */\n\tfunction toUnicode(input) {\n\t\treturn mapDomain(input, function(string) {\n\t\t\treturn regexPunycode.test(string)\n\t\t\t\t? decode(string.slice(4).toLowerCase())\n\t\t\t\t: string;\n\t\t});\n\t}\n\n\t/**\n\t * Converts a Unicode string representing a domain name or an email address to\n\t * Punycode. Only the non-ASCII parts of the domain name will be converted,\n\t * i.e. it doesn't matter if you call it with a domain that's already in\n\t * ASCII.\n\t * @memberOf punycode\n\t * @param {String} input The domain name or email address to convert, as a\n\t * Unicode string.\n\t * @returns {String} The Punycode representation of the given domain name or\n\t * email address.\n\t */\n\tfunction toASCII(input) {\n\t\treturn mapDomain(input, function(string) {\n\t\t\treturn regexNonASCII.test(string)\n\t\t\t\t? 'xn--' + encode(string)\n\t\t\t\t: string;\n\t\t});\n\t}\n\n\t/*--*/\n\n\t/** Define the public API */\n\tpunycode = {\n\t\t/**\n\t\t * A string representing the current Punycode.js version number.\n\t\t * @memberOf punycode\n\t\t * @type String\n\t\t */\n\t\t'version': '1.3.2',\n\t\t/**\n\t\t * An object of methods to convert from JavaScript's internal character\n\t\t * representation (UCS-2) to Unicode code points, and back.\n\t\t * @see <https://mathiasbynens.be/notes/javascript-encoding>\n\t\t * @memberOf punycode\n\t\t * @type Object\n\t\t */\n\t\t'ucs2': {\n\t\t\t'decode': ucs2decode,\n\t\t\t'encode': ucs2encode\n\t\t},\n\t\t'decode': decode,\n\t\t'encode': encode,\n\t\t'toASCII': toASCII,\n\t\t'toUnicode': toUnicode\n\t};\n\n\t/** Expose `punycode` */\n\t// Some AMD build optimizers, like r.js, check for specific condition patterns\n\t// like the following:\n\tif (\n\t\ttypeof define == 'function' &&\n\t\ttypeof define.amd == 'object' &&\n\t\tdefine.amd\n\t) {\n\t\tdefine('punycode', function() {\n\t\t\treturn punycode;\n\t\t});\n\t} else if (freeExports && freeModule) {\n\t\tif (module.exports == freeExports) { // in Node.js or RingoJS v0.8.0+\n\t\t\tfreeModule.exports = punycode;\n\t\t} else { // in Narwhal or RingoJS v0.7.0-\n\t\t\tfor (key in punycode) {\n\t\t\t\tpunycode.hasOwnProperty(key) && (freeExports[key] = punycode[key]);\n\t\t\t}\n\t\t}\n\t} else { // in Rhino or a web browser\n\t\troot.punycode = punycode;\n\t}\n\n}(this));\n","'use strict';\n\nmodule.exports = {\n isString: function(arg) {\n   return typeof(arg) === 'string';\n },\n isObject: function(arg) {\n   return typeof(arg) === 'object' && arg !== null;\n },\n isNull: function(arg) {\n   return arg === null;\n },\n isNullOrUndefined: function(arg) {\n   return arg == null;\n }\n};\n","// Copyright Joyent, Inc. and other Node contributors.\n//\n// Permission is hereby granted, free of charge, to any person obtaining a\n// copy of this software and associated documentation files (the\n// \"Software\"), to deal in the Software without restriction, including\n// without limitation the rights to use, copy, modify, merge, publish,\n// distribute, sublicense, and/or sell copies of the Software, and to permit\n// persons to whom the Software is furnished to do so, subject to the\n// following conditions:\n//\n// The above copyright notice and this permission notice shall be included\n// in all copies or substantial portions of the Software.\n//\n// THE SOFTWARE IS PROVIDED \"AS IS\", WITHOUT WARRANTY OF ANY KIND, EXPRESS\n// OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF\n// MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN\n// NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,\n// DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR\n// OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE\n// USE OR OTHER DEALINGS IN THE SOFTWARE.\n\n'use strict';\n\n// If obj.hasOwnProperty has been overridden, then calling\n// obj.hasOwnProperty(prop) will break.\n// See: https://github.com/joyent/node/issues/1707\nfunction hasOwnProperty(obj, prop) {\n return Object.prototype.hasOwnProperty.call(obj, prop);\n}\n\nmodule.exports = function(qs, sep, eq, options) {\n sep = sep || '&';\n eq = eq || '=';\n var obj = {};\n\n if (typeof qs !== 'string' || qs.length === 0) {\n   return obj;\n }\n\n var regexp = /\\+/g;\n qs = qs.split(sep);\n\n var maxKeys = 1000;\n if (options && typeof options.maxKeys === 'number') {\n   maxKeys = options.maxKeys;\n }\n\n var len = qs.length;\n // maxKeys <= 0 means that we should not limit keys count\n if (maxKeys > 0 && len > maxKeys) {\n   len = maxKeys;\n }\n\n for (var i = 0; i < len; ++i) {\n   var x = qs[i].replace(regexp, '%20'),\n   idx = x.indexOf(eq),\n   kstr, vstr, k, v;\n\n   if (idx >= 0) {\n   kstr = x.substr(0, idx);\n   vstr = x.substr(idx + 1);\n   } else {\n   kstr = x;\n   vstr = '';\n   }\n\n   k = decodeURIComponent(kstr);\n   v = decodeURIComponent(vstr);\n\n   if (!hasOwnProperty(obj, k)) {\n   obj[k] = v;\n   } else if (Array.isArray(obj[k])) {\n   obj[k].push(v);\n   } else {\n   obj[k] = [obj[k], v];\n   }\n }\n\n return obj;\n};\n","// Copyright Joyent, Inc. and other Node contributors.\n//\n// Permission is hereby granted, free of

charge, to any person obtaining a\n// copy of this software and associated documentation files (the\n// \"Software\"), to deal in the Software without restriction, including\n// without limitation the rights to use, copy, modify, merge, publish,\n// distribute, sublicense, and/or sell copies of the Software, and to permit\n// persons to whom the Software is furnished to do so, subject to the\n// following conditions:\n//\n// The above copyright notice and this permission notice shall be included\n// in all copies or substantial portions of the Software.\n//\n// THE SOFTWARE IS PROVIDED \"AS IS\", WITHOUT WARRANTY OF ANY KIND, EXPRESS\n// OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF\n// MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN\n// NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,\n// DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR\n// OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE\n// USE OR OTHER DEALINGS IN THE SOFTWARE.\n\n'use strict';\n\nvar stringifyPrimitive = function(v) {\n switch (typeof v) {\n   case 'string':\n   return v;\n\n   case 'boolean':\n   return v ? 'true' : 'false';\n\n   case 'number':\n   return isFinite(v) ? v : '';\n\n   default:\n   return '';\n }\n};\n\nmodule.exports = function(obj, sep, eq, name) {\n sep = sep || '&';\n eq = eq || '=';\n if (obj === null) {\n   obj = undefined;\n }\n\n if (typeof obj === 'object') {\n   return Object.keys(obj).map(function(k) {\n   var ks = encodeURIComponent(stringifyPrimitive(k)) + eq;\n   if (Array.isArray(obj[k])) {\n   return obj[k].map(function(v) {\n   return ks + encodeURIComponent(stringifyPrimitive(v));\n   }).join(sep);\n   } else {\n   return ks + encodeURIComponent(stringifyPrimitive(obj[k]));\n   }\n   }).join(sep);\n\n }\n\n if (!name) return '';\n return encodeURIComponent(stringifyPrimitive(name)) + eq +\n encodeURIComponent(stringifyPrimitive(obj));\n};\n","'use strict';\n\nexports.decode = exports.parse = require('./decode');\nexports.encode = exports.stringify = require('./encode');\n","// Copyright Joyent, Inc. and other Node contributors.\n//\n// Permission is hereby granted, free of charge, to any person obtaining a\n// copy of this software and associated documentation files (the\n// \"Software\"), to deal in the Software without restriction, including\n// without limitation the rights to use, copy, modify, merge, publish,\n// distribute, sublicense, and/or sell copies of the Software, and to permit\n// persons to whom the Software is furnished to do so, subject to the\n// following conditions:\n//\n// The above copyright notice and this permission notice shall be included\n// in all copies or substantial portions of the Software.\n//\n// THE SOFTWARE IS PROVIDED \"AS IS\", WITHOUT WARRANTY OF ANY KIND, EXPRESS\n// OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF\n// MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN\n// NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,\n// DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR\n// OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE\n// USE OR OTHER DEALINGS IN THE SOFTWARE.\n\n'use strict';\n\nvar punycode = require('punycode');\nvar util = require('./util');\n\nexports.parse = urlParse;\nexports.resolve = urlResolve;\nexports.resolveObject = urlResolveObject;\nexports.format = urlFormat;\n\nexports.Url = Url;\n\nfunction Url() {\n this.protocol = null;\n this.slashes = null;\n this.auth = null;\n this.host = null;\n this.port = null;\n this.hostname = null;\n this.hash = null;\n this.search = null;\n this.query = null;\n this.pathname = null;\n this.path = null;\n this.href = null;\n}\n\n// Reference: RFC 3986, RFC 1808, RFC 2396\n\n// define these here so at least they only have to be\n// compiled once on the first module load.\nvar protocolPattern = /^([a-z0-9.+-]+:)/i,\n   portPattern = /:[0-9]*$/,\n\n   // Special case for a simple path URL\n   simplePathPattern = /^(\\/\\/?(?!\\/)[^\\?\\s]*)(\\?[^\\s]*)?$/,\n\n   // RFC 2396: characters reserved for delimiting URLs.\n   // We actually just auto-escape these.\n   delims = ['<', '>', '\"', '`', ' ', '\\r', '\\n', '\\t'],\n\n    // RFC 2396: characters not allowed for various reasons.\n    unwise = ['{', '}', '|', '\\\\', '^', '`'].concat(delims),\n\n   // Allowed by RFCs, but cause of XSS attacks. Always escape these.\n   autoEscape = ['\\''].concat(unwise),\n   // Characters that are never ever allowed in a hostname.\n   // Note that any invalid chars are also handled, but these\n   // are the ones that are *expected* to be seen, so we fast-path\n   // them.\n   nonHostChars = ['%', '/', '?', ';', '#'].concat(autoEscape),\n   hostEndingChars = ['/', '?', '#'],\n   hostnameMaxLen = 255,\n   hostnamePartPattern = /^[+a-z0-9A-Z_-]{0,63}$/,\n   hostnamePartStart = /^([+a-z0-9A-Z_-]{0,63})(.*)$/,\n   // protocols that can allow

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\"unsafe\" and \"unwise\" chars.\n    unsafeProtocol = {\n      'javascript': true,\n      'javascript:': true\n    },\n    // protocols that never have a hostname.\n    hostlessProtocol = {\n      'javascript': true,\n      'javascript:': true\n    },\n    // protocols that always contain a // bit.\n    slashedProtocol = {\n      'http': true,\n      'https': true,\n      'ftp': true,\n      'gopher': true,\n      'file': true,\n      'http:': true,\n      'https:': true,\n      'ftp:': true,\n      'gopher:': true,\n      'file:': true\n    },\n    querystring = require('querystring');\n\nfunction urlParse(url, parseQueryString, slashesDenoteHost) {\n  if (url && util.isObject(url) && url instanceof Url) return url;\n\n  var u = new Url;\n  u.parse(url, parseQueryString, slashesDenoteHost);\n  return u;\n}\n\nUrl.prototype.parse = function(url, parseQueryString, slashesDenoteHost) {\n  if (!util.isString(url)) {\n    throw new TypeError(\"Parameter 'url' must be a string, not \" + typeof url);\n  }\n\n  // Copy chrome, IE, opera backslash-handling behavior.\n  // Back slashes before the query string get converted to forward slashes\n  // See: https://code.google.com/p/chromium/issues/detail?id=25916\n  var queryIndex = url.indexOf('?'),\n      splitter =\n          (queryIndex !== -1 && queryIndex < url.indexOf('#')) ? '?' : '#',\n      uSplit = url.split(splitter),\n      slashRegex = /\\\\/g;\n  uSplit[0] = uSplit[0].replace(slashRegex, '/');\n  url = uSplit.join(splitter);\n\n  var rest = url;\n\n  // trim before proceeding.\n  // This is to support parse stuff like \"  http://foo.com  \\n\"\n  rest = rest.trim();\n\n  if (!slashesDenoteHost && url.split('#').length === 1) {\n    // Try fast path regexp\n    var simplePath = simplePathPattern.exec(rest);\n    if (simplePath) {\n      this.path = rest;\n      this.href = rest;\n      this.pathname = simplePath[1];\n      if (simplePath[2]) {\n        this.search = simplePath[2];\n        if (parseQueryString) {\n          this.query = querystring.parse(this.search.substr(1));\n        } else {\n          this.query = this.search.substr(1);\n        }\n      } else if (parseQueryString) {\n        this.search = '';\n        this.query = {};\n      }\n      return this;\n    }\n  }\n\n  var proto = protocolPattern.exec(rest);\n  if (proto) {\n    proto = proto[0];\n    var lowerProto = proto.toLowerCase();\n    this.protocol = lowerProto;\n    rest = rest.substr(proto.length);\n  }\n\n  // figure out if it's got a host\n  // user@server is *always* interpreted as a hostname, and url\n  // resolution will treat //foo/bar as host=foo,path=bar because that's\n  // how the browser resolves relative URLs.\n  if (slashesDenoteHost || proto || rest.match(/^\\/\\/[^@\\/]+@[^@\\/]+/)) {\n    var slashes = rest.substr(0, 2) === '//';\n    if (slashes && !(proto && hostlessProtocol[proto])) {\n      rest = rest.substr(2);\n      this.slashes = true;\n    }\n  }\n\n  if (!hostlessProtocol[proto] &&\n      (slashes || (proto && !slashedProtocol[proto]))) {\n\n    // there's a hostname.\n    // the first instance of /, ?, ;, or # ends the host.\n    //\n    // If there is an @ in the hostname, then non-host chars *are* allowed\n    // to the left of the last @ sign, unless some host-ending character\n    // comes *before* the @-sign.\n    // URLs are obnoxious.\n    //\n    // ex:\n    // http://a@b@c/ => user:a@b host:c\n    // http://a@b?@c => user:a host:c path:/?@c\n\n    // v0.12 TODO(isaacs): This is not quite how Chrome does things.\n    // Review our test case against browsers more comprehensively.\n\n    // find the first instance of any hostEndingChars\n    var hostEnd = -1;\n    for (var i = 0; i < hostEndingChars.length; i++) {\n      var hec = rest.indexOf(hostEndingChars[i]);\n      if (hec !== -1 && (hostEnd === -1 || hec < hostEnd))\n        hostEnd = hec;\n    }\n\n    // at this point, either we have an explicit point where the\n    // auth portion cannot go past, or the last @ char is the decider.\n    var auth, atSign;\n    if (hostEnd === -1) {\n      // atSign can be anywhere.\n      atSign = rest.lastIndexOf('@');\n    } else {\n      // atSign must be in auth portion.\n      // http://a@b/c@d => host:b auth:a path:/c@d\n      atSign = rest.lastIndexOf('@', hostEnd);\n    }\n\n    // Now we have a portion which is definitely the auth.\n    // Pull that off.\n    if (atSign !== -1) {\n      auth = rest.slice(0, atSign);\n      rest = rest.slice(atSign + 1);\n      this.auth = decodeURIComponent(auth);\n    }\n\n    // the host is the remaining to the left of the first non-host char\n    hostEnd = -1;\n    for (var i = 0; i < nonHostChars.length; i++) {\n      var hec = rest.indexOf(nonHostChars[i]);\n      if (hec !== -1 && (hostEnd === -1 || hec < hostEnd))\n        hostEnd = hec;\n    }\n    // if we still have not hit it, then the entire thing is a host.\n    if (hostEnd === -1)\n      hostEnd = rest.length;\n\n    this.host = rest.slice(0, hostEnd);\n    rest = rest.slice(hostEnd);\n\n    // pull out port.\n    this.parseHost();\n\n    // we've indicated that there is a hostname,\n    // so even if it's empty, it has to be present.\n    this.hostname = this.hostname || '';\n\n    // if hostname begins with [ and ends with ]\n    // assume that it's an IPv6 address.\n    var ipv6Hostname = this.hostname[0] === '[' &&\n        this.hostname[this.hostname.length - 1] === ']';\n\n    // validate a little.\n    if (!ipv6Hostname) {\n      var hostparts = this.hostname.split(/\\./);\n      for (var i = 0, l = hostparts.length; i < l; i++) {\n        var part = hostparts[i];\n        if (!part) continue;\n        if (!part.match(hostnamePartPattern)) {\n          var newpart = '';\n          for (var j = 0, k = part.length; j < k; j++) {\n
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    if (part.charCodeAt(j) > 127) {\n      // we replace non-ASCII char with a temporary placeholder\n      // we need this to make sure size of hostname is not\n      // broken by replacing non-ASCII by nothing\n      newpart += 'x';\n    } else {\n      newpart += part[j];\n    }\n  }\n  // we test again with ASCII char only\n  if (!newpart.match(hostnamePartPattern)) {\n    var validParts = hostparts.slice(0, i);\n    var notHost = hostparts.slice(i + 1);\n    var bit = part.match(hostnamePartStart);\n    if (bit) {\n      validParts.push(bit[1]);\n      notHost.unshift(bit[2]);\n    }\n    if (notHost.length) {\n      rest = '/' + notHost.join('.') + rest;\n    }\n    this.hostname = validParts.join('.');\n    break;\n  }\n }\n }\n\n  if (this.hostname.length > hostnameMaxLen) {\n    this.hostname = '';\n  } else {\n    // hostnames are always lower case.\n    this.hostname = this.hostname.toLowerCase();\n  }\n\n  if (!ipv6Hostname) {\n    // IDNA Support: Returns a punycoded representation of \"domain\".\n    // It only converts parts of the domain name that\n    // have non-ASCII characters, i.e. it doesn't matter if\n    // you call it with a domain that already is ASCII-only.\n    this.hostname = punycode.toASCII(this.hostname);\n  }\n\n  var p = this.port ? ':' + this.port : '';\n  var h = this.hostname || '';\n  this.host = h + p;\n  this.href += this.host;\n\n  // strip [ and ] from the hostname\n  // the host field still retains them, though\n  if (ipv6Hostname) {\n    this.hostname = this.hostname.substr(1, this.hostname.length - 2);\n    if (rest[0] !== '/') {\n      rest = '/' + rest;\n    }\n  }\n\n  // now rest is set to the post-host stuff.\n  // chop off any delim chars.\n  if (!unsafeProtocol[lowerProto]) {\n\n    // First, make 100% sure that any \"autoEscape\" chars get\n    // escaped, even if encodeURIComponent doesn't think they\n    // need to be.\n    for (var i = 0, l = autoEscape.length; i < l; i++) {\n      var ae = autoEscape[i];\n      if (rest.indexOf(ae) === -1)\n        continue;\n      var esc = encodeURIComponent(ae);\n      if (esc === ae) {\n        esc = escape(ae);\n      }\n      rest = rest.split(ae).join(esc);\n    }\n  }\n\n\n  // chop off from the tail first.\n  var hash = rest.indexOf('#');\n  if (hash !== -1) {\n    // got a fragment string.\n    this.hash = rest.substr(hash);\n    rest = rest.slice(0, hash);\n  }\n  var qm = rest.indexOf('?');\n  if (qm !== -1) {\n    this.search = rest.substr(qm);\n    this.query = rest.substr(qm + 1);\n    if (parseQueryString) {\n      this.query = querystring.parse(this.query);\n    }\n    rest = rest.slice(0, qm);\n  } else if (parseQueryString) {\n    // no query string, but parseQueryString still requested\n    this.search = '';\n    this.query = {};\n  }\n  if (rest) this.pathname = rest;\n  if (slashedProtocol[lowerProto] &&\n      this.hostname && !this.pathname) {\n    this.pathname = '/';\n  }\n\n  //to support http.request\n  if (this.pathname || this.search) {\n    var p = this.pathname || '';\n    var s = this.search || '';\n    this.path = p + s;\n  }\n\n  // finally, reconstruct the href based on what has been validated.\n  this.href = this.format();\n  return this;\n};\n\n// format a parsed object into a url string\nfunction urlFormat(obj) {\n  // ensure it's an object, and not a string url.\n  // If it's an obj, this is a no-op.\n  // this way, you can call url_format() on strings\n  // to clean up potentially wonky urls.\n  if (util.isString(obj)) obj = urlParse(obj);\n  if (!(obj instanceof Url)) return Url.prototype.format.call(obj);\n  return obj.format();\n}\n\nUrl.prototype.format = function() {\n  var auth = this.auth || '';\n  if (auth) {\n    auth = encodeURIComponent(auth);\n    auth = auth.replace(/%3A/i, ':');\n    auth += '@';\n  }\n\n  var protocol = this.protocol || '',\n      pathname = this.pathname || '',\n      hash = this.hash || '',\n      host = false,\n      query = '';\n\n  if (this.host) {\n    host = auth + this.host;\n  } else if (this.hostname) {\n    host = auth + (this.hostname.indexOf(':') === -1 ?\n        this.hostname :\n        '[' + this.hostname + ']');\n    if (this.port) {\n      host += ':' + this.port;\n    }\n  }\n\n  if (this.query &&\n      util.isObject(this.query) &&\n      Object.keys(this.query).length) {\n    query = querystring.stringify(this.query);\n  }\n\n  var search = this.search || (query && ('?' + query)) || '';\n\n  if (protocol && protocol.substr(-1) !== ':') protocol += ':';\n\n  // only the slashedProtocols get the //.  Not mailto:, xmpp:, etc.\n  // unless they had them to begin with.\n  if (this.slashes ||\n      (!protocol || slashedProtocol[protocol]) && host !== false) {\n    host = '//' + (host || '');\n    if (pathname && pathname.charAt(0) !== '/') pathname = '/' + pathname;\n  } else if (!host) {\n    host = '';\n  }\n\n  if (hash && hash.charAt(0) !== '#') hash = '#' + hash;\n  if (search && search.charAt(0) !== '?') search = '?' + search;\n\n  pathname = pathname.replace(/[?#]/g, function(match) {\n    return encodeURIComponent(match);\n  });\n  search = search.replace('#', '%23');\n\n  return protocol + host + pathname + search + hash;\n};\n\nfunction urlResolve(source, relative) {\n  return urlParse(source, false, true).resolve(relative);\n}\n\nUrl.prototype.resolve = function(relative) {\n  return this.resolveObject(urlParse(relative, false, true)).format();\n};\n\nfunction urlResolveObject(source, relative) {\n  if (!source) return relative;\n  return urlParse(source, false,
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true).resolveObject(relative);\n}\n\nUrl.prototype.resolveObject = function(relative) {\n  if (util.isString(relative)) {\n    var rel = new Url();\n    rel.parse(relative, false, true);\n    relative = rel;\n  }\n\n  var result = new Url();\n  var tkeys = Object.keys(this);\n  for (var tk = 0; tk < tkeys.length; tk++) {\n    var tkey = tkeys[tk];\n    result[tkey] = this[tkey];\n  }\n\n  // hash is always overridden, no matter what.\n  // even href=\"\" will remove it.\n  result.hash = relative.hash;\n\n  // if the relative url is empty, then there's nothing left to do here.\n  if (relative.href === '') {\n result.href = result.format();\n    return result;\n  }\n\n  // hrefs like //foo/bar always cut to the protocol.\n  if (relative.slashes && !relative.protocol) {\n    // take everything except the protocol from relative\n    var rkeys = Object.keys(relative);\n    for (var rk = 0; rk < rkeys.length; rk++) {\n      var rkey = rkeys[rk];\n      if (rkey !== 'protocol')\n        result[rkey] = relative[rkey];\n    }\n\n    //urlParse appends trailing / to urls like http://www.example.com\n    if (slashedProtocol[result.protocol] &&\n        result.hostname && !result.pathname) {\n      result.path = result.pathname = '/';\n    }\n\n    result.href = result.format();\n    return result;\n  }\n\n  if (relative.protocol && relative.protocol !== result.protocol) {\n    // if it's a known url protocol, then changing\n    // the protocol does weird things\n    // first, if it's not file:, then we MUST have a host,\n    // and if there was a path\n    // to begin with, then we MUST have a path.\n    // if it is file:, then the host is dropped,\n    // because that's known to be hostless.\n    // anything else is assumed to be absolute.\n    if (!slashedProtocol[relative.protocol]) {\n      var keys = Object.keys(relative);\n      for (var v = 0; v < keys.length; v++) {\n        var k = keys[v];\n        result[k] = relative[k];\n      }\n      result.href = result.format();\n      return result;\n    }\n\n    result.protocol = relative.protocol;\n    if (!relative.host && !hostlessProtocol[relative.protocol]) {\n      var relPath = (relative.pathname || '').split('/');\n      while (relPath.length && !(relative.host = relPath.shift()));\n      if (!relative.host) relative.host = '';\n      if (!relative.hostname) relative.hostname = '';\n      if (relPath[0] !== '') relPath.unshift('');\n      if (relPath.length < 2) relPath.unshift('');\n      result.pathname = relPath.join('/');\n    } else {\n      result.pathname = relative.pathname;\n    }\n    result.search = relative.search;\n    result.query = relative.query;\n    result.host = relative.host || '';\n    result.auth = relative.auth;\n    result.hostname = relative.hostname || relative.host;\n    result.port = relative.port;\n    // to support http.request\n    if (result.pathname || result.search) {\n      var p = result.pathname || '';\n      var s = result.search || '';\n      result.path = p + s;\n    }\n    result.slashes = result.slashes || relative.slashes;\n    result.href = result.format();\n    return result;\n  }\n\n  var isSourceAbs = (result.pathname && result.pathname.charAt(0) === '/'),\n      isRelAbs = (\n          relative.host ||\n          relative.pathname && relative.pathname.charAt(0) === '/'\n      ),\n      mustEndAbs = (isRelAbs || isSourceAbs ||\n                    (result.host && relative.pathname)),\n      removeAllDots = mustEndAbs,\n      srcPath = result.pathname && result.pathname.split('/') || [],\n      relPath = relative.pathname && relative.pathname.split('/') || [],\n      psychotic = result.protocol && !slashedProtocol[result.protocol];\n\n  // if the url is a non-slashed url, then relative\n  // links like ../.. should be able\n  // to crawl up to the hostname, as well.  This is strange.\n  // result.protocol has already been set by now.\n  // Later on, put the first path part into the host field.\n  if (psychotic) {\n    result.hostname = '';\n    result.port = null;\n    if (result.host) {\n      if (srcPath[0] === '') srcPath[0] = result.host;\n      else srcPath.unshift(result.host);\n    }\n    result.host = '';\n    if (relative.protocol) {\n      relative.hostname = null;\n      relative.port = null;\n      if (relative.host) {\n        if (relPath[0] === '') relPath[0] = relative.host;\n        else relPath.unshift(relative.host);\n      }\n      relative.host = null;\n    }\n    mustEndAbs = mustEndAbs && (relPath[0] === '' || srcPath[0] === '');\n  }\n\n  if (isRelAbs) {\n    // it's absolute.\n    result.host = (relative.host || relative.host === '') ?\n                  relative.host : result.host;\n    result.hostname = (relative.hostname || relative.hostname === '') ?\n                      relative.hostname : result.hostname;\n    result.search = relative.search;\n    result.query = relative.query;\n    srcPath = relPath;\n    // fall through to the dot-handling below.\n  } else if (relPath.length) {\n    // it's relative\n    // throw away the existing file, and take the new path instead.\n    if (!srcPath) srcPath = [];\n    srcPath.pop();\n    srcPath = srcPath.concat(relPath);\n    result.search = relative.search;\n    result.query = relative.query;\n  } else if (!util.isNullOrUndefined(relative.search)) {\n    // just pull out the search.\n    // like href='?foo'.\n    // Put this after the other two cases because it simplifies the booleans\n    if (psychotic) {\n      result.hostname = result.host = srcPath.shift();\n      //occationaly the auth can get stuck only in host\n      //this especially happens in cases like\n      //url.resolveObject('mailto:local1@domain1', 'local2@domain2')\n      var authInHost = result.host && result.host.indexOf('@') > 0 ?\n
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result.host.split('@') : false;\n  if (authInHost) {\n  result.auth = authInHost.shift();\n  result.host =
result.hostname = authInHost.shift();\n  }\n  }\n  result.search = relative.search;\n  result.query =
relative.query;\n  //to support http.request\n  if (!util.isNull(result.pathname) || !util.isNull(result.search)) {\n
result.path = (result.pathname ? result.pathname : '') +\n  (result.search ? result.search : '');\n  }\n
result.href = result.format();\n  return result;\n  }\n\n  if (!srcPath.length) {\n  // no path at all.  easy.\n  // we've
already handled the other stuff above.\n  result.pathname = null;\n  //to support http.request\n  if (result.search)
{\n  result.path = '/' + result.search;\n  } else {\n  result.path = null;\n  }\n  result.href = result.format();\n
return result;\n  }\n\n  // if a url ENDs in . or .., then it must get a trailing slash.\n  // however, if it ends in anything
else non-slashy,\n  // then it must NOT get a trailing slash.\n  var last = srcPath.slice(-1)[0];\n  var hasTrailingSlash
= (\n  (result.host || relative.host || srcPath.length > 1) &&\n  (last === '.' || last === '..') || last === '');\n\n  // strip
single dots, resolve double dots to parent dir\n  // if the path tries to go above the root, `up` ends up > 0\n  var up =
0;\n  for (var i = srcPath.length; i >= 0; i--) {\n  last = srcPath[i];\n  if (last === '.') {\n  srcPath.splice(i, 1);\n  }
else if (last === '..') {\n  srcPath.splice(i, 1);\n  up++;\n  } else if (up) {\n  srcPath.splice(i, 1);\n  up--;\n
}\n  }\n\n  // if the path is allowed to go above the root, restore leading ..s\n  if (!mustEndAbs && !removeAllDots)
{\n  for (; up--; up) {\n  srcPath.unshift('..');\n  }\n  }\n\n  if (mustEndAbs && srcPath[0] !== '' &&\n
(!srcPath[0] || srcPath[0].charAt(0) !== '/')) {\n  srcPath.unshift('');\n  }\n\n  if (hasTrailingSlash &&
(srcPath.join('/').substr(-1) !== '/')) {\n  srcPath.push('');\n  }\n\n  var isAbsolute = srcPath[0] === '' ||\n
(srcPath[0] && srcPath[0].charAt(0) === '/');\n\n  // put the host back\n  if (psychotic) {\n  result.hostname =
result.host = isAbsolute ? '' :\n  srcPath.length ? srcPath.shift() : '';\n  //occationaly the auth
can get stuck only in host\n  //this especially happens in cases like\n  //url.resolveObject('mailto:local1@domain1',
'local2@domain2')\n  var authInHost = result.host && result.host.indexOf('@') > 0 ?\n
result.host.split('@') : false;\n  if (authInHost) {\n  result.auth = authInHost.shift();\n  result.host =
result.hostname = authInHost.shift();\n  }\n  }\n\n  mustEndAbs = mustEndAbs || (result.host &&
srcPath.length);\n\n  if (mustEndAbs && !isAbsolute) {\n  srcPath.unshift('');\n  }\n\n  if (!srcPath.length) {\n
result.pathname = null;\n  result.path = null;\n  } else {\n  result.pathname = srcPath.join('/');\n  }\n\n  //to support
request.http\n  if (!util.isNull(result.pathname) || !util.isNull(result.search)) {\n  result.path = (result.pathname ?
result.pathname : '') +\n  (result.search ? result.search : '');\n  }\n  result.auth = relative.auth || result.auth;\n
result.slashes = result.slashes || relative.slashes;\n  result.href = result.format();\n  return
result;\n};\n\nUrl.prototype.parseHost = function() {\n  var host = this.host;\n  var port = portPattern.exec(host);\n  if
(port) {\n  port = port[0];\n  if (port !== ':') {\n  this.port = port.substr(1);\n  }\n  host = host.substr(0,
host.length - port.length);\n  }\n  if (host) this.hostname = host;\n};\n","// @flow\n\nimport Reference from
'./reference/v8.json';\nimport type {StylePropertySpecification} from './style-spec.js';\nimport type {\n
StyleSpecification,\n  SourceSpecification,\n  LayerSpecification,\n  PropertyValueSpecification,\n
DataDrivenPropertyValueSpecification\n} from './types.js';\n\nfunction getPropertyReference(propertyName):
StylePropertySpecification {\n  for (let i = 0; i < Reference.layout.length; i++) {\n  for (const key in
Reference[Reference.layout[i]]) {\n  if (key === propertyName) return (Reference[Reference.layout[i]][key]:
any);\n  }\n  }\n  for (let i = 0; i < Reference.paint.length; i++) {\n  for (const key in
Reference[Reference.paint[i]]) {\n  if (key === propertyName) return (Reference[Reference.paint[i]][key]:
any);\n  }\n  }\n\n  return (null: any);\n}\n\nexport function eachSource(style: StyleSpecification, callback: (_:
SourceSpecification) => void) {\n  for (const k in style.sources) {\n  callback(style.sources[k]);\n
}\n}\n\nexport function eachLayer(style: StyleSpecification, callback: (_: LayerSpecification) => void) {\n  for
(const layer of style.layers) {\n  callback(layer);\n  }\n}\n\ntype PropertyCallback = ({\n  path: [string, 'paint' |
'layout', string], // [layerid, paint/layout, property key]\n  key: string,\n  value:
PropertyValueSpecification<mixed> | DataDrivenPropertyValueSpecification<mixed>,\n  reference:
StylePropertySpecification,\n  set: (PropertyValueSpecification<mixed> |
DataDrivenPropertyValueSpecification<mixed>) => void\n}) => void;\n\nexport function eachProperty(\n  style:
StyleSpecification,\n  options: {paint?: boolean, layout?: boolean},\n  callback: PropertyCallback\n) {\n
function inner(layer, propertyType: 'paint' | 'layout') {\n  const properties = (layer[propertyType]: any);\n  if
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(!properties) return;\n        Object.keys(properties).forEach((key) => {\n            callback({\n                path: [layer.id, propertyType, key],\n                key,\n                value: properties[key],\n                reference: getPropertyReference(key),\n                set(x) {\n                    properties[key] = x;\n                }\n            });\n        });\n    }\n\n    eachLayer(style, (layer) => {\n        if (options.paint) {\n            inner(layer, 'paint');\n        }\n        if (options.layout) {\n            inner(layer, 'layout');\n        }\n    });\n}\n","\nimport URL from 'url';\nimport {eachSource, eachLayer, eachProperty} from '../visit.js';\n\nfunction eachLayout(layer, callback) {\n    for (const k in layer) {\n        if (k.indexOf('layout') === 0) {\n            callback(layer[k], k);\n        }\n    }\n}\n\nfunction eachPaint(layer, callback) {\n    for (const k in layer) {\n        if (k.indexOf('paint') === 0) {\n            callback(layer[k], k);\n        }\n    }\n}\n\nfunction resolveConstant(style, value) {\n    if (typeof value === 'string' && value[0] === '@') {\n        return resolveConstant(style, style.constants[value]);\n    } else {\n        return value;\n    }\n}\n\nfunction isFunction(value) {\n    return Array.isArray(value.stops);\n}\n\nfunction renameProperty(obj, from, to) {\n    obj[to] = obj[from]; delete obj[from];\n}\n\nexport default function(style) {\n    style.version = 8;\n\n    // Rename properties, reverse coordinates in source and layers\n    eachSource(style, (source) => {\n        if (source.type === 'video' && source.url !== undefined) {\n            renameProperty(source, 'url', 'urls');\n        }\n        if (source.type === 'video') {\n            source.coordinates.forEach((coord) => {\n                return coord.reverse();\n            });\n        }\n    });\n\n    eachLayer(style, (layer) => {\n        eachLayout(layer, (layout) => {\n            if (layout['symbol-min-distance'] !== undefined) {\n                renameProperty(layout, 'symbol-min-distance', 'symbol-spacing');\n            }\n        });\n\n        eachPaint(layer, (paint) => {\n            if (paint['background-image'] !== undefined) {\n                renameProperty(paint, 'background-image', 'background-pattern');\n            }\n            if (paint['line-image'] !== undefined) {\n                renameProperty(paint, 'line-image', 'line-pattern');\n            }\n            if (paint['fill-image'] !== undefined) {\n                renameProperty(paint, 'fill-image', 'fill-pattern');\n            }\n        });\n    });\n\n    // Inline Constants\n    eachProperty(style, {paint: true, layout: true}, (property) => {\n        const value = resolveConstant(style, property.value);\n\n        if (isFunction(value)) {\n            value.stops.forEach((stop) => {\n                stop[1] = resolveConstant(style, stop[1]);\n            });\n        }\n\n        property.set(value);\n    });\n    delete style.constants;\n\n    eachLayer(style, (layer) => {\n        // get rid of text-max-size, icon-max-size\n        // turn text-size, icon-size into layout properties\n        // https://github.com/mapbox/mapbox-gl-style-spec/issues/255\n\n        eachLayout(layer, (layout) => {\n            delete layout['text-max-size'];\n            delete layout['icon-max-size'];\n        });\n\n        eachPaint(layer, (paint) => {\n            if (paint['text-size']) {\n                if (!layer.layout) layer.layout = {};\n                layer.layout['text-size'] = paint['text-size'];\n                delete paint['text-size'];\n            }\n\n            if (paint['icon-size']) {\n                if (!layer.layout) layer.layout = {};\n                layer.layout['icon-size'] = paint['icon-size'];\n                delete paint['icon-size'];\n            }\n        });\n    });\n\n    function migrateFontstackURL(input) {\n        const inputParsed = URL.parse(input);\n        const inputPathnameParts = inputParsed.pathname.split('/');\n\n        if (inputParsed.protocol !== 'mapbox:') {\n            return input;\n\n        } else if (inputParsed.hostname === 'fontstack') {\n            assert(decodeURI(inputParsed.pathname) === '/{fontstack}/{range}.pbf');\n            return 'mapbox://fonts/mapbox/{fontstack}/{range}.pbf';\n\n        } else if (inputParsed.hostname === 'fonts') {\n            assert(inputPathnameParts[1] === 'v1');\n            assert(decodeURI(inputPathnameParts[3]) === '{fontstack}');\n            assert(decodeURI(inputPathnameParts[4]) === '{range}.pbf');\n            return `mapbox://fonts/${inputPathnameParts[2]}/{fontstack}/{range}.pbf`;\n\n        } else {\n            assert(false);\n        }\n\n        function assert(predicate) {\n            if (!predicate) {\n                throw new Error(`Invalid font url: \"${input}\"`);\n            }\n        }\n    }\n\n    if (style.glyphs) {\n        style.glyphs = migrateFontstackURL(style.glyphs);\n    }\n\n    function migrateFontStack(font) {\n        function splitAndTrim(string) {\n            return string.split(',').map((s) => {\n                return s.trim();\n            });\n        }\n\n        if (Array.isArray(font)) {\n            // Assume it's a previously migrated font-array.\n            return font;\n\n        } else if (typeof font === 'string') {\n            return splitAndTrim(font);\n\n        } else if (typeof font === 'object') {\n            font.stops.forEach((stop) => {\n                stop[1] = splitAndTrim(stop[1]);\n            });\n            return font;\n\n        } else {\n            throw new Error(\"unexpected font value\");\n        }\n    }\n\n    eachLayer(style, (layer) => {\n        eachLayout(layer, (layout) => {\n            if (layout['text-font']) {\n
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layout['text-font'] = migrateFontStack(layout['text-font']);\n }\n });\n });\n\n // Reverse order of symbol layers. This is an imperfect migration.\n //\n // The order of a symbol layer in the layers list affects two things:\n // - how it is drawn relative to other layers (like oneway arrows below bridges)\n // - the placement priority compared to other layers\n //\n // It's impossible to reverse the placement priority without breaking the draw order\n // in some cases. This migration only reverses the order of symbol layers that\n // are above all other types of layers.\n //\n // Symbol layers that are at the top of the map preserve their priority.\n // Symbol layers that are below another type (line, fill) of layer preserve their draw order.\n\n let firstSymbolLayer = 0;\n for (let i = style.layers.length - 1; i >= 0; i--) {\n const layer = style.layers[i];\n if (layer.type !== 'symbol') {\n firstSymbolLayer = i + 1;\n break;\n }\n }\n\n const symbolLayers = style.layers.splice(firstSymbolLayer);\n symbolLayers.reverse();\n style.layers = style.layers.concat(symbolLayers);\n\n return style;\n}\n","// @flow\n\nexport default function (output: any, ...inputs: Array<any>): any {\n for (const input of inputs) {\n for (const k in input) {\n output[k] = input[k];\n }\n }\n return output;\n}\n","// @flow\n\nclass ParsingError extends Error {\n key: string;\n message: string;\n constructor(key: string, message: string) {\n super(message);\n this.message = message;\n this.key = key;\n }\n}\n\nexport default ParsingError;\n","// @flow\n\nimport type {Expression} from './expression.js';\n\n/**\n * Tracks `let` bindings during expression parsing.\n * @private\n */\nclass Scope {\n parent: ?Scope;\n bindings: {[_: string]: Expression};\n constructor(parent?: Scope, bindings: Array<[string, Expression]> = []) {\n this.parent = parent;\n this.bindings = {};\n for (const [name, expression] of bindings) {\n this.bindings[name] = expression;\n }\n }\n\n concat(bindings: Array<[string, Expression]>): Scope {\n return new Scope(this, bindings);\n }\n\n get(name: string): Expression {\n if (this.bindings[name]) { return this.bindings[name]; }\n if (this.parent) { return this.parent.get(name); }\n throw new Error(`${name} not found in scope.`);\n }\n\n has(name: string): boolean {\n if (this.bindings[name]) return true;\n return this.parent ? this.parent.has(name) : false;\n }\n}\n\nexport default Scope;\n","// @flow\n\nexport type NullTypeT = { kind: 'null' };\nexport type NumberTypeT = { kind: 'number' };\nexport type StringTypeT = { kind: 'string' };\nexport type BooleanTypeT = { kind: 'boolean' };\nexport type ColorTypeT = { kind: 'color' };\nexport type ObjectTypeT = { kind: 'object' };\nexport type ValueTypeT = { kind: 'value' };\nexport type ErrorTypeT = { kind: 'error' };\nexport type CollatorTypeT = { kind: 'collator' };\nexport type FormattedTypeT = { kind: 'formatted' };\nexport type ResolvedImageTypeT = { kind: 'resolvedImage' };\n\nexport type EvaluationKind = 'constant' | 'source' | 'camera' | 'composite';\n\nexport type Type =\n NullTypeT |\n NumberTypeT |\n StringTypeT |\n BooleanTypeT |\n ColorTypeT |\n ObjectTypeT |\n ValueTypeT |\n ArrayType | // eslint-disable-line no-use-before-define\n ErrorTypeT |\n CollatorTypeT |\n FormattedTypeT |\n ResolvedImageTypeT\n\nexport type ArrayType = {\n kind: 'array',\n itemType: Type,\n N: ?number\n}\n\nexport type NativeType = 'number' | 'string' | 'boolean' | 'null' | 'array' | 'object'\n\nexport const NullType = {kind: 'null'};\nexport const NumberType = {kind: 'number'};\nexport const StringType = {kind: 'string'};\nexport const BooleanType = {kind: 'boolean'};\nexport const ColorType = {kind: 'color'};\nexport const ObjectType = {kind: 'object'};\nexport const ValueType = {kind: 'value'};\nexport const ErrorType = {kind: 'error'};\nexport const CollatorType = {kind: 'collator'};\nexport const FormattedType = {kind: 'formatted'};\nexport const ResolvedImageType = {kind: 'resolvedImage'};\n\nexport function array(itemType: Type, N: ?number): ArrayType {\n return {\n kind: 'array',\n itemType,\n N\n };\n}\n\nexport function toString(type: Type): string {\n if (type.kind === 'array') {\n const itemType = toString(type.itemType);\n return typeof type.N === 'number' ?\n `array<${itemType}, ${type.N}>` :\n type.itemType.kind === 'value' ? 'array' : `array<${itemType}>`;\n } else {\n return type.kind;\n }\n}\n\nconst valueMemberTypes = [\n NullType,\n NumberType,\n StringType,\n BooleanType,\n ColorType,\n FormattedType,\n ObjectType,\n array(ValueType),\n ResolvedImageType\n];\n\n/**\n * Returns null if `t` is a subtype of `expected`; otherwise returns an\n * error message.\n * @private\n */\nexport function checkSubtype(expected: Type, t: Type): ?string {\n if (t.kind === 'error') {\n // Error is a subtype of every type\n return null;\n } else if (expected.kind === 'array') {\n if (t.kind === 'array' &&\n ((t.N === 0 && t.itemType.kind === 'value') || !checkSubtype(expected.itemType, t.itemType)) &&\n (typeof expected.N !== 'number' ||

expected.N === t.N)) {\n return null;\n }\n } else if (expected.kind === t.kind) {\n return null;\n } else if (expected.kind === 'value') {\n for (const memberType of valueMemberTypes) {\n if (!checkSubtype(memberType, t)) {\n return null;\n }\n }\n }\n\n return `Expected ${toString(expected)} but found ${toString(t)} instead.`;\n}\n\nexport function isValidType(provided: Type, allowedTypes: Array<Type>): boolean {\n return allowedTypes.some(t => t.kind === provided.kind);\n}\n\nexport function isValidNativeType(provided: any, allowedTypes: Array<NativeType>): boolean {\n return allowedTypes.some(t => {\n if (t === 'null') {\n return provided === null;\n } else if (t === 'array') {\n return Array.isArray(provided);\n } else if (t === 'object') {\n return provided && !Array.isArray(provided) && typeof provided === 'object';\n } else {\n return t === typeof provided;\n }\n });\n}\n","// (c) Dean McNamee <dean@gmail.com>, 2012.\n//\n// https://github.com/deanm/css-color-parser-js\n//\n// Permission is hereby granted, free of charge, to any person obtaining a copy\n// of this software and associated documentation files (the \"Software\"), to\n// deal in the Software without restriction, including without limitation the\n// rights to use, copy, modify, merge, publish, distribute, sublicense, and/or\n// sell copies of the Software, and to permit persons to whom the Software is\n// furnished to do so, subject to the following conditions:\n//\n// The above copyright notice and this permission notice shall be included in\n// all copies or substantial portions of the Software.\n//\n// THE SOFTWARE IS PROVIDED \"AS IS\", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR\n// IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,\n// FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE\n// AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER\n// LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING\n// FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS\n// IN THE SOFTWARE.\n\n// http://www.w3.org/TR/css3-color/\nvar kCSSColorTable = {\n \"transparent\": [0,0,0,0], \"aliceblue\": [240,248,255,1],\n \"antiquewhite\": [250,235,215,1], \"aqua\": [0,255,255,1],\n \"aquamarine\": [127,255,212,1], \"azure\": [240,255,255,1],\n \"beige\": [245,245,220,1], \"bisque\": [255,228,196,1],\n \"black\": [0,0,0,1], \"blanchedalmond\": [255,235,205,1],\n \"blue\": [0,0,255,1], \"blueviolet\": [138,43,226,1],\n \"brown\": [165,42,42,1], \"burlywood\": [222,184,135,1],\n \"cadetblue\": [95,158,160,1], \"chartreuse\": [127,255,0,1],\n \"chocolate\": [210,105,30,1], \"coral\": [255,127,80,1],\n \"cornflowerblue\": [100,149,237,1], \"cornsilk\": [255,248,220,1],\n \"crimson\": [220,20,60,1], \"cyan\": [0,255,255,1],\n \"darkblue\": [0,0,139,1], \"darkcyan\": [0,139,139,1],\n \"darkgoldenrod\": [184,134,11,1], \"darkgray\": [169,169,169,1],\n \"darkgreen\": [0,100,0,1], \"darkgrey\": [169,169,169,1],\n \"darkkhaki\": [189,183,107,1], \"darkmagenta\": [139,0,139,1],\n \"darkolivegreen\": [85,107,47,1], \"darkorange\": [255,140,0,1],\n \"darkorchid\": [153,50,204,1], \"darkred\": [139,0,0,1],\n \"darksalmon\": [233,150,122,1], \"darkseagreen\": [143,188,143,1],\n \"darkslateblue\": [72,61,139,1], \"darkslategray\": [47,79,79,1],\n \"darkslategrey\": [47,79,79,1], \"darkturquoise\": [0,206,209,1],\n \"darkviolet\": [148,0,211,1], \"deeppink\": [255,20,147,1],\n \"deepskyblue\": [0,191,255,1], \"dimgray\": [105,105,105,1],\n \"dimgrey\": [105,105,105,1], \"dodgerblue\": [30,144,255,1],\n \"firebrick\": [178,34,34,1], \"floralwhite\": [255,250,240,1],\n \"forestgreen\": [34,139,34,1], \"fuchsia\": [255,0,255,1],\n \"gainsboro\": [220,220,220,1], \"ghostwhite\": [248,248,255,1],\n \"gold\": [255,215,0,1], \"goldenrod\": [218,165,32,1],\n \"gray\": [128,128,128,1], \"green\": [0,128,0,1],\n \"greenyellow\": [173,255,47,1], \"grey\": [128,128,128,1],\n \"honeydew\": [240,255,240,1], \"hotpink\": [255,105,180,1],\n \"indianred\": [205,92,92,1], \"indigo\": [75,0,130,1],\n \"ivory\": [255,255,240,1], \"khaki\": [240,230,140,1],\n \"lavender\": [230,230,250,1], \"lavenderblush\": [255,240,245,1],\n \"lawngreen\": [124,252,0,1], \"lemonchiffon\": [255,250,205,1],\n \"lightblue\": [173,216,230,1], \"lightcoral\": [240,128,128,1],\n \"lightcyan\": [224,255,255,1], \"lightgoldenrodyellow\": [250,250,210,1],\n \"lightgray\": [211,211,211,1], \"lightgreen\": [144,238,144,1],\n \"lightgrey\": [211,211,211,1], \"lightpink\": [255,182,193,1],\n \"lightsalmon\": [255,160,122,1], \"lightseagreen\": [32,178,170,1],\n \"lightskyblue\": [135,206,250,1], \"lightslategray\": [119,136,153,1],\n \"lightslategrey\": [119,136,153,1], \"lightsteelblue\": [176,196,222,1],\n \"lightyellow\": [255,255,224,1], \"lime\": [0,255,0,1],\n \"limegreen\": [50,205,50,1], \"linen\": [250,240,230,1],\n \"magenta\": [255,0,255,1], \"maroon\": [128,0,0,1],\n

\"mediumaquamarine\": [102,205,170,1], \"mediumblue\": [0,0,205,1],\n \"mediumorchid\": [186,85,211,1], \"mediumpurple\": [147,112,219,1],\n \"mediumseagreen\": [60,179,113,1], \"mediumslateblue\": [123,104,238,1],\n \"mediumspringgreen\": [0,250,154,1], \"mediumturquoise\": [72,209,204,1],\n \"mediumvioletred\": [199,21,133,1], \"midnightblue\": [25,25,112,1],\n \"mintcream\": [245,255,250,1], \"mistyrose\": [255,228,225,1],\n \"moccasin\": [255,228,181,1], \"navajowhite\": [255,222,173,1],\n \"navy\": [0,0,128,1], \"oldlace\": [253,245,230,1],\n \"olive\": [128,128,0,1], \"olivedrab\": [107,142,35,1],\n \"orange\": [255,165,0,1], \"orangered\": [255,69,0,1],\n \"orchid\": [218,112,214,1], \"palegoldenrod\": [238,232,170,1],\n \"palegreen\": [152,251,152,1], \"paleturquoise\": [175,238,238,1],\n \"palevioletred\": [219,112,147,1], \"papayawhip\": [255,239,213,1],\n \"peachpuff\": [255,218,185,1], \"peru\": [205,133,63,1],\n \"pink\": [255,192,203,1], \"plum\": [221,160,221,1],\n \"powderblue\": [176,224,230,1], \"purple\": [128,0,128,1],\n \"rebeccapurple\": [102,51,153,1],\n \"red\": [255,0,0,1], \"rosybrown\": [188,143,143,1],\n \"royalblue\": [65,105,225,1], \"saddlebrown\": [139,69,19,1],\n \"salmon\": [250,128,114,1], \"sandybrown\": [244,164,96,1],\n \"seagreen\": [46,139,87,1], \"seashell\": [255,245,238,1],\n \"sienna\": [160,82,45,1], \"silver\": [192,192,192,1],\n \"skyblue\": [135,206,235,1], \"slateblue\": [106,90,205,1],\n \"slategray\": [112,128,144,1], \"slategrey\": [112,128,144,1],\n \"snow\": [255,250,250,1], \"springgreen\": [0,255,127,1],\n \"steelblue\": [70,130,180,1], \"tan\": [210,180,140,1],\n \"teal\": [0,128,128,1], \"thistle\": [216,191,216,1],\n \"tomato\": [255,99,71,1], \"turquoise\": [64,224,208,1],\n \"violet\": [238,130,238,1], \"wheat\": [245,222,179,1],\n \"white\": [255,255,255,1], \"whitesmoke\": [245,245,245,1],\n \"yellow\": [255,255,0,1], \"yellowgreen\": [154,205,50,1]}\n\nfunction clamp_css_byte(i) { // Clamp to integer 0 .. 255.\n i = Math.round(i); // Seems to be what Chrome does (vs truncation).\n return i < 0 ? 0 : i > 255 ? 255 : i;\n}\n\nfunction clamp_css_float(f) { // Clamp to float 0.0 .. 1.0.\n return f < 0 ? 0 : f > 1 ? 1 : f;\n}\n\nfunction parse_css_int(str) { // int or percentage.\n if (str[str.length - 1] === '%')\n return clamp_css_byte(parseFloat(str) / 100 * 255);\n return clamp_css_byte(parseInt(str));\n}\n\nfunction parse_css_float(str) { // float or percentage.\n if (str[str.length - 1] === '%')\n return clamp_css_float(parseFloat(str) / 100);\n return clamp_css_float(parseFloat(str));\n}\n\nfunction css_hue_to_rgb(m1, m2, h) {\n if (h < 0) h += 1;\n else if (h > 1) h -= 1;\n\n if (h * 6 < 1) return m1 + (m2 - m1) * h * 6;\n if (h * 2 < 1) return m2;\n if (h * 3 < 2) return m1 + (m2 - m1) * (2/3 - h) * 6;\n return m1;\n}\n\nfunction parseCSSColor(css_str) {\n // Remove all whitespace, not compliant, but should just be more accepting.\n var str = css_str.replace(/ /g, '').toLowerCase();\n\n // Color keywords (and transparent) lookup.\n if (str in kCSSColorTable) return kCSSColorTable[str].slice(); // dup.\n\n // #abc and #abc123 syntax.\n if (str[0] === '#') {\n if (str.length === 4) {\n var iv = parseInt(str.substr(1), 16); // TODO(deanm): Stricter parsing.\n if (!(iv >= 0 && iv <= 0xfff)) return null; // Covers NaN.\n return [((iv & 0xf00) >> 4) | ((iv & 0xf00) >> 8),\n (iv & 0xf0) | ((iv & 0xf0) >> 4),\n (iv & 0xf) | ((iv & 0xf) << 4),\n 1];\n } else if (str.length === 7) {\n var iv = parseInt(str.substr(1), 16); // TODO(deanm): Stricter parsing.\n if (!(iv >= 0 && iv <= 0xffffff)) return null; // Covers NaN.\n return [(iv & 0xff0000) >> 16,\n (iv & 0xff00) >> 8,\n iv & 0xff,\n 1];\n }\n\n return null;\n }\n\n var op = str.indexOf('('), ep = str.indexOf(')');\n if (op !== -1 && ep + 1 === str.length) {\n var fname = str.substr(0, op);\n var params = str.substr(op+1, ep-(op+1)).split(',');\n var alpha = 1; // To allow case fallthrough.\n switch (fname) {\n case 'rgba':\n if (params.length !== 4) return null;\n alpha = parse_css_float(params.pop());\n // Fall through.\n case 'rgb':\n if (params.length !== 3) return null;\n return [parse_css_int(params[0]),\n parse_css_int(params[1]),\n parse_css_int(params[2]),\n alpha];\n case 'hsla':\n if (params.length !== 4) return null;\n alpha = parse_css_float(params.pop());\n // Fall through.\n case 'hsl':\n if (params.length !== 3) return null;\n var h = (((parseFloat(params[0]) % 360) + 360) % 360) / 360; // 0 .. 1\n // NOTE(deanm): According to the CSS spec s/l should only be\n // percentages, but we don't bother and let float or percentage.\n var s = parse_css_float(params[1]);\n var l = parse_css_float(params[2]);\n var m2 = l <= 0.5 ? l * (s + 1) : l + s - l * s;\n var m1 = l * 2 - m2;\n return [clamp_css_byte(css_hue_to_rgb(m1, m2, h+1/3) * 255),\n clamp_css_byte(css_hue_to_rgb(m1, m2, h) * 255),\n clamp_css_byte(css_hue_to_rgb(m1, m2, h-1/3) * 255),\n alpha];\n default:\n return null;\n }\n }\n\n return null;\n}\n\ntry { exports.parseCSSColor = parseCSSColor } catch(e) { }\n","// @flow\n\nimport {parseCSSColor} from

'csscolorparser';\n\n/**\n * An RGBA color value. Create instances from color strings using the static\n * method `Color.parse`. The constructor accepts RGB channel values in the range\n * `[0, 1]`, premultiplied by A.\n *\n * @param {number} r The red channel.\n * @param {number} g The green channel.\n * @param {number} b The blue channel.\n * @param {number} a The alpha channel.\n * @private\n */\nclass Color {\n r: number;\n g: number;\n b: number;\n a: number;\n\n constructor(r: number, g: number, b: number, a: number = 1) {\n this.r = r;\n this.g = g;\n this.b = b;\n this.a = a;\n }\n\n static black: Color;\n static white: Color;\n static transparent: Color;\n static red: Color;\n static blue: Color;\n\n /**\n * Parses valid CSS color strings and returns a `Color` instance.\n * @returns A `Color` instance, or `undefined` if the input is not a valid color string.\n */\n static parse(input?: string | Color | null): Color | void {\n if (!input) {\n return undefined;\n }\n\n if (input instanceof Color) {\n return input;\n }\n\n if (typeof input !== 'string') {\n return undefined;\n }\n\n const rgba = parseCSSColor(input);\n if (!rgba) {\n return undefined;\n }\n\n return new Color(\n rgba[0] / 255 * rgba[3],\n rgba[1] / 255 * rgba[3],\n rgba[2] / 255 * rgba[3],\n rgba[3]\n);\n }\n\n /**\n * Returns an RGBA string representing the color value.\n *\n * @returns An RGBA string.\n * @example\n * var purple = new Color.parse('purple');\n * purple.toString; // = \"rgba(128,0,128,1)\"\n * var translucentGreen = new Color.parse('rgba(26, 207, 26, .73)');\n * translucentGreen.toString(); // = \"rgba(26,207,26,0.73)\"\n */\n toString(): string {\n const [r, g, b, a] = this.toArray();\n return `rgba(${Math.round(r)},${Math.round(g)},${Math.round(b)},${a})`;\n }\n\n /**\n * Returns an RGBA array of values representing the color, unpremultiplied by A.\n *\n * @returns An array of RGBA color values in the range [0, 255].\n */\n toArray(): [number, number, number, number] {\n const {r, g, b, a} = this;\n return a === 0 ? [0, 0, 0, 0] : [\n r * 255 / a,\n g * 255 / a,\n b * 255 / a,\n a\n];\n }\n\n /**\n * Returns a RGBA array of float values representing the color, unpremultiplied by A.\n *\n * @returns An array of RGBA color values in the range [0, 1].\n */\n toArray01(): [number, number, number, number] {\n const {r, g, b, a} = this;\n return a === 0 ? [0, 0, 0, 0] : [\n r / a,\n g / a,\n b / a,\n a\n];\n }\n\n /**\n * Returns an RGBA array of values representing the color, premultiplied by A.\n *\n * @returns An array of RGBA color values in the range [0, 1].\n */\n toArray01PremultipliedAlpha(): [number, number, number, number] {\n const {r, g, b, a} = this;\n return [\n r,\n g,\n b,\n a\n];\n }\n}\n\nColor.black = new Color(0, 0, 0, 1);\nColor.white = new Color(1, 1, 1, 1);\nColor.transparent = new Color(0, 0, 0, 0);\nColor.red = new Color(1, 0, 0, 1);\nColor.blue = new Color(0, 0, 1, 1);\n\nexport default Color;\n","// @flow\n\n// Flow type declarations for Intl cribbed from\n// https://github.com/facebook/flow/issues/1270\n\ndeclare var Intl: {\n Collator: Class<Intl$Collator>\n};\n\ndeclare class Intl$Collator {\n constructor (\n locales?: string | string[],\n options?: CollatorOptions\n): Intl$Collator;\n\n static (\n locales?: string | string[],\n options?: CollatorOptions\n): Intl$Collator;\n\n compare (a: string, b: string): number;\n\n resolvedOptions(): any;\n}\n\ntype CollatorOptions = {\n localeMatcher?: 'lookup' | 'best fit',\n usage?: 'sort' | 'search',\n sensitivity?: 'base' | 'accent' | 'case' | 'variant',\n ignorePunctuation?: boolean,\n numeric?: boolean,\n caseFirst?: 'upper' | 'lower' | 'false'\n}\n\nexport default class Collator {\n locale: string | null;\n sensitivity: 'base' | 'accent' | 'case' | 'variant';\n collator: Intl$Collator;\n\n constructor(caseSensitive: boolean, diacriticSensitive: boolean, locale: string | null) {\n if (caseSensitive)\n this.sensitivity = diacriticSensitive ? 'variant' : 'case';\n else\n this.sensitivity = diacriticSensitive ? 'accent' : 'base';\n\n this.locale = locale;\n this.collator = new Intl.Collator(this.locale ? this.locale : [],\n {sensitivity: this.sensitivity, usage: 'search'});\n }\n\n compare(lhs: string, rhs: string): number {\n return this.collator.compare(lhs, rhs);\n }\n\n resolvedLocale(): string {\n // We create a Collator without \"usage: search\" because we don't want\n // the search options encoded in our result (e.g. \"en-u-co-search\")\n return new Intl.Collator(this.locale ? this.locale : [])\n .resolvedOptions().locale;\n }\n}\n","// @flow\nimport type Color from '../../util/color.js';\nimport type ResolvedImage from '../types/resolved_image.js';\n\nexport class FormattedSection {\n text: string;\n image: ResolvedImage | null;\n scale: number | null;\n fontStack: string | null;\n textColor: Color | null;\n\n constructor(text: string, image: ResolvedImage | null, scale: number | null, fontStack: string | null, textColor: Color |

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null) {\n        // combine characters so that diacritic marks are not separate code points\n        this.text = text.normalize ? text.normalize() : text;\n        this.image = image;\n        this.scale = scale;\n        this.fontStack = fontStack;\n        this.textColor = textColor;\n    }\n}\n\nexport default class Formatted {\n    sections: Array<FormattedSection>;\n\n    constructor(sections: Array<FormattedSection>) {\n        this.sections = sections;\n    }\n\n    static fromString(unformatted: string): Formatted {\n        return new Formatted([new FormattedSection(unformatted, null, null, null, null)]);\n    }\n\n    isEmpty(): boolean {\n        if (this.sections.length === 0) return true;\n        return !this.sections.some(section => section.text.length !== 0 ||\n            (section.image && section.image.name.length !== 0));\n    }\n\n    static factory(text: Formatted | string): Formatted {\n        if (text instanceof Formatted) {\n            return text;\n        } else {\n            return Formatted.fromString(text);\n        }\n    }\n\n    toString(): string {\n        if (this.sections.length === 0) return '';\n        return this.sections.map(section => section.text).join('');\n    }\n\n    serialize(): Array<mixed> {\n        const serialized: Array<mixed> = [\"format\"];\n        for (const section of this.sections) {\n            if (section.image) {\n                serialized.push([\"image\", section.image.name]);\n                continue;\n            }\n            serialized.push(section.text);\n            const options: { [key: string]: mixed } = {};\n            if (section.fontStack) {\n                options[\"text-font\"] = [\"literal\", section.fontStack.split(',')];\n            }\n            if (section.scale) {\n                options[\"font-scale\"] = section.scale;\n            }\n            if (section.textColor) {\n                options[\"text-color\"] = ([\"rgba\"]: Array<mixed>).concat(section.textColor.toArray());\n            }\n            serialized.push(options);\n        }\n        return serialized;\n    }\n}\n","// @flow\n\nexport type ResolvedImageOptions = {\n    name: string,\n    available: boolean\n};\n\nexport default class ResolvedImage {\n    name: string;\n    available: boolean;\n\n    constructor(options: ResolvedImageOptions) {\n        this.name = options.name;\n        this.available = options.available;\n    }\n\n    toString(): string {\n        return this.name;\n    }\n\n    static fromString(name: string): ResolvedImage | null {\n        if (!name) return null; // treat empty values as no image\n        return new ResolvedImage({name, available: false});\n    }\n\n    serialize(): Array<string> {\n        return [\"image\", this.name];\n    }\n}\n","// @flow\n\nimport assert from 'assert';\n\nimport Color from '../util/color.js';\nimport Collator from './types/collator.js';\nimport Formatted from './types/formatted.js';\nimport ResolvedImage from './types/resolved_image.js';\nimport {NullType, NumberType, StringType, BooleanType, ColorType, ObjectType, ValueType, CollatorType, FormattedType, ResolvedImageType, array} from './types.js';\n\nimport type {Type} from './types.js';\n\nexport function validateRGBA(r: mixed, g: mixed, b: mixed, a?: mixed): string | null {\n    if (!(\n        typeof r === 'number' && r >= 0 && r <= 255 &&\n        typeof g === 'number' && g >= 0 && g <= 255 &&\n        typeof b === 'number' && b >= 0 && b <= 255\n    )) {\n        const value = typeof a === 'number' ? [r, g, b, a] : [r, g, b];\n        return `Invalid rgba value [${value.join(', ')}]: 'r', 'g', and 'b' must be between 0 and 255.`;\n    }\n\n    if (!(\n        typeof a === 'undefined' || (typeof a === 'number' && a >= 0 && a <= 1)\n    )) {\n        return `Invalid rgba value [${[r, g, b, a].join(', ')}]: 'a' must be between 0 and 1.`;\n    }\n\n    return null;\n}\n\nexport type Value = null | string | boolean | number | Color | Collator | Formatted | ResolvedImage | $ReadOnlyArray<Value> | { +[string]: Value }\n\nexport function isValue(mixed: mixed): boolean {\n    if (mixed === null) {\n        return true;\n    } else if (typeof mixed === 'string') {\n        return true;\n    } else if (typeof mixed === 'boolean') {\n        return true;\n    } else if (typeof mixed === 'number') {\n        return true;\n    } else if (mixed instanceof Color) {\n        return true;\n    } else if (mixed instanceof Collator) {\n        return true;\n    } else if (mixed instanceof Formatted) {\n        return true;\n    } else if (mixed instanceof ResolvedImage) {\n        return true;\n    } else if (Array.isArray(mixed)) {\n        for (const item of mixed) {\n            if (!isValue(item)) {\n                return false;\n            }\n        }\n        return true;\n    } else if (typeof mixed === 'object') {\n        for (const key in mixed) {\n            if (!isValue(mixed[key])) {\n                return false;\n            }\n        }\n        return true;\n    } else {\n        return false;\n    }\n}\n\nexport function typeOf(value: Value): Type {\n    if (value === null) {\n        return NullType;\n    } else if (typeof value === 'string') {\n        return StringType;\n    } else if (typeof value === 'boolean') {\n        return BooleanType;\n    } else if (typeof value === 'number') {\n        return NumberType;\n    } else if (value instanceof Color) {\n        return ColorType;\n    } else if (value instanceof Collator) {\n        return CollatorType;\n    } else if (value instanceof Formatted) {\n        return FormattedType;\n    } else if (value instanceof ResolvedImage) {\n        return ResolvedImageType;\n    } else if (Array.isArray(value)) {\n        const
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length = value.length;\n        let itemType: Type | typeof undefined;\n\n        for (const item of value) {\n
const t = typeOf(item);\n            if (!itemType) {\n                itemType = t;\n            } else if (itemType === t) {\n
        continue;\n            } else {\n                itemType = ValueType;\n                break;\n            }\n        }\n\n
return array(itemType || ValueType, length);\n    } else {\n        assert(typeof value === 'object');\n        return
ObjectType;\n    }\n}\n\nexport function toString(value: Value): string {\n    const type = typeof value;\n    if (value
=== null) {\n        return '';\n    } else if (type === 'string' || type === 'number' || type === 'boolean') {\n        return
String(value);\n    } else if (value instanceof Color || value instanceof Formatted || value instanceof ResolvedImage)
{\n        return value.toString();\n    } else {\n        return JSON.stringify(value);\n    }\n}\n\nexport {Color,
Collator};\n","// @flow\n\nimport assert from 'assert';\nimport {isValue, typeOf, Color} from '../values.js';\nimport
Formatted from '../types/formatted.js';\n\nimport type {Type} from '../types.js';\nimport type {Value}  from
'../values.js';\nimport type {Expression, SerializedExpression} from '../expression.js';\nimport type ParsingContext
from '../parsing_context.js';\n\nclass Literal implements Expression {\n    type: Type;\n    value: Value;\n\n
constructor(type: Type, value: Value) {\n        this.type = type;\n        this.value = value;\n    }\n\n    static parse(args:
$ReadOnlyArray<mixed>, context: ParsingContext): void | Literal {\n        if (args.length !== 2)\n            return
context.error(`'literal' expression requires exactly one argument, but found ${args.length - 1} instead.`);\n\n        if
(!isValue(args[1]))\n            return context.error(`invalid value`);\n\n        const value = (args[1]: any);\n        let type
= typeOf(value);\n\n        // special case: infer the item type if possible for zero-length arrays\n        const expected =
context.expectedType;\n        if (\n            type.kind === 'array' &&\n            type.N === 0 &&\n            expected
&&\n            expected.kind === 'array' &&\n            (typeof expected.N !== 'number' || expected.N === 0)\n        )
{\n            type = expected;\n        }\n\n        return new Literal(type, value);\n    }\n\n    evaluate(): Value {\n
return this.value;\n    }\n\n    eachChild() {}\n\n    outputDefined(): boolean {\n        return true;\n    }\n\n
serialize(): SerializedExpression {\n        if (this.type.kind === 'array' || this.type.kind === 'object') {\n            return
[\"literal\", this.value];\n        } else if (this.value instanceof Color) {\n            // Constant-folding can generate
Literal expressions that you\n            // couldn't actually generate with a \"literal\" expression,\n            // so we have
to implement an equivalent serialization here\n            return [\"rgba\"].concat(this.value.toArray());\n        } else if
(this.value instanceof Formatted) {\n            // Same as Color\n            return this.value.serialize();\n        } else {\n
    assert(this.value === null ||\n                typeof this.value === 'string' ||\n                typeof this.value === 'number'
||\n                typeof this.value === 'boolean');\n            return (this.value: any);\n        }\n    }\n}\n\nexport default
Literal;\n","// @flow\n\nclass RuntimeError {\n    name: string;\n    message: string;\n\n    constructor(message:
string) {\n        this.name = 'ExpressionEvaluationError';\n        this.message = message;\n    }\n\n    toJSON(): string
{\n        return this.message;\n    }\n}\n\nexport default RuntimeError;\n","// @flow\n\nimport assert from
'assert';\n\nimport {\n    ObjectType,\n    ValueType,\n    StringType,\n    NumberType,\n    BooleanType,\n
checkSubtype,\n    toString,\n    array\n} from '../types.js';\nimport RuntimeError from '../runtime_error.js';\nimport
{typeOf} from '../values.js';\n\nimport type {Expression, SerializedExpression} from '../expression.js';\nimport type
ParsingContext from '../parsing_context.js';\nimport type EvaluationContext from '../evaluation_context.js';\nimport
type {Type} from '../types.js';\n\nconst types = {\n    string: StringType,\n    number: NumberType,\n    boolean:
BooleanType,\n    object: ObjectType\n};\n\nclass Assertion implements Expression {\n    type: Type;\n    args:
Array<Expression>;\n\n    constructor(type: Type, args: Array<Expression>) {\n        this.type = type;\n
this.args = args;\n    }\n\n    static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?Expression {\n
    if (args.length < 2)\n            return context.error(`Expected at least one argument.`);\n\n        let i = 1;\n        let
type;\n\n        const name: string = (args[0]: any);\n        if (name === 'array') {\n            let itemType;\n            if
(args.length > 2) {\n                const type = args[1];\n                if (typeof type !== 'string' || !(type in types) || type
=== 'object')\n                    return context.error('The item type argument of \"array\" must be one of string, number,
boolean', 1);\n                itemType = types[type];\n                i++;\n            } else {\n                itemType =
ValueType;\n            }\n\n            let N;\n            if (args.length > 3) {\n                if (args[2] !== null &&\n
  (typeof args[2] !== 'number' ||\n                    args[2] < 0 ||\n                    args[2] !== Math.floor(args[2]))\n
        ) {\n                    return context.error('The length argument to \"array\" must be a positive integer literal', 2);\n
        }\n                N = args[2];\n                i++;\n            }\n\n            type = array(itemType, N);\n        } else {\n
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    assert(types[name], name);\n            type = types[name];\n        }\n\n        const parsed = [];\n        for (; i < args.length; i++) {\n            const input = context.parse(args[i], i, ValueType);\n            if (!input) return null;\n            parsed.push(input);\n        }\n\n        return new Assertion(type, parsed);\n    }\n\n    evaluate(ctx: EvaluationContext): any | null {\n        for (let i = 0; i < this.args.length; i++) {\n            const value = this.args[i].evaluate(ctx);\n            const error = checkSubtype(this.type, typeOf(value));\n            if (!error) {\n                return value;\n            } else if (i === this.args.length - 1) {\n                throw new RuntimeError(`Expected value to be of type ${toString(this.type)}, but found ${toString(typeOf(value))} instead.`);\n            }\n        }\n\n        assert(false);\n        return null;\n    }\n\n    eachChild(fn: (_: Expression) => void) {\n        this.args.forEach(fn);\n    }\n\n    outputDefined(): boolean {\n        return this.args.every(arg => arg.outputDefined());\n    }\n\n    serialize(): SerializedExpression {\n        const type = this.type;\n        const serialized = [type.kind];\n        if (type.kind === 'array') {\n            const itemType = type.itemType;\n            if (itemType.kind === 'string' ||\n                itemType.kind === 'number' ||\n                itemType.kind === 'boolean') {\n                serialized.push(itemType.kind);\n                const N = type.N;\n                if (typeof N === 'number' || this.args.length > 1) {\n                    serialized.push(N);\n                }\n            }\n        }\n        return serialized.concat(this.args.map(arg => arg.serialize()));\n    }\n}\n\nexport default Assertion;\n","// @flow\n\nimport {NumberType, ValueType, FormattedType, array, StringType, ColorType, ResolvedImageType} from '../types.js';\nimport Formatted, {FormattedSection} from '../types/formatted.js';\nimport {toString, typeOf} from '../values.js';\n\nimport type {Expression, SerializedExpression} from '../expression.js';\nimport type EvaluationContext from '../evaluation_context.js';\nimport type ParsingContext from '../parsing_context.js';\nimport type {Type} from '../types.js';\n\ntype FormattedSectionExpression = {\n    // Content of a section may be Image expression or other\n    // type of expression that is coercable to 'string'.\n    content: Expression,\n    scale: Expression | null;\n    font: Expression | null;\n    textColor: Expression | null;\n}\n\nexport default class FormatExpression implements Expression {\n    type: Type;\n    sections: Array<FormattedSectionExpression>;\n\n    constructor(sections: Array<FormattedSectionExpression>) {\n        this.type = FormattedType;\n        this.sections = sections;\n    }\n\n    static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?Expression {\n        if (args.length < 2) {\n            return context.error(`Expected at least one argument.`);\n        }\n\n        const firstArg = args[1];\n        if (!Array.isArray(firstArg) && typeof firstArg === 'object')  {\n            return context.error(`First argument must be an image or text section.`);\n        }\n\n        const sections: Array<FormattedSectionExpression> = [];\n        let nextTokenMayBeObject = false;\n        for (let i = 1; i <= args.length - 1; ++i) {\n            const arg = (args[i]: any);\n\n            if (nextTokenMayBeObject && typeof arg === \"object\" && !Array.isArray(arg)) {\n                nextTokenMayBeObject = false;\n\n                let scale = null;\n                if (arg['font-scale']) {\n                    scale = context.parse(arg['font-scale'], 1, NumberType);\n                    if (!scale) return null;\n                }\n\n                let font = null;\n                if (arg['text-font']) {\n                    font = context.parse(arg['text-font'], 1, array(StringType));\n                    if (!font) return null;\n                }\n\n                let textColor = null;\n                if (arg['text-color']) {\n                    textColor = context.parse(arg['text-color'], 1, ColorType);\n                    if (!textColor) return null;\n                }\n\n                const lastExpression = sections[sections.length - 1];\n                lastExpression.scale = scale;\n                lastExpression.font = font;\n                lastExpression.textColor = textColor;\n            } else {\n                const content = context.parse(args[i], 1, ValueType);\n                if (!content) return null;\n\n                const kind = content.type.kind;\n                if (kind !== 'string' && kind !== 'value' && kind !== 'null' && kind !== 'resolvedImage')\n                    return context.error(`Formatted text type must be 'string', 'value', 'image' or 'null'.`);\n\n                nextTokenMayBeObject = true;\n                sections.push({content, scale: null, font: null, textColor: null});\n            }\n        }\n\n        return new FormatExpression(sections);\n    }\n\n    evaluate(ctx: EvaluationContext): Formatted {\n        const evaluateSection = section => {\n            const evaluatedContent = section.content.evaluate(ctx);\n            if (typeOf(evaluatedContent) === ResolvedImageType) {\n                return new FormattedSection('', evaluatedContent, null, null, null);\n            }\n\n            return new FormattedSection(\n                toString(evaluatedContent),\n                null,\n                section.scale ? section.scale.evaluate(ctx) : null,\n                section.font ? section.font.evaluate(ctx).join(',') : null,\n                section.textColor ? section.textColor.evaluate(ctx) : null\n            );\n        };\n\n        return new
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Formatted(this.sections.map(evaluateSection));\n }\n\n eachChild(fn: (_: Expression) => void) {\n for (const section of this.sections) {\n fn(section.content);\n if (section.scale) {\n fn(section.scale);\n }\n if (section.font) {\n fn(section.font);\n }\n if (section.textColor) {\n fn(section.textColor);\n }\n }\n }\n\n outputDefined(): boolean {\n // Technically the combinatoric set of all children\n // Usually, this.text will be undefined anyway\n return false;\n }\n\n serialize(): SerializedExpression {\n const serialized = [\"format\"];\n for (const section of this.sections) {\n serialized.push(section.content.serialize());\n const options = {};\n if (section.scale) {\n options['font-scale'] = section.scale.serialize();\n }\n if (section.font) {\n options['text-font'] = section.font.serialize();\n }\n if (section.textColor) {\n options['text-color'] = section.textColor.serialize();\n }\n serialized.push(options);\n }\n return serialized;\n }\n}\n","// @flow\n\nimport {ResolvedImageType, StringType} from '../types.js';\nimport ResolvedImage from '../types/resolved_image.js';\n\nimport type {Expression, SerializedExpression} from '../expression.js';\nimport type EvaluationContext from '../evaluation_context.js';\nimport type ParsingContext from '../parsing_context.js';\nimport type {Type} from '../types.js';\n\nexport default class ImageExpression implements Expression {\n type: Type;\n input: Expression;\n\n constructor(input: Expression) {\n this.type = ResolvedImageType;\n this.input = input;\n }\n\n static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?Expression {\n if (args.length !== 2) {\n return context.error(`Expected two arguments.`);\n }\n\n const name = context.parse(args[1], 1, StringType);\n if (!name) return context.error(`No image name provided.`);\n\n return new ImageExpression(name);\n }\n\n evaluate(ctx: EvaluationContext): null | ResolvedImage {\n const evaluatedImageName = this.input.evaluate(ctx);\n\n const value = ResolvedImage.fromString(evaluatedImageName);\n if (value && ctx.availableImages) value.available = ctx.availableImages.indexOf(evaluatedImageName) > -1;\n\n return value;\n }\n\n eachChild(fn: (_: Expression) => void) {\n fn(this.input);\n }\n\n outputDefined(): boolean {\n // The output of image is determined by the list of available images in the evaluation context\n return false;\n }\n\n serialize(): SerializedExpression {\n return [\"image\", this.input.serialize()];\n }\n}\n","// @flow\n\nimport assert from 'assert';\n\nimport {BooleanType, ColorType, NumberType, StringType, ValueType} from '../types.js';\nimport {Color, toString as valueToString, validateRGBA} from '../values.js';\nimport RuntimeError from '../runtime_error.js';\nimport Formatted from '../types/formatted.js';\nimport FormatExpression from '../definitions/format.js';\nimport ImageExpression from '../definitions/image.js';\nimport ResolvedImage from '../types/resolved_image.js';\n\nimport type {Expression, SerializedExpression} from '../expression.js';\nimport type ParsingContext from '../parsing_context.js';\nimport type EvaluationContext from '../evaluation_context.js';\nimport type {Type} from '../types.js';\n\nconst types = {\n 'to-boolean': BooleanType,\n 'to-color': ColorType,\n 'to-number': NumberType,\n 'to-string': StringType\n};\n\n/**\n * Special form for error-coalescing coercion expressions \"to-number\",\n * \"to-color\". Since these coercions can fail at runtime, they accept multiple\n * arguments, only evaluating one at a time until one succeeds.\n *\n * @private\n */\nclass Coercion implements Expression {\n type: Type;\n args: Array<Expression>;\n\n constructor(type: Type, args: Array<Expression>) {\n this.type = type;\n this.args = args;\n }\n\n static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?Expression {\n if (args.length < 2)\n return context.error(`Expected at least one argument.`);\n\n const name: string = (args[0]: any);\n assert(types[name], name);\n\n if ((name === 'to-boolean' || name === 'to-string') && args.length !== 2)\n return context.error(`Expected one argument.`);\n\n const type = types[name];\n\n const parsed = [];\n for (let i = 1; i < args.length; i++) {\n const input = context.parse(args[i], i, ValueType);\n if (!input) return null;\n parsed.push(input);\n }\n\n return new Coercion(type, parsed);\n }\n\n evaluate(ctx: EvaluationContext): null | boolean | number | string | Color | Formatted | ResolvedImage {\n if (this.type.kind === 'boolean') {\n return Boolean(this.args[0].evaluate(ctx));\n } else if (this.type.kind === 'color') {\n let input;\n let error;\n for (const arg of this.args) {\n input = arg.evaluate(ctx);\n error = null;\n if (input instanceof Color) {\n return input;\n } else if (typeof input === 'string') {\n const c = ctx.parseColor(input);\n if (c) return c;\n } else if

(Array.isArray(input)) {\n if (input.length < 3 || input.length > 4) {\n error = `Invalid rbga value ${JSON.stringify(input)}: expected an array containing either three or four numeric values.`;\n } else {\n error = validateRGBA(input[0], input[1], input[2], input[3]);\n }\n if (!error) {\n return new Color((input[0]: any) / 255, (input[1]: any) / 255, (input[2]: any) / 255, (input[3]: any));\n }\n }\n }\n throw new RuntimeError(error || `Could not parse color from value '${typeof input === 'string' ? input : String(JSON.stringify(input))}'`);\n } else if (this.type.kind === 'number') {\n let value = null;\n for (const arg of this.args) {\n value = arg.evaluate(ctx);\n if (value === null) return 0;\n const num = Number(value);\n if (isNaN(num)) continue;\n return num;\n }\n throw new RuntimeError(`Could not convert ${JSON.stringify(value)} to number.`);\n } else if (this.type.kind === 'formatted') {\n // There is no explicit 'to-formatted' but this coercion can be implicitly\n // created by properties that expect the 'formatted' type.\n return Formatted.fromString(valueToString(this.args[0].evaluate(ctx)));\n } else if (this.type.kind === 'resolvedImage') {\n return ResolvedImage.fromString(valueToString(this.args[0].evaluate(ctx)));\n } else {\n return valueToString(this.args[0].evaluate(ctx));\n }\n }\n\n eachChild(fn: (_: Expression) => void) {\n this.args.forEach(fn);\n }\n\n outputDefined(): boolean {\n return this.args.every(arg => arg.outputDefined());\n }\n\n serialize(): SerializedExpression {\n if (this.type.kind === 'formatted') {\n return new FormatExpression([{content: this.args[0], scale: null, font: null, textColor: null}]).serialize();\n }\n\n if (this.type.kind === 'resolvedImage') {\n return new ImageExpression(this.args[0]).serialize();\n }\n\n const serialized = [`to-${this.type.kind}`];\n this.eachChild(child => { serialized.push(child.serialize()); });\n return serialized;\n }\n}\n\nexport default Coercion;\n","// @flow\n\nimport {Color} from './values.js';\n\nimport type Point from '@mapbox/point-geometry';\nimport type {FormattedSection} from './types/formatted.js';\nimport type {GlobalProperties, Feature, FeatureState} from './index.js';\nimport type {CanonicalTileID} from '../../source/tile_id.js';\nimport type {FeatureDistanceData} from '../feature_filter/index.js';\n\nconst geometryTypes = ['Unknown', 'Point', 'LineString', 'Polygon'];\n\nclass EvaluationContext {\n globals: GlobalProperties;\n feature: ?Feature;\n featureState: ?FeatureState;\n formattedSection: ?FormattedSection;\n availableImages: ?Array<string>;\n canonical: null | CanonicalTileID;\n featureTileCoord: ?Point;\n featureDistanceData: ?FeatureDistanceData;\n\n _parseColorCache: {[_: string]: ?Color};\n\n constructor() {\n this.globals = (null: any);\n this.feature = null;\n this.featureState = null;\n this.formattedSection = null;\n this._parseColorCache = {};\n this.availableImages = null;\n this.canonical = null;\n this.featureTileCoord = null;\n this.featureDistanceData = null;\n }\n\n id(): number | null {\n return this.feature && this.feature.id !== undefined ? this.feature.id : null;\n }\n\n geometryType(): null | string {\n return this.feature ? typeof this.feature.type === 'number' ? geometryTypes[this.feature.type] : this.feature.type : null;\n }\n\n geometry(): ?Array<Array<Point>> {\n return this.feature && 'geometry' in this.feature ? this.feature.geometry : null;\n }\n\n canonicalID(): null | CanonicalTileID {\n return this.canonical;\n }\n\n properties(): {[string]: any} {\n return (this.feature && this.feature.properties) || {};\n }\n\n distanceFromCenter(): number {\n if (this.featureTileCoord && this.featureDistanceData) {\n\n const c = this.featureDistanceData.center;\n const scale = this.featureDistanceData.scale;\n const {x, y} = this.featureTileCoord;\n\n // Calculate the distance vector `d` (left handed)\n const dX = x * scale - c[0];\n const dY = y * scale - c[1];\n\n // The bearing vector `b` (left handed)\n const bX = this.featureDistanceData.bearing[0];\n const bY = this.featureDistanceData.bearing[1];\n\n // Distance is calculated as `dot(d, v)`\n const dist = (bX * dX + bY * dY);\n return dist;\n }\n\n return 0;\n }\n\n parseColor(input: string): ?Color {\n let cached = this._parseColorCache[input];\n if (!cached) {\n cached = this._parseColorCache[input] = Color.parse(input);\n }\n return cached;\n }\n}\n\nexport default EvaluationContext;\n","// @flow\n\nimport {toString} from './types.js';\n\nimport ParsingContext from './parsing_context.js';\nimport EvaluationContext from './evaluation_context.js';\nimport assert from 'assert';\n\nimport type {Expression, ExpressionRegistry} from './expression.js';\nimport type {Type} from './types.js';\nimport type {Value} from './values.js';\n\nexport type Varargs = {| type: Type |};\n\ntype Signature = Array<Type> | Varargs;\ntype Evaluate =

(EvaluationContext, Array<Expression>) => Value;\ntype Definition = [Type, Signature, Evaluate] |\n {|type: Type, overloads: Array<[Signature, Evaluate]>|};\n\nclass CompoundExpression implements Expression {\n name: string;\n type: Type;\n _evaluate: Evaluate;\n args: Array<Expression>;\n\n static definitions: {[_: string]: Definition };\n\n constructor(name: string, type: Type, evaluate: Evaluate, args: Array<Expression>) {\n this.name = name;\n this.type = type;\n this._evaluate = evaluate;\n this.args = args;\n }\n\n evaluate(ctx: EvaluationContext): Value {\n return this._evaluate(ctx, this.args);\n }\n\n eachChild(fn: (_: Expression) => void) {\n this.args.forEach(fn);\n }\n\n outputDefined(): boolean {\n return false;\n }\n\n serialize(): Array<mixed> {\n return [this.name].concat(this.args.map(arg => arg.serialize()));\n }\n\n static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?Expression {\n const op: string = (args[0]: any);\n const definition = CompoundExpression.definitions[op];\n if (!definition) {\n return context.error(`Unknown expression \"${op}\". If you wanted a literal array, use [\"literal\", [...]].`, 0);\n }\n\n // Now check argument types against each signature\n const type = Array.isArray(definition) ?\n definition[0] : definition.type;\n\n const availableOverloads = Array.isArray(definition) ?\n [[definition[1], definition[2]]] :\n definition.overloads;\n\n const overloads = availableOverloads.filter(([signature]) => (\n !Array.isArray(signature) || // varags\n signature.length === args.length - 1 // correct param count\n));\n\n let signatureContext: ParsingContext = (null: any);\n\n for (const [params, evaluate] of overloads) {\n // Use a fresh context for each attempted signature so that, if\n // we eventually succeed, we haven't polluted `context.errors`.\n signatureContext = new ParsingContext(context.registry, context.path, null, context.scope);\n\n // First parse all the args, potentially coercing to the\n // types expected by this overload.\n const parsedArgs: Array<Expression> = [];\n let argParseFailed = false;\n for (let i = 1; i < args.length; i++) {\n const arg = args[i];\n const expectedType = Array.isArray(params) ?\n params[i - 1] :\n params.type;\n\n const parsed = signatureContext.parse(arg, 1 + parsedArgs.length, expectedType);\n if (!parsed) {\n argParseFailed = true;\n break;\n }\n parsedArgs.push(parsed);\n }\n if (argParseFailed) {\n // Couldn't coerce args of this overload to expected type, move\n // on to next one.\n continue;\n }\n\n if (Array.isArray(params)) {\n if (params.length !== parsedArgs.length) {\n signatureContext.error(`Expected ${params.length} arguments, but found ${parsedArgs.length} instead.`);\n continue;\n }\n }\n\n for (let i = 0; i < parsedArgs.length; i++) {\n const expected = Array.isArray(params) ? params[i] : params.type;\n const arg = parsedArgs[i];\n signatureContext.concat(i + 1).checkSubtype(expected, arg.type);\n }\n\n if (signatureContext.errors.length === 0) {\n return new CompoundExpression(op, type, evaluate, parsedArgs);\n }\n }\n\n assert(!signatureContext || signatureContext.errors.length > 0);\n\n if (overloads.length === 1) {\n context.errors.push(...signatureContext.errors);\n } else {\n const expected = overloads.length ? overloads : availableOverloads;\n const signatures = expected\n .map(([params]) => stringifySignature(params))\n .join(' | ');\n\n const actualTypes = [];\n // For error message, re-parse arguments without trying to\n // apply any coercions\n for (let i = 1; i < args.length; i++) {\n const parsed = context.parse(args[i], 1 + actualTypes.length);\n if (!parsed) return null;\n actualTypes.push(toString(parsed.type));\n }\n context.error(`Expected arguments of type ${signatures}, but found (${actualTypes.join(', ')}) instead.`);\n }\n\n return null;\n }\n\n static register(\n registry: ExpressionRegistry,\n definitions: {[_: string]: Definition }\n) {\n assert(!CompoundExpression.definitions);\n CompoundExpression.definitions = definitions;\n for (const name in definitions) {\n registry[name] = CompoundExpression;\n }\n }\n}\n\nfunction stringifySignature(signature: Signature): string {\n if (Array.isArray(signature)) {\n return `(${signature.map(toString).join(', ')})`;\n } else {\n return `(${toString(signature.type)}...)`;\n }\n}\n\nexport default CompoundExpression;\n","// @flow\n\nimport {StringType, BooleanType, CollatorType} from '../types.js';\nimport Collator from '../types/collator.js';\n\nimport type {Expression, SerializedExpression} from '../expression.js';\nimport type EvaluationContext from '../evaluation_context.js';\nimport type ParsingContext from '../parsing_context.js';\nimport type {Type} from '../types.js';\n\nexport default class CollatorExpression

implements Expression {\n type: Type;\n caseSensitive: Expression;\n diacriticSensitive: Expression;\n locale: Expression | null;\n\n constructor(caseSensitive: Expression, diacriticSensitive: Expression, locale: Expression | null) {\n this.type = CollatorType;\n this.locale = locale;\n this.caseSensitive = caseSensitive;\n this.diacriticSensitive = diacriticSensitive;\n }\n\n static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?Expression {\n if (args.length !== 2)\n return context.error(`Expected one argument.`);\n\n const options = (args[1]: any);\n if (typeof options !== \"object\" || Array.isArray(options))\n return context.error(`Collator options argument must be an object.`);\n\n const caseSensitive = context.parse(\n options['case-sensitive'] === undefined ? false : options['case-sensitive'], 1, BooleanType);\n if (!caseSensitive) return null;\n\n const diacriticSensitive = context.parse(\n options['diacritic-sensitive'] === undefined ? false : options['diacritic-sensitive'], 1, BooleanType);\n if (!diacriticSensitive) return null;\n\n let locale = null;\n if (options['locale']) {\n locale = context.parse(options['locale'], 1, StringType);\n if (!locale) return null;\n }\n\n return new CollatorExpression(caseSensitive, diacriticSensitive, locale);\n }\n\n evaluate(ctx: EvaluationContext): Collator {\n return new Collator(this.caseSensitive.evaluate(ctx), this.diacriticSensitive.evaluate(ctx), this.locale ? this.locale.evaluate(ctx) : null);\n }\n\n eachChild(fn: (_: Expression) => void) {\n fn(this.caseSensitive);\n fn(this.diacriticSensitive);\n if (this.locale) {\n fn(this.locale);\n }\n }\n\n outputDefined(): boolean {\n // Technically the set of possible outputs is the combinatoric set of Collators produced\n // by all possible outputs of locale/caseSensitive/diacriticSensitive\n // But for the primary use of Collators in comparison operators, we ignore the Collator's\n // possible outputs anyway, so we can get away with leaving this false for now.\n return false;\n }\n\n serialize(): SerializedExpression {\n const options = {};\n options['case-sensitive'] = this.caseSensitive.serialize();\n options['diacritic-sensitive'] = this.diacriticSensitive.serialize();\n if (this.locale) {\n options['locale'] = this.locale.serialize();\n }\n return [\"collator\", options];\n }\n}\n","// @flow\n\nimport {isValue} from '../values.js';\nimport type {Type} from '../types.js';\nimport {BooleanType} from '../types.js';\nimport type {Expression, SerializedExpression} from '../expression.js';\nimport type ParsingContext from '../parsing_context.js';\nimport type EvaluationContext from '../evaluation_context.js';\nimport type {GeoJSON, GeoJSONPolygon, GeoJSONMultiPolygon} from '@mapbox/geojson-types';\nimport type {CanonicalTileID} from '../../../source/tile_id.js';\n\ntype GeoJSONPolygons =| GeoJSONPolygon | GeoJSONMultiPolygon;\n\n// minX, minY, maxX, maxY\ntype BBox = [number, number, number, number];\nconst EXTENT = 8192;\n\nfunction updateBBox(bbox: BBox, coord: [number, number]) {\n bbox[0] = Math.min(bbox[0], coord[0]);\n bbox[1] = Math.min(bbox[1], coord[1]);\n bbox[2] = Math.max(bbox[2], coord[0]);\n bbox[3] = Math.max(bbox[3], coord[1]);\n}\n\nfunction mercatorXfromLng(lng: number) {\n return (180 + lng) / 360;\n}\n\nfunction mercatorYfromLat(lat: number) {\n return (180 - (180 / Math.PI * Math.log(Math.tan(Math.PI / 4 + lat * Math.PI / 360)))) / 360;\n}\n\nfunction boxWithinBox(bbox1: BBox, bbox2: BBox) {\n if (bbox1[0] <= bbox2[0]) return false;\n if (bbox1[2] >= bbox2[2]) return false;\n if (bbox1[1] <= bbox2[1]) return false;\n if (bbox1[3] >= bbox2[3]) return false;\n return true;\n}\n\nfunction getTileCoordinates(p, canonical: CanonicalTileID) {\n const x = mercatorXfromLng(p[0]);\n const y = mercatorYfromLat(p[1]);\n const tilesAtZoom = Math.pow(2, canonical.z);\n return [Math.round(x * tilesAtZoom * EXTENT), Math.round(y * tilesAtZoom * EXTENT)];\n}\n\nfunction onBoundary(p, p1, p2) {\n const x1 = p[0] - p1[0];\n const y1 = p[1] - p1[1];\n const x2 = p[0] - p2[0];\n const y2 = p[1] - p2[1];\n return (x1 * y2 - x2 * y1 === 0) && (x1 * x2 <= 0) && (y1 * y2 <= 0);\n}\n\nfunction rayIntersect(p, p1, p2) {\n return ((p1[1] > p[1]) !== (p2[1] > p[1])) && (p[0] < (p2[0] - p1[0]) * (p[1] - p1[1]) / (p2[1] - p1[1]) + p1[0]);\n}\n\n// ray casting algorithm for detecting if point is in polygon\nfunction pointWithinPolygon(point, rings) {\n let inside = false;\n for (let i = 0, len = rings.length; i < len; i++) {\n const ring = rings[i];\n for (let j = 0, len2 = ring.length; j < len2 - 1; j++) {\n if (onBoundary(point, ring[j], ring[j + 1])) return false;\n if (rayIntersect(point, ring[j], ring[j + 1])) inside = !inside;\n }\n }\n return inside;\n}\n\nfunction pointWithinPolygons(point, polygons) {\n for (let i = 0; i < polygons.length; i++) {\n if (pointWithinPolygon(point, polygons[i])) return true;\n }\n return false;\n}\n\nfunction perp(v1, v2) {\n return (v1[0] * v2[1] - v1[1] * v2[0]);\n}\n\n// check if p1 and p2 are in

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different sides of line segment q1->q2\nfunction  twoSided(p1, p2, q1, q2) {\n    // q1->p1 (x1, y1), q1->p2 (x2, y2), q1->q2 (x3, y3)\n    const x1 = p1[0] - q1[0];\n    const y1 = p1[1] - q1[1];\n    const x2 = p2[0] - q1[0];\n    const y2 = p2[1] - q1[1];\n    const x3 = q2[0] - q1[0];\n    const y3 = q2[1] - q1[1];\n    const det1 = (x1 * y3 - x3 * y1);\n    const det2 =  (x2 * y3 - x3 * y2);\n    if ((det1 > 0 && det2 < 0) || (det1 < 0 && det2 > 0)) return true;\n    return false;\n}\n\n// a, b are end points for line segment1, c and d are end points for line segment2\nfunction lineIntersectLine(a, b, c, d) {\n    // check if two segments are parallel or not\n    // precondition is end point a, b is inside polygon, if line a->b is\n    // parallel to polygon edge c->d, then a->b won't intersect with c->d\n    const vectorP = [b[0] - a[0], b[1] - a[1]];\n    const vectorQ = [d[0] - c[0], d[1] - c[1]];\n    if (perp(vectorQ, vectorP) === 0) return false;\n\n    // If lines are intersecting with each other, the relative location should be:\n    // a and b lie in different sides of segment c->d\n    // c and d lie in different sides of segment a->b\n    if (twoSided(a, b, c, d) && twoSided(c, d, a, b)) return true;\n    return false;\n}\n\nfunction lineIntersectPolygon(p1, p2, polygon) {\n    for (const ring of polygon) {\n        // loop through every edge of the ring\n        for (let j = 0; j < ring.length - 1; ++j) {\n            if (lineIntersectLine(p1, p2, ring[j], ring[j + 1])) {\n                return true;\n            }\n        }\n    }\n    return false;\n}\n\nfunction lineStringWithinPolygon(line, polygon) {\n    // First, check if geometry points of line segments are all inside polygon\n    for (let i = 0; i < line.length; ++i) {\n        if (!pointWithinPolygon(line[i], polygon)) {\n            return false;\n        }\n    }\n\n    // Second, check if there is line segment intersecting polygon edge\n    for (let i = 0; i < line.length - 1; ++i) {\n        if (lineIntersectPolygon(line[i], line[i + 1], polygon)) {\n            return false;\n        }\n    }\n    return true;\n}\n\nfunction lineStringWithinPolygons(line, polygons) {\n    for (let i = 0; i < polygons.length; i++) {\n        if (lineStringWithinPolygon(line, polygons[i])) return true;\n    }\n    return false;\n}\n\nfunction getTilePolygon(coordinates, bbox: BBox, canonical: CanonicalTileID) {\n    const polygon = [];\n    for (let i = 0; i < coordinates.length; i++) {\n        const ring = [];\n        for (let j = 0; j < coordinates[i].length; j++) {\n            const coord = getTileCoordinates(coordinates[i][j], canonical);\n            updateBBox(bbox, coord);\n            ring.push(coord);\n        }\n        polygon.push(ring);\n    }\n    return polygon;\n}\n\nfunction getTilePolygons(coordinates, bbox, canonical: CanonicalTileID) {\n    const polygons = [];\n    for (let i = 0; i < coordinates.length; i++) {\n        const polygon = getTilePolygon(coordinates[i], bbox, canonical);\n        polygons.push(polygon);\n    }\n    return polygons;\n}\n\nfunction updatePoint(p, bbox, polyBBox, worldSize) {\n    if (p[0] < polyBBox[0] || p[0] > polyBBox[2]) {\n        const halfWorldSize = worldSize * 0.5;\n        let shift = (p[0] - polyBBox[0] > halfWorldSize) ? -worldSize : (polyBBox[0] - p[0] > halfWorldSize) ? worldSize : 0;\n        if (shift === 0) {\n            shift = (p[0] - polyBBox[2] > halfWorldSize) ? -worldSize : (polyBBox[2] - p[0] > halfWorldSize) ? worldSize : 0;\n        }\n        p[0] += shift;\n    }\n    updateBBox(bbox, p);\n}\n\nfunction resetBBox(bbox) {\n    bbox[0] = bbox[1] = Infinity;\n    bbox[2] = bbox[3] = -Infinity;\n}\n\nfunction getTilePoints(geometry, pointBBox, polyBBox, canonical: CanonicalTileID) {\n    const worldSize = Math.pow(2, canonical.z) * EXTENT;\n    const shifts = [canonical.x * EXTENT, canonical.y * EXTENT];\n    const tilePoints = [];\n    if (!geometry) return tilePoints;\n    for (const points of geometry) {\n        for (const point of points) {\n            const p = [point.x + shifts[0], point.y + shifts[1]];\n            updatePoint(p, pointBBox, polyBBox, worldSize);\n            tilePoints.push(p);\n        }\n    }\n    return tilePoints;\n}\n\nfunction getTileLines(geometry, lineBBox, polyBBox, canonical: CanonicalTileID) {\n    const worldSize = Math.pow(2, canonical.z) * EXTENT;\n    const shifts = [canonical.x * EXTENT, canonical.y * EXTENT];\n    const tileLines = [];\n    if (!geometry) return tileLines;\n    for (const line of geometry) {\n        const tileLine = [];\n        for (const point of line) {\n            const p = [point.x + shifts[0], point.y + shifts[1]];\n            updateBBox(lineBBox, p);\n            tileLine.push(p);\n        }\n        tileLines.push(tileLine);\n    }\n    if (lineBBox[2] - lineBBox[0] <= worldSize / 2) {\n        resetBBox(lineBBox);\n        for (const line of tileLines) {\n            for (const p of line) {\n                updatePoint(p, lineBBox, polyBBox, worldSize);\n            }\n        }\n    }\n    return tileLines;\n}\n\nfunction pointsWithinPolygons(ctx: EvaluationContext, polygonGeometry: GeoJSONPolygons) {\n    const pointBBox = [Infinity, Infinity, -Infinity, -Infinity];\n    const polyBBox = [Infinity, Infinity, -Infinity, -Infinity];\n\n    const canonical = ctx.canonicalID();\n    if (!canonical) {\n        return false;\n    }\n\n    if (polygonGeometry.type === 'Polygon') {\n        const tilePolygon = getTilePolygon(polygonGeometry.coordinates, polyBBox, canonical);\n        const tilePoints = getTilePoints(ctx.geometry(), pointBBox, polyBBox, canonical);\n        if
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(!boxWithinBox(pointBBox, polyBBox)) return false;\n\n        for (const point of tilePoints) {\n            if (!pointWithinPolygon(point, tilePolygon)) return false;\n        }\n    }\n    if (polygonGeometry.type === 'MultiPolygon') {\n        const tilePolygons = getTilePolygons(polygonGeometry.coordinates, polyBBox, canonical);\n        const tilePoints = getTilePoints(ctx.geometry(), pointBBox, polyBBox, canonical);\n        if (!boxWithinBox(pointBBox, polyBBox)) return false;\n\n        for (const point of tilePoints) {\n            if (!pointWithinPolygons(point, tilePolygons)) return false;\n        }\n    }\n\n    return true;\n}\n\nfunction linesWithinPolygons(ctx: EvaluationContext, polygonGeometry: GeoJSONPolygons) {\n    const lineBBox = [Infinity, Infinity, -Infinity, -Infinity];\n    const polyBBox = [Infinity, Infinity, -Infinity, -Infinity];\n\n    const canonical = ctx.canonicalID();\n    if (!canonical) {\n        return false;\n    }\n\n    if (polygonGeometry.type === 'Polygon') {\n        const tilePolygon = getTilePolygon(polygonGeometry.coordinates, polyBBox, canonical);\n        const tileLines = getTileLines(ctx.geometry(), lineBBox, polyBBox, canonical);\n        if (!boxWithinBox(lineBBox, polyBBox)) return false;\n\n        for (const line of tileLines) {\n            if (!lineStringWithinPolygon(line, tilePolygon)) return false;\n        }\n    }\n    if (polygonGeometry.type === 'MultiPolygon') {\n        const tilePolygons = getTilePolygons(polygonGeometry.coordinates, polyBBox, canonical);\n        const tileLines = getTileLines(ctx.geometry(), lineBBox, polyBBox, canonical);\n        if (!boxWithinBox(lineBBox, polyBBox)) return false;\n\n        for (const line of tileLines) {\n            if (!lineStringWithinPolygons(line, tilePolygons)) return false;\n        }\n    }\n    return true;\n}\n\nclass Within implements Expression {\n    type: Type;\n    geojson: GeoJSON\n    geometries: GeoJSONPolygons;\n\n    constructor(geojson: GeoJSON, geometries: GeoJSONPolygons) {\n        this.type = BooleanType;\n        this.geojson = geojson;\n        this.geometries = geometries;\n    }\n\n    static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?Within {\n        if (args.length !== 2)\n            return context.error(`'within' expression requires exactly one argument, but found ${args.length - 1} instead.`);\n        if (isValue(args[1])) {\n            const geojson = (args[1]: Object);\n            if (geojson.type === 'FeatureCollection') {\n                for (let i = 0; i < geojson.features.length; ++i) {\n                    const type = geojson.features[i].geometry.type;\n                    if (type === 'Polygon' || type === 'MultiPolygon') {\n                        return new Within(geojson, geojson.features[i].geometry);\n                    }\n                }\n            } else if (geojson.type === 'Feature') {\n                const type = geojson.geometry.type;\n                if (type === 'Polygon' || type === 'MultiPolygon') {\n                    return new Within(geojson, geojson.geometry);\n                }\n            } else if (geojson.type  === 'Polygon' || geojson.type === 'MultiPolygon') {\n                return new Within(geojson, geojson);\n            }\n        }\n        return context.error(`'within' expression requires valid geojson object that contains polygon geometry type.`);\n    }\n\n    evaluate(ctx: EvaluationContext): boolean {\n        if (ctx.geometry() != null && ctx.canonicalID() != null) {\n            if (ctx.geometryType() === 'Point') {\n                return pointsWithinPolygons(ctx, this.geometries);\n            } else if (ctx.geometryType() === 'LineString') {\n                return linesWithinPolygons(ctx, this.geometries);\n            }\n        }\n        return false;\n    }\n\n    eachChild() {}\n\n    outputDefined(): boolean {\n        return true;\n    }\n\n    serialize(): SerializedExpression {\n        return [\"within\", this.geojson];\n    }\n\n}\n\nexport default Within;\n","// @flow\n\nimport CompoundExpression from './compound_expression.js';\nimport Within from './definitions/within.js';\nimport type {Expression} from './expression.js';\n\nfunction isFeatureConstant(e: Expression): boolean {\n    if (e instanceof CompoundExpression) {\n        if (e.name === 'get' && e.args.length === 1) {\n            return false;\n        } else if (e.name === 'feature-state') {\n            return false;\n        } else if (e.name === 'has' && e.args.length === 1) {\n            return false;\n        } else if (\n            e.name === 'properties' ||\n            e.name === 'geometry-type' ||\n            e.name === 'id'\n        ) {\n            return false;\n        } else if (/^filter-/.test(e.name)) {\n            return false;\n        }\n    }\n\n    if (e instanceof Within) {\n        return false;\n    }\n\n    let result = true;\n    e.eachChild(arg => {\n        if (result && !isFeatureConstant(arg)) { result = false; }\n    });\n    return result;\n}\n\nfunction isStateConstant(e: Expression): boolean {\n    if (e instanceof CompoundExpression) {\n        if (e.name === 'feature-state') {\n            return false;\n        }\n    }\n    let result = true;\n    e.eachChild(arg => {\n        if (result && !isStateConstant(arg)) { result = false; }\n    });\n    return result;\n}\n\nfunction isGlobalPropertyConstant(e: Expression, properties: Array<string>): boolean {\n    if (e instanceof CompoundExpression && properties.indexOf(e.name) >= 0) { return false; }\n    let result = true;\n    e.eachChild((arg) => {\n        if (result && !isGlobalPropertyConstant(arg, properties)) { result =
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false; }\n });\n return result;\n}\n\nexport {isFeatureConstant, isGlobalPropertyConstant, isStateConstant};\n","// @flow\n\nimport type {Type} from '../types.js';\nimport type {Expression} from '../expression.js';\nimport type ParsingContext from '../parsing_context.js';\nimport type EvaluationContext from '../evaluation_context.js';\n\nclass Var implements Expression {\n type: Type;\n name: string;\n boundExpression: Expression;\n\n constructor(name: string, boundExpression: Expression) {\n this.type = boundExpression.type;\n this.name = name;\n this.boundExpression = boundExpression;\n }\n\n static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): void | Var {\n if (args.length !== 2 || typeof args[1] !== 'string')\n return context.error(`'var' expression requires exactly one string literal argument.`);\n\n const name = args[1];\n if (!context.scope.has(name)) {\n return context.error(`Unknown variable \"${name}\". Make sure \"${name}\" has been bound in an enclosing \"let\" expression before using it.`, 1);\n }\n\n return new Var(name, context.scope.get(name));\n }\n\n evaluate(ctx: EvaluationContext): any {\n return this.boundExpression.evaluate(ctx);\n }\n\n eachChild() {}\n\n outputDefined(): boolean {\n return false;\n }\n\n serialize(): Array<string> {\n return [\"var\", this.name];\n }\n}\n\nexport default Var;\n","// @flow\n\nimport Scope from './scope.js';\nimport {checkSubtype} from './types.js';\nimport ParsingError from './parsing_error.js';\nimport Literal from './definitions/literal.js';\nimport Assertion from './definitions/assertion.js';\nimport Coercion from './definitions/coercion.js';\nimport EvaluationContext from './evaluation_context.js';\nimport CompoundExpression from './compound_expression.js';\nimport CollatorExpression from './definitions/collator.js';\nimport Within from './definitions/within.js';\nimport {isGlobalPropertyConstant, isFeatureConstant} from './is_constant.js';\nimport Var from './definitions/var.js';\n\nimport type {Expression, ExpressionRegistry} from './expression.js';\nimport type {Type} from './types.js';\n\n/**\n * State associated parsing at a given point in an expression tree.\n * @private\n */\nclass ParsingContext {\n registry: ExpressionRegistry;\n path: Array<number>;\n key: string;\n scope: Scope;\n errors: Array<ParsingError>;\n\n // The expected type of this expression. Provided only to allow Expression\n // implementations to infer argument types: Expression#parse() need not\n // check that the output type of the parsed expression matches\n // `expectedType`.\n expectedType: ?Type;\n\n constructor(\n registry: ExpressionRegistry,\n path: Array<number> = [],\n expectedType: ?Type,\n scope: Scope = new Scope(),\n errors: Array<ParsingError> = []\n) {\n this.registry = registry;\n this.path = path;\n this.key = path.map(part => `[${part}]`).join('');\n this.scope = scope;\n this.errors = errors;\n this.expectedType = expectedType;\n }\n\n /**\n * @param expr the JSON expression to parse\n * @param index the optional argument index if this expression is an argument of a parent expression that's being parsed\n * @param options\n * @param options.omitTypeAnnotations set true to omit inferred type annotations. Caller beware: with this option set, the parsed expression's type will NOT satisfy `expectedType` if it would normally be wrapped in an inferred annotation.\n * @private\n */\n parse(\n expr: mixed,\n index?: number,\n expectedType?: ?Type,\n bindings?: Array<[string, Expression]>,\n options: {typeAnnotation?: 'assert' | 'coerce' | 'omit'} = {}\n): ?Expression {\n if (index) {\n return this.concat(index, expectedType, bindings)._parse(expr, options);\n }\n return this._parse(expr, options);\n }\n\n _parse(expr: mixed, options: {typeAnnotation?: 'assert' | 'coerce' | 'omit'}): ?Expression {\n if (expr === null || typeof expr === 'string' || typeof expr === 'boolean' || typeof expr === 'number') {\n expr = ['literal', expr];\n }\n\n function annotate(parsed, type, typeAnnotation: 'assert' | 'coerce' | 'omit') {\n if (typeAnnotation === 'assert') {\n return new Assertion(type, [parsed]);\n } else if (typeAnnotation === 'coerce') {\n return new Coercion(type, [parsed]);\n } else {\n return parsed;\n }\n }\n\n if (Array.isArray(expr)) {\n if (expr.length === 0) {\n return this.error(`Expected an array with at least one element. If you wanted a literal array, use [\"literal\", []].`);\n }\n\n const op = expr[0];\n if (typeof op !== 'string') {\n this.error(`Expression name must be a string, but found ${typeof op} instead. If you wanted a literal array, use [\"literal\", [...]].`, 0);\n return null;\n }\n\n const Expr = this.registry[op];\n if (Expr) {\n let parsed = Expr.parse(expr, this);\n if (!parsed) return null;\n\n if (this.expectedType) {\n const expected = this.expectedType;\n const actual = parsed.type;\n\n // When we expect a number, string, boolean, or array but have a value, wrap it

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in an assertion.\n                // When we expect a color or formatted string, but have a string or value, wrap it in a coercion.\n                // Otherwise, we do static type-checking.\n                //\n                // These behaviors are overridable for:\n                //  * The \"coalesce\" operator, which needs to omit type annotations.\n                // * String-valued properties (e.g. `text-field`), where coercion is more convenient than assertion.\n                //\n                if ((expected.kind === 'string' || expected.kind === 'number' || expected.kind === 'boolean' || expected.kind === 'object' || expected.kind === 'array') && actual.kind === 'value') {\n                    parsed = annotate(parsed, expected, options.typeAnnotation || 'assert');\n                } else if ((expected.kind === 'color' || expected.kind === 'formatted' || expected.kind === 'resolvedImage') && (actual.kind === 'value' || actual.kind === 'string')) {\n                    parsed = annotate(parsed, expected, options.typeAnnotation || 'coerce');\n                } else if (this.checkSubtype(expected, actual)) {\n                    return null;\n                }\n            }\n\n            // If an expression's arguments are all literals, we can evaluate\n            // it immediately and replace it with a literal value in the\n            // parsed/compiled result. Expressions that expect an image should\n            // not be resolved here so we can later get the available images.\n            if (!(parsed instanceof Literal) && (parsed.type.kind !== 'resolvedImage') && isConstant(parsed)) {\n                const ec = new EvaluationContext();\n                try {\n                    parsed = new Literal(parsed.type, parsed.evaluate(ec));\n                } catch (e) {\n                    this.error(e.message);\n                    return null;\n                }\n            }\n\n            return parsed;\n        }\n\n        return this.error(`Unknown expression \"${op}\". If you wanted a literal array, use [\"literal\", [...]].`, 0);\n    } else if (typeof expr === 'undefined') {\n        return this.error(`'undefined' value invalid. Use null instead.`);\n    } else if (typeof expr === 'object') {\n        return this.error(`Bare objects invalid. Use [\"literal\", {...}] instead.`);\n    } else {\n        return this.error(`Expected an array, but found ${typeof expr} instead.`);\n    }\n}\n\n/**\n * Returns a copy of this context suitable for parsing the subexpression at\n * index `index`, optionally appending to 'let' binding map.\n *\n * Note that `errors` property, intended for collecting errors while\n * parsing, is copied by reference rather than cloned.\n * @private\n */\nconcat(index: number, expectedType?: ?Type, bindings?: Array<[string, Expression]>): ParsingContext {\n    const path = typeof index === 'number' ? this.path.concat(index) : this.path;\n    const scope = bindings ? this.scope.concat(bindings) : this.scope;\n    return new ParsingContext(\n        this.registry,\n        path,\n        expectedType || null,\n        scope,\n        this.errors\n    );\n}\n\n/**\n * Push a parsing (or type checking) error into the `this.errors`\n * @param error The message\n * @param keys Optionally specify the source of the error at a child\n * of the current expression at `this.key`.\n * @private\n */\nerror(error: string, ...keys: Array<number>) {\n    const key = `${this.key}${keys.map(k => `[${k}]`).join('')}`;\n    this.errors.push(new ParsingError(key, error));\n}\n\n/**\n * Returns null if `t` is a subtype of `expected`; otherwise returns an\n * error message and also pushes it to `this.errors`.\n */\ncheckSubtype(expected: Type, t: Type): ?string {\n    const error = checkSubtype(expected, t);\n    if (error) this.error(error);\n    return error;\n}\n}\n\nexport default ParsingContext;\n\nfunction isConstant(expression: Expression) {\n    if (expression instanceof Var) {\n        return isConstant(expression.boundExpression);\n    } else if (expression instanceof CompoundExpression && expression.name === 'error') {\n        return false;\n    } else if (expression instanceof CollatorExpression) {\n        // Although the results of a Collator expression with fixed arguments\n        // generally shouldn't change between executions, we can't serialize them\n        // as constant expressions because results change based on environment.\n        return false;\n    } else if (expression instanceof Within) {\n        return false;\n    }\n\n    const isTypeAnnotation = expression instanceof Coercion ||\n        expression instanceof Assertion;\n\n    let childrenConstant = true;\n    expression.eachChild(child => {\n        // We can _almost_ assume that if `expressions` children are constant,\n        // they would already have been evaluated to Literal values when they\n        // were parsed.  Type annotations are the exception, because they might\n        // have been inferred and added after a child was parsed.\n\n        // So we recurse into isConstant() for the children of type annotations,\n        // but otherwise simply check whether they are Literals.\n        if (isTypeAnnotation) {\n            childrenConstant = childrenConstant && isConstant(child);\n        } else {\n            childrenConstant = childrenConstant && child instanceof Literal;\n        }\n    });\n    if (!childrenConstant) {\n        return false;\n    }\n\n    return isFeatureConstant(expression) &&\n        isGlobalPropertyConstant(expression, ['zoom', 'heatmap-density', 'line-progress', 'sky-radial-progress', 'accumulated',
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'is-supported-script', 'pitch', 'distance-from-center']);\n}\n","// @flow\n\nimport RuntimeError from './runtime_error.js';\n\nimport type {Expression} from './expression.js';\n\nexport type Stops = Array<[number, Expression]>;\n\n/**\n * Returns the index of the last stop <= input, or 0 if it doesn't exist.\n * @private\n */\nexport function findStopLessThanOrEqualTo(stops: Array<number>, input: number): number {\n const lastIndex = stops.length - 1;\n let lowerIndex = 0;\n let upperIndex = lastIndex;\n let currentIndex = 0;\n let currentValue, nextValue;\n\n while (lowerIndex <= upperIndex) {\n currentIndex = Math.floor((lowerIndex + upperIndex) / 2);\n currentValue = stops[currentIndex];\n nextValue = stops[currentIndex + 1];\n\n if (currentValue <= input) {\n if (currentIndex === lastIndex || input < nextValue) { // Search complete\n return currentIndex;\n }\n\n lowerIndex = currentIndex + 1;\n } else if (currentValue > input) {\n upperIndex = currentIndex - 1;\n } else {\n throw new RuntimeError('Input is not a number.');\n }\n }\n\n return 0;\n}\n","// @flow\n\nimport {NumberType} from '../types.js';\n\nimport {findStopLessThanOrEqualTo} from '../stops.js';\n\nimport type {Stops} from '../stops.js';\nimport type {Expression, SerializedExpression} from '../expression.js';\nimport type ParsingContext from '../parsing_context.js';\nimport type EvaluationContext from '../evaluation_context.js';\nimport type {Type} from '../types.js';\n\nclass Step implements Expression {\n type: Type;\n\n input: Expression;\n labels: Array<number>;\n outputs: Array<Expression>;\n\n constructor(type: Type, input: Expression, stops: Stops) {\n this.type = type;\n this.input = input;\n\n this.labels = [];\n this.outputs = [];\n for (const [label, expression] of stops) {\n this.labels.push(label);\n this.outputs.push(expression);\n }\n }\n\n static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?Step {\n if (args.length - 1 < 4) {\n return context.error(`Expected at least 4 arguments, but found only ${args.length - 1}.`);\n }\n\n if ((args.length - 1) % 2 !== 0) {\n return context.error(`Expected an even number of arguments.`);\n }\n\n const input = context.parse(args[1], 1, NumberType);\n if (!input) return null;\n\n const stops: Stops = [];\n\n let outputType: Type = (null: any);\n if (context.expectedType && context.expectedType.kind !== 'value') {\n outputType = context.expectedType;\n }\n\n for (let i = 1; i < args.length; i += 2) {\n const label = i === 1 ? -Infinity : args[i];\n const value = args[i + 1];\n\n const labelKey = i;\n const valueKey = i + 1;\n\n if (typeof label !== 'number') {\n return context.error('Input/output pairs for \"step\" expressions must be defined using literal numeric values (not computed expressions) for the input values.', labelKey);\n }\n\n if (stops.length && stops[stops.length - 1][0] >= label) {\n return context.error('Input/output pairs for \"step\" expressions must be arranged with input values in strictly ascending order.', labelKey);\n }\n\n const parsed = context.parse(value, valueKey, outputType);\n if (!parsed) return null;\n outputType = outputType || parsed.type;\n stops.push([label, parsed]);\n }\n\n return new Step(outputType, input, stops);\n }\n\n evaluate(ctx: EvaluationContext): any {\n const labels = this.labels;\n const outputs = this.outputs;\n\n if (labels.length === 1) {\n return outputs[0].evaluate(ctx);\n }\n\n const value = ((this.input.evaluate(ctx): any): number);\n if (value <= labels[0]) {\n return outputs[0].evaluate(ctx);\n }\n\n const stopCount = labels.length;\n if (value >= labels[stopCount - 1]) {\n return outputs[stopCount - 1].evaluate(ctx);\n }\n\n const index = findStopLessThanOrEqualTo(labels, value);\n return outputs[index].evaluate(ctx);\n }\n\n eachChild(fn: (_: Expression) => void) {\n fn(this.input);\n for (const expression of this.outputs) {\n fn(expression);\n }\n }\n\n outputDefined(): boolean {\n return this.outputs.every(out => out.outputDefined());\n }\n\n serialize(): SerializedExpression {\n const serialized = [\"step\", this.input.serialize()];\n for (let i = 0; i < this.labels.length; i++) {\n if (i > 0) {\n serialized.push(this.labels[i]);\n }\n serialized.push(this.outputs[i].serialize());\n }\n return serialized;\n }\n}\n\nexport default Step;\n",'"use strict';\n\nmodule.exports = UnitBezier;\n\nfunction UnitBezier(p1x, p1y, p2x, p2y) {\n // Calculate the polynomial coefficients, implicit first and last control points are (0,0) and (1,1).\n this.cx = 3.0 * p1x;\n this.bx = 3.0 * (p2x - p1x) - this.cx;\n this.ax = 1.0 - this.cx - this.bx;\n\n this.cy = 3.0 * p1y;\n this.by = 3.0 * (p2y - p1y) - this.cy;\n this.ay = 1.0 - this.cy - this.by;\n\n this.p1x = p1x;\n this.p1y = p1y;\n this.p2x = p2x;\n this.p2y = p2y;\n}\n\nUnitBezier.prototype = {\n sampleCurveX: function (t) {\n // `ax t^3 + bx t^2 + cx t' expanded using Horner's rule.\n return ((this.ax * t + this.bx) * t + this.cx) * t;\n },\n\n sampleCurveY:

function (t) {\n return ((this.ay * t + this.by) * t + this.cy) * t;\n },\n\n sampleCurveDerivativeX: function (t) {\n return (3.0 * this.ax * t + 2.0 * this.bx) * t + this.cx;\n },\n\n solveCurveX: function (x, epsilon) {\n if (epsilon === undefined) epsilon = 1e-6;\n\n if (x < 0.0) return 0.0;\n if (x > 1.0) return 1.0;\n\n var t = x;\n\n // First try a few iterations of Newton's method - normally very fast.\n for (var i = 0; i < 8; i++) {\n var x2 = this.sampleCurveX(t) - x;\n if (Math.abs(x2) < epsilon) return t;\n\n var d2 = this.sampleCurveDerivativeX(t);\n if (Math.abs(d2) < 1e-6) break;\n\n t = t - x2 / d2;\n }\n\n // Fall back to the bisection method for reliability.\n var t0 = 0.0;\n var t1 = 1.0;\n t = x;\n\n for (i = 0; i < 20; i++) {\n x2 = this.sampleCurveX(t);\n if (Math.abs(x2 - x) < epsilon) break;\n\n if (x > x2) {\n t0 = t;\n } else {\n t1 = t;\n }\n\n t = (t1 - t0) * 0.5 + t0;\n }\n\n return t;\n },\n\n solve: function (x, epsilon) {\n return this.sampleCurveY(this.solveCurveX(x, epsilon));\n }\n};\n","// @flow\n\nimport Color from './color.js';\n\nexport function number(a: number, b: number, t: number): number {\n return (a * (1 - t)) + (b * t);\n}\n\nexport function color(from: Color, to: Color, t: number): Color {\n return new Color(\n number(from.r, to.r, t),\n number(from.g, to.g, t),\n number(from.b, to.b, t),\n number(from.a, to.a, t)\n);\n}\n\nexport function array(from: Array<number>, to: Array<number>, t: number): Array<number> {\n return from.map((d, i) => {\n return number(d, to[i], t);\n });\n}\n","// @flow\n\nimport Color from './color.js';\n\nimport {number as interpolateNumber} from './interpolate.js';\n\ntype LABColor = {\n l: number,\n a: number,\n b: number,\n alpha: number\n};\n\ntype HCLColor = {\n h: number,\n c: number,\n l: number,\n alpha: number\n};\n\n// Constants\nconst Xn = 0.950470, // D65 standard referent\n Yn = 1,\n Zn = 1.088830,\n t0 = 4 / 29,\n t1 = 6 / 29,\n t2 = 3 * t1 * t1,\n t3 = t1 * t1 * t1,\n deg2rad = Math.PI / 180,\n rad2deg = 180 / Math.PI;\n\n// Utilities\nfunction xyz2lab(t: number) {\n return t > t3 ? Math.pow(t, 1 / 3) : t / t2 + t0;\n}\n\nfunction lab2xyz(t: number) {\n return t > t1 ? t * t * t : t2 * (t - t0);\n}\n\nfunction xyz2rgb(x: number) {\n return 255 * (x <= 0.0031308 ? 12.92 * x : 1.055 * Math.pow(x, 1 / 2.4) - 0.055);\n}\n\nfunction rgb2xyz(x: number) {\n x /= 255;\n return x <= 0.04045 ? x / 12.92 : Math.pow((x + 0.055) / 1.055, 2.4);\n}\n\n// LAB\nfunction rgbToLab(rgbColor: Color): LABColor {\n const b = rgb2xyz(rgbColor.r),\n a = rgb2xyz(rgbColor.g),\n l = rgb2xyz(rgbColor.b),\n x = xyz2lab((0.4124564 * b + 0.3575761 * a + 0.1804375 * l) / Xn),\n y = xyz2lab((0.2126729 * b + 0.7151522 * a + 0.0721750 * l) / Yn),\n z = xyz2lab((0.0193339 * b + 0.1191920 * a + 0.9503041 * l) / Zn);\n\n return {\n l: 116 * y - 16,\n a: 500 * (x - y),\n b: 200 * (y - z),\n alpha: rgbColor.a\n };\n}\n\nfunction labToRgb(labColor: LABColor): Color {\n let y = (labColor.l + 16) / 116,\n x = isNaN(labColor.a) ? y : y + labColor.a / 500,\n z = isNaN(labColor.b) ? y : y - labColor.b / 200;\n y = Yn * lab2xyz(y);\n x = Xn * lab2xyz(x);\n z = Zn * lab2xyz(z);\n return new Color(\n xyz2rgb(3.2404542 * x - 1.5371385 * y - 0.4985314 * z), // D65 -> sRGB\n xyz2rgb(-0.9692660 * x + 1.8760108 * y + 0.0415560 * z),\n xyz2rgb(0.0556434 * x - 0.2040259 * y + 1.0572252 * z),\n labColor.alpha\n);\n}\n\nfunction interpolateLab(from: LABColor, to: LABColor, t: number): LABColor {\n return {\n l: interpolateNumber(from.l, to.l, t),\n a: interpolateNumber(from.a, to.a, t),\n b: interpolateNumber(from.b, to.b, t),\n alpha: interpolateNumber(from.alpha, to.alpha, t)\n };\n}\n\n// HCL\nfunction rgbToHcl(rgbColor: Color): HCLColor {\n const {l, a, b} = rgbToLab(rgbColor);\n const h = Math.atan2(b, a) * rad2deg;\n return {\n h: h < 0 ? h + 360 : h,\n c: Math.sqrt(a * a + b * b),\n l,\n alpha: rgbColor.a\n };\n}\n\nfunction hclToRgb(hclColor: HCLColor): Color {\n const h = hclColor.h * deg2rad,\n c = hclColor.c,\n l = hclColor.l;\n return labToRgb({\n l,\n a: Math.cos(h) * c,\n b: Math.sin(h) * c,\n alpha: hclColor.alpha\n });\n}\n\nfunction interpolateHue(a: number, b: number, t: number) {\n const d = b - a;\n return a + t * (d > 180 || d < -180 ? d - 360 * Math.round(d / 360) : d);\n}\n\nfunction interpolateHcl(from: HCLColor, to: HCLColor, t: number): HCLColor {\n return {\n h: interpolateHue(from.h, to.h, t),\n c: interpolateNumber(from.c, to.c, t),\n l: interpolateNumber(from.l, to.l, t),\n alpha: interpolateNumber(from.alpha, to.alpha, t)\n };\n}\n\nexport const lab = {\n forward: rgbToLab,\n reverse: labToRgb,\n interpolate: interpolateLab\n};\n\nexport const hcl = {\n forward: rgbToHcl,\n reverse: hclToRgb,\n interpolate: interpolateHcl\n};\n","// @flow\n\nimport UnitBezier from '@mapbox/unitbezier';\n\nimport * as interpolate from '../../util/interpolate.js';\nimport {toString, NumberType, ColorType} from '../types.js';\nimport {findStopLessThanOrEqualTo} from '../stops.js';\nimport {hcl, lab} from

'../../util/color_spaces.js';\nimport Color from '../../util/color.js';\n\nimport type {Stops} from '../stops.js';\nimport type {Expression, SerializedExpression} from '../expression.js';\nimport type ParsingContext from '../parsing_context.js';\nimport type EvaluationContext from '../evaluation_context.js';\nimport type {Type} from '../types.js';\n\nexport type InterpolationType =\n { name: 'linear' } |\n { name: 'exponential', base: number } |\n { name: 'cubic-bezier', controlPoints: [number, number, number, number] };\n\nclass Interpolate implements Expression {\n type: Type;\n\n operator: 'interpolate' | 'interpolate-hcl' | 'interpolate-lab';\n interpolation: InterpolationType;\n input: Expression;\n labels: Array<number>;\n outputs: Array<Expression>;\n\n constructor(type: Type, operator: 'interpolate' | 'interpolate-hcl' | 'interpolate-lab', interpolation: InterpolationType, input: Expression, stops: Stops) {\n this.type = type;\n this.operator = operator;\n this.interpolation = interpolation;\n this.input = input;\n\n this.labels = [];\n this.outputs = [];\n for (const [label, expression] of stops) {\n this.labels.push(label);\n this.outputs.push(expression);\n }\n }\n\n static interpolationFactor(interpolation: InterpolationType, input: number, lower: number, upper: number): number {\n let t = 0;\n if (interpolation.name === 'exponential') {\n t = exponentialInterpolation(input, interpolation.base, lower, upper);\n } else if (interpolation.name === 'linear') {\n t = exponentialInterpolation(input, 1, lower, upper);\n } else if (interpolation.name === 'cubic-bezier') {\n const c = interpolation.controlPoints;\n const ub = new UnitBezier(c[0], c[1], c[2], c[3]);\n t = ub.solve(exponentialInterpolation(input, 1, lower, upper));\n }\n return t;\n }\n\n static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?Interpolate {\n let [operator, interpolation, input, ...rest] = args;\n\n if (!Array.isArray(interpolation) || interpolation.length === 0) {\n return context.error(`Expected an interpolation type expression.`, 1);\n }\n\n if (interpolation[0] === 'linear') {\n interpolation = {name: 'linear'};\n } else if (interpolation[0] === 'exponential') {\n const base = interpolation[1];\n if (typeof base !== 'number')\n return context.error(`Exponential interpolation requires a numeric base.`, 1, 1);\n interpolation = {\n name: 'exponential',\n base\n };\n } else if (interpolation[0] === 'cubic-bezier') {\n const controlPoints = interpolation.slice(1);\n if (\n controlPoints.length !== 4 ||\n controlPoints.some(t => typeof t !== 'number' || t < 0 || t > 1)\n) {\n return context.error('Cubic bezier interpolation requires four numeric arguments with values between 0 and 1.', 1);\n }\n\n interpolation = {\n name: 'cubic-bezier',\n controlPoints: (controlPoints: any)\n };\n } else {\n return context.error(`Unknown interpolation type ${String(interpolation[0])}`, 1, 0);\n }\n\n if (args.length - 1 < 4) {\n return context.error(`Expected at least 4 arguments, but found only ${args.length - 1}.`);\n }\n\n if ((args.length - 1) % 2 !== 0) {\n return context.error(`Expected an even number of arguments.`);\n }\n\n input = context.parse(input, 2, NumberType);\n if (!input) return null;\n\n const stops: Stops = [];\n\n let outputType: Type = (null: any);\n if (operator === 'interpolate-hcl' || operator === 'interpolate-lab') {\n outputType = ColorType;\n } else if (context.expectedType && context.expectedType.kind !== 'value') {\n outputType = context.expectedType;\n }\n\n for (let i = 0; i < rest.length; i += 2) {\n const label = rest[i];\n const value = rest[i + 1];\n\n const labelKey = i + 3;\n const valueKey = i + 4;\n\n if (typeof label !== 'number') {\n return context.error('Input/output pairs for \"interpolate\" expressions must be defined using literal numeric values (not computed expressions) for the input values.', labelKey);\n }\n\n if (stops.length && stops[stops.length - 1][0] >= label) {\n return context.error('Input/output pairs for \"interpolate\" expressions must be arranged with input values in strictly ascending order.', labelKey);\n }\n\n const parsed = context.parse(value, valueKey, outputType);\n if (!parsed) return null;\n outputType = outputType || parsed.type;\n stops.push([label, parsed]);\n }\n\n if (outputType.kind !== 'number' &&\n outputType.kind !== 'color' &&\n !(\n outputType.kind === 'array' &&\n outputType.itemType.kind === 'number' &&\n typeof outputType.N === 'number'\n)\n) {\n return context.error(`Type ${toString(outputType)} is not interpolatable.`);\n }\n\n return new Interpolate(outputType, (operator: any), interpolation, input, stops);\n }\n\n evaluate(ctx: EvaluationContext): Color {\n const labels = this.labels;\n const outputs = this.outputs;\n\n if (labels.length === 1) {\n return outputs[0].evaluate(ctx);\n }\n\n const value = ((this.input.evaluate(ctx): any): number);\n if

(value <= labels[0]) {\n return outputs[0].evaluate(ctx);\n }\n\n const stopCount = labels.length;\n if (value >= labels[stopCount - 1]) {\n return outputs[stopCount - 1].evaluate(ctx);\n }\n\n const index = findStopLessThanOrEqualTo(labels, value);\n const lower = labels[index];\n const upper = labels[index + 1];\n const t = Interpolate.interpolationFactor(this.interpolation, value, lower, upper);\n\n const outputLower = outputs[index].evaluate(ctx);\n const outputUpper = outputs[index + 1].evaluate(ctx);\n\n if (this.operator === 'interpolate') {\n return (interpolate[this.type.kind.toLowerCase()]: any)(outputLower, outputUpper, t); // eslint-disable-line import/namespace\n } else if (this.operator === 'interpolate-hcl') {\n return hcl.reverse(hcl.interpolate(hcl.forward(outputLower), hcl.forward(outputUpper), t));\n } else {\n return lab.reverse(lab.interpolate(lab.forward(outputLower), lab.forward(outputUpper), t));\n }\n }\n\n eachChild(fn: (_: Expression) => void) {\n fn(this.input);\n for (const expression of this.outputs) {\n fn(expression);\n }\n }\n\n outputDefined(): boolean {\n return this.outputs.every(out => out.outputDefined());\n }\n\n serialize(): SerializedExpression {\n let interpolation;\n if (this.interpolation.name === 'linear') {\n interpolation = [\"linear\"];\n } else if (this.interpolation.name === 'exponential') {\n if (this.interpolation.base === 1) {\n interpolation = [\"linear\"];\n } else {\n interpolation = [\"exponential\", this.interpolation.base];\n }\n } else {\n interpolation = [\"cubic-bezier\"].concat(this.interpolation.controlPoints);\n }\n\n const serialized = [this.operator, interpolation, this.input.serialize()];\n\n for (let i = 0; i < this.labels.length; i++) {\n serialized.push(\n this.labels[i],\n this.outputs[i].serialize()\n);\n }\n return serialized;\n }\n}\n\n/**\n * Returns a ratio that can be used to interpolate between exponential function\n * stops.\n * How it works: Two consecutive stop values define a (scaled and shifted) exponential function `f(x) = a * base^x + b`, where `base` is the user-specified base,\n * and `a` and `b` are constants affording sufficient degrees of freedom to fit\n * the function to the given stops.\n *\n * Here's a bit of algebra that lets us compute `f(x)` directly from the stop\n * values without explicitly solving for `a` and `b`:\n *\n * First stop value: `f(x0) = y0 = a * base^x0 + b`\n * Second stop value: `f(x1) = y1 = a * base^x1 + b`\n * => `y1 - y0 = a(base^x1 - base^x0)`\n * => `a = (y1 - y0)/(base^x1 - base^x0)`\n *\n * Desired value: `f(x) = y = a * base^x + b`\n * => `f(x) = y0 + a * (base^x - base^x0)`\n *\n * From the above, we can replace the `a` in `a * (base^x - base^x0)` and do a\n * little algebra:\n * ```\n * a * (base^x - base^x0) = (y1 - y0)/(base^x1 - base^x0) * (base^x - base^x0)\n * = (y1 - y0) * (base^x - base^x0) / (base^x1 - base^x0)\n * ```\n *\n * If we let `(base^x - base^x0) / (base^x1 base^x0)`, then we have\n * `f(x) = y0 + (y1 - y0) * ratio`. In other words, `ratio` may be treated as\n * an interpolation factor between the two stops' output values.\n *\n * (Note: a slightly different form for `ratio`,\n * `(base^(x-x0) - 1) / (base^(x1-x0) - 1) `, is equivalent, but requires fewer\n * expensive `Math.pow()` operations.)\n *\n * @private\n*/\nfunction exponentialInterpolation(input, base, lowerValue, upperValue) {\n const difference = upperValue - lowerValue;\n const progress = input - lowerValue;\n\n if (difference === 0) {\n return 0;\n } else if (base === 1) {\n return progress / difference;\n } else {\n return (Math.pow(base, progress) - 1) / (Math.pow(base, difference) - 1);\n }\n}\n\nexport default Interpolate;\n","// @flow\n\nimport assert from 'assert';\n\nimport {checkSubtype, ValueType} from '../types.js';\nimport ResolvedImage from '../types/resolved_image.js';\n\nimport type {Expression, SerializedExpression} from '../expression.js';\nimport type ParsingContext from '../parsing_context.js';\nimport type EvaluationContext from '../evaluation_context.js';\nimport type {Type} from '../types.js';\n\nclass Coalesce implements Expression {\n type: Type;\n args: Array<Expression>;\n\n constructor(type: Type, args: Array<Expression>) {\n this.type = type;\n this.args = args;\n }\n\n static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?Coalesce {\n if (args.length < 2) {\n return context.error(\"Expectected at least one argument.\");\n }\n let outputType: Type = (null: any);\n const expectedType = context.expectedType;\n if (expectedType && expectedType.kind !== 'value') {\n outputType = expectedType;\n }\n const parsedArgs = [];\n\n for (const arg of args.slice(1)) {\n const parsed = context.parse(arg, 1 + parsedArgs.length, outputType, undefined, {typeAnnotation: 'omit'});\n if (!parsed) return null;\n outputType = outputType || parsed.type;\n parsedArgs.push(parsed);\n }\n assert(outputType);\n\n // Above, we parse arguments without inferred type annotation so that\n // they don't produce a runtime error for `null` input, which would\n // preempt the desired null-coalescing

behavior.\n // Thus, if any of our arguments would have needed an annotation, we\n // need to wrap the enclosing coalesce expression with it instead.\n const needsAnnotation = expectedType &&\n parsedArgs.some(arg => checkSubtype(expectedType, arg.type));\n\n return needsAnnotation ?\n new Coalesce(ValueType, parsedArgs) :\n new Coalesce((outputType: any), parsedArgs);\n }\n\n evaluate(ctx: EvaluationContext): any | null {\n let result = null;\n let argCount = 0;\n let firstImage;\n for (const arg of this.args) {\n argCount++;\n result = arg.evaluate(ctx);\n // we need to keep track of the first requested image in a coalesce statement\n // if coalesce can't find a valid image, we return the first image so styleimagemissing can fire\n if (result && result instanceof ResolvedImage && !result.available) {\n // set to first image\n if (!firstImage) {\n firstImage = result;\n }\n result = null;\n // if we reach the end, return the first image\n if (argCount === this.args.length) {\n return firstImage;\n }\n }\n\n if (result !== null) break;\n }\n return result;\n }\n\n eachChild(fn: (_: Expression) => void) {\n this.args.forEach(fn);\n }\n\n outputDefined(): boolean {\n return this.args.every(arg => arg.outputDefined());\n }\n\n serialize(): SerializedExpression {\n const serialized = [\"coalesce\"];\n this.eachChild(child => { serialized.push(child.serialize()); });\n return serialized;\n }\n}\n\nexport default Coalesce;\n","// @flow\n\nimport type {Type} from '../types.js';\nimport type {Expression, SerializedExpression} from '../expression.js';\nimport type ParsingContext from '../parsing_context.js';\nimport type EvaluationContext from '../evaluation_context.js';\n\nclass Let implements Expression {\n type: Type;\n bindings: Array<[string, Expression]>;\n result: Expression;\n\n constructor(bindings: Array<[string, Expression]>, result: Expression) {\n this.type = result.type;\n this.bindings = [].concat(bindings);\n this.result = result;\n }\n\n evaluate(ctx: EvaluationContext): any {\n return this.result.evaluate(ctx);\n }\n\n eachChild(fn: (_: Expression) => void) {\n for (const binding of this.bindings) {\n fn(binding[1]);\n }\n fn(this.result);\n }\n\n static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?Let {\n if (args.length < 4)\n return context.error(`Expected at least 3 arguments, but found ${args.length - 1} instead.`);\n\n const bindings: Array<[string, Expression]> = [];\n for (let i = 1; i < args.length - 1; i += 2) {\n const name = args[i];\n\n if (typeof name !== 'string') {\n return context.error(`Expected string, but found ${typeof name} instead.`, i);\n }\n\n if (/[^a-zA-Z0-9_]/.test(name)) {\n return context.error(`Variable names must contain only alphanumeric characters or '_'.`, i);\n }\n\n const value = context.parse(args[i + 1], i + 1);\n if (!value) return null;\n\n bindings.push([name, value]);\n }\n\n const result = context.parse(args[args.length - 1], args.length - 1, context.expectedType, bindings);\n if (!result) return null;\n\n return new Let(bindings, result);\n }\n\n outputDefined(): boolean {\n return this.result.outputDefined();\n }\n\n serialize(): SerializedExpression {\n const serialized = [\"let\"];\n for (const [name, expr] of this.bindings) {\n serialized.push(name, expr.serialize());\n }\n serialized.push(this.result.serialize());\n return serialized;\n }\n}\n\nexport default Let;\n","// @flow\n\nimport {array, ValueType, NumberType} from '../types.js';\n\nimport RuntimeError from '../runtime_error.js';\n\nimport type {Expression, SerializedExpression} from '../expression.js';\nimport type ParsingContext from '../parsing_context.js';\nimport type EvaluationContext from '../evaluation_context.js';\nimport type {Type, ArrayType} from '../types.js';\nimport type {Value} from '../values.js';\n\nclass At implements Expression {\n type: Type;\n index: Expression;\n input: Expression;\n\n constructor(type: Type, index: Expression, input: Expression) {\n this.type = type;\n this.index = index;\n this.input = input;\n }\n\n static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?At {\n if (args.length !== 3)\n return context.error(`Expected 2 arguments, but found ${args.length - 1} instead.`);\n\n const index = context.parse(args[1], 1, NumberType);\n const input = context.parse(args[2], 2, array(context.expectedType || ValueType));\n\n if (!index || !input) return null;\n\n const t: ArrayType = (input.type: any);\n return new At(t.itemType, index, input);\n }\n\n evaluate(ctx: EvaluationContext): Value {\n const index = ((this.index.evaluate(ctx): any): number);\n const array = ((this.input.evaluate(ctx): any): Array<Value>);\n\n if (index < 0) {\n throw new RuntimeError(`Array index out of bounds: ${index} < 0.`);\n }\n\n if (index >= array.length) {\n throw new RuntimeError(`Array index out of bounds: ${index} > ${array.length -

1}.`);\n }\n\n if (index !== Math.floor(index)) {\n throw new RuntimeError(`Array index must be an integer, but found ${index} instead.`);\n }\n\n return array[index];\n }\n\n eachChild(fn: (_: Expression) => void) {\n fn(this.index);\n fn(this.input);\n }\n\n outputDefined(): boolean {\n return false;\n }\n\n serialize(): SerializedExpression {\n return [\"at\", this.index.serialize(), this.input.serialize()];\n }\n}\n\nexport default At;\n","// @flow\n\nimport {BooleanType, StringType, ValueType, NullType, toString, NumberType, isValidType, isValidNativeType} from '../types.js';\nimport RuntimeError from '../runtime_error.js';\nimport {typeOf} from '../values.js';\n\nimport type {Expression, SerializedExpression} from '../expression.js';\nimport type ParsingContext from '../parsing_context.js';\nimport type EvaluationContext from '../evaluation_context.js';\nimport type {Type} from '../types.js';\n\nclass In implements Expression {\n type: Type;\n needle: Expression;\n haystack: Expression;\n\n constructor(needle: Expression, haystack: Expression) {\n this.type = BooleanType;\n this.needle = needle;\n this.haystack = haystack;\n }\n\n static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?In {\n if (args.length !== 3) {\n return context.error(`Expected 2 arguments, but found ${args.length - 1} instead.`);\n }\n\n const needle = context.parse(args[1], 1, ValueType);\n\n const haystack = context.parse(args[2], 2, ValueType);\n\n if (!needle || !haystack) return null;\n\n if (!isValidType(needle.type, [BooleanType, StringType, NumberType, NullType, ValueType])) {\n return context.error(`Expected first argument to be of type boolean, string, number or null, but found ${toString(needle.type)} instead`);\n }\n\n return new In(needle, haystack);\n }\n\n evaluate(ctx: EvaluationContext): boolean {\n const needle = (this.needle.evaluate(ctx): any);\n const haystack = (this.haystack.evaluate(ctx): any);\n\n if (haystack == null) return false;\n\n if (!isValidNativeType(needle, ['boolean', 'string', 'number', 'null'])) {\n throw new RuntimeError(`Expected first argument to be of type boolean, string, number or null, but found ${toString(typeOf(needle))} instead.`);\n }\n\n if (!isValidNativeType(haystack, ['string', 'array'])) {\n throw new RuntimeError(`Expected second argument to be of type array or string, but found ${toString(typeOf(haystack))} instead.`);\n }\n\n return haystack.indexOf(needle) >= 0;\n }\n\n eachChild(fn: (_: Expression) => void) {\n fn(this.needle);\n fn(this.haystack);\n }\n\n outputDefined(): boolean {\n return true;\n }\n\n serialize(): SerializedExpression {\n return [\"in\", this.needle.serialize(), this.haystack.serialize()];\n }\n}\n\nexport default In;\n","// @flow\n\nimport {BooleanType, StringType, ValueType, NullType, toString, NumberType, isValidType, isValidNativeType} from '../types.js';\nimport RuntimeError from '../runtime_error.js';\nimport {typeOf} from '../values.js';\n\nimport type {Expression, SerializedExpression} from '../expression.js';\nimport type ParsingContext from '../parsing_context.js';\nimport type EvaluationContext from '../evaluation_context.js';\nimport type {Type} from '../types.js';\n\nclass IndexOf implements Expression {\n type: Type;\n needle: Expression;\n haystack: Expression;\n fromIndex: ?Expression;\n\n constructor(needle: Expression, haystack: Expression, fromIndex?: Expression) {\n this.type = NumberType;\n this.needle = needle;\n this.haystack = haystack;\n this.fromIndex = fromIndex;\n }\n\n static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?IndexOf {\n if (args.length <= 2 || args.length >= 5) {\n return context.error(`Expected 3 or 4 arguments, but found ${args.length - 1} instead.`);\n }\n\n const needle = context.parse(args[1], 1, ValueType);\n\n const haystack = context.parse(args[2], 2, ValueType);\n\n if (!needle || !haystack) return null;\n if (!isValidType(needle.type, [BooleanType, StringType, NumberType, NullType, ValueType])) {\n return context.error(`Expected first argument to be of type boolean, string, number or null, but found ${toString(needle.type)} instead`);\n }\n\n if (args.length === 4) {\n const fromIndex = context.parse(args[3], 3, NumberType);\n if (!fromIndex) return null;\n return new IndexOf(needle, haystack, fromIndex);\n } else {\n return new IndexOf(needle, haystack);\n }\n }\n\n evaluate(ctx: EvaluationContext): any {\n const needle = (this.needle.evaluate(ctx): any);\n const haystack = (this.haystack.evaluate(ctx): any);\n\n if (!isValidNativeType(needle, ['boolean', 'string', 'number', 'null'])) {\n throw new RuntimeError(`Expected first argument to be of type boolean, string, number or null, but found ${toString(typeOf(needle))} instead.`);\n }\n\n if (!isValidNativeType(haystack, ['string', 'array'])) {\n throw new RuntimeError(`Expected second argument to be of type array or string, but found ${toString(typeOf(haystack))} instead.`);\n }\n\n if (this.fromIndex) {\n const fromIndex =

(this.fromIndex.evaluate(ctx): number);\n return haystack.indexOf(needle, fromIndex);\n }\n\n return haystack.indexOf(needle);\n }\n\n eachChild(fn: (_: Expression) => void) {\n fn(this.needle);\n fn(this.haystack);\n if (this.fromIndex) {\n fn(this.fromIndex);\n }\n }\n\n outputDefined(): boolean {\n return false;\n }\n\n serialize(): SerializedExpression {\n if (this.fromIndex != null && this.fromIndex !== undefined) {\n const fromIndex = this.fromIndex.serialize();\n return [\"index-of\", this.needle.serialize(), this.haystack.serialize(), fromIndex];\n }\n return [\"index-of\", this.needle.serialize(), this.haystack.serialize()];\n }\n}\n\nexport default IndexOf;\n","// @flow\n\nimport assert from 'assert';\n\nimport {typeOf} from '../values.js';\nimport {ValueType, type Type} from '../types.js';\n\nimport type {Expression, SerializedExpression} from '../expression.js';\nimport type ParsingContext from '../parsing_context.js';\nimport type EvaluationContext from '../evaluation_context.js';\n\n// Map input label values to output expression index\ntype Cases = {[number | string]: number};\n\nclass Match implements Expression {\n type: Type;\n inputType: Type;\n\n input: Expression;\n cases: Cases;\n outputs: Array<Expression>;\n otherwise: Expression;\n\n constructor(inputType: Type, outputType: Type, input: Expression, cases: Cases, outputs: Array<Expression>, otherwise: Expression) {\n this.inputType = inputType;\n this.type = outputType;\n this.input = input;\n this.cases = cases;\n this.outputs = outputs;\n this.otherwise = otherwise;\n }\n\n static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?Match {\n if (args.length < 5)\n return context.error(`Expected at least 4 arguments, but found only ${args.length - 1}.`);\n if (args.length % 2 !== 1)\n return context.error(`Expected an even number of arguments.`);\n\n let inputType;\n let outputType;\n if (context.expectedType && context.expectedType.kind !== 'value') {\n outputType = context.expectedType;\n }\n const cases = {};\n const outputs = [];\n for (let i = 2; i < args.length - 1; i += 2) {\n let labels = args[i];\n const value = args[i + 1];\n\n if (!Array.isArray(labels)) {\n labels = [labels];\n }\n\n const labelContext = context.concat(i);\n if (labels.length === 0) {\n return labelContext.error('Expected at least one branch label.');\n }\n\n for (const label of labels) {\n if (typeof label !== 'number' && typeof label !== 'string') {\n return labelContext.error(`Branch labels must be numbers or strings.`);\n } else if (typeof label === 'number' && Math.abs(label) > Number.MAX_SAFE_INTEGER) {\n return labelContext.error(`Branch labels must be integers no larger than ${Number.MAX_SAFE_INTEGER}.`);\n\n } else if (typeof label === 'number' && Math.floor(label) !== label) {\n return labelContext.error(`Numeric branch labels must be integer values.`);\n\n } else if (!inputType) {\n inputType = typeOf(label);\n } else if (labelContext.checkSubtype(inputType, typeOf(label))) {\n return null;\n }\n\n if (typeof cases[String(label)] !== 'undefined') {\n return labelContext.error('Branch labels must be unique.');\n }\n\n cases[String(label)] = outputs.length;\n }\n\n const result = context.parse(value, i, outputType);\n if (!result) return null;\n outputType = outputType || result.type;\n outputs.push(result);\n }\n\n const input = context.parse(args[1], 1, ValueType);\n if (!input) return null;\n\n const otherwise = context.parse(args[args.length - 1], args.length - 1, outputType);\n if (!otherwise) return null;\n\n assert(inputType && outputType);\n\n if (input.type.kind !== 'value' && context.concat(1).checkSubtype((inputType: any), input.type)) {\n return null;\n }\n\n return new Match((inputType: any), (outputType: any), input, cases, outputs, otherwise);\n }\n\n evaluate(ctx: EvaluationContext): any {\n const input = (this.input.evaluate(ctx): any);\n const output = (typeOf(input) === this.inputType && this.outputs[this.cases[input]]) || this.otherwise;\n return output.evaluate(ctx);\n }\n\n eachChild(fn: (_: Expression) => void) {\n fn(this.input);\n this.outputs.forEach(fn);\n fn(this.otherwise);\n }\n\n outputDefined(): boolean {\n return this.outputs.every(out => out.outputDefined()) && this.otherwise.outputDefined();\n }\n\n serialize(): SerializedExpression {\n const serialized = [\"match\", this.input.serialize()];\n\n // Sort so serialization has an arbitrary defined order, even though\n // branch order doesn't affect evaluation\n const sortedLabels = Object.keys(this.cases).sort();\n\n // Group branches by unique match expression to support condensed\n // serializations of the form [case1, case2, ...] -> matchExpression\n const groupedByOutput: Array<[number, Array<number | string>]> = [];\n

const outputLookup: {[index: number]: number} = {}; // lookup index into groupedByOutput for a given output expression\n for (const label of sortedLabels) {\n const outputIndex = outputLookup[this.cases[label]];\n if (outputIndex === undefined) {\n // First time seeing this output, add it to the end of the grouped list\n outputLookup[this.cases[label]] = groupedByOutput.length;\n groupedByOutput.push([this.cases[label], [label]]);\n } else {\n // We've seen this expression before, add the label to that output's group\n groupedByOutput[outputIndex][1].push(label);\n }\n }\n\n const coerceLabel = (label) => this.inputType.kind === 'number' ? Number(label) : label;\n\n for (const [outputIndex, labels] of groupedByOutput) {\n if (labels.length === 1) {\n // Only a single label matches this output expression\n serialized.push(coerceLabel(labels[0]));\n } else {\n // Array of literal labels pointing to this output expression\n serialized.push(labels.map(coerceLabel));\n }\n serialized.push(this.outputs[outputIndex].serialize());\n }\n serialized.push(this.otherwise.serialize());\n return serialized;\n }\n}\n\nexport default Match;\n","// @flow\n\nimport assert from 'assert';\n\nimport {BooleanType} from '../types.js';\n\nimport type {Expression, SerializedExpression} from '../expression.js';\nimport type ParsingContext from '../parsing_context.js';\nimport type EvaluationContext from '../evaluation_context.js';\nimport type {Type} from '../types.js';\n\ntype Branches = Array<[Expression, Expression]>;\n\nclass Case implements Expression {\n type: Type;\n\n branches: Branches;\n otherwise: Expression;\n\n constructor(type: Type, branches: Branches, otherwise: Expression) {\n this.type = type;\n this.branches = branches;\n this.otherwise = otherwise;\n }\n\n static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?Case {\n if (args.length < 4)\n return context.error(`Expected at least 3 arguments, but found only ${args.length - 1}.`);\n if (args.length % 2 !== 0)\n return context.error(`Expected an odd number of arguments.`);\n\n let outputType: ?Type;\n if (context.expectedType && context.expectedType.kind !== 'value') {\n outputType = context.expectedType;\n }\n\n const branches = [];\n for (let i = 1; i < args.length - 1; i += 2) {\n const test = context.parse(args[i], i, BooleanType);\n if (!test) return null;\n\n const result = context.parse(args[i + 1], i + 1, outputType);\n if (!result) return null;\n\n branches.push([test, result]);\n\n outputType = outputType || result.type;\n }\n\n const otherwise = context.parse(args[args.length - 1], args.length - 1, outputType);\n if (!otherwise) return null;\n\n assert(outputType);\n return new Case((outputType: any), branches, otherwise);\n }\n\n evaluate(ctx: EvaluationContext): any {\n for (const [test, expression] of this.branches) {\n if (test.evaluate(ctx)) {\n return expression.evaluate(ctx);\n }\n }\n return this.otherwise.evaluate(ctx);\n }\n\n eachChild(fn: (_: Expression) => void) {\n for (const [test, expression] of this.branches) {\n fn(test);\n fn(expression);\n }\n fn(this.otherwise);\n }\n\n outputDefined(): boolean {\n return this.branches.every(([_, out]) => out.outputDefined()) && this.otherwise.outputDefined();\n }\n\n serialize(): SerializedExpression {\n const serialized = [\"case\"];\n this.eachChild(child => { serialized.push(child.serialize()); });\n return serialized;\n }\n}\n\nexport default Case;\n","// @flow\n\nimport {ValueType, NumberType, StringType, array, toString, isValidType, isValidNativeType} from '../types.js';\nimport RuntimeError from '../runtime_error.js';\nimport {typeOf} from '../values.js';\n\nimport type {Expression, SerializedExpression} from '../expression.js';\nimport type ParsingContext from '../parsing_context.js';\nimport type EvaluationContext from '../evaluation_context.js';\nimport type {Type} from '../types.js';\n\nclass Slice implements Expression {\n type: Type;\n input: Expression;\n beginIndex: Expression;\n endIndex: ?Expression;\n\n constructor(type: Type, input: Expression, beginIndex: Expression, endIndex?: Expression) {\n this.type = type;\n this.input = input;\n this.beginIndex = beginIndex;\n this.endIndex = endIndex;\n\n }\n\n static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?Slice {\n if (args.length <= 2 || args.length >= 5) {\n return context.error(`Expected 3 or 4 arguments, but found ${args.length - 1} instead.`);\n }\n\n const input = context.parse(args[1], 1, ValueType);\n const beginIndex = context.parse(args[2], 2, NumberType);\n\n if (!input || !beginIndex) return null;\n\n if (!isValidType(input.type, [array(ValueType), StringType, ValueType])) {\n return context.error(`Expected first argument to be of type array or string, but found ${toString(input.type)} instead`);\n }\n\n if

(args.length === 4) {\n const endIndex = context.parse(args[3], 3, NumberType);\n if (!endIndex) return null;\n return new Slice(input.type, input, beginIndex, endIndex);\n } else {\n return new Slice(input.type, input, beginIndex);\n }\n }\n\n evaluate(ctx: EvaluationContext): any {\n const input = (this.input.evaluate(ctx): any);\n const beginIndex = (this.beginIndex.evaluate(ctx): number);\n\n if (!isValidNativeType(input, ['string', 'array'])) {\n throw new RuntimeError(`Expected first argument to be of type array or string, but found ${toString(typeOf(input))} instead.`);\n }\n\n if (this.endIndex) {\n const endIndex = (this.endIndex.evaluate(ctx): number);\n return input.slice(beginIndex, endIndex);\n }\n\n return input.slice(beginIndex);\n }\n\n eachChild(fn: (_: Expression) => void) {\n fn(this.input);\n fn(this.beginIndex);\n if (this.endIndex) {\n fn(this.endIndex);\n }\n }\n\n outputDefined(): boolean {\n return false;\n }\n\n serialize(): SerializedExpression {\n if (this.endIndex != null && this.endIndex !== undefined) {\n const endIndex = this.endIndex.serialize();\n return [\"slice\", this.input.serialize(), this.beginIndex.serialize(), endIndex];\n }\n return [\"slice\", this.input.serialize(), this.beginIndex.serialize()];\n }\n}\n\nexport default Slice;\n","// @flow\n\nimport {toString, ValueType, BooleanType, CollatorType} from '../types.js';\nimport Assertion from './assertion.js';\nimport {typeOf} from '../values.js';\nimport RuntimeError from '../runtime_error.js';\n\nimport type {Expression, SerializedExpression, ExpressionRegistration} from '../expression.js';\nimport type EvaluationContext from '../evaluation_context.js';\nimport type ParsingContext from '../parsing_context.js';\nimport type {Type} from '../types.js';\n\ntype ComparisonOperator = '==' | '!=' | '<' | '>' | '<=' | '>=' ;\n\nfunction isComparableType(op: ComparisonOperator, type: Type) {\n if (op === '==' || op === '!=') {\n // equality operator\n return type.kind === 'boolean' ||\n type.kind === 'string' ||\n type.kind === 'number' ||\n type.kind === 'null' ||\n type.kind === 'value';\n } else {\n // ordering operator\n return type.kind === 'string' ||\n type.kind === 'number' ||\n type.kind === 'value';\n }\n}\n\nfunction eq(ctx: EvaluationContext, a: any, b: any): boolean { return a === b; }\nfunction neq(ctx: EvaluationContext, a: any, b: any): boolean { return a !== b; }\nfunction lt(ctx: EvaluationContext, a: any, b: any): boolean { return a < b; }\nfunction gt(ctx: EvaluationContext, a: any, b: any): boolean { return a > b; }\nfunction lteq(ctx: EvaluationContext, a: any, b: any): boolean { return a <= b; }\nfunction gteq(ctx: EvaluationContext, a: any, b: any): boolean { return a >= b; }\n\nfunction eqCollate(ctx: EvaluationContext, a: any, b: any, c: any): boolean { return c.compare(a, b) === 0; }\nfunction neqCollate(ctx: EvaluationContext, a: any, b: any, c: any): boolean { return !eqCollate(ctx, a, b, c); }\nfunction ltCollate(ctx: EvaluationContext, a: any, b: any, c: any): boolean { return c.compare(a, b) < 0; }\nfunction gtCollate(ctx: EvaluationContext, a: any, b: any, c: any): boolean { return c.compare(a, b) > 0; }\nfunction lteqCollate(ctx: EvaluationContext, a: any, b: any, c: any): boolean { return c.compare(a, b) <= 0; }\nfunction gteqCollate(ctx: EvaluationContext, a: any, b: any, c: any): boolean { return c.compare(a, b) >= 0; }\n\n/**\n * Special form for comparison operators, implementing the signatures:\n * - (T, T, ?Collator) => boolean\n * - (T, value, ?Collator) => boolean\n * - (value, T, ?Collator) => boolean\n *\n * For inequalities, T must be either value, string, or number. For ==/!=, it\n * can also be boolean or null.\n *\n * Equality semantics are equivalent to Javascript's strict equality (===/!==)\n * -- i.e., when the arguments' types don't match, == evaluates to false, != to\n * true.\n *\n * When types don't match in an ordering comparison, a runtime error is thrown.\n *\n * @private\n */\nfunction makeComparison(op: ComparisonOperator, compareBasic: (EvaluationContext, any, any) => boolean, compareWithCollator: (EvaluationContext, any, any, any) => boolean): ExpressionRegistration {\n const isOrderComparison = op !== '==' && op !== '!=';\n\n return class Comparison implements Expression {\n type: Type;\n lhs: Expression;\n rhs: Expression;\n collator: ?Expression;\n hasUntypedArgument: boolean;\n\n constructor(lhs: Expression, rhs: Expression, collator: ?Expression) {\n this.type = BooleanType;\n this.lhs = lhs;\n this.rhs = rhs;\n this.collator = collator;\n this.hasUntypedArgument = lhs.type.kind === 'value' || rhs.type.kind === 'value';\n }\n\n static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?Expression {\n if (args.length !== 3 && args.length !== 4)\n return context.error(`Expected two or three arguments.`);\n\n const op: ComparisonOperator = (args[0]: any);\n\n let lhs = context.parse(args[1], 1, ValueType);\n if (!lhs) return null;\n if (!isComparableType(op, lhs.type)) {\n return context.concat(1).error(`\"${op}\"

comparisons are not supported for type '${toString(lhs.type)}'.`);\n }\n let rhs = context.parse(args[2], 2, ValueType);\n if (!rhs) return null;\n if (!isComparableType(op, rhs.type)) {\n return context.concat(2).error(`\"${op}\" comparisons are not supported for type '${toString(rhs.type)}'.`);\n }\n\n if (\n lhs.type.kind !== rhs.type.kind &&\n lhs.type.kind !== 'value' &&\n rhs.type.kind !== 'value'\n ) {\n return context.error(`Cannot compare types '${toString(lhs.type)}' and '${toString(rhs.type)}'.`);\n }\n\n if (isOrderComparison) {\n // typing rules specific to less/greater than operators\n if (lhs.type.kind === 'value' && rhs.type.kind !== 'value') {\n // (value, T)\n lhs = new Assertion(rhs.type, [lhs]);\n } else if (lhs.type.kind !== 'value' && rhs.type.kind === 'value') {\n // (T, value)\n rhs = new Assertion(lhs.type, [rhs]);\n }\n }\n\n let collator = null;\n if (args.length === 4) {\n if (\n lhs.type.kind !== 'string' &&\n rhs.type.kind !== 'string' &&\n lhs.type.kind !== 'value' &&\n rhs.type.kind !== 'value'\n) {\n return context.error(`Cannot use collator to compare non-string types.`);\n }\n collator = context.parse(args[3], 3, CollatorType);\n if (!collator) return null;\n }\n\n return new Comparison(lhs, rhs, collator);\n }\n\n evaluate(ctx: EvaluationContext): boolean {\n const lhs = this.lhs.evaluate(ctx);\n const rhs = this.rhs.evaluate(ctx);\n\n if (isOrderComparison && this.hasUntypedArgument) {\n const lt = typeOf(lhs);\n const rt = typeOf(rhs);\n // check that type is string or number, and equal\n if (lt.kind !== rt.kind || !(lt.kind === 'string' || lt.kind === 'number')) {\n throw new RuntimeError(`Expected arguments for \"${op}\" to be (string, string) or (number, number), but found (${lt.kind}, ${rt.kind}) instead.`);\n }\n }\n\n if (this.collator && !isOrderComparison && this.hasUntypedArgument) {\n const lt = typeOf(lhs);\n const rt = typeOf(rhs);\n if (lt.kind !== 'string' || rt.kind !== 'string') {\n return compareBasic(ctx, lhs, rhs);\n }\n }\n\n return this.collator ?\n compareWithCollator(ctx, lhs, rhs, this.collator.evaluate(ctx)) :\n compareBasic(ctx, lhs, rhs);\n }\n\n eachChild(fn: (_: Expression) => void) {\n fn(this.lhs);\n fn(this.rhs);\n if (this.collator) {\n fn(this.collator);\n }\n }\n\n outputDefined(): boolean {\n return true;\n }\n\n serialize(): SerializedExpression {\n const serialized = [op];\n this.eachChild(child => { serialized.push(child.serialize()); });\n return serialized;\n }\n};\n}\n\nexport const Equals: $Call<typeof makeComparison, '==', typeof eq, typeof eqCollate> = makeComparison('==', eq, eqCollate);\nexport const NotEquals: $Call<typeof makeComparison, '!=', typeof neq, typeof neqCollate> = makeComparison('!=', neq, neqCollate);\nexport const LessThan: $Call<typeof makeComparison, '<', typeof lt, typeof ltCollate> = makeComparison('<', lt, ltCollate);\nexport const GreaterThan: $Call<typeof makeComparison, '>', typeof gt, typeof gtCollate> = makeComparison('>', gt, gtCollate);\nexport const LessThanOrEqual: $Call<typeof makeComparison, '<=', typeof lteq, typeof lteqCollate> = makeComparison('<=', lteq, lteqCollate);\nexport const GreaterThanOrEqual: $Call<typeof makeComparison, '>=', typeof gteq, typeof gteqCollate> = makeComparison('>=', gteq, gteqCollate);\n","// @flow\n\nimport {StringType, NumberType} from '../types.js';\n\nimport type {Expression, SerializedExpression} from '../expression.js';\nimport type EvaluationContext from '../evaluation_context.js';\nimport type ParsingContext from '../parsing_context.js';\nimport type {Type} from '../types.js';\n\ndeclare var Intl: {\n NumberFormat: Class<Intl$NumberFormat>\n};\n\ndeclare class Intl$NumberFormat {\n constructor (\n locales?: string | string[],\n options?: NumberFormatOptions\n): Intl$NumberFormat;\n\n static (\n locales?: string | string[],\n options?: NumberFormatOptions\n): Intl$NumberFormat;\n\n format(a: number): string;\n\n resolvedOptions(): any;\n}\n\ntype NumberFormatOptions = {\n style?: 'decimal' | 'currency' | 'percent' | 'unit';\n currency?: null | string;\n unit?: null | string;\n minimumFractionDigits?: null | string;\n maximumFractionDigits?: null | string;\n};\n\nexport default class NumberFormat implements Expression {\n type: Type;\n number: Expression;\n locale: Expression | null; // BCP 47 language tag\n currency: Expression | null; // ISO 4217 currency code, required if style=currency\n unit: Expression | null; // Simple units sanctioned for use in ECMAScript, required if style=unit. https://tc39.es/proposal-unified-intl-numberformat/section6/locales-currencies-tz_proposed_out.html#sec-issanctionedsimpleunitidentifier\n minFractionDigits: Expression | null; // Default 0\n

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maxFractionDigits: Expression | null; // Default 3\n\n    constructor(number: Expression,\n                locale: Expression | null,\n                currency: Expression | null,\n                unit: Expression | null,\n                minFractionDigits: Expression | null,\n                maxFractionDigits: Expression | null) {\n        this.type = StringType;\n        this.number = number;\n        this.locale = locale;\n        this.currency = currency;\n        this.unit = unit;\n        this.minFractionDigits = minFractionDigits;\n        this.maxFractionDigits = maxFractionDigits;\n    }\n\n    static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?Expression {\n        if (args.length !== 3)\n            return context.error(`Expected two arguments.`);\n\n        const number = context.parse(args[1], 1, NumberType);\n        if (!number) return null;\n\n        const options = (args[2]: any);\n        if (typeof options !== \"object\" || Array.isArray(options))\n            return context.error(`NumberFormat options argument must be an object.`);\n\n        let locale = null;\n        if (options['locale']) {\n            locale = context.parse(options['locale'], 1, StringType);\n            if (!locale) return null;\n        }\n\n        let currency = null;\n        if (options['currency']) {\n            currency = context.parse(options['currency'], 1, StringType);\n            if (!currency) return null;\n        }\n\n        let unit = null;\n        if (options['unit']) {\n            unit = context.parse(options['unit'], 1, StringType);\n            if (!unit) return null;\n        }\n\n        let minFractionDigits = null;\n        if (options['min-fraction-digits']) {\n            minFractionDigits = context.parse(options['min-fraction-digits'], 1, NumberType);\n            if (!minFractionDigits) return null;\n        }\n\n        let maxFractionDigits = null;\n        if (options['max-fraction-digits']) {\n            maxFractionDigits = context.parse(options['max-fraction-digits'], 1, NumberType);\n            if (!maxFractionDigits) return null;\n        }\n\n        return new NumberFormat(number, locale, currency, unit, minFractionDigits, maxFractionDigits);\n    }\n\n    evaluate(ctx: EvaluationContext): string {\n        return new Intl.NumberFormat(this.locale ? this.locale.evaluate(ctx) : [],\n            {\n                style:\n                    (this.currency && \"currency\") ||\n                    (this.unit && \"unit\") ||\n                    \"decimal\",\n                currency: this.currency ? this.currency.evaluate(ctx) : undefined,\n                unit: this.unit ? this.unit.evaluate(ctx) : undefined,\n                minimumFractionDigits: this.minFractionDigits ? this.minFractionDigits.evaluate(ctx) : undefined,\n                maximumFractionDigits: this.maxFractionDigits ? this.maxFractionDigits.evaluate(ctx) : undefined,\n            }).format(this.number.evaluate(ctx));\n    }\n\n    eachChild(fn: (_: Expression) => void) {\n        fn(this.number);\n        if (this.locale) {\n            fn(this.locale);\n        }\n        if (this.currency) {\n            fn(this.currency);\n        }\n        if (this.unit) {\n            fn(this.unit);\n        }\n        if (this.minFractionDigits) {\n            fn(this.minFractionDigits);\n        }\n        if (this.maxFractionDigits) {\n            fn(this.maxFractionDigits);\n        }\n    }\n\n    outputDefined(): boolean {\n        return false;\n    }\n\n    serialize(): SerializedExpression {\n        const options = {};\n        if (this.locale) {\n            options['locale'] = this.locale.serialize();\n        }\n        if (this.currency) {\n            options['currency'] = this.currency.serialize();\n        }\n        if (this.unit) {\n            options['unit'] = this.unit.serialize();\n        }\n        if (this.minFractionDigits) {\n            options['min-fraction-digits'] = this.minFractionDigits.serialize();\n        }\n        if (this.maxFractionDigits) {\n            options['max-fraction-digits'] = this.maxFractionDigits.serialize();\n        }\n        return [\"number-format\", this.number.serialize(), options];\n    }\n}\n","// @flow\n\nimport {NumberType, toString} from '../types.js';\n\nimport {typeOf} from '../values.js';\nimport RuntimeError from '../runtime_error.js';\n\nimport type {Expression, SerializedExpression} from '../expression.js';\nimport type ParsingContext from '../parsing_context.js';\nimport type EvaluationContext from '../evaluation_context.js';\nimport type {Type} from '../types.js';\n\nclass Length implements Expression {\n    type: Type;\n    input: Expression;\n\n    constructor(input: Expression) {\n        this.type = NumberType;\n        this.input = input;\n    }\n\n    static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?Length {\n        if (args.length !== 2)\n            return context.error(`Expected 1 argument, but found ${args.length - 1} instead.`);\n\n        const input = context.parse(args[1], 1);\n        if (!input) return null;\n\n        if (input.type.kind !== 'array' && input.type.kind !== 'string' && input.type.kind !== 'value')\n            return context.error(`Expected argument of type string or array, but found ${toString(input.type)} instead.`);\n\n        return new Length(input);\n    }\n\n    evaluate(ctx: EvaluationContext): any | number {\n        const input = this.input.evaluate(ctx);\n        if (typeof input === 'string') {\n            return input.length;\n        } else if (Array.isArray(input)) {\n            return input.length;\n        } else {\n            throw new RuntimeError(`Expected value to be of type string or array, but found ${toString(typeOf(input))}
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instead.`);\n        }\n    }\n\n    eachChild(fn: (_: Expression) => void) {\n        fn(this.input);\n    }\n\n
outputDefined(): boolean {\n        return false;\n    }\n\n    serialize(): SerializedExpression {\n        const serialized =
[\"length\"];\n        this.eachChild(child => { serialized.push(child.serialize()); });\n        return serialized;\n
}\n}\n\nexport default Length;\n","// @flow\n\nimport {\n    type Type,\n    NumberType,\n    StringType,\n
BooleanType,\n    ColorType,\n    ObjectType,\n    ValueType,\n    ErrorType,\n    CollatorType,\n    array,\n
toString as typeToString\n} from '../types.js';\n\nimport {typeOf, Color, validateRGBA, toString as valueToString}
from '../values.js';\nimport CompoundExpression from '../compound_expression.js';\nimport RuntimeError from
'../runtime_error.js';\nimport Let from './let.js';\nimport Var from './var.js';\nimport Literal from './literal.js';\nimport
Assertion from './assertion.js';\nimport Coercion from './coercion.js';\nimport At from './at.js';\nimport In from
'./in.js';\nimport IndexOf from './index_of.js';\nimport Match from './match.js';\nimport Case from './case.js';\nimport
Slice from './slice.js';\nimport Step from './step.js';\nimport Interpolate from './interpolate.js';\nimport Coalesce from
'./coalesce.js';\nimport {\n    Equals,\n    NotEquals,\n    LessThan,\n    GreaterThan,\n    LessThanOrEqual,\n
GreaterThanOrEqual\n} from './comparison.js';\nimport CollatorExpression from './collator.js';\nimport
NumberFormat from './number_format.js';\nimport FormatExpression from './format.js';\nimport ImageExpression
from './image.js';\nimport Length from './length.js';\nimport Within from './within.js';\n\nimport type {Varargs} from
'../compound_expression.js';\nimport type {ExpressionRegistry} from '../expression.js';\n\nconst expressions:
ExpressionRegistry = {\n    // special forms\n    '==': Equals,\n    '!=': NotEquals,\n    '>': GreaterThan,\n    '<':
LessThan,\n    '>=': GreaterThanOrEqual,\n    '<=': LessThanOrEqual,\n    'array': Assertion,\n    'at': At,\n
'boolean': Assertion,\n    'case': Case,\n    'coalesce': Coalesce,\n    'collator': CollatorExpression,\n    'format':
FormatExpression,\n    'image': ImageExpression,\n    'in': In,\n    'index-of': IndexOf,\n    'interpolate': Interpolate,\n
'interpolate-hcl': Interpolate,\n    'interpolate-lab': Interpolate,\n    'length': Length,\n    'let': Let,\n    'literal':
Literal,\n    'match': Match,\n    'number': Assertion,\n    'number-format': NumberFormat,\n    'object': Assertion,\n
'slice': Slice,\n    'step': Step,\n    'string': Assertion,\n    'to-boolean': Coercion,\n    'to-color': Coercion,\n    'to-
number': Coercion,\n    'to-string': Coercion,\n    'var': Var,\n    'within': Within\n};\n\nfunction rgba(ctx, [r, g, b, a])
{\n    r = r.evaluate(ctx);\n    g = g.evaluate(ctx);\n    b = b.evaluate(ctx);\n    const alpha = a ? a.evaluate(ctx) : 1;\n
const error = validateRGBA(r, g, b, alpha);\n    if (error) throw new RuntimeError(error);\n    return new Color(r /
255 * alpha, g / 255 * alpha, b / 255 * alpha, alpha);\n}\n\nfunction has(key, obj) {\n    return key in
obj;\n}\n\nfunction get(key, obj) {\n    const v = obj[key];\n    return typeof v === 'undefined' ? null :
v;\n}\n\nfunction binarySearch(v, a, i, j) {\n    while (i <= j) {\n        const m = (i + j) >> 1;\n        if (a[m] === v)\n
            return true;\n        if (a[m] > v)\n            j = m - 1;\n        else\n            i = m + 1;\n    }\n    return
false;\n}\n\nfunction varargs(type: Type): Varargs {\n    return
{type};\n}\n\nCompoundExpression.register(expressions, {\n    'error': [\n        ErrorType,\n        [StringType],\n
(ctx, [v]) => { throw new RuntimeError(v.evaluate(ctx)); }\n    ],\n    'typeof': [\n        StringType,\n
[ValueType],\n        (ctx, [v]) => typeToString(typeOf(v.evaluate(ctx)))\n    ],\n    'to-rgba': [\n
array(NumberType, 4),\n        [ColorType],\n        (ctx, [v]) => {\n            return v.evaluate(ctx).toArray();\n        }\n
],\n    'rgb': [\n        ColorType,\n        [NumberType, NumberType, NumberType],\n        rgba\n    ],\n    'rgba': [\n
ColorType,\n        [NumberType, NumberType, NumberType, NumberType],\n        rgba\n    ],\n    'has': {\n
type: BooleanType,\n        overloads: [\n            [\n                [StringType],\n                (ctx, [key]) =>
has(key.evaluate(ctx), ctx.properties())\n            ], [\n                [StringType, ObjectType],\n                (ctx, [key,
obj]) => has(key.evaluate(ctx), obj.evaluate(ctx))\n            ]\n        ]\n    },\n    'get': {\n        type: ValueType,\n
overloads: [\n            [\n                [StringType],\n                (ctx, [key]) => get(key.evaluate(ctx), ctx.properties())\n
            ], [\n                [StringType, ObjectType],\n                (ctx, [key, obj]) => get(key.evaluate(ctx),
obj.evaluate(ctx))\n            ]\n        ]\n    },\n    'feature-state': [\n        ValueType,\n        [StringType],\n        (ctx,
[key]) => get(key.evaluate(ctx), ctx.featureState || {})\n    ],\n    'properties': [\n        ObjectType,\n        [],\n
(ctx) => ctx.properties()\n    ],\n    'geometry-type': [\n        StringType,\n        [],\n        (ctx) =>
ctx.geometryType()\n    ],\n    'id': [\n        ValueType,\n        [],\n        (ctx) => ctx.id()\n    ],\n    'zoom': [\n
NumberType,\n        [],\n        (ctx) => ctx.globals.zoom\n    ],\n    'pitch': [\n        NumberType,\n        [],\n        (ctx)
=> ctx.globals.pitch || 0\n    ],\n    'distance-from-center': [\n        NumberType,\n        [],\n        (ctx) =>
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ctx.distanceFromCenter()\n    ],\n    'heatmap-density': [\n        NumberType,\n        [],\n        (ctx) =>
ctx.globals.heatmapDensity || 0\n    ],\n    'line-progress': [\n        NumberType,\n        [],\n        (ctx) =>
ctx.globals.lineProgress || 0\n    ],\n    'sky-radial-progress': [\n        NumberType,\n        [],\n        (ctx) =>
ctx.globals.skyRadialProgress || 0\n    ],\n    'accumulated': [\n        ValueType,\n        [],\n        (ctx) =>
ctx.globals.accumulated === undefined ? null : ctx.globals.accumulated\n    ],\n    '+': [\n        NumberType,\n
varargs(NumberType),\n        (ctx, args) => {\n            let result = 0;\n            for (const arg of args) {\n
result += arg.evaluate(ctx);\n            }\n            return result;\n        }\n    ],\n    '*': [\n        NumberType,\n
varargs(NumberType),\n        (ctx, args) => {\n            let result = 1;\n            for (const arg of args) {\n
result *= arg.evaluate(ctx);\n            }\n            return result;\n        }\n    ],\n    '-': {\n        type: NumberType,\n
overloads: [\n            [\n                [NumberType, NumberType],\n                (ctx, [a, b]) => a.evaluate(ctx) -
b.evaluate(ctx)\n            ], [\n                [NumberType],\n                (ctx, [a]) => -a.evaluate(ctx)\n            ]\n        ]\n
},\n    '/': [\n        NumberType,\n        [NumberType, NumberType],\n        (ctx, [a, b]) => a.evaluate(ctx) /
b.evaluate(ctx)\n    ],\n    '%': [\n        NumberType,\n        [NumberType, NumberType],\n        (ctx, [a, b]) =>
a.evaluate(ctx) % b.evaluate(ctx)\n    ],\n    'ln2': [\n        NumberType,\n        [],\n        () => Math.LN2\n    ],\n    'pi':
[\n        NumberType,\n        [],\n        () => Math.PI\n    ],\n    'e': [\n        NumberType,\n        [],\n        () =>
Math.E\n    ],\n    '^': [\n        NumberType,\n        [NumberType, NumberType],\n        (ctx, [b, e]) =>
Math.pow(b.evaluate(ctx), e.evaluate(ctx))\n    ],\n    'sqrt': [\n        NumberType,\n        [NumberType],\n        (ctx,
[x]) => Math.sqrt(x.evaluate(ctx))\n    ],\n    'log10': [\n        NumberType,\n        [NumberType],\n        (ctx, [n]) =>
Math.log(n.evaluate(ctx)) / Math.LN10\n    ],\n    'ln': [\n        NumberType,\n        [NumberType],\n        (ctx, [n])
=> Math.log(n.evaluate(ctx))\n    ],\n    'log2': [\n        NumberType,\n        [NumberType],\n        (ctx, [n]) =>
Math.log(n.evaluate(ctx)) / Math.LN2\n    ],\n    'sin': [\n        NumberType,\n        [NumberType],\n        (ctx, [n])
=> Math.sin(n.evaluate(ctx))\n    ],\n    'cos': [\n        NumberType,\n        [NumberType],\n        (ctx, [n]) =>
Math.cos(n.evaluate(ctx))\n    ],\n    'tan': [\n        NumberType,\n        [NumberType],\n        (ctx, [n]) =>
Math.tan(n.evaluate(ctx))\n    ],\n    'asin': [\n        NumberType,\n        [NumberType],\n        (ctx, [n]) =>
Math.asin(n.evaluate(ctx))\n    ],\n    'acos': [\n        NumberType,\n        [NumberType],\n        (ctx, [n]) =>
Math.acos(n.evaluate(ctx))\n    ],\n    'atan': [\n        NumberType,\n        [NumberType],\n        (ctx, [n]) =>
Math.atan(n.evaluate(ctx))\n    ],\n    'min': [\n        NumberType,\n        varargs(NumberType),\n        (ctx, args) =>
Math.min(...args.map(arg => arg.evaluate(ctx)))\n    ],\n    'max': [\n        NumberType,\n
varargs(NumberType),\n        (ctx, args) => Math.max(...args.map(arg => arg.evaluate(ctx)))\n    ],\n    'abs': [\n
NumberType,\n        [NumberType],\n        (ctx, [n]) => Math.abs(n.evaluate(ctx))\n    ],\n    'round': [\n
NumberType,\n        [NumberType],\n        (ctx, [n]) => {\n            const v = n.evaluate(ctx);\n            // Javascript's
Math.round() rounds towards +Infinity for halfway\n            // values, even when they're negative. It's more common
to round\n            // away from 0 (e.g., this is what python and C++ do)\n            return v < 0 ? -Math.round(-v) :
Math.round(v);\n        }\n    ],\n    'floor': [\n        NumberType,\n        [NumberType],\n        (ctx, [n]) =>
Math.floor(n.evaluate(ctx))\n    ],\n    'ceil': [\n        NumberType,\n        [NumberType],\n        (ctx, [n]) =>
Math.ceil(n.evaluate(ctx))\n    ],\n    'filter-==': [\n        BooleanType,\n        [StringType, ValueType],\n        (ctx, [k,
v]) => ctx.properties()[(k: any).value] === (v: any).value\n    ],\n    'filter-id-==': [\n        BooleanType,\n
[ValueType],\n        (ctx, [v]) => ctx.id() === (v: any).value\n    ],\n    'filter-type-==': [\n        BooleanType,\n
[StringType],\n        (ctx, [v]) => ctx.geometryType() === (v: any).value\n    ],\n    'filter-<': [\n        BooleanType,\n
    [StringType, ValueType],\n        (ctx, [k, v]) => {\n            const a = ctx.properties()[(k: any).value];\n
const b = (v: any).value;\n            return typeof a === typeof b && a < b;\n        }\n    ],\n    'filter-id-<': [\n
BooleanType,\n        [ValueType],\n        (ctx, [v]) => {\n            const a = ctx.id();\n            const b = (v:
any).value;\n            return typeof a === typeof b && a < b;\n        }\n    ],\n    'filter->': [\n        BooleanType,\n
[StringType, ValueType],\n        (ctx, [k, v]) => {\n            const a = ctx.properties()[(k: any).value];\n            const b
= (v: any).value;\n            return typeof a === typeof b && a > b;\n        }\n    ],\n    'filter-id->': [\n
BooleanType,\n        [ValueType],\n        (ctx, [v]) => {\n            const a = ctx.id();\n            const b = (v:
any).value;\n            return typeof a === typeof b && a > b;\n        }\n    ],\n    'filter-<=': [\n        BooleanType,\n
[StringType, ValueType],\n        (ctx, [k, v]) => {\n            const a = ctx.properties()[(k: any).value];\n            const b
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= (v: any).value;\n return typeof a === typeof b && a <= b;\n }\n],\n 'filter-id-<=': [\n BooleanType,\n [ValueType],\n (ctx, [v]) => {\n const a = ctx.id();\n const b = (v: any).value;\n return typeof a === typeof b && a <= b;\n }\n],\n 'filter->=': [\n BooleanType,\n [StringType, ValueType],\n (ctx, [k, v]) => {\n const a = ctx.properties()[(k: any).value];\n const b = (v: any).value;\n return typeof a === typeof b && a >= b;\n }\n],\n 'filter-id->=': [\n BooleanType,\n [ValueType],\n (ctx, [v]) => {\n const a = ctx.id();\n const b = (v: any).value;\n return typeof a === typeof b && a >= b;\n }\n],\n 'filter-has': [\n BooleanType,\n [ValueType],\n (ctx, [k]) => (k: any).value in ctx.properties()\n],\n 'filter-has-id': [\n BooleanType,\n [],\n (ctx) => (ctx.id() !== null && ctx.id() !== undefined)\n],\n 'filter-type-in': [\n BooleanType,\n [array(StringType)],\n (ctx, [v]) => (v: any).value.indexOf(ctx.geometryType()) >= 0\n],\n 'filter-id-in': [\n BooleanType,\n [array(ValueType)],\n (ctx, [v]) => (v: any).value.indexOf(ctx.id()) >= 0\n],\n 'filter-in-small': [\n BooleanType,\n [StringType, array(ValueType)],\n // assumes v is an array literal\n (ctx, [k, v]) => (v: any).value.indexOf(ctx.properties()[(k: any).value]) >= 0\n],\n 'filter-in-large': [\n BooleanType,\n [StringType, array(ValueType)],\n // assumes v is a array literal with values sorted in ascending order and of a single type\n (ctx, [k, v]) => binarySearch(ctx.properties()[(k: any).value], (v: any).value, 0, (v: any).value.length - 1)\n],\n 'all': {\n type: BooleanType,\n overloads: [\n [\n [BooleanType, BooleanType],\n (ctx, [a, b]) => a.evaluate(ctx) && b.evaluate(ctx)\n],\n [\n varargs(BooleanType),\n (ctx, args) => {\n for (const arg of args) {\n if (!arg.evaluate(ctx))\n return false;\n }\n return true;\n }\n]\n]\n },\n 'any': {\n type: BooleanType,\n overloads: [\n [\n [BooleanType, BooleanType],\n (ctx, [a, b]) => a.evaluate(ctx) || b.evaluate(ctx)\n],\n [\n varargs(BooleanType),\n (ctx, args) => {\n for (const arg of args) {\n if (arg.evaluate(ctx))\n return true;\n }\n return false;\n }\n]\n]\n },\n '!': [\n BooleanType,\n [BooleanType],\n (ctx, [b]) => !b.evaluate(ctx)\n],\n 'is-supported-script': [\n BooleanType,\n [StringType],\n // At parse time this will always return true, so we need to exclude this expression with isGlobalPropertyConstant\n (ctx, [s]) => {\n const isSupportedScript = ctx.globals && ctx.globals.isSupportedScript;\n if (isSupportedScript) {\n return isSupportedScript(s.evaluate(ctx));\n }\n return true;\n }\n],\n 'upcase': [\n StringType,\n [StringType],\n (ctx, [s]) => s.evaluate(ctx).toUpperCase()\n],\n 'downcase': [\n StringType,\n [StringType],\n (ctx, [s]) => s.evaluate(ctx).toLowerCase()\n],\n 'concat': [\n StringType,\n varargs(ValueType),\n (ctx, args) => args.map(arg => valueToString(arg.evaluate(ctx))).join('')\n],\n 'resolved-locale': [\n StringType,\n [CollatorType],\n (ctx, [collator]) => collator.evaluate(ctx).resolvedLocale()\n]\n});\n\nexport default expressions;\n","// @flow\n\n/**\n * A type used for returning and propagating errors. The first element of the union\n * represents success and contains a value, and the second represents an error and\n * contains an error value.\n * @private\n */\nexport type Result<T, E> =\n | {| result: 'success', value: T |}\n | {| result: 'error', value: E |};\n\nexport function success<T, E>(value: T): Result<T, E> {\n return {result: 'success', value};\n}\n\nexport function error<T, E>(value: E): Result<T, E> {\n return {result: 'error', value};\n}\n","// @flow\n\nimport type {StylePropertySpecification} from '../style-spec.js';\n\nexport function supportsPropertyExpression(spec: StylePropertySpecification): boolean {\n return spec['property-type'] === 'data-driven';\n}\n\nexport function supportsZoomExpression(spec: StylePropertySpecification): boolean {\n return !!spec.expression && spec.expression.parameters.indexOf('zoom') > -1;\n}\n\nexport function supportsInterpolation(spec: StylePropertySpecification): boolean {\n return !!spec.expression && spec.expression.interpolated;\n}\n","// @flow\n\nexport default function getType(val: mixed): string {\n if (val instanceof Number) {\n return 'number';\n } else if (val instanceof String) {\n return 'string';\n } else if (val instanceof Boolean) {\n return 'boolean';\n } else if (Array.isArray(val)) {\n return 'array';\n } else if (val === null) {\n return 'null';\n } else {\n return typeof val;\n }\n}\n","\nimport * as colorSpaces from '../util/color_spaces.js';\nimport Color from '../util/color.js';\nimport extend from '../util/extend.js';\nimport getType

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from '../util/get_type.js';\nimport * as interpolate from '../util/interpolate.js';\nimport Interpolate from '../expression/definitions/interpolate.js';\nimport Formatted from '../expression/types/formatted.js';\nimport ResolvedImage from '../expression/types/resolved_image.js';\nimport {supportsInterpolation} from '../util/properties.js';\nimport {findStopLessThanOrEqualTo} from '../expression/stops.js';\n\nexport function isFunction(value) {\n    return typeof value === 'object' && value !== null && !Array.isArray(value);\n}\n\nfunction identityFunction(x) {\n    return x;\n}\n\nexport function createFunction(parameters, propertySpec) {\n    const isColor = propertySpec.type === 'color';\n    const zoomAndFeatureDependent = parameters.stops && typeof parameters.stops[0][0] === 'object';\n    const featureDependent = zoomAndFeatureDependent || parameters.property !== undefined;\n    const zoomDependent = zoomAndFeatureDependent || !featureDependent;\n    const type = parameters.type || (supportsInterpolation(propertySpec) ? 'exponential' : 'interval');\n\n    if (isColor) {\n        parameters = extend({}, parameters);\n\n        if (parameters.stops) {\n            parameters.stops = parameters.stops.map((stop) => {\n                return [stop[0], Color.parse(stop[1])];\n            });\n        }\n\n        if (parameters.default) {\n            parameters.default = Color.parse(parameters.default);\n        } else {\n            parameters.default = Color.parse(propertySpec.default);\n        }\n    }\n\n    if (parameters.colorSpace && parameters.colorSpace !== 'rgb' && !colorSpaces[parameters.colorSpace]) { // eslint-disable-line import/namespace\n        throw new Error(`Unknown color space: ${parameters.colorSpace}`);\n    }\n\n    let innerFun;\n    let hashedStops;\n    let categoricalKeyType;\n    if (type === 'exponential') {\n        innerFun = evaluateExponentialFunction;\n    } else if (type === 'interval') {\n        innerFun = evaluateIntervalFunction;\n    } else if (type === 'categorical') {\n        innerFun = evaluateCategoricalFunction;\n\n        // For categorical functions, generate an Object as a hashmap of the stops for fast searching\n        hashedStops = Object.create(null);\n        for (const stop of parameters.stops) {\n            hashedStops[stop[0]] = stop[1];\n        }\n\n        // Infer key type based on first stop key-- used to encforce strict type checking later\n        categoricalKeyType = typeof parameters.stops[0][0];\n\n    } else if (type === 'identity') {\n        innerFun = evaluateIdentityFunction;\n    } else {\n        throw new Error(`Unknown function type \"${type}\"`);\n    }\n\n    if (zoomAndFeatureDependent) {\n        const featureFunctions = {};\n        const zoomStops = [];\n        for (let s = 0; s < parameters.stops.length; s++) {\n            const stop = parameters.stops[s];\n            const zoom = stop[0].zoom;\n            if (featureFunctions[zoom] === undefined) {\n                featureFunctions[zoom] = {\n                    zoom,\n                    type: parameters.type,\n                    property: parameters.property,\n                    default: parameters.default,\n                    stops: []\n                };\n                zoomStops.push(zoom);\n            }\n            featureFunctions[zoom].stops.push([stop[0].value, stop[1]]);\n        }\n\n        const featureFunctionStops = [];\n        for (const z of zoomStops) {\n            featureFunctionStops.push([featureFunctions[z].zoom, createFunction(featureFunctions[z], propertySpec)]);\n        }\n\n        const interpolationType = {name: 'linear'};\n        return {\n            kind: 'composite',\n            interpolationType,\n            interpolationFactor: Interpolate.interpolationFactor.bind(undefined, interpolationType),\n            zoomStops: featureFunctionStops.map(s => s[0]),\n            evaluate({zoom}, properties) {\n                return evaluateExponentialFunction({\n                    stops: featureFunctionStops,\n                    base: parameters.base\n                }, propertySpec, zoom).evaluate(zoom, properties);\n            }\n        };\n    } else if (zoomDependent) {\n        const interpolationType = type === 'exponential' ?\n            {name: 'exponential', base: parameters.base !== undefined ? parameters.base : 1} : null;\n        return {\n            kind: 'camera',\n            interpolationType,\n            interpolationFactor: Interpolate.interpolationFactor.bind(undefined, interpolationType),\n            zoomStops: parameters.stops.map(s => s[0]),\n            evaluate: ({zoom}) => innerFun(parameters, propertySpec, zoom, hashedStops, categoricalKeyType)\n        };\n    } else {\n        return {\n            kind: 'source',\n            evaluate(_, feature) {\n                const value = feature && feature.properties ? feature.properties[parameters.property] : undefined;\n                if (value === undefined) {\n                    return coalesce(parameters.default, propertySpec.default);\n                }\n                return innerFun(parameters, propertySpec, value, hashedStops, categoricalKeyType);\n            }\n        };\n    }\n}\n\nfunction coalesce(a, b, c) {\n    if (a !== undefined) return a;\n    if (b !== undefined) return b;\n    if (c !== undefined) return c;\n}\n\nfunction evaluateCategoricalFunction(parameters, propertySpec, input, hashedStops, keyType) {\n    const evaluated = typeof
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input === keyType ? hashedStops[input] : undefined; // Enforce strict typing on input\n    return coalesce(evaluated, parameters.default, propertySpec.default);\n}\n\nfunction evaluateIntervalFunction(parameters, propertySpec, input) {\n    // Edge cases\n    if (getType(input) !== 'number') return coalesce(parameters.default, propertySpec.default);\n    const n = parameters.stops.length;\n    if (n === 1) return parameters.stops[0][1];\n    if (input <= parameters.stops[0][0]) return parameters.stops[0][1];\n    if (input >= parameters.stops[n - 1][0]) return parameters.stops[n - 1][1];\n\n    const index = findStopLessThanOrEqualTo(parameters.stops.map((stop) => stop[0]), input);\n\n    return parameters.stops[index][1];\n}\n\nfunction evaluateExponentialFunction(parameters, propertySpec, input) {\n    const base = parameters.base !== undefined ? parameters.base : 1;\n\n    // Edge cases\n    if (getType(input) !== 'number') return coalesce(parameters.default, propertySpec.default);\n    const n = parameters.stops.length;\n    if (n === 1) return parameters.stops[0][1];\n    if (input <= parameters.stops[0][0]) return parameters.stops[0][1];\n    if (input >= parameters.stops[n - 1][0]) return parameters.stops[n - 1][1];\n\n    const index = findStopLessThanOrEqualTo(parameters.stops.map((stop) => stop[0]), input);\n    const t = interpolationFactor(\n        input, base,\n        parameters.stops[index][0],\n        parameters.stops[index + 1][0]);\n\n    const outputLower = parameters.stops[index][1];\n    const outputUpper = parameters.stops[index + 1][1];\n    let interp = interpolate[propertySpec.type] || identityFunction; // eslint-disable-line import/namespace\n\n    if (parameters.colorSpace && parameters.colorSpace !== 'rgb') {\n        const colorspace = colorSpaces[parameters.colorSpace]; // eslint-disable-line import/namespace\n        interp = (a, b) => colorspace.reverse(colorspace.interpolate(colorspace.forward(a), colorspace.forward(b), t));\n    }\n\n    if (typeof outputLower.evaluate === 'function') {\n        return {\n            evaluate(...args) {\n                const evaluatedLower = outputLower.evaluate.apply(undefined, args);\n                const evaluatedUpper = outputUpper.evaluate.apply(undefined, args);\n                // Special case for fill-outline-color, which has no spec default.\n                if (evaluatedLower === undefined || evaluatedUpper === undefined) {\n                    return undefined;\n                }\n                return interp(evaluatedLower, evaluatedUpper, t);\n            }\n        };\n    }\n\n    return interp(outputLower, outputUpper, t);\n}\n\nfunction evaluateIdentityFunction(parameters, propertySpec, input) {\n    if (propertySpec.type === 'color') {\n        input = Color.parse(input);\n    } else if (propertySpec.type === 'formatted') {\n        input = Formatted.fromString(input.toString());\n    } else if (propertySpec.type === 'resolvedImage') {\n        input = ResolvedImage.fromString(input.toString());\n    } else if (getType(input) !== propertySpec.type && (propertySpec.type !== 'enum' || !propertySpec.values[input])) {\n        input = undefined;\n    }\n    return coalesce(input, parameters.default, propertySpec.default);\n}\n\n/**\n * Returns a ratio that can be used to interpolate between exponential function\n * stops.\n *\n * How it works:\n * Two consecutive stop values define a (scaled and shifted) exponential\n * function `f(x) = a * base^x + b`, where `base` is the user-specified base,\n * and `a` and `b` are constants affording sufficient degrees of freedom to fit\n * the function to the given stops.\n *\n * Here's a bit of algebra that lets us compute `f(x)` directly from the stop\n * values without explicitly solving for `a` and `b`:\n *\n * First stop value: `f(x0) = y0 = a * base^x0 + b`\n * Second stop value: `f(x1) = y1 = a * base^x1 + b`\n * => `y1 - y0 = a(base^x1 - base^x0)`\n * => `a = (y1 - y0)/(base^x1 - base^x0)`\n *\n * Desired value: `f(x) = y = a * base^x + b`\n * => `f(x) = y0 + a * (base^x - base^x0)`\n *\n * From the above, we can replace the `a` in `a * (base^x - base^x0)` and do a\n * little algebra:\n * ```\n * a * (base^x - base^x0) = (y1 - y0)/(base^x1 - base^x0) * (base^x - base^x0)\n *                        = (y1 - y0) * (base^x - base^x0) / (base^x1 - base^x0)\n * ```\n *\n * If we let `(base^x - base^x0) / (base^x1 base^x0)`, then we have\n * `f(x) = y0 + (y1 - y0) * ratio`.  In other words, `ratio` may be treated as\n * an interpolation factor between the two stops' output values.\n *\n * (Note: a slightly different form for `ratio`,\n * `(base^(x-x0) - 1) / (base^(x1-x0) - 1) `, is equivalent, but requires fewer\n * expensive `Math.pow()` operations.)\n *\n * @private\n */\nfunction interpolationFactor(input, base, lowerValue, upperValue) {\n    const difference = upperValue - lowerValue;\n    const progress = input - lowerValue;\n\n    if (difference === 0) {\n        return 0;\n    } else if (base === 1) {\n        return progress / difference;\n    } else {\n        return (Math.pow(base, progress) - 1) / (Math.pow(base, difference) - 1);\n    }\n}\n","// @flow\n\nimport assert from 'assert';\n\nimport extend from '../util/extend.js';\nimport ParsingError from './parsing_error.js';\nimport ParsingContext from './parsing_context.js';\nimport EvaluationContext from './evaluation_context.js';\nimport CompoundExpression from './compound_expression.js';\nimport Step from './definitions/step.js';\nimport Interpolate
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from './definitions/interpolate.js';\nimport Coalesce from './definitions/coalesce.js';\nimport Let from
'./definitions/let.js';\nimport definitions from './definitions/index.js';\nimport * as isConstant from
'./is_constant.js';\nimport RuntimeError from './runtime_error.js';\nimport {success, error} from
'../util/result.js';\nimport {supportsPropertyExpression, supportsZoomExpression, supportsInterpolation} from
'../util/properties.js';\n\nimport type {Type, EvaluationKind} from './types.js';\nimport type {Value} from
'./values.js';\nimport type {Expression} from './expression.js';\nimport type {StylePropertySpecification} from
'../style-spec.js';\nimport type {Result} from '../util/result.js';\nimport type {InterpolationType} from
'./definitions/interpolate.js';\nimport type {PropertyValueSpecification} from '../types.js';\nimport type
{FormattedSection} from './types/formatted.js';\nimport type Point from '@mapbox/point-geometry';\nimport type
{CanonicalTileID} from '../../source/tile_id.js';\nimport type {FeatureDistanceData} from
'../feature_filter/index.js';\n\nexport type Feature = {\n    +type: 1 | 2 | 3 | 'Unknown' | 'Point' | 'LineString' |
'Polygon',\n    +id?: number | null,\n    +properties: {[_: string]: any},\n    +patterns?: {[_: string]: string},\n
+geometry?: Array<Array<Point>>\n};\n\nexport type FeatureState = {[_: string]: any};\n\nexport type
GlobalProperties = $ReadOnly<{\n    zoom: number,\n    pitch?: number,\n    heatmapDensity?: number,\n
lineProgress?: number,\n    skyRadialProgress?: number,\n    isSupportedScript?: (_: string) => boolean,\n
accumulated?: Value\n}>;\n\nexport class StyleExpression {\n    expression: Expression;\n\n    _evaluator:
EvaluationContext;\n    _defaultValue: Value;\n    _warningHistory: {[key: string]: boolean};\n    _enumValues:
?{[_: string]: any};\n\n    constructor(expression: Expression, propertySpec: ?StylePropertySpecification) {\n
this.expression = expression;\n        this._warningHistory = {};\n        this._evaluator = new EvaluationContext();\n
  this._defaultValue = propertySpec ? getDefaultValue(propertySpec) : null;\n        this._enumValues =
propertySpec && propertySpec.type === 'enum' ? propertySpec.values : null;\n    }\n\n
evaluateWithoutErrorHandling(globals: GlobalProperties, feature?: Feature, featureState?: FeatureState, canonical?:
CanonicalTileID, availableImages?: Array<string>, formattedSection?: FormattedSection, featureTileCoord?: Point,
featureDistanceData?: FeatureDistanceData): any {\n        this._evaluator.globals = globals;\n
this._evaluator.feature = feature;\n        this._evaluator.featureState = featureState;\n        this._evaluator.canonical =
canonical || null;\n        this._evaluator.availableImages = availableImages || null;\n
this._evaluator.formattedSection = formattedSection;\n        this._evaluator.featureTileCoord = featureTileCoord ||
null;\n        this._evaluator.featureDistanceData = featureDistanceData || null;\n\n        return
this.expression.evaluate(this._evaluator);\n    }\n\n    evaluate(globals: GlobalProperties, feature?: Feature,
featureState?: FeatureState, canonical?: CanonicalTileID, availableImages?: Array<string>, formattedSection?:
FormattedSection, featureTileCoord?: Point, featureDistanceData?: FeatureDistanceData): any {\n
this._evaluator.globals = globals;\n        this._evaluator.feature = feature || null;\n        this._evaluator.featureState =
featureState || null;\n        this._evaluator.canonical = canonical || null;\n        this._evaluator.availableImages =
availableImages || null;\n        this._evaluator.formattedSection = formattedSection || null;\n
this._evaluator.featureTileCoord = featureTileCoord || null;\n        this._evaluator.featureDistanceData =
featureDistanceData || null;\n\n        try {\n            const val = this.expression.evaluate(this._evaluator);\n            //
eslint-disable-next-line no-self-compare\n            if (val === null || val === undefined || (typeof val === 'number'
&& val !== val)) {\n                return this._defaultValue;\n            }\n            if (this._enumValues && !(val in
this._enumValues)) {\n                throw new RuntimeError(`Expected value to be one of
${Object.keys(this._enumValues).map(v => JSON.stringify(v)).join(', ')}, but found ${JSON.stringify(val)}
instead.`);\n            }\n            return val;\n        } catch (e) {\n            if (!this._warningHistory[e.message]) {\n
  this._warningHistory[e.message] = true;\n                if (typeof console !== 'undefined') {\n
console.warn(e.message);\n                }\n            }\n            return this._defaultValue;\n        }\n    }\n}\n\nexport
function isExpression(expression: mixed): boolean {\n    return Array.isArray(expression) && expression.length > 0
&&\n        typeof expression[0] === 'string' && expression[0] in definitions;\n}\n\n/**\n * Parse and typecheck the
given style spec JSON expression.  If\n * options.defaultValue is provided, then the resulting StyleExpression's\n *
`evaluate()` method will handle errors by logging a warning (once per\n * message) and returning the default value.
Otherwise, it will throw\n * evaluation errors.\n *\n * @private\n */\nexport function createExpression(expression:
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mixed, propertySpec: ?StylePropertySpecification): Result<StyleExpression, Array<ParsingError>> {\n const parser = new ParsingContext(definitions, [], propertySpec ? getExpectedType(propertySpec) : undefined);\n\n // For string-valued properties, coerce to string at the top level rather than asserting.\n const parsed = parser.parse(expression, undefined, undefined, undefined,\n propertySpec && propertySpec.type === 'string' ? {typeAnnotation: 'coerce'} : undefined);\n\n if (!parsed) {\n assert(parser.errors.length > 0);\n return error(parser.errors);\n }\n\n return success(new StyleExpression(parsed, propertySpec));\n}\n\nexport class ZoomConstantExpression<Kind: EvaluationKind> {\n kind: Kind;\n isStateDependent: boolean;\n _styleExpression: StyleExpression;\n\n constructor(kind: Kind, expression: StyleExpression) {\n this.kind = kind;\n this._styleExpression = expression;\n this.isStateDependent = kind !== ('constant': EvaluationKind) && !isConstant.isStateConstant(expression.expression);\n }\n\n evaluateWithoutErrorHandling(globals: GlobalProperties, feature?: Feature, featureState?: FeatureState, canonical?: CanonicalTileID, availableImages?: Array<string>, formattedSection?: FormattedSection): any {\n return this._styleExpression.evaluateWithoutErrorHandling(globals, feature, featureState, canonical, availableImages, formattedSection);\n }\n\n evaluate(globals: GlobalProperties, feature?: Feature, featureState?: FeatureState, canonical?: CanonicalTileID, availableImages?: Array<string>, formattedSection?: FormattedSection): any {\n return this._styleExpression.evaluate(globals, feature, featureState, canonical, availableImages, formattedSection);\n }\n}\n\nexport class ZoomDependentExpression<Kind: EvaluationKind> {\n kind: Kind;\n zoomStops: Array<number>;\n isStateDependent: boolean;\n\n _styleExpression: StyleExpression;\n interpolationType: ?InterpolationType;\n\n constructor(kind: Kind, expression: StyleExpression, zoomStops: Array<number>, interpolationType?: InterpolationType) {\n this.kind = kind;\n this.zoomStops = zoomStops;\n this._styleExpression = expression;\n this.isStateDependent = kind !== ('camera': EvaluationKind) && !isConstant.isStateConstant(expression.expression);\n this.interpolationType = interpolationType;\n }\n\n evaluateWithoutErrorHandling(globals: GlobalProperties, feature?: Feature, featureState?: FeatureState, canonical?: CanonicalTileID, availableImages?: Array<string>, formattedSection?: FormattedSection): any {\n return this._styleExpression.evaluateWithoutErrorHandling(globals, feature, featureState, canonical, availableImages, formattedSection);\n }\n\n evaluate(globals: GlobalProperties, feature?: Feature, featureState?: FeatureState, canonical?: CanonicalTileID, availableImages?: Array<string>, formattedSection?: FormattedSection): any {\n return this._styleExpression.evaluate(globals, feature, featureState, canonical, availableImages, formattedSection);\n }\n\n interpolationFactor(input: number, lower: number, upper: number): number {\n if (this.interpolationType) {\n return Interpolate.interpolationFactor(this.interpolationType, input, lower, upper);\n } else {\n return 0;\n }\n }\n}\n\nexport type ConstantExpression = {\n kind: 'constant',\n +evaluate: (globals: GlobalProperties, feature?: Feature, featureState?: FeatureState, canonical?: CanonicalTileID, availableImages?: Array<string>) => any,\n}\n\nexport type SourceExpression = {\n kind: 'source',\n isStateDependent: boolean,\n +evaluate: (globals: GlobalProperties, feature?: Feature, featureState?: FeatureState, canonical?: CanonicalTileID, availableImages?: Array<string>, formattedSection?: FormattedSection) => any,\n};\n\nexport type CameraExpression = {\n kind: 'camera',\n +evaluate: (globals: GlobalProperties, feature?: Feature, featureState?: FeatureState, canonical?: CanonicalTileID, availableImages?: Array<string>) => any,\n +interpolationFactor: (input: number, lower: number, upper: number) => number,\n zoomStops: Array<number>,\n interpolationType: ?InterpolationType\n};\n\nexport type CompositeExpression = {\n kind: 'composite',\n isStateDependent: boolean,\n +evaluate: (globals: GlobalProperties, feature?: Feature, featureState?: FeatureState, canonical?: CanonicalTileID, availableImages?: Array<string>, formattedSection?: FormattedSection) => any,\n +interpolationFactor: (input: number, lower: number, upper: number) => number,\n zoomStops: Array<number>,\n interpolationType: ?InterpolationType\n};\n\nexport type StylePropertyExpression =\n | ConstantExpression\n | SourceExpression\n | CameraExpression\n | CompositeExpression;\n\nexport function createPropertyExpression(expression: mixed, propertySpec: StylePropertySpecification): Result<StylePropertyExpression, Array<ParsingError>> {\n expression = createExpression(expression, propertySpec);\n if (expression.result === 'error') {\n return expression;\n }\n\n const parsed = expression.value.expression;\n\n const isFeatureConstant = isConstant.isFeatureConstant(parsed);\n if

(!isFeatureConstant && !supportsPropertyExpression(propertySpec)) {\n return error([new ParsingError('', 'data expressions not supported')]);\n }\n\n const isZoomConstant = isConstant.isGlobalPropertyConstant(parsed, ['zoom', 'pitch', 'distance-from-center']);\n if (!isZoomConstant && !supportsZoomExpression(propertySpec)) {\n return error([new ParsingError('', 'zoom expressions not supported')]);\n }\n\n const zoomCurve = findZoomCurve(parsed);\n if (!zoomCurve && !isZoomConstant) {\n return error([new ParsingError('', '\"zoom\" expression may only be used as input to a top-level \"step\" or \"interpolate\" expression.')]);\n } else if (zoomCurve instanceof ParsingError) {\n return error([zoomCurve]);\n } else if (zoomCurve instanceof Interpolate && !supportsInterpolation(propertySpec)) {\n return error([new ParsingError('', '\"interpolate\" expressions cannot be used with this property')]);\n }\n\n if (!zoomCurve) {\n return success(isFeatureConstant ?\n (new ZoomConstantExpression('constant', expression.value): ConstantExpression) :\n (new ZoomConstantExpression('source', expression.value): SourceExpression));\n }\n\n const interpolationType = zoomCurve instanceof Interpolate ? zoomCurve.interpolation : undefined;\n\n return success(isFeatureConstant ?\n (new ZoomDependentExpression('camera', expression.value, zoomCurve.labels, interpolationType): CameraExpression) :\n (new ZoomDependentExpression('composite', expression.value, zoomCurve.labels, interpolationType): CompositeExpression));\n}\n\nimport {isFunction, createFunction} from '../function/index.js';\nimport {Color} from './values.js';\n\n// serialization wrapper for old-style stop functions normalized to the\n// expression interface\nexport class StylePropertyFunction<T> {\n _parameters: PropertyValueSpecification<T>;\n _specification: StylePropertySpecification;\n\n kind: EvaluationKind;\n evaluate: (globals: GlobalProperties, feature?: Feature) => any;\n interpolationFactor: ?(input: number, lower: number, upper: number) => number;\n zoomStops: ?Array<number>;\n\n constructor(parameters: PropertyValueSpecification<T>, specification: StylePropertySpecification) {\n this._parameters = parameters;\n this._specification = specification;\n extend(this, createFunction(this._parameters, this._specification));\n }\n\n static deserialize(serialized: {_parameters: PropertyValueSpecification<T>, _specification: StylePropertySpecification}): StylePropertyFunction<T> {\n return new StylePropertyFunction(serialized._parameters, serialized._specification);\n }\n\n static serialize(input: StylePropertyFunction<T>): {_parameters: PropertyValueSpecification<T>, _specification: StylePropertySpecification} {\n return {\n _parameters: input._parameters,\n _specification: input._specification\n };\n }\n}\n\nexport function normalizePropertyExpression<T>(value: PropertyValueSpecification<T>, specification: StylePropertySpecification): StylePropertyExpression {\n if (isFunction(value)) {\n return (new StylePropertyFunction(value, specification): any);\n\n } else if (isExpression(value)) {\n const expression = createPropertyExpression(value, specification);\n if (expression.result === 'error') {\n // this should have been caught in validation\n throw new Error(expression.value.map(err => `${err.key}: ${err.message}`).join(', '));\n }\n return expression.value;\n\n } else {\n let constant: any = value;\n if (typeof value === 'string' && specification.type === 'color') {\n constant = Color.parse(value);\n }\n return {\n kind: 'constant',\n evaluate: () => constant\n };\n }\n}\n\n// Zoom-dependent expressions may only use [\"zoom\"] as the input to a top-level \"step\" or \"interpolate\"\n// expression (collectively referred to as a \"curve\"). The curve may be wrapped in one or more \"let\" or\n// \"coalesce\" expressions.\nfunction findZoomCurve(expression: Expression): Step | Interpolate | ParsingError | null {\n let result = null;\n if (expression instanceof Let) {\n result = findZoomCurve(expression.result);\n\n } else if (expression instanceof Coalesce) {\n for (const arg of expression.args) {\n result = findZoomCurve(arg);\n if (result) {\n break;\n }\n }\n\n } else if ((expression instanceof Step || expression instanceof Interpolate) &&\n expression.input instanceof CompoundExpression &&\n expression.input.name === 'zoom') {\n\n result = expression;\n }\n\n if (result instanceof ParsingError) {\n return result;\n }\n\n expression.eachChild((child) => {\n const childResult = findZoomCurve(child);\n if (childResult instanceof ParsingError) {\n result = childResult;\n } else if (!result && childResult) {\n result = new ParsingError('', '\"zoom\" expression may only be used as input to a top-level \"step\" or \"interpolate\" expression.');\n } else if (result && childResult && result !== childResult) {\n result = new

ParsingError('', 'Only one zoom-based \"step\" or \"interpolate\" subexpression may be used in an expression.');\n }\n });\n\n return result;\n}\n\nimport {ColorType, StringType, NumberType, BooleanType, ValueType, FormattedType, ResolvedImageType, array} from './types.js';\n\nfunction getExpectedType(spec: StylePropertySpecification): Type {\n const types = {\n color: ColorType,\n string: StringType,\n number: NumberType,\n enum: StringType,\n boolean: BooleanType,\n formatted: FormattedType,\n resolvedImage: ResolvedImageType\n };\n\n if (spec.type === 'array') {\n return array(types[spec.value] || ValueType, spec.length);\n }\n\n return types[spec.type];\n}\n\nfunction getDefaultValue(spec: StylePropertySpecification): Value {\n if (spec.type === 'color' && (isFunction(spec.default) || Array.isArray(spec.default))) {\n // Special case for heatmap-color: it uses the 'default:' to define a\n // default color ramp, but createExpression expects a simple value to fall\n // back to in case of runtime errors\n return new Color(0, 0, 0, 0);\n } else if (spec.type === 'color') {\n return Color.parse(spec.default) || null;\n } else if (spec.default === undefined) {\n return null;\n } else {\n return spec.default;\n }\n}\n","// @flow\n\nimport assert from 'assert';\n\nimport type {StylePropertySpecification} from '../style-spec.js';\nimport type {ExpressionSpecification} from '../types.js';\n\nfunction convertLiteral(value) {\n return typeof value === 'object' ? ['literal', value] : value;\n}\n\nexport default function convertFunction(parameters: any, propertySpec: StylePropertySpecification): ExpressionSpecification {\n let stops = parameters.stops;\n if (!stops) {\n // identity function\n return convertIdentityFunction(parameters, propertySpec);\n }\n\n const zoomAndFeatureDependent = stops && typeof stops[0][0] === 'object';\n const featureDependent = zoomAndFeatureDependent || parameters.property !== undefined;\n const zoomDependent = zoomAndFeatureDependent || !featureDependent;\n\n stops = stops.map((stop) => {\n if (!featureDependent && propertySpec.tokens && typeof stop[1] === 'string') {\n return [stop[0], convertTokenString(stop[1])];\n }\n return [stop[0], convertLiteral(stop[1])];\n });\n\n if (zoomAndFeatureDependent) {\n return convertZoomAndPropertyFunction(parameters, propertySpec, stops);\n } else if (zoomDependent) {\n return convertZoomFunction(parameters, propertySpec, stops);\n } else {\n return convertPropertyFunction(parameters, propertySpec, stops);\n }\n}\n\nfunction convertIdentityFunction(parameters, propertySpec): Array<mixed> {\n const get = ['get', parameters.property];\n\n if (parameters.default === undefined) {\n // By default, expressions for string-valued properties get coerced. To preserve\n // legacy function semantics, insert an explicit assertion instead.\n return propertySpec.type === 'string' ? ['string', get] : get;\n } else if (propertySpec.type === 'enum') {\n return [\n 'match',\n get,\n Object.keys(propertySpec.values),\n get,\n parameters.default\n];\n } else {\n const expression = [propertySpec.type === 'color' ? 'to-color' : propertySpec.type, get, convertLiteral(parameters.default)];\n if (propertySpec.type === 'array') {\n expression.splice(1, 0, propertySpec.value, propertySpec.length || null);\n }\n return expression;\n }\n}\n\nfunction getInterpolateOperator(parameters) {\n switch (parameters.colorSpace) {\n case 'hcl': return 'interpolate-hcl';\n case 'lab': return 'interpolate-lab';\n default: return 'interpolate';\n }\n}\n\nfunction convertZoomAndPropertyFunction(parameters, propertySpec, stops) {\n const featureFunctionParameters = {};\n const featureFunctionStops = {};\n const zoomStops = [];\n for (let s = 0; s < stops.length; s++) {\n const stop = stops[s];\n const zoom = stop[0].zoom;\n if (featureFunctionParameters[zoom] === undefined) {\n featureFunctionParameters[zoom] = {\n zoom,\n type: parameters.type,\n property: parameters.property,\n default: parameters.default,\n };\n featureFunctionStops[zoom] = [];\n zoomStops.push(zoom);\n }\n featureFunctionStops[zoom].push([stop[0].value, stop[1]]);\n }\n\n // the interpolation type for the zoom dimension of a zoom-and-property\n // function is determined directly from the style property specification\n // for which it's being used: linear for interpolatable properties, step\n // otherwise.\n const functionType = getFunctionType({}, propertySpec);\n if (functionType === 'exponential') {\n const expression = [getInterpolateOperator(parameters), ['linear'], ['zoom']];\n\n for (const z of zoomStops) {\n const output = convertPropertyFunction(featureFunctionParameters[z], propertySpec, featureFunctionStops[z]);\n appendStopPair(expression, z, output, false);\n }\n\n return expression;\n } else {\n const expression = ['step', ['zoom']];\n\n for (const z of zoomStops) {\n const output =

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convertPropertyFunction(featureFunctionParameters[z], propertySpec, featureFunctionStops[z]);\n
appendStopPair(expression, z, output, true);\n        }\n\n        fixupDegenerateStepCurve(expression);\n\n        return
expression;\n    }\n}\n\nfunction coalesce(a, b) {\n    if (a !== undefined) return a;\n    if (b !== undefined) return
b;\n}\n\nfunction getFallback(parameters, propertySpec) {\n    const defaultValue =
convertLiteral(coalesce(parameters.default, propertySpec.default));\n\n    /*\n     * Some fields with type:
resolvedImage have an undefined default.\n     * Because undefined is an invalid value for resolvedImage, set
fallback to\n     * an empty string instead of undefined to ensure output\n     * passes validation.\n     */\n    if
(defaultValue === undefined && propertySpec.type === 'resolvedImage') {\n        return '';\n    }\n    return
defaultValue;\n}\n\nfunction convertPropertyFunction(parameters, propertySpec, stops) {\n    const type =
getFunctionType(parameters, propertySpec);\n    const get = ['get', parameters.property];\n    if (type ===
'categorical' && typeof stops[0][0] === 'boolean') {\n        assert(parameters.stops.length > 0 &&
parameters.stops.length <= 2);\n        const expression = ['case'];\n        for (const stop of stops) {\n
expression.push(['==', get, stop[0]], stop[1]);\n        }\n\n        expression.push(getFallback(parameters,
propertySpec));\n        return expression;\n    } else if (type === 'categorical') {\n        const expression = ['match',
get];\n        for (const stop of stops) {\n            appendStopPair(expression, stop[0], stop[1], false);\n        }\n
expression.push(getFallback(parameters, propertySpec));\n        return expression;\n    } else if (type === 'interval')
{\n        const expression = ['step', ['number', get]];\n        for (const stop of stops) {\n
appendStopPair(expression, stop[0], stop[1], true);\n        }\n        fixupDegenerateStepCurve(expression);\n
return parameters.default === undefined ? expression : [\n            'case',\n            ['==', ['typeof', get], 'number'],\n
    expression,\n            convertLiteral(parameters.default)\n        ];\n    } else if (type === 'exponential') {\n
const base = parameters.base !== undefined ? parameters.base : 1;\n        const expression = [\n
getInterpolateOperator(parameters),\n            base === 1 ? [\"linear\"] : [\"exponential\", base],\n            [\"number\",
get]\n        ];\n\n        for (const stop of stops) {\n            appendStopPair(expression, stop[0], stop[1], false);\n
}\n        return parameters.default === undefined ? expression : [\n            'case',\n            ['==', ['typeof', get],
'number'],\n            expression,\n            convertLiteral(parameters.default)\n        ];\n    } else {\n        throw new
Error(`Unknown property function type ${type}`);\n    }\n}\n\nfunction convertZoomFunction(parameters,
propertySpec, stops, input = ['zoom']) {\n    const type = getFunctionType(parameters, propertySpec);\n    let
expression;\n    let isStep = false;\n    if (type === 'interval') {\n        expression = ['step', input];\n        isStep =
true;\n    } else if (type === 'exponential') {\n        const base = parameters.base !== undefined ? parameters.base :
1;\n        expression = [getInterpolateOperator(parameters), base === 1 ? [\"linear\"] : [\"exponential\", base],
input];\n\n    } else {\n        throw new Error(`Unknown zoom function type \"${type}\"`);\n    }\n\n    for (const stop
of stops) {\n        appendStopPair(expression, stop[0], stop[1], isStep);\n    }\n\n
fixupDegenerateStepCurve(expression);\n\n    return expression;\n}\n\nfunction
fixupDegenerateStepCurve(expression) {\n    // degenerate step curve (i.e. a constant function): add a noop stop\n
if (expression[0] === 'step' && expression.length === 3) {\n        expression.push(0);\n
expression.push(expression[3]);\n    }\n}\n\nfunction appendStopPair(curve, input, output, isStep) {\n    // Skip
duplicate stop values. They were not validated for functions, but they are for expressions.\n    //
https://github.com/mapbox/mapbox-gl-js/issues/4107\n    if (curve.length > 3 && input === curve[curve.length - 2])
{\n        return;\n    }\n    // step curves don't get the first input value, as it is redundant.\n    if (!(isStep &&
curve.length === 2)) {\n        curve.push(input);\n    }\n    curve.push(output);\n}\n\nfunction
getFunctionType(parameters, propertySpec) {\n    if (parameters.type) {\n        return parameters.type;\n    } else {\n
    assert(propertySpec.expression);\n        return (propertySpec.expression: any).interpolated ? 'exponential' :
'interval';\n    }\n}\n\n// \"String with {name} token\" => [\"concat\", \"String with \", [\"get\", \"name\"], \"
token\"]\nexport function convertTokenString(s: string): string | ExpressionSpecification {\n    const result =
['concat'];\n    const re = /{([^{}]+)}/g;\n    let pos = 0;\n    for (let match = re.exec(s); match !== null; match =
re.exec(s)) {\n        const literal = s.slice(pos, re.lastIndex - match[0].length);\n        pos = re.lastIndex;\n        if
(literal.length > 0) result.push(literal);\n        result.push(['get', match[1]]);\n    }\n\n    if (result.length === 1) {\n
return s;\n    }\n\n    if (pos < s.length) {\n        result.push(s.slice(pos));\n    } else if (result.length === 2) {\n
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return ['to-string', result[1]];\n }\n\n return result;\n}\n\n","// @flow\n\n// Turn jsonlint-lines-primitives objects into primitive objects\nexport function unbundle(value: mixed): mixed {\n if (value instanceof Number || value instanceof String || value instanceof Boolean) {\n   return value.valueOf();\n } else {\n   return value;\n }\n}\n\nexport function deepUnbundle(value: mixed): mixed {\n if (Array.isArray(value)) {\n   return value.map(deepUnbundle);\n } else if (value instanceof Object && !(value instanceof Number || value instanceof String || value instanceof Boolean)) {\n   const unbundledValue: { [key: string]: mixed } = {};\n   for (const key in value) {\n   unbundledValue[key] = deepUnbundle(value[key]);\n   }\n   return unbundledValue;\n }\n\n return unbundle(value);\n}\n","// @flow\n\nimport {createExpression} from '../expression/index.js';\nimport {isFeatureConstant} from '../expression/is_constant.js';\nimport {deepUnbundle} from '../util/unbundle_jsonlint.js';\nimport latest from '../reference/latest.js';\nimport type {GlobalProperties, Feature} from '../expression/index.js';\nimport type {CanonicalTileID} from '../../source/tile_id.js';\nimport type Point from '@mapbox/point-geometry';\n\nexport type FeatureDistanceData = {bearing: [number, number], center: [number, number], scale: number};\nexport type FilterExpression = (globalProperties: GlobalProperties, feature: Feature, canonical?: CanonicalTileID, featureTileCoord?: Point, featureDistanceData?: FeatureDistanceData) => boolean;\nexport type FeatureFilter = {filter: FilterExpression, dynamicFilter?: FilterExpression, needGeometry: boolean, needFeature: boolean};\n\nexport default createFilter;\nexport {isExpressionFilter, isDynamicFilter, extractStaticFilter};\n\nfunction isExpressionFilter(filter: any): boolean {\n if (filter === true || filter === false) {\n   return true;\n }\n\n if (!Array.isArray(filter) || filter.length === 0) {\n   return false;\n }\n switch (filter[0]) {\n case 'has':\n   return filter.length >= 2 && filter[1] !== '$id' && filter[1] !== '$type';\n\n case 'in':\n   return filter.length >= 3 && (typeof filter[1] !== 'string' || Array.isArray(filter[2]));\n\n case '!in':\n case '!has':\n case 'none':\n   return false;\n\n case '==':\n case '!=':\n case '>':\n case '>=':\n case '<':\n case '<=':\n   return filter.length !== 3 || (Array.isArray(filter[1]) || Array.isArray(filter[2]));\n\n case 'any':\n case 'all':\n   for (const f of filter.slice(1)) {\n   if (!isExpressionFilter(f) && typeof f !== 'boolean') {\n   return false;\n   }\n   }\n   return true;\n\n default:\n   return true;\n }\n}\n\n/**\n * Given a filter expressed as nested arrays, return a new function\n * that evaluates whether a given feature (with a .properties or .tags property)\n * passes its test.\n *\n * @private\n * @param {Array} filter mapbox gl filter\n * @param {string} layerType the type of the layer this filter will be applied to.\n * @returns {Function} filter-evaluating function\n */\nfunction createFilter(filter: any, layerType?: string = 'fill'): FeatureFilter {\n if (filter === null || filter === undefined) {\n   return {filter: () => true, needGeometry: false, needFeature: false};\n }\n\n if (!isExpressionFilter(filter)) {\n   filter = convertFilter(filter);\n }\n const filterExp = ((filter: any): string[] | string | boolean);\n\n let staticFilter = true;\n try {\n   staticFilter = extractStaticFilter(filterExp);\n } catch (e) {\n   console.warn(\n`Failed to extract static filter. Filter will continue working, but at higher memory usage and slower framerate.\nThis is most likely a bug, please report this via https://github.com/mapbox/mapbox-gl-js/issues/new?assignees=&labels=&template=Bug_report.md\nand paste the contents of this message in the report.\nThank you!\nFilter Expression:\n${JSON.stringify(filterExp, null, 2)}\n`);\n  }\n\n  // Compile the static component of the filter\n  const filterSpec = latest[`filter_${layerType}`];\n  const compiledStaticFilter = createExpression(staticFilter, filterSpec);\n\n  let filterFunc = null;\n  if (compiledStaticFilter.result === 'error') {\n    throw new Error(compiledStaticFilter.value.map(err => `${err.key}: ${err.message}`).join(', '));\n } else {\n   filterFunc = (globalProperties: GlobalProperties, feature: Feature, canonical?: CanonicalTileID) => compiledStaticFilter.value.evaluate(globalProperties, feature, {}, canonical);\n }\n\n // If the static component is not equal to the entire filter then we have a dynamic component\n // Compile the dynamic component separately\n let dynamicFilterFunc = null;\n let needFeature = null;\n if (staticFilter !== filterExp) {\n   const compiledDynamicFilter = createExpression(filterExp, filterSpec);\n\n   if (compiledDynamicFilter.result === 'error') {\n   throw new Error(compiledDynamicFilter.value.map(err => `${err.key}: ${err.message}`).join(', '));\n   } else {\n   dynamicFilterFunc = (globalProperties: GlobalProperties, feature: Feature, canonical?: CanonicalTileID, featureTileCoord?: Point, featureDistanceData?: FeatureDistanceData) => compiledDynamicFilter.value.evaluate(globalProperties, feature, {}, canonical, undefined, undefined, featureTileCoord, featureDistanceData);\n   needFeature =

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!isFeatureConstant(compiledDynamicFilter.value.expression);\n      }\n    }\n\n    filterFunc = ((filterFunc: any): FilterExpression);\n    const needGeometry = geometryNeeded(staticFilter);\n\n    return {\n      filter: filterFunc,\n      dynamicFilter: dynamicFilterFunc ? dynamicFilterFunc : undefined,\n      needGeometry,\n      needFeature: !!needFeature\n    };\n}\n\nfunction extractStaticFilter(filter: any): any {\n    if (!isDynamicFilter(filter)) {\n      return filter;\n    }\n\n    // Shallow copy so we can replace expressions in-place\n    let result = deepUnbundle(filter);\n\n    // 1. Union branches\n    unionDynamicBranches(result);\n\n    // 2. Collapse dynamic conditions to `true`\n    result = collapseDynamicBooleanExpressions(result);\n\n    return result;\n}\n\nfunction collapseDynamicBooleanExpressions(expression: any): any {\n    if (!Array.isArray(expression)) {\n      return expression;\n    }\n\n    const collapsed = collapsedExpression(expression);\n    if (collapsed === true) {\n      return collapsed;\n    } else {\n      return collapsed.map((subExpression) => collapseDynamicBooleanExpressions(subExpression));\n    }\n}\n\n/**\n * Traverses the expression and replaces all instances of branching on a\n * `dynamic` conditional (such as `['pitch']` or `['distance-from-center']`)\n * into an `any` expression.\n * This ensures that all possible outcomes of a `dynamic` branch are considered\n * when evaluating the expression upfront during filtering.\n *\n * @param {Array<any>} filter the filter expression mutated in-place.\n */\nfunction unionDynamicBranches(filter: any) {\n    let isBranchingDynamically = false;\n    const branches = [];\n\n    if (filter[0] === 'case') {\n      for (let i = 1; i < filter.length - 1; i += 2) {\n        isBranchingDynamically = isBranchingDynamically || isDynamicFilter(filter[i]);\n        branches.push(filter[i + 1]);\n      }\n\n      branches.push(filter[filter.length - 1]);\n    } else if (filter[0] === 'match') {\n      isBranchingDynamically = isBranchingDynamically || isDynamicFilter(filter[1]);\n\n      for (let i = 2; i < filter.length - 1; i += 2) {\n        branches.push(filter[i + 1]);\n      }\n      branches.push(filter[filter.length - 1]);\n    } else if (filter[0] === 'step') {\n      isBranchingDynamically = isBranchingDynamically || isDynamicFilter(filter[1]);\n\n      for (let i = 1; i < filter.length - 1; i += 2) {\n        branches.push(filter[i + 1]);\n      }\n    }\n\n    if (isBranchingDynamically) {\n      filter.length = 0;\n      filter.push('any', ...branches);\n    }\n\n    // traverse and recurse into children\n    for (let i = 1; i < filter.length; i++) {\n      unionDynamicBranches(filter[i]);\n    }\n}\n\nfunction isDynamicFilter(filter: any): boolean {\n    // Base Cases\n    if (!Array.isArray(filter)) {\n      return false;\n    }\n    if (isRootExpressionDynamic(filter[0])) {\n      return true;\n    }\n\n    for (let i = 1; i < filter.length; i++) {\n      const child = filter[i];\n      if (isDynamicFilter(child)) {\n        return true;\n      }\n    }\n\n    return false;\n}\n\nfunction isRootExpressionDynamic(expression: string): boolean {\n    return expression === 'pitch' ||\n      expression === 'distance-from-center';\n}\n\nconst dynamicConditionExpressions = new Set([\n    'in',\n    '==',\n    '!=',\n    '>',\n    '>=',\n    '<',\n    '<=',\n    'to-boolean'\n]);\n\nfunction collapsedExpression(expression: any): any {\n    if (dynamicConditionExpressions.has(expression[0])) {\n\n      for (let i = 1; i < expression.length; i++) {\n        const param = expression[i];\n        if (isDynamicFilter(param)) {\n          return true;\n        }\n      }\n    }\n    return expression;\n}\n\n// Comparison function to sort numbers and strings\nfunction compare(a, b) {\n    return a < b ? -1 : a > b ? 1 : 0;\n}\n\nfunction geometryNeeded(filter) {\n    if (!Array.isArray(filter)) return false;\n    if (filter[0] === 'within') return true;\n    for (let index = 1; index < filter.length; index++) {\n      if (geometryNeeded(filter[index])) return true;\n    }\n    return false;\n}\n\nfunction convertFilter(filter: ?Array<any>): mixed {\n    if (!filter) return true;\n    const op = filter[0];\n    if (filter.length <= 1) return (op !== 'any');\n    const converted =\n      op === '==' ? convertComparisonOp(filter[1], filter[2], '==') :\n      op === '!=' ? convertNegation(convertComparisonOp(filter[1], filter[2], '==')) :\n      op === '<' ||\n      op === '>' ||\n      op === '<=' ||\n      op === '>=' ? convertComparisonOp(filter[1], filter[2], op) :\n      op === 'any' ? convertDisjunctionOp(filter.slice(1)) :\n      op === 'all' ? ['all'].concat(filter.slice(1).map(convertFilter)) :\n      op === 'none' ? ['all'].concat(filter.slice(1).map(convertFilter).map(convertNegation)) :\n      op === 'in' ? convertInOp(filter[1], filter.slice(2)) :\n      op === '!in' ? convertNegation(convertInOp(filter[1], filter.slice(2))) :\n      op === 'has' ? convertHasOp(filter[1]) :\n      op === '!has' ? convertNegation(convertHasOp(filter[1])) :\n      op === 'within' ? filter :\n      true;\n    return converted;\n}\n\nfunction convertComparisonOp(property: string, value: any, op: string) {\n    switch (property) {\n    case '$type':\n      return [`filter-type-${op}`, value];\n    case '$id':\n      return [`filter-id-${op}`, value];\n    default:\n      return [`filter-${op}`, property, value];\n
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}\n}\n\nfunction convertDisjunctionOp(filters: Array<Array<any>>) {\n    return ['any'].concat(filters.map(convertFilter));\n}\n\nfunction convertInOp(property: string, values: Array<any>) {\n    if (values.length === 0) { return false; }\n    switch (property) {\n    case '$type':\n        return [`filter-type-in`, ['literal', values]];\n    case '$id':\n        return [`filter-id-in`, ['literal', values]];\n    default:\n        if (values.length > 200 && !values.some(v => typeof v !== typeof values[0])) {\n            return ['filter-in-large', property, ['literal', values.sort(compare)]];\n        } else {\n            return ['filter-in-small', property, ['literal', values]];\n        }\n    }\n}\n\nfunction convertHasOp(property: string) {\n    switch (property) {\n    case '$type':\n        return true;\n    case '$id':\n        return [`filter-has-id`];\n    default:\n        return [`filter-has`, property];\n    }\n}\n\nfunction convertNegation(filter: mixed) {\n    return ['!', filter];\n}\n","// @flow\n\nimport {isExpressionFilter} from './index.js';\n\nimport type {FilterSpecification} from '../types.js';\n\ntype ExpectedTypes = {[_: string]: 'string' | 'number' | 'boolean'};\n\n/**\n * Convert the given legacy filter to (the JSON representation of) an\n * equivalent expression\n * @private\n */\nexport default function convertFilter(filter: FilterSpecification): mixed {\n    return _convertFilter(filter, {});\n}\n\n/*\n * Convert the given filter to an expression, storing the expected types for\n * any feature properties referenced in expectedTypes.\n *\n * These expected types are needed in order to construct preflight type checks\n * needed for handling 'any' filters. A preflight type check is necessary in\n * order to mimic legacy filters' semantics around expected type mismatches.\n * For example, consider the legacy filter:\n *\n *  [\"any\", [\"all\", [\">\", \"y\", 0], [\">\", \"y\", 0]], [\">\", \"x\", 0]]\n *\n * Naively, we might convert this to the expression:\n *\n *     [\"any\", [\"all\", [\">\", [\"get\", \"y\"], 0], [\">\", [\"get\", \"z\"], 0]], [\">\", [\"get\", \"x\"], 0]]\n *\n * But if we tried to evaluate this against, say `{x: 1, y: null, z: 0}`, the\n *  [\">\", [\"get\", \"y\"], 0] would cause an evaluation error, leading to the\n * entire filter returning false. Legacy filter semantics, though, ask for\n *  [\">\", \"y\", 0] to simply return `false` when `y` is of the wrong type,\n * allowing the subsequent terms of the outer \"any\" expression to be evaluated\n * (resulting, in this case, in a `true` value, because x > 0).\n *\n * We account for this by inserting a preflight type-checking expression before\n * each \"any\" term, allowing us to avoid evaluating the actual converted filter\n * if any type mismatches would cause it to produce an evalaution error:\n *\n *     [\"any\",\n *         [\"case\",\n *             [\"all\", [\"==\", [\"typeof\", [\"get\", \"y\"]], \"number\"], [\"==\", [\"typeof\", [\"get\", \"z\"], \"number]],\n *             [\"all\", [\">\", [\"get\", \"y\"], 0], [\">\", [\"get\", \"z\"], 0]],\n *             false\n *         ],\n *         [\"case\",\n *             [\"==\", [\"typeof\", [\"get\", \"x\"], \"number\"]],\n *             [\">\", [\"get\", \"x\"], 0],\n *             false\n *         ]\n *     ]\n *\n * An alternative, possibly more direct approach would be to use type checks\n * in the conversion of each comparison operator, so that the converted version\n * of each individual ==, >=, etc. would mimic the legacy filter semantics. The\n * downside of this approach is that it can lead to many more type checks than\n * would otherwise be necessary: outside the context of an \"any\" expression,\n * bailing out due to a runtime type error (expression semantics) and returning\n * false (legacy filter semantics) are equivalent: they cause the filter to\n * produce a `false` result.\n */\nfunction _convertFilter(filter: FilterSpecification, expectedTypes: ExpectedTypes): mixed {\n    if (isExpressionFilter(filter)) { return filter; }\n\n    if (!filter) return true;\n    const op = filter[0];\n    if (filter.length <= 1) return (op !== 'any');\n\n    let converted;\n\n    if (\n        op === '==' ||\n        op === '!=' ||\n        op === '<' ||\n        op === '>' ||\n        op === '<=' ||\n        op === '>='\n    ) {\n        const [, property, value] = (filter: any);\n        converted = convertComparisonOp(property, value, op, expectedTypes);\n    } else if (op === 'any') {\n        const children = (filter: any).slice(1).map(f => {\n            const types = {};\n            const child = _convertFilter(f, types);\n            const typechecks = runtimeTypeChecks(types);\n            return typechecks === true ? child : ['case', typechecks, child, false];\n        });\n        return ['any'].concat(children);\n    } else if (op === 'all') {\n        const children = (filter: any).slice(1).map(f => _convertFilter(f, expectedTypes));\n        return children.length > 1 ? ['all'].concat(children) : [].concat(...children);\n    } else if (op === 'none') {\n        return ['!', _convertFilter(['any'].concat((filter: any).slice(1)), {})];\n    } else if (op === 'in') {\n        converted = convertInOp((filter[1]: any), filter.slice(2));\n    } else if (op === '!in') {\n        converted = convertInOp((filter[1]: any), filter.slice(2), true);\n    } else if (op === 'has') {\n        converted = convertHasOp((filter[1]: any));\n    } else if (op === '!has') {\n        converted = ['!', convertHasOp((filter[1]: any))];\n    } else {\n        converted = true;\n    }\n\n    return converted;\n}\n\n// Given a set of feature properties and an expected type for each one,\n// construct an boolean expression that tests whether each property has the\n// right type.\n// E.g.: for {name: 'string', population:
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'number'}, return\n// ['all',\n//   ['==', ['typeof', ['get', 'name'], 'string']],\n//   ['==', ['typeof', ['get', 'population'], 'number']]\n//]\nfunction runtimeTypeChecks(expectedTypes: ExpectedTypes) {\n const conditions = [];\n for (const property in expectedTypes) {\n   const get = property === '$id' ? ['id'] : ['get', property];\n conditions.push(['==', ['typeof', get], expectedTypes[property]]);\n }\n if (conditions.length === 0) return true;\n if (conditions.length === 1) return conditions[0];\n return ['all'].concat(conditions);\n}\n\nfunction convertComparisonOp(property: string, value: any, op: string, expectedTypes: ?ExpectedTypes) {\n let get;\n if (property === '$type') {\n   return [op, ['geometry-type'], value];\n } else if (property === '$id') {\n   get = ['id'];\n } else {\n   get = ['get', property];\n }\n\n if (expectedTypes && value !== null) {\n   const type = ((typeof value): any);\n   expectedTypes[property] = type;\n }\n\n if (op === '==' && property !== '$id' && value === null) {\n   return [\n   'all',\n   ['has', property], // missing property != null for legacy filters\n   ['==', get, null]\n   ];\n } else if (op === '!=' && property !== '$id' && value === null) {\n   return [\n   'any',\n   ['!', ['has', property]], // missing property != null for legacy filters\n   ['!=', get, null]\n   ];\n }\n\n return [op, get, value];\n}\n\nfunction convertInOp(property: string, values: Array<any>, negate = false) {\n if (values.length === 0) return negate;\n\n let get;\n if (property === '$type') {\n   get = ['geometry-type'];\n } else if (property === '$id') {\n   get = ['id'];\n } else {\n   get = ['get', property];\n }\n\n // Determine if the list of values to be searched is homogenously typed.\n // If so (and if the type is string or number), then we can use a\n // [match, input, [...values], true, false] construction rather than a\n // bunch of `==` tests.\n let uniformTypes = true;\n const type = typeof values[0];\n for (const value of values) {\n   if (typeof value !== type) {\n   uniformTypes = false;\n   break;\n   }\n }\n\n if (uniformTypes && (type === 'string' || type === 'number')) {\n   // Match expressions must have unique values.\n   const uniqueValues = values.sort().filter((v, i) => i === 0 || values[i - 1] !== v);\n   return ['match', get, uniqueValues, !negate, negate];\n }\n\n return [negate ? 'all' : 'any'].concat(\n   values.map(v => [negate ? '!=' : '==', get, v])\n);\n}\n\nfunction convertHasOp(property: string) {\n if (property === '$type') {\n   return true;\n } else if (property === '$id') {\n   return ['!=', ['id'], null];\n } else {\n   return ['has', property];\n }\n}\n","// @flow\n\nimport {\n eachLayer,\n eachProperty\n} from '../visit.js';\nimport {isExpression} from '../expression/index.js';\nimport convertFunction, {convertTokenString} from '../function/convert.js';\nimport convertFilter from '../feature_filter/convert.js';\n\nimport type {StyleSpecification} from '../types.js';\n\n/**\n * Migrate the given style object in place to use expressions. Specifically,\n * this will convert (a) \"stop\" functions, and (b) legacy filters to their\n * expression equivalents.\n */\nexport default function(style: StyleSpecification): StyleSpecification {\n const converted = [];\n\n eachLayer(style, (layer) => {\n   if (layer.filter) {\n   layer.filter = (convertFilter(layer.filter): any);\n   }\n });\n\n eachProperty(style, {paint: true, layout: true}, ({path, value, reference, set}) => {\n   if (isExpression(value)) return;\n   if (typeof value === 'object' && !Array.isArray(value)) {\n   set(convertFunction(value, reference));\n   converted.push(path.join('.'));\n   } else if (reference.tokens && typeof value === 'string') {\n   set(convertTokenString(value));\n   }\n });\n\n return style;\n}\n\n","\"\nimport migrateToV8 from './migrate/v8.js';\nimport migrateToExpressions from './migrate/expressions.js';\n\n/**\n * Migrate a Mapbox GL Style to the latest version.\n *\n * @private\n * @alias migrate\n * @param {object} style a Mapbox GL Style\n * @returns {Object} a migrated style\n * @example\n * var fs = require('fs');\n * var migrate = require('mapbox-gl-style-spec').migrate;\n * var style = fs.readFileSync('./style.json', 'utf8');\n * fs.writeFileSync('./style.json', JSON.stringify(migrate(style)));\n */\nexport default function(style) {\n let migrated = false;\n\n if (style.version === 7) {\n   style = migrateToV8(style);\n   migrated = true;\n }\n\n if (style.version === 8) {\n   migrated = migrateToExpressions(style);\n   migrated = true;\n }\n\n if (!migrated) {\n   throw new Error('cannot migrate from', style.version);\n }\n\n return style;\n}\n","\nexport default function (style) {\n const styleIDs = [];\n const sourceIDs = [];\n const compositedSourceLayers = [];\n\n for (const id in style.sources) {\n   const source = style.sources[id];\n\n   if (source.type !== \"vector\")\n   continue;\n\n   const match = /^mapbox:\\/\\/(.*)/.exec(source.url);\n   if (!match)\n   continue;\n\n   styleIDs.push(id);\n   sourceIDs.push(match[1]);\n }\n\n if (styleIDs.length < 2)\n   return style;\n\n styleIDs.forEach((id) => {\n   delete style.sources[id];\n });\n\n const compositeID = sourceIDs.join(\",\");\n\n style.sources[compositeID] = {\n   \"type\": \"vector\",\n

\"url\": `mapbox://${compositeID}`\n   };\n\n   style.layers.forEach((layer) => {\n   if (styleIDs.indexOf(layer.source) >= 0) {\n   layer.source = compositeID;\n\n   if ('source-layer' in layer) {\n   if (compositedSourceLayers.indexOf(layer['source-layer']) >= 0) {\n   throw new Error('Conflicting source layer names');\n   } else {\n   compositedSourceLayers.push(layer['source-layer']);\n   }\n   }\n   }\n   });\n\n   return style;\n}\n","// @flow\nexport default ['type', 'source', 'source-layer', 'minzoom', 'maxzoom', 'filter', 'layout'];\n","// @flow\n\nimport refProperties from './util/ref_properties.js';\n\nimport type {LayerSpecification} from './types.js';\n\nfunction deref(layer: LayerSpecification, parent: LayerSpecification): LayerSpecification {\n   const result = {};\n\n   for (const k in layer) {\n   if (k !== 'ref') {\n   result[k] = layer[k];\n   }\n   }\n\n   refProperties.forEach((k) => {\n   if (k in parent) {\n   result[k] = (parent: any)[k];\n   }\n   });\n\n   return ((result: any): LayerSpecification);\n}\n\n/**\n * Given an array of layers, some of which may contain `ref` properties\n * whose value is the `id` of another property, return a new array where\n * such layers have been augmented with the 'type', 'source', etc. properties\n * from the parent layer, and the `ref` property has been removed.\n *\n * The input is not modified. The output may contain references to portions\n * of the input.\n *\n * @private\n * @param {Array<Layer>} layers\n * @returns {Array<Layer>}\n */\nexport default function derefLayers(layers: Array<LayerSpecification>): Array<LayerSpecification> {\n   layers = layers.slice();\n\n   const map = Object.create(null);\n   for (let i = 0; i < layers.length; i++) {\n   map[layers[i].id] = layers[i];\n   }\n\n   for (let i = 0; i < layers.length; i++) {\n   if ('ref' in layers[i]) {\n   layers[i] = deref(layers[i], map[(layers[i]: any).ref]);\n   }\n   }\n\n   return layers;\n}\n","// @flow\n\n/**\n * Deeply compares two object literals.\n *\n * @private\n */\nfunction deepEqual(a: ?mixed, b: ?mixed): boolean {\n   if (Array.isArray(a)) {\n   if (!Array.isArray(b) || a.length !== b.length) return false;\n   for (let i = 0; i < a.length; i++) {\n   if (!deepEqual(a[i], b[i])) return false;\n   }\n   return true;\n   }\n   if (typeof a === 'object' && a !== null && b !== null) {\n   if (!(typeof b === 'object')) return false;\n   const keys = Object.keys(a);\n   if (keys.length !== Object.keys(b).length) return false;\n   for (const key in a) {\n   if (!deepEqual(a[key], b[key])) return false;\n   }\n   return true;\n   }\n   return a === b;\n}\n\nexport default deepEqual;\n","// @flow\n\nimport isEqual from './util/deep_equal.js';\n\nimport type {StyleSpecification} from './types.js';\n\ntype Command = {\n   command: string;\n   args: Array<any>;\n};\n\nexport const operations: {[_: string]: string} = {\n\n   /*\n   * { command: 'setStyle', args: [stylesheet] }\n   */\n   setStyle: 'setStyle',\n\n   /*\n   * { command: 'addLayer', args: [layer, 'beforeLayerId'] }\n   */\n   addLayer: 'addLayer',\n\n   /*\n   * { command: 'removeLayer', args: ['layerId'] }\n   */\n   removeLayer: 'removeLayer',\n\n   /*\n   * { command: 'setPaintProperty', args: ['layerId', 'prop', value] }\n   */\n   setPaintProperty: 'setPaintProperty',\n\n   /*\n   * { command: 'setLayoutProperty', args: ['layerId', 'prop', value] }\n   */\n   setLayoutProperty: 'setLayoutProperty',\n\n   /*\n   * { command: 'setFilter', args: ['layerId', filter] }\n   */\n   setFilter: 'setFilter',\n\n   /*\n   * { command: 'addSource', args: ['sourceId', source] }\n   */\n   addSource: 'addSource',\n\n   /*\n   * { command: 'removeSource', args: ['sourceId'] }\n   */\n   removeSource: 'removeSource',\n\n   /*\n   * { command: 'setGeoJSONSourceData', args: ['sourceId', data] }\n   */\n   setGeoJSONSourceData: 'setGeoJSONSourceData',\n\n   /*\n   * { command: 'setLayerZoomRange', args: ['layerId', 0, 22] }\n   */\n   setLayerZoomRange: 'setLayerZoomRange',\n\n   /*\n   * { command: 'setLayerProperty', args: ['layerId', 'prop', value] }\n   */\n   setLayerProperty: 'setLayerProperty',\n\n   /*\n   * { command: 'setCenter', args: [[lon, lat]] }\n   */\n   setCenter: 'setCenter',\n\n   /*\n   * { command: 'setZoom', args: [zoom] }\n   */\n   setZoom: 'setZoom',\n\n   /*\n   * { command: 'setBearing', args: [bearing] }\n   */\n   setBearing: 'setBearing',\n\n   /*\n   * { command: 'setPitch', args: [pitch] }\n   */\n   setPitch: 'setPitch',\n\n   /*\n   * { command: 'setSprite', args: ['spriteUrl'] }\n   */\n   setSprite: 'setSprite',\n\n   /*\n   * { command: 'setGlyphs', args: ['glyphsUrl'] }\n   */\n   setGlyphs: 'setGlyphs',\n\n   /*\n   * { command: 'setTransition', args: [transition] }\n   */\n   setTransition: 'setTransition',\n\n   /*\n   * { command: 'setLighting', args: [lightProperties] }\n   */\n   setLight: 'setLight',\n\n   /*\n   * { command: 'setTerrain', args: [terrainProperties] }\n   */\n   setTerrain: 'setTerrain',\n\n   /*\n   * { command: 'setFog', args: [fogProperties] }\n   */\n   setFog: 'setFog',\n\n   /*\n   * { command: 'setProjection', args: [projectionProperties] }\n   */\n   setProjection: 'setProjection'\n};\n\nfunction addSource(sourceId, after, commands) {\n   commands.push({command:

operations.addSource, args: [sourceId, after[sourceId]]});\n}\n\nfunction removeSource(sourceId, commands, sourcesRemoved) {\n commands.push({command: operations.removeSource, args: [sourceId]});\n sourcesRemoved[sourceId] = true;\n}\n\nfunction updateSource(sourceId, after, commands, sourcesRemoved) {\n removeSource(sourceId, commands, sourcesRemoved);\n addSource(sourceId, after, commands);\n}\n\nfunction canUpdateGeoJSON(before, after, sourceId) {\n let prop;\n for (prop in before[sourceId]) {\n if (!before[sourceId].hasOwnProperty(prop)) continue;\n if (prop !== 'data' && !isEqual(before[sourceId][prop], after[sourceId][prop])) {\n return false;\n }\n }\n for (prop in after[sourceId]) {\n if (!after[sourceId].hasOwnProperty(prop)) continue;\n if (prop !== 'data' && !isEqual(before[sourceId][prop], after[sourceId][prop])) {\n return false;\n }\n }\n return true;\n}\n\nfunction diffSources(before, after, commands, sourcesRemoved) {\n before = before || {};\n after = after || {};\n\n let sourceId;\n\n // look for sources to remove\n for (sourceId in before) {\n if (!before.hasOwnProperty(sourceId)) continue;\n if (!after.hasOwnProperty(sourceId)) {\n removeSource(sourceId, commands, sourcesRemoved);\n }\n }\n\n // look for sources to add/update\n for (sourceId in after) {\n if (!after.hasOwnProperty(sourceId)) continue;\n if (!before.hasOwnProperty(sourceId)) {\n addSource(sourceId, after, commands);\n } else if (!isEqual(before[sourceId], after[sourceId])) {\n if (before[sourceId].type === 'geojson' && after[sourceId].type === 'geojson' && canUpdateGeoJSON(before, after, sourceId)) {\n commands.push({command: operations.setGeoJSONSourceData, args: [sourceId, after[sourceId].data]});\n } else {\n // no update command, must remove then add\n updateSource(sourceId, after, commands, sourcesRemoved);\n }\n }\n }\n}\n\nfunction diffLayerPropertyChanges(before, after, commands, layerId, klass, command) {\n before = before || {};\n after = after || {};\n\n let prop;\n\n for (prop in before) {\n if (!before.hasOwnProperty(prop)) continue;\n if (!isEqual(before[prop], after[prop])) {\n commands.push({command, args: [layerId, prop, after[prop], klass]});\n }\n }\n for (prop in after) {\n if (!after.hasOwnProperty(prop) || before.hasOwnProperty(prop)) continue;\n if (!isEqual(before[prop], after[prop])) {\n commands.push({command, args: [layerId, prop, after[prop], klass]});\n }\n}\n\nfunction pluckId(layer) {\n return layer.id;\n}\nfunction indexById(group, layer) {\n group[layer.id] = layer;\n return group;\n}\n\nfunction diffLayers(before, after, commands) {\n before = before || [];\n after = after || [];\n\n // order of layers by id\n const beforeOrder = before.map(pluckId);\n const afterOrder = after.map(pluckId);\n\n // index of layer by id\n const beforeIndex = before.reduce(indexById, {});\n const afterIndex = after.reduce(indexById, {});\n\n // track order of layers as if they have been mutated\n const tracker = beforeOrder.slice();\n\n // layers that have been added do not need to be diffed\n const clean = Object.create(null);\n\n let i, d, layerId, beforeLayer, afterLayer, insertBeforeLayerId, prop;\n\n // remove layers\n for (i = 0, d = 0; i < beforeOrder.length; i++) {\n layerId = beforeOrder[i];\n if (!afterIndex.hasOwnProperty(layerId)) {\n commands.push({command: operations.removeLayer, args: [layerId]});\n tracker.splice(tracker.indexOf(layerId, d), 1);\n } else {\n // limit where in tracker we need to look for a match\n d++;\n }\n }\n\n // add/reorder layers\n for (i = 0, d = 0; i < afterOrder.length; i++) {\n // work backwards as insert is before an existing layer\n layerId = afterOrder[afterOrder.length - 1 - i];\n\n if (tracker[tracker.length - 1 - i] === layerId) continue;\n\n if (beforeIndex.hasOwnProperty(layerId)) {\n // remove the layer before we insert at the correct position\n commands.push({command: operations.removeLayer, args: [layerId]});\n tracker.splice(tracker.lastIndexOf(layerId, tracker.length - d), 1);\n } else {\n // limit where in tracker we need to look for a match\n d++;\n }\n\n // add layer at correct position\n insertBeforeLayerId = tracker[tracker.length - i];\n commands.push({command: operations.addLayer, args: [afterIndex[layerId], insertBeforeLayerId]});\n tracker.splice(tracker.length - i, 0, layerId);\n clean[layerId] = true;\n }\n\n // update layers\n for (i = 0; i < afterOrder.length; i++) {\n layerId = afterOrder[i];\n beforeLayer = beforeIndex[layerId];\n afterLayer = afterIndex[layerId];\n\n // no need to update if previously added (new or moved)\n if (clean[layerId] || isEqual(beforeLayer, afterLayer)) continue;\n\n // If source, source-layer, or type have changes, then remove the layer\n // and add it back 'from scratch'.\n if (!isEqual(beforeLayer.source, afterLayer.source) || !isEqual(beforeLayer['source-layer'], afterLayer['source-layer']) ||

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!isEqual(beforeLayer.type, afterLayer.type)) {\n            commands.push({command: operations.removeLayer, args: [layerId]});\n            // we add the layer back at the same position it was already in, so\n            // there's no need to update the `tracker`\n            insertBeforeLayerId = tracker[tracker.lastIndexOf(layerId) + 1];\n commands.push({command: operations.addLayer, args: [afterLayer, insertBeforeLayerId]});\n            continue;\n        }\n\n        // layout, paint, filter, minzoom, maxzoom\n        diffLayerPropertyChanges(beforeLayer.layout, afterLayer.layout, commands, layerId, null, operations.setLayoutProperty);\n diffLayerPropertyChanges(beforeLayer.paint, afterLayer.paint, commands, layerId, null, operations.setPaintProperty);\n        if (!isEqual(beforeLayer.filter, afterLayer.filter)) {\n commands.push({command: operations.setFilter, args: [layerId, afterLayer.filter]});\n        }\n        if (!isEqual(beforeLayer.minzoom, afterLayer.minzoom) || !isEqual(beforeLayer.maxzoom, afterLayer.maxzoom)) {\n            commands.push({command: operations.setLayerZoomRange, args: [layerId, afterLayer.minzoom, afterLayer.maxzoom]});\n        }\n\n        // handle all other layer props, including paint.*\n        for (prop in beforeLayer) {\n            if (!beforeLayer.hasOwnProperty(prop)) continue;\n            if (prop === 'layout' || prop === 'paint' || prop === 'filter' ||\n                prop === 'metadata' || prop === 'minzoom' || prop === 'maxzoom') continue;\n            if (prop.indexOf('paint.') === 0) {\n                diffLayerPropertyChanges(beforeLayer[prop], afterLayer[prop], commands, layerId, prop.slice(6), operations.setPaintProperty);\n            } else if (!isEqual(beforeLayer[prop], afterLayer[prop])) {\n                commands.push({command: operations.setLayerProperty, args: [layerId, prop, afterLayer[prop]]});\n            }\n        }\n        for (prop in afterLayer) {\n            if (!afterLayer.hasOwnProperty(prop) || beforeLayer.hasOwnProperty(prop)) continue;\n            if (prop === 'layout' || prop === 'paint' || prop === 'filter' ||\n                prop === 'metadata' || prop === 'minzoom' || prop === 'maxzoom') continue;\n            if (prop.indexOf('paint.') === 0) {\n                diffLayerPropertyChanges(beforeLayer[prop], afterLayer[prop], commands, layerId, prop.slice(6), operations.setPaintProperty);\n            } else if (!isEqual(beforeLayer[prop], afterLayer[prop])) {\n                commands.push({command: operations.setLayerProperty, args: [layerId, prop, afterLayer[prop]]});\n            }\n        }\n    }\n\n/**\n * Diff two stylesheet\n *\n * Creates semanticly aware diffs that can easily be applied at runtime.\n * Operations produced by the diff closely resemble the mapbox-gl-js API. Any\n * error creating the diff will fall back to the 'setStyle' operation.\n *\n * Example diff:\n * [\n *     { command: 'setConstant', args: ['@water', '#0000FF'] },\n *     { command: 'setPaintProperty', args: ['background', 'background-color', 'black'] }\n * ]\n *\n * @private\n * @param {*} [before] stylesheet to compare from\n * @param {*} after stylesheet to compare to\n * @returns Array list of changes\n */\nexport default function diffStyles(before: StyleSpecification, after: StyleSpecification): Array<Command> {\n    if (!before) return [{command: operations.setStyle, args: [after]}];\n\n    let commands = [];\n\n    try {\n        // Handle changes to top-level properties\n        if (!isEqual(before.version, after.version)) {\n            return [{command: operations.setStyle, args: [after]}];\n        }\n        if (!isEqual(before.center, after.center)) {\n            commands.push({command: operations.setCenter, args: [after.center]});\n        }\n        if (!isEqual(before.zoom, after.zoom)) {\n            commands.push({command: operations.setZoom, args: [after.zoom]});\n        }\n        if (!isEqual(before.bearing, after.bearing)) {\n            commands.push({command: operations.setBearing, args: [after.bearing]});\n        }\n        if (!isEqual(before.pitch, after.pitch)) {\n commands.push({command: operations.setPitch, args: [after.pitch]});\n        }\n        if (!isEqual(before.sprite, after.sprite)) {\n            commands.push({command: operations.setSprite, args: [after.sprite]});\n        }\n        if (!isEqual(before.glyphs, after.glyphs)) {\n            commands.push({command: operations.setGlyphs, args: [after.glyphs]});\n        }\n        if (!isEqual(before.transition, after.transition)) {\n commands.push({command: operations.setTransition, args: [after.transition]});\n        }\n        if (!isEqual(before.light, after.light)) {\n            commands.push({command: operations.setLight, args: [after.light]});\n        }\n        if (!isEqual(before.fog, after.fog)) {\n            commands.push({command: operations.setFog, args: [after.fog]});\n        }\n        if (!isEqual(before.projection, after.projection)) {\n commands.push({command: operations.setProjection, args: [after.projection]});\n        }\n\n        // Handle changes to `sources`\n        // If a source is to be removed, we also--before the removeSource\n        // command--need to remove all the style layers that depend on it.\n        const sourcesRemoved = {};\n\n        // First collect the
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{add,remove}Source commands\n const removeOrAddSourceCommands = [];\n diffSources(before.sources, after.sources, removeOrAddSourceCommands, sourcesRemoved);\n\n // Push a removeLayer command for each style layer that depends on a\n // source that's being removed.\n // Also, exclude any such layers them from the input to `diffLayers`\n // below, so that diffLayers produces the appropriate `addLayers`\n // command\n const beforeLayers = [];\n if (before.layers) {\n before.layers.forEach((layer) => {\n if (layer.source && sourcesRemoved[layer.source]) {\n commands.push({command: operations.removeLayer, args: [layer.id]});\n } else {\n beforeLayers.push(layer);\n }\n });\n }\n\n // Remove the terrain if the source for that terrain is being removed\n let beforeTerrain = before.terrain;\n if (beforeTerrain) {\n if (sourcesRemoved[beforeTerrain.source]) {\n commands.push({command: operations.setTerrain, args: [undefined]});\n beforeTerrain = undefined;\n }\n }\n\n commands = commands.concat(removeOrAddSourceCommands);\n\n // Even though terrain is a top-level property\n // Its like a layer in the sense that it depends on a source being present.\n if (!isEqual(beforeTerrain, after.terrain)) {\n commands.push({command: operations.setTerrain, args: [after.terrain]});\n }\n\n // Handle changes to `layers`\n diffLayers(beforeLayers, after.layers, commands);\n\n } catch (e) {\n // fall back to setStyle\n console.warn('Unable to compute style diff:', e);\n commands = [{command: operations.setStyle, args: [after]}];\n }\n\n return commands;\n}\n","// @flow\n\n// Note: Do not inherit from Error. It breaks when transpiling to ES5.\n\nexport default class ValidationError {\n message: string;\n identifier: ?string;\n line: ?number;\n\n constructor(key: ?string, value: ?{ __line__: number }, message: string, identifier: ?string) {\n this.message = (key ? `${key}: ` : '') + message;\n if (identifier) this.identifier = identifier;\n\n if (value !== null && value !== undefined && value.__line__) {\n this.line = value.__line__;\n }\n }\n}\n","// @flow\n\n// Note: Do not inherit from Error. It breaks when transpiling to ES5.\n\nexport default class ParsingError {\n message: string;\n error: Error;\n line: number;\n\n constructor(error: Error) {\n this.error = error;\n this.message = error.message;\n const match = error.message.match(/line (\\d+)/);\n this.line = match ? parseInt(match[1], 10) : 0;\n }\n}\n","// @flow\n\nimport ValidationError from '../error/validation_error.js';\nimport getType from '../util/get_type.js';\nimport validateSpec from './validate.js';\n\nimport type {ValidationOptions} from './validate.js';\n\ntype Options = ValidationOptions & {\n objectElementValidators?: Function;\n};\n\nexport default function validateObject(options: Options): Array<ValidationError> {\n const key = options.key;\n const object = options.value;\n const elementSpecs = options.valueSpec || {};\n const elementValidators = options.objectElementValidators || {};\n const style = options.style;\n const styleSpec = options.styleSpec;\n let errors = [];\n\n const type = getType(object);\n if (type !== 'object') {\n return [new ValidationError(key, object, `object expected, ${type} found`)];\n }\n\n for (const objectKey in object) {\n const elementSpecKey = objectKey.split('.')[0]; // treat 'paint.*' as 'paint'\n const elementSpec = elementSpecs[elementSpecKey] || elementSpecs['*'];\n\n let validateElement;\n if (elementValidators[elementSpecKey]) {\n validateElement = elementValidators[elementSpecKey];\n } else if (elementSpecs[elementSpecKey]) {\n validateElement = validateSpec;\n } else if (elementValidators['*']) {\n validateElement = elementValidators['*'];\n } else if (elementSpecs['*']) {\n validateElement = validateSpec;\n }\n\n if (!validateElement) {\n errors.push(new ValidationError(key, object[objectKey], `unknown property \"${objectKey}\"`));\n continue;\n }\n\n errors = errors.concat(validateElement({\n key: (key ? `${key}.` : key) + objectKey,\n value: object[objectKey],\n valueSpec: elementSpec,\n style,\n styleSpec,\n object,\n objectKey\n // $FlowFixMe[extra-arg]\n }, object));\n }\n\n for (const elementSpecKey in elementSpecs) {\n // Don't check `required` when there's a custom validator for that property.\n if (elementValidators[elementSpecKey]) {\n continue;\n }\n\n if (elementSpecs[elementSpecKey].required && elementSpecs[elementSpecKey]['default'] === undefined && object[elementSpecKey] === undefined) {\n errors.push(new ValidationError(key, object, `missing required property \"${elementSpecKey}\"`));\n }\n }\n\n return errors;\n}\n","// @flow\n\nimport getType from '../util/get_type.js';\nimport validate from './validate.js';\nimport ValidationError from

'../error/validation_error.js';\n\nimport type {ValidationOptions} from './validate.js';\n\ntype Options = ValidationOptions & {\n arrayElementValidator: Function;\n};\n\nexport default function validateArray(options: Options): Array<ValidationError> {\n const array = options.value;\n const arraySpec = options.valueSpec;\n const style = options.style;\n const styleSpec = options.styleSpec;\n const key = options.key;\n const validateArrayElement = options.arrayElementValidator || validate;\n\n if (getType(array) !== 'array') {\n return [new ValidationError(key, array, `array expected, ${getType(array)} found`)];\n }\n\n if (arraySpec.length && array.length !== arraySpec.length) {\n return [new ValidationError(key, array, `array length ${arraySpec.length} expected, length ${array.length} found`)];\n }\n\n if (arraySpec['min-length'] && array.length < arraySpec['min-length']) {\n return [new ValidationError(key, array, `array length at least ${arraySpec['min-length']} expected, length ${array.length} found`)];\n }\n\n let arrayElementSpec = {\n \"type\": arraySpec.value,\n \"values\": arraySpec.values,\n \"minimum\": arraySpec.minimum,\n \"maximum\": arraySpec.maximum,\n function: undefined\n };\n\n if (styleSpec.$version < 7) {\n arrayElementSpec.function = arraySpec.function;\n }\n\n if (getType(arraySpec.value) === 'object') {\n arrayElementSpec = arraySpec.value;\n }\n\n let errors = [];\n for (let i = 0; i < array.length; i++) {\n errors = errors.concat(validateArrayElement({\n array,\n arrayIndex: i,\n value: array[i],\n valueSpec: arrayElementSpec,\n style,\n styleSpec,\n key: `${key}[${i}]`\n }));\n }\n return errors;\n}\n","// @flow\n\nimport getType from '../util/get_type.js';\nimport ValidationError from '../error/validation_error.js';\n\nimport type {ValidationOptions} from './validate.js';\n\ntype Options = ValidationOptions & {\n arrayIndex: number;\n}\n\nexport default function validateNumber(options: Options): Array<ValidationError> {\n const key = options.key;\n const value = options.value;\n const valueSpec = options.valueSpec;\n let type = getType(value);\n\n // eslint-disable-next-line no-self-compare\n if (type === 'number' && value !== value) {\n type = 'NaN';\n }\n\n if (type !== 'number') {\n return [new ValidationError(key, value, `number expected, ${type} found`)];\n }\n\n if ('minimum' in valueSpec) {\n let specMin = valueSpec.minimum;\n if (getType(valueSpec.minimum) === 'array') {\n const i = options.arrayIndex;\n specMin = valueSpec.minimum[i];\n }\n if (value < specMin) {\n return [new ValidationError(key, value, `${value} is less than the minimum value ${specMin}`)];\n }\n }\n\n if ('maximum' in valueSpec) {\n let specMax = valueSpec.maximum;\n if (getType(valueSpec.maximum) === 'array') {\n const i = options.arrayIndex;\n specMax = valueSpec.maximum[i];\n }\n if (value > specMax) {\n return [new ValidationError(key, value, `${value} is greater than the maximum value ${specMax}`)];\n }\n }\n\n return [];\n}\n","// @flow\n\nimport ValidationError from '../error/validation_error.js';\nimport getType from '../util/get_type.js';\nimport validate from './validate.js';\nimport validateObject from './validate_object.js';\nimport validateArray from './validate_array.js';\nimport validateNumber from './validate_number.js';\nimport {isExpression} from '../expression/index.js';\nimport {unbundle, deepUnbundle} from '../util/unbundle_jsonlint.js';\nimport {\n supportsPropertyExpression,\n supportsZoomExpression,\n supportsInterpolation\n} from '../util/properties.js';\n\nimport type {ValidationOptions} from './validate.js';\n\nexport default function validateFunction(options: ValidationOptions): any {\n const functionValueSpec = options.valueSpec;\n const functionType = unbundle(options.value.type);\n let stopKeyType;\n let stopDomainValues: {[string | number]: boolean} = {};\n let previousStopDomainValue;\n let previousStopDomainZoom;\n\n const isZoomFunction = functionType !== 'categorical' && options.value.property === undefined;\n const isPropertyFunction = !isZoomFunction;\n const isZoomAndPropertyFunction =\n getType(options.value.stops) === 'array' &&\n getType(options.value.stops[0]) === 'array' &&\n getType(options.value.stops[0][0]) === 'object';\n\n const errors = validateObject({\n key: options.key,\n value: options.value,\n valueSpec: options.styleSpec.function,\n style: options.style,\n styleSpec: options.styleSpec,\n objectElementValidators: {\n stops: validateFunctionStops,\n default: validateFunctionDefault\n }\n });\n\n if (functionType === 'identity' && isZoomFunction) {\n errors.push(new ValidationError(options.key, options.value, 'missing required property \"property\"'));\n }\n\n if (functionType !== 'identity' && !options.value.stops) {\n errors.push(new ValidationError(options.key, options.value, 'missing

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required property \"stops\""));\n    }\n\n    if (functionType === 'exponential' && options.valueSpec.expression &&
!supportsInterpolation(options.valueSpec)) {\n        errors.push(new ValidationError(options.key, options.value,
'exponential functions not supported'));\n    }\n\n    if (options.styleSpec.$version >= 8) {\n        if
(isPropertyFunction && !supportsPropertyExpression(options.valueSpec)) {\n            errors.push(new
ValidationError(options.key, options.value, 'property functions not supported'));\n        } else if (isZoomFunction
&& !supportsZoomExpression(options.valueSpec)) {\n            errors.push(new ValidationError(options.key,
options.value, 'zoom functions not supported'));\n        }\n    }\n\n    if ((functionType === 'categorical' ||
isZoomAndPropertyFunction) && options.value.property === undefined) {\n        errors.push(new
ValidationError(options.key, options.value, '\"property\" property is required'));\n    }\n\n    return errors;\n\n
function validateFunctionStops(options: ValidationOptions) {\n        if (functionType === 'identity') {\n
return [new ValidationError(options.key, options.value, 'identity function may not have a \"stops\" property')];\n
}\n\n        let errors = [];\n        const value = options.value;\n\n        errors = errors.concat(validateArray({\n
key: options.key,\n            value,\n            valueSpec: options.valueSpec,\n            style: options.style,\n
styleSpec: options.styleSpec,\n            arrayElementValidator: validateFunctionStop\n        }));\n\n        if
(getType(value) === 'array' && value.length === 0) {\n            errors.push(new ValidationError(options.key, value,
'array must have at least one stop'));\n        }\n\n        return errors;\n    }\n\n    function
validateFunctionStop(options: ValidationOptions) {\n        let errors = [];\n        const value = options.value;\n
const key = options.key;\n\n        if (getType(value) !== 'array') {\n            return [new ValidationError(key, value,
`array expected, ${getType(value)} found`)];\n        }\n\n        if (value.length !== 2) {\n            return [new
ValidationError(key, value, `array length 2 expected, length ${value.length} found`)];\n        }\n\n        if
(isZoomAndPropertyFunction) {\n            if (getType(value[0]) !== 'object') {\n                return [new
ValidationError(key, value, `object expected, ${getType(value[0])} found`)];\n            }\n            if (value[0].zoom
=== undefined) {\n                return [new ValidationError(key, value, 'object stop key must have zoom')];\n
}\n            if (value[0].value === undefined) {\n                return [new ValidationError(key, value, 'object stop key
must have value')];\n            }\n\n            const nextStopDomainZoom = unbundle(value[0].zoom);\n            if
(typeof nextStopDomainZoom !== 'number') {\n                return [new ValidationError(key, value[0].zoom, 'stop
zoom values must be numbers')];\n            }\n\n            if (previousStopDomainZoom &&
previousStopDomainZoom > nextStopDomainZoom) {\n                return [new ValidationError(key, value[0].zoom,
'stop zoom values must appear in ascending order')];\n            }\n            if (nextStopDomainZoom !==
previousStopDomainZoom) {\n                previousStopDomainZoom = nextStopDomainZoom;\n
previousStopDomainValue = undefined;\n                stopDomainValues = {};\n            }\n            errors =
errors.concat(validateObject({\n                key: `${key}[0]`,\n                value: value[0],\n                valueSpec:
{zoom: {}},\n                style: options.style,\n                styleSpec: options.styleSpec,\n
objectElementValidators: {zoom: validateNumber, value: validateStopDomainValue}\n            }));\n        } else {\n
errors = errors.concat(validateStopDomainValue({\n                key: `${key}[0]`,\n                value: value[0],\n
valueSpec: {},\n                style: options.style,\n                styleSpec: options.styleSpec\n            }, value));\n
}\n\n        if (isExpression(deepUnbundle(value[1]))) {\n            return errors.concat([new
ValidationError(`${key}[1]`, value[1], 'expressions are not allowed in function stops.')]);\n        }\n\n        return
errors.concat(validate({\n            key: `${key}[1]`,\n            value: value[1],\n            valueSpec:
functionValueSpec,\n            style: options.style,\n            styleSpec: options.styleSpec\n        }));\n    }\n\n
function validateStopDomainValue(options: ValidationOptions, stop) {\n        const type =
getType(options.value);\n        const value = unbundle(options.value);\n\n        const reportValue = options.value
!== null ? options.value : stop;\n\n        if (!stopKeyType) {\n            stopKeyType = type;\n        } else if (type !==
stopKeyType) {\n            return [new ValidationError(options.key, reportValue, `${type} stop domain type must
match previous stop domain type ${stopKeyType}`)];\n        }\n\n        if (type !== 'number' && type !== 'string'
&& type !== 'boolean' && typeof value !== 'number' && typeof value !== 'string' && typeof value !== 'boolean')
{\n            return [new ValidationError(options.key, reportValue, 'stop domain value must be a number, string, or
boolean')];\n        }\n\n        if (type !== 'number' && functionType !== 'categorical') {\n            let message =
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`number expected, ${type} found`;\n if (supportsPropertyExpression(functionValueSpec) && functionType === undefined) {\n message += '\\nIf you intended to use a categorical function, specify `\"type\": \"categorical\"`.';\n }\n return [new ValidationError(options.key, reportValue, message)];\n }\n\n if (functionType === 'categorical' && type === 'number' && (typeof value !== 'number' || !isFinite(value) || Math.floor(value) !== value)) {\n return [new ValidationError(options.key, reportValue, `integer expected, found ${String(value)}`)];\n }\n\n if (functionType !== 'categorical' && type === 'number' && typeof value === 'number' && typeof previousStopDomainValue === 'number' && previousStopDomainValue !== undefined && value < previousStopDomainValue) {\n return [new ValidationError(options.key, reportValue, 'stop domain values must appear in ascending order')];\n } else {\n previousStopDomainValue = value;\n }\n\n if (functionType === 'categorical' && (value: any) in stopDomainValues) {\n return [new ValidationError(options.key, reportValue, 'stop domain values must be unique')];\n } else {\n stopDomainValues[(value: any)] = true;\n }\n\n return [];\n }\n\n function validateFunctionDefault(options: ValidationOptions) {\n return validate({\n key: options.key,\n value: options.value,\n valueSpec: functionValueSpec,\n style: options.style,\n styleSpec: options.styleSpec\n });\n }\n}\n","// @flow\n\nimport ValidationError from '../error/validation_error.js';\n\nimport {createExpression, createPropertyExpression} from '../expression/index.js';\nimport {deepUnbundle} from '../util/unbundle_jsonlint.js';\nimport {isStateConstant, isGlobalPropertyConstant, isFeatureConstant} from '../expression/is_constant.js';\nimport CompoundExpression from '../expression/compound_expression.js';\n\nimport type {Expression} from '../expression/expression.js';\n\nexport default function validateExpression(options: any): Array<ValidationError> {\n const expression = (options.expressionContext === 'property' ? createPropertyExpression : createExpression)(deepUnbundle(options.value), options.valueSpec);\n if (expression.result === 'error') {\n return expression.value.map((error) => {\n return new ValidationError(`${options.key}${error.key}`, options.value, error.message);\n });\n }\n\n const expressionObj = (expression.value: any).expression || (expression.value: any)._styleExpression.expression;\n\n if (options.expressionContext === 'property' && (options.propertyKey === 'text-font') &&\n !expressionObj.outputDefined()) {\n return [new ValidationError(options.key, options.value, `Invalid data expression for \"${options.propertyKey}\". Output values must be contained as literals within the expression.`)];\n }\n\n if (options.expressionContext === 'property' && options.propertyType === 'layout' &&\n (!isStateConstant(expressionObj))) {\n return [new ValidationError(options.key, options.value, '\"feature-state\" data expressions are not supported with layout properties.')];\n }\n\n if (options.expressionContext === 'filter') {\n return disallowedFilterParameters(expressionObj, options);\n }\n\n if (options.expressionContext && options.expressionContext.indexOf('cluster') === 0) {\n if (!isGlobalPropertyConstant(expressionObj, ['zoom', 'feature-state'])) {\n return [new ValidationError(options.key, options.value, '\"zoom\" and \"feature-state\" expressions are not supported with cluster properties.')];\n }\n if (options.expressionContext === 'cluster-initial' && !isFeatureConstant(expressionObj)) {\n return [new ValidationError(options.key, options.value, 'Feature data expressions are not supported with initial expression part of cluster properties.')];\n }\n }\n\n return [];\n}\n\nexport function disallowedFilterParameters(e: Expression, options: any): Array<ValidationError> {\n const disallowedParameters = new Set([\n 'zoom',\n 'feature-state',\n 'pitch',\n 'distance-from-center'\n]);\n\n if (options.valueSpec && options.valueSpec.expression) {\n for (const param of options.valueSpec.expression.parameters) {\n disallowedParameters.delete(param);\n }\n }\n\n if (disallowedParameters.size === 0) {\n return [];\n }\n const errors = [];\n\n if (e instanceof CompoundExpression) {\n if (disallowedParameters.has(e.name)) {\n return [new ValidationError(options.key, options.value, `[\"${e.name}\"] expression is not supported in a filter for a ${options.object.type} layer with id: ${options.object.id}`)];\n }\n }\n e.eachChild((arg) => {\n errors.push(...disallowedFilterParameters(arg, options));\n });\n\n return errors;\n}\n","// @flow\n\nimport getType from '../util/get_type.js';\nimport ValidationError from '../error/validation_error.js';\n\nimport type {ValidationOptions} from './validate.js';\n\nexport default function validateBoolean(options: ValidationOptions):

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Array<ValidationError> {\n    const value = options.value;\n    const key = options.key;\n    const type = getType(value);\n\n    if (type !== 'boolean') {\n        return [new ValidationError(key, value, `boolean expected, ${type} found`)];\n    }\n\n    return [];\n}\n","// @flow\n\nimport ValidationError from '../error/validation_error.js';\nimport getType from '../util/get_type.js';\nimport {parseCSSColor} from 'csscolorparser';\n\nimport type {ValidationOptions} from './validate.js';\n\nexport default function validateColor(options: ValidationOptions): Array<ValidationError> {\n    const key = options.key;\n    const value = options.value;\n    const type = getType(value);\n\n    if (type !== 'string') {\n        return [new ValidationError(key, value, `color expected, ${type} found`)];\n    }\n\n    if (parseCSSColor(value) === null) {\n        return [new ValidationError(key, value, `color expected, \"${value}\" found`)];\n    }\n\n    return [];\n}\n","// @flow\n\nimport ValidationError from '../error/validation_error.js';\nimport {unbundle} from '../util/unbundle_jsonlint.js';\n\nimport type {ValidationOptions} from './validate.js';\n\nexport default function validateEnum(options: ValidationOptions): Array<ValidationError> {\n    const key = options.key;\n    const value = options.value;\n    const valueSpec = options.valueSpec;\n    const errors = [];\n\n    if (Array.isArray(valueSpec.values)) { // <=v7\n        if (valueSpec.values.indexOf(unbundle(value)) === -1) {\n            errors.push(new ValidationError(key, value, `expected one of [${valueSpec.values.join(', ')}], ${JSON.stringify(value)} found`));\n        }\n    } else { // >=v8\n        if (Object.keys(valueSpec.values).indexOf(unbundle(value)) === -1) {\n            errors.push(new ValidationError(key, value, `expected one of [${Object.keys(valueSpec.values).join(', ')}], ${JSON.stringify(value)} found`));\n        }\n    }\n    return errors;\n}\n","// @flow\n\nimport ValidationError from '../error/validation_error.js';\nimport validateExpression from './validate_expression.js';\nimport validateEnum from './validate_enum.js';\nimport getType from '../util/get_type.js';\nimport {unbundle, deepUnbundle} from '../util/unbundle_jsonlint.js';\nimport extend from '../util/extend.js';\nimport {isExpressionFilter} from '../feature_filter/index.js';\n\nimport type {ValidationOptions} from './validate.js';\n\ntype Options = ValidationOptions & {\n    layerType: string;\n}\n\nexport default function validateFilter(options: Options): Array<ValidationError> {\n    if (isExpressionFilter(deepUnbundle(options.value))) {\n        // We default to a layerType of `fill` because that points to a non-dynamic filter definition within the style-spec.\n        const layerType = options.layerType || 'fill';\n\n        return validateExpression(extend({}, options, {\n            expressionContext: 'filter',\n            valueSpec: options.styleSpec[`filter_${layerType}`]\n        }));\n    } else {\n        return validateNonExpressionFilter(options);\n    }\n}\n\nfunction validateNonExpressionFilter(options) {\n    const value = options.value;\n    const key = options.key;\n\n    if (getType(value) !== 'array') {\n        return [new ValidationError(key, value, `array expected, ${getType(value)} found`)];\n    }\n\n    const styleSpec = options.styleSpec;\n    let type;\n\n    let errors = [];\n\n    if (value.length < 1) {\n        return [new ValidationError(key, value, 'filter array must have at least 1 element')];\n    }\n\n    errors = errors.concat(validateEnum({\n        key: `${key}[0]`,\n        value: value[0],\n        valueSpec: styleSpec.filter_operator,\n        style: options.style,\n        styleSpec: options.styleSpec\n    }));\n\n    switch (unbundle(value[0])) {\n    case '<':\n    case '<=':\n    case '>':\n    case '>=':\n        if (value.length >= 2 && unbundle(value[1]) === '$type') {\n            errors.push(new ValidationError(key, value, `\"$type\" cannot be use with operator \"${value[0]}\"`));\n        }\n        /* falls through */\n    case '==':\n    case '!=':\n        if (value.length !== 3) {\n            errors.push(new ValidationError(key, value, `filter array for operator \"${value[0]}\" must have 3 elements`));\n        }\n        /* falls through */\n    case 'in':\n    case '!in':\n        if (value.length >= 2) {\n            type = getType(value[1]);\n            if (type !== 'string') {\n                errors.push(new ValidationError(`${key}[1]`, value[1], `string expected, ${type} found`));\n            }\n        }\n        for (let i = 2; i < value.length; i++) {\n            type = getType(value[i]);\n            if (unbundle(value[1]) === '$type') {\n                errors = errors.concat(validateEnum({\n                    key: `${key}[${i}]`,\n                    value: value[i],\n                    valueSpec: styleSpec.geometry_type,\n                    style: options.style,\n                    styleSpec: options.styleSpec\n                }));\n            } else if (type !== 'string' && type !== 'number' && type !== 'boolean') {\n                errors.push(new ValidationError(`${key}[${i}]`, value[i], `string, number, or boolean expected, ${type} found`));\n            }\n        }\n        break;\n\n    case 'any':\n    case 'all':\n    case 'none':\n        for (let i = 1; i < value.length; i++) {\n            errors = errors.concat(validateNonExpressionFilter({\n                key: `${key}[${i}]`,\n                value:
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value[i],\n style: options.style,\n styleSpec: options.styleSpec\n }));\n }\n break;\n\n case 'has':\n case '!has':\n type = getType(value[1]);\n if (value.length !== 2) {\n errors.push(new ValidationError(key, value, `filter array for \"${value[0]}\" operator must have 2 elements`));\n } else if (type !== 'string') {\n errors.push(new ValidationError(`${key}[1]`, value[1], `string expected, ${type} found`));\n }\n break;\n case 'within':\n type = getType(value[1]);\n if (value.length !== 2) {\n errors.push(new ValidationError(key, value, `filter array for \"${value[0]}\" operator must have 2 elements`));\n } else if (type !== 'object') {\n errors.push(new ValidationError(`${key}[1]`, value[1], `object expected, ${type} found`));\n }\n break;\n }\n return errors;\n}\n","// @flow\n\nimport validate from './validate.js';\nimport ValidationError from '../error/validation_error.js';\nimport getType from '../util/get_type.js';\nimport {isFunction} from '../function/index.js';\nimport {unbundle, deepUnbundle} from '../util/unbundle_jsonlint.js';\nimport {supportsPropertyExpression} from '../util/properties.js';\n\nimport type {ValidationOptions} from './validate.js';\n\nexport type PropertyValidationOptions = ValidationOptions & {\n objectKey: string;\n layerType: string;\n}\n\nexport default function validateProperty(options: PropertyValidationOptions, propertyType: string): Array<ValidationError> {\n const key = options.key;\n const style = options.style;\n const styleSpec = options.styleSpec;\n const value = options.value;\n const propertyKey = options.objectKey;\n const layerSpec = styleSpec[`${propertyType}_${options.layerType}`];\n\n if (!layerSpec) return [];\n\n const transitionMatch = propertyKey.match(/^(.*)-transition$/);\n if (propertyType === 'paint' && transitionMatch && layerSpec[transitionMatch[1]] && layerSpec[transitionMatch[1]].transition) {\n return validate({\n key,\n value,\n valueSpec: styleSpec.transition,\n style,\n styleSpec\n });\n }\n\n const valueSpec = options.valueSpec || layerSpec[propertyKey];\n if (!valueSpec) {\n return [new ValidationError(key, value, `unknown property \"${propertyKey}\"`)];\n }\n\n let tokenMatch;\n if (getType(value) === 'string' && supportsPropertyExpression(valueSpec) && !valueSpec.tokens && (tokenMatch = /^{([^}]+)}$/.exec(value))) {\n return [new ValidationError(\n key, value,\n `\"${propertyKey}\" does not support interpolation syntax\\n` +\n `Use an identity property function instead: \\`{ \"type\": \"identity\", \"property\": ${JSON.stringify(tokenMatch[1])} }\\`.`)];\n }\n\n const errors = [];\n\n if (options.layerType === 'symbol') {\n if (propertyKey === 'text-field' && style && !style.glyphs) {\n errors.push(new ValidationError(key, value, 'use of \"text-field\" requires a style \"glyphs\" property'));\n }\n if (propertyKey === 'text-font' && isFunction(deepUnbundle(value)) && unbundle(value.type) === 'identity') {\n errors.push(new ValidationError(key, value, '\"text-font\" does not support identity functions'));\n }\n }\n\n return errors.concat(validate({\n key: options.key,\n value,\n valueSpec,\n style,\n styleSpec,\n expressionContext: 'property',\n propertyType,\n propertyKey\n }));\n}\n","// @flow\n\nimport validateProperty from './validate_property.js';\n\nimport type ValidationError from '../error/validation_error.js';\nimport type {PropertyValidationOptions} from './validate_property.js';\n\nexport default function validatePaintProperty(options: PropertyValidationOptions): Array<ValidationError> {\n return validateProperty(options, 'paint');\n}\n","// @flow\n\nimport validateProperty from './validate_property.js';\n\nimport type ValidationError from '../error/validation_error.js';\nimport type {PropertyValidationOptions} from './validate_property.js';\n\nexport default function validateLayoutProperty(options: PropertyValidationOptions): Array<ValidationError> {\n return validateProperty(options, 'layout');\n}\n","// @flow\n\nimport ValidationError from '../error/validation_error.js';\nimport {unbundle} from '../util/unbundle_jsonlint.js';\nimport validateObject from './validate_object.js';\nimport validateFilter from './validate_filter.js';\nimport validatePaintProperty from './validate_paint_property.js';\nimport validateLayoutProperty from './validate_layout_property.js';\nimport validateSpec from './validate.js';\nimport extend from '../util/extend.js';\n\nimport type {ValidationOptions} from './validate.js';\nimport type {LayerSpecification} from '../types.js';\n\ntype Options = ValidationOptions & {\n value: LayerSpecification;\n arrayIndex: number;\n}\n\nexport default function validateLayer(options: Options): Array<ValidationError> {\n let errors = [];\n\n const layer = options.value;\n const key = options.key;\n const style = options.style;\n const styleSpec = options.styleSpec;\n\n if (!layer.type && !layer.ref) {\n errors.push(new ValidationError(key, layer, 'either \"type\" or \"ref\" is required'));\n }\n let type =

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unbundle(layer.type);\n    const ref = unbundle(layer.ref);\n\n    if (layer.id) {\n        const layerId = unbundle(layer.id);\n        for (let i = 0; i < options.arrayIndex; i++) {\n            const otherLayer = style.layers[i];\n            if (unbundle(otherLayer.id) === layerId) {\n                // $FlowFixMe[prop-missing] - id.__line__ is added dynamically during the readStyle step\n                errors.push(new ValidationError(key, layer.id, `duplicate layer id \"${layer.id}\", previously used at line ${otherLayer.id.__line__}`));\n            }\n        }\n    }\n\n    if ('ref' in layer) {\n        ['type', 'source', 'source-layer', 'filter', 'layout'].forEach((p) => {\n            if (p in layer) {\n                errors.push(new ValidationError(key, layer[p], `\"${p}\" is prohibited for ref layers`));\n            }\n        });\n\n        let parent;\n\n        style.layers.forEach((layer) => {\n            if (unbundle(layer.id) === ref) parent = layer;\n        });\n\n        if (!parent) {\n            if (typeof ref === 'string')\n                errors.push(new ValidationError(key, layer.ref, `ref layer \"${ref}\" not found`));\n        } else if (parent.ref) {\n            errors.push(new ValidationError(key, layer.ref, 'ref cannot reference another ref layer'));\n        } else {\n            type = unbundle(parent.type);\n        }\n    } else if (!(type === 'background' || type === 'sky')) {\n        if (!layer.source) {\n            errors.push(new ValidationError(key, layer, 'missing required property \"source\"'));\n        } else {\n            const source = style.sources && style.sources[layer.source];\n            const sourceType = source && unbundle(source.type);\n            if (!source) {\n                errors.push(new ValidationError(key, layer.source, `source \"${layer.source}\" not found`));\n            } else if (sourceType === 'vector' && type === 'raster') {\n                errors.push(new ValidationError(key, layer.source, `layer \"${layer.id}\" requires a raster source`));\n            } else if (sourceType === 'raster' && type !== 'raster') {\n                errors.push(new ValidationError(key, layer.source, `layer \"${layer.id}\" requires a vector source`));\n            } else if (sourceType === 'vector' && !layer['source-layer']) {\n                errors.push(new ValidationError(key, layer, `layer \"${layer.id}\" must specify a \"source-layer\"`));\n            } else if (sourceType === 'raster-dem' && type !== 'hillshade') {\n                errors.push(new ValidationError(key, layer.source, 'raster-dem source can only be used with layer type \\'hillshade\\'.'));\n            } else if (type === 'line' && layer.paint && (layer.paint['line-gradient'] || layer.paint['line-trim-offset']) &&\n                (sourceType !== 'geojson' || !source.lineMetrics)) {\n                errors.push(new ValidationError(key, layer, `layer \"${layer.id}\" specifies a line-gradient, which requires a GeoJSON source with \\`lineMetrics\\` enabled.`));\n            }\n        }\n    }\n\n    errors = errors.concat(validateObject({\n        key,\n        value: layer,\n        valueSpec: styleSpec.layer,\n        style: options.style,\n        styleSpec: options.styleSpec,\n        objectElementValidators: {\n            '*'() {\n                return [];\n            },\n            // We don't want to enforce the spec's `\"requires\": true` for backward compatibility with refs;\n            // the actual requirement is validated above. See https://github.com/mapbox/mapbox-gl-js/issues/5772.\n            type() {\n                return validateSpec({\n                    key: `${key}.type`,\n                    value: layer.type,\n                    valueSpec: styleSpec.layer.type,\n                    style: options.style,\n                    styleSpec: options.styleSpec,\n                    object: layer,\n                    objectKey: 'type'\n                });\n            },\n            filter(options) {\n                return validateFilter(extend({layerType: type}, options));\n            },\n            layout(options) {\n                return validateObject({\n                    layer,\n                    key: options.key,\n                    value: options.value,\n                    valueSpec: {},\n                    style: options.style,\n                    styleSpec: options.styleSpec,\n                    objectElementValidators: {\n                        '*'(options) {\n                            return validateLayoutProperty(extend({layerType: type}, options));\n                        }\n                    }\n                });\n            },\n            paint(options) {\n                return validateObject({\n                    layer,\n                    key: options.key,\n                    value: options.value,\n                    valueSpec: {},\n                    style: options.style,\n                    styleSpec: options.styleSpec,\n                    objectElementValidators: {\n                        '*'(options) {\n                            return validatePaintProperty(extend({layerType: type}, options));\n                        }\n                    }\n                });\n            }\n        }\n    }));\n\n    return errors;\n}\n","// @flow\n\nimport getType from '../util/get_type.js';\nimport ValidationError from '../error/validation_error.js';\n\nimport type {ValidationOptions} from './validate.js';\n\nexport default function validateString(options: $Shape<ValidationOptions>): Array<ValidationError> {\n    const value = options.value;\n    const key = options.key;\n    const type = getType(value);\n\n    if (type !== 'string') {\n        return [new ValidationError(key, value, `string expected, ${type} found`)];\n    }\n\n    return [];\n}\n","// @flow\n\nimport ValidationError from '../error/validation_error.js';\nimport {unbundle} from '../util/unbundle_jsonlint.js';\nimport validateObject from
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'./validate_object.js';\nimport validateEnum from './validate_enum.js';\nimport validateExpression from './validate_expression.js';\nimport validateString from './validate_string.js';\nimport getType from '../util/get_type.js';\n\nimport type {ValidationOptions} from './validate.js';\n\nconst objectElementValidators = {\n promoteId: validatePromoteId\n};\n\nexport default function validateSource(options: ValidationOptions): Array<ValidationError> {\n const value = options.value;\n const key = options.key;\n const styleSpec = options.styleSpec;\n const style = options.style;\n\n if (!value.type) {\n return [new ValidationError(key, value, '\"type\" is required')];\n }\n\n const type = unbundle(value.type);\n let errors;\n\n switch (type) {\n case 'vector':\n case 'raster':\n case 'raster-dem':\n errors = validateObject({\n key,\n value,\n valueSpec: styleSpec[`source_${type.replace('-', '_')}`],\n style: options.style,\n styleSpec,\n objectElementValidators\n });\n return errors;\n\n case 'geojson':\n errors = validateObject({\n key,\n value,\n valueSpec: styleSpec.source_geojson,\n style,\n styleSpec,\n objectElementValidators\n });\n if (value.cluster) {\n for (const prop in value.clusterProperties) {\n const [operator, mapExpr] = value.clusterProperties[prop];\n const reduceExpr = typeof operator === 'string' ? [operator, ['accumulated'], ['get', prop]] : operator;\n\n errors.push(...validateExpression({\n key: `${key}.${prop}.map`,\n value: mapExpr,\n expressionContext: 'cluster-map'\n }));\n errors.push(...validateExpression({\n key: `${key}.${prop}.reduce`,\n value: reduceExpr,\n expressionContext: 'cluster-reduce'\n }));\n }\n }\n return errors;\n\n case 'video':\n return validateObject({\n key,\n value,\n valueSpec: styleSpec.source_video,\n style,\n styleSpec\n });\n\n case 'image':\n return validateObject({\n key,\n value,\n valueSpec: styleSpec.source_image,\n style,\n styleSpec\n });\n\n case 'canvas':\n return [new ValidationError(key, null, `Please use runtime APIs to add canvas sources, rather than including them in stylesheets.`, 'source.canvas')];\n\n default:\n return validateEnum({\n key: `${key}.type`,\n value: value.type,\n valueSpec: {values: getSourceTypeValues(styleSpec)},\n style,\n styleSpec\n });\n }\n}\n\nfunction getSourceTypeValues(styleSpec) {\n return styleSpec.source.reduce((memo, source) => {\n const sourceType = styleSpec[source];\n if (sourceType.type.type === 'enum') {\n memo = memo.concat(Object.keys(sourceType.type.values));\n }\n return memo;\n }, []);\n}\n\nfunction validatePromoteId({key, value}) {\n if (getType(value) === 'string') {\n return validateString({key, value});\n } else {\n const errors = [];\n for (const prop in value) {\n errors.push(...validateString({key: `${key}.${prop}`, value: value[prop]}));\n }\n return errors;\n }\n}\n","// @flow\n\nimport ValidationError from '../error/validation_error.js';\nimport getType from '../util/get_type.js';\nimport validate from './validate.js';\n\nimport type {ValidationOptions} from './validate.js';\n\nexport default function validateLight(options: ValidationOptions): Array<ValidationError> {\n const light = options.value;\n const styleSpec = options.styleSpec;\n const lightSpec = styleSpec.light;\n const style = options.style;\n\n let errors = [];\n\n const rootType = getType(light);\n if (light === undefined) {\n return errors;\n } else if (rootType !== 'object') {\n errors = errors.concat([new ValidationError('light', light, `object expected, ${rootType} found`)]);\n return errors;\n }\n\n for (const key in light) {\n const transitionMatch = key.match(/^(.*)-transition$/);\n\n if (transitionMatch && lightSpec[transitionMatch[1]] && lightSpec[transitionMatch[1]].transition) {\n errors = errors.concat(validate({\n key,\n value: light[key],\n valueSpec: styleSpec.transition,\n style,\n styleSpec\n }));\n } else if (lightSpec[key]) {\n errors = errors.concat(validate({\n key,\n value: light[key],\n valueSpec: lightSpec[key],\n style,\n styleSpec\n }));\n } else {\n errors = errors.concat([new ValidationError(key, light[key], `unknown property \"${key}\"`)]);\n }\n }\n\n return errors;\n}\n","// @flow\n\nimport ValidationError from '../error/validation_error.js';\nimport validate from './validate.js';\nimport getType from '../util/get_type.js';\nimport {unbundle} from '../util/unbundle_jsonlint.js';\n\nimport type {ValidationOptions} from './validate.js';\n\nexport default function validateTerrain(options: ValidationOptions): Array<ValidationError> {\n const terrain = options.value;\n const key = options.key;\n const style = options.style;\n const styleSpec = options.styleSpec;\n const terrainSpec =

styleSpec.terrain;\n   let errors = [];\n\n   const rootType = getType(terrain);\n   if (terrain === undefined) {\n   return errors;\n   } else if (rootType !== 'object') {\n   errors = errors.concat([new ValidationError('terrain', terrain, `object expected, ${rootType} found`)]);\n   return errors;\n   }\n\n   for (const key in terrain) {\n   const transitionMatch = key.match(/^(.*)-transition$/);\n\n   if (transitionMatch && terrainSpec[transitionMatch[1]] && terrainSpec[transitionMatch[1]].transition) {\n   errors = errors.concat(validate({\n   key,\n   value: terrain[key],\n   valueSpec: styleSpec.transition,\n   style,\n   styleSpec\n   }));\n   } else if (terrainSpec[key]) {\n   errors = errors.concat(validate({\n   key,\n   value: terrain[key],\n   valueSpec: terrainSpec[key],\n   style,\n   styleSpec\n   }));\n   } else {\n   errors = errors.concat([new ValidationError(key, terrain[key], `unknown property \"${key}\"`)]);\n   }\n   }\n\n   if (!terrain.source) {\n   errors.push(new ValidationError(key, terrain, `terrain is missing required property \"source\"`));\n   } else {\n   const source = style.sources && style.sources[terrain.source];\n   const sourceType = source && unbundle(source.type);\n   if (!source) {\n   errors.push(new ValidationError(key, terrain.source, `source \"${terrain.source}\" not found`));\n   } else if (sourceType !== 'raster-dem') {\n   errors.push(new ValidationError(key, terrain.source, `terrain cannot be used with a source of type ${String(sourceType)}, it only be used with a \"raster-dem\" source type`));\n   }\n   }\n\n   return errors;\n}\n","// @flow\n\nimport ValidationError from '../error/validation_error.js';\nimport validate from './validate.js';\nimport getType from '../util/get_type.js';\n\nimport type {ValidationOptions} from './validate.js';\n\nexport default function validateFog(options: ValidationOptions): Array<ValidationError> {\n   const fog = options.value;\n   const style = options.style;\n   const styleSpec = options.styleSpec;\n   const fogSpec = styleSpec.fog;\n   let errors = [];\n\n   const rootType = getType(fog);\n   if (fog === undefined) {\n   return errors;\n   } else if (rootType !== 'object') {\n   errors = errors.concat([new ValidationError('fog', fog, `object expected, ${rootType} found`)]);\n   return errors;\n   }\n\n   for (const key in fog) {\n   const transitionMatch = key.match(/^(.*)-transition$/);\n\n   if (transitionMatch && fogSpec[transitionMatch[1]] && fogSpec[transitionMatch[1]].transition) {\n   errors = errors.concat(validate({\n   key,\n   value: fog[key],\n   valueSpec: styleSpec.transition,\n   style,\n   styleSpec\n   }));\n   } else if (fogSpec[key]) {\n   errors = errors.concat(validate({\n   key,\n   value: fog[key],\n   valueSpec: fogSpec[key],\n   style,\n   styleSpec\n   }));\n   } else {\n   errors = errors.concat([new ValidationError(key, fog[key], `unknown property \"${key}\"`)]);\n   }\n   }\n\n   return errors;\n}\n","// @flow\n\nimport validateExpression from './validate_expression.js';\nimport validateString from './validate_string.js';\n\nimport type {ValidationOptions} from './validate.js';\nimport type ValidationError from '../error/validation_error.js';\n\nexport default function validateFormatted(options: ValidationOptions): Array<ValidationError> {\n   if (validateString(options).length === 0) {\n   return [];\n   }\n\n   return validateExpression(options);\n}\n","// @flow\n\nimport validateExpression from './validate_expression.js';\nimport validateString from './validate_string.js';\n\nimport type {ValidationOptions} from './validate.js';\nimport type ValidationError from '../error/validation_error.js';\n\nexport default function validateImage(options: ValidationOptions): Array<ValidationError> {\n   if (validateString(options).length === 0) {\n   return [];\n   }\n\n   return validateExpression(options);\n}\n","// @flow\n\nimport ValidationError from '../error/validation_error.js';\nimport getType from '../util/get_type.js';\nimport validate from './validate.js';\n\nimport type {ValidationOptions} from './validate.js';\n\nexport default function validateProjection(options: ValidationOptions): Array<ValidationError> {\n   const projection = options.value;\n   const styleSpec = options.styleSpec;\n   const projectionSpec = styleSpec.projection;\n   const style = options.style;\n\n   let errors = [];\n\n   const rootType = getType(projection);\n\n   if (rootType === 'object') {\n   for (const key in projection) {\n   errors = errors.concat(validate({\n   key,\n   value: projection[key],\n   valueSpec: projectionSpec[key],\n   style,\n   styleSpec\n   }));\n   }\n   } else if (rootType !== 'string') {\n   errors = errors.concat([new ValidationError('projection', projection, `object or string expected, ${rootType} found`)]);\n   }\n\n   return errors;\n}\n","// @flow\n\nimport extend from '../util/extend.js';\nimport {unbundle, deepUnbundle} from '../util/unbundle_jsonlint.js';\nimport {isExpression} from '../expression/index.js';\nimport

{isFunction} from '../function/index.js';\n\nimport validateFunction from './validate_function.js';\nimport validateExpression from './validate_expression.js';\nimport validateObject from './validate_object.js';\nimport validateArray from './validate_array.js';\nimport validateBoolean from './validate_boolean.js';\nimport validateNumber from './validate_number.js';\nimport validateColor from './validate_color.js';\nimport validateEnum from './validate_enum.js';\nimport validateFilter from './validate_filter.js';\nimport validateLayer from './validate_layer.js';\nimport validateSource from './validate_source.js';\nimport validateLight from './validate_light.js';\nimport validateTerrain from './validate_terrain.js';\nimport validateFog from './validate_fog.js';\nimport validateString from './validate_string.js';\nimport validateFormatted from './validate_formatted.js';\nimport validateImage from './validate_image.js';\nimport validateProjection from './validate_projection.js';\n\nimport type {StyleReference} from '../reference/latest.js';\nimport type {StyleSpecification} from '../types.js';\nimport type ValidationError from '../error/validation_error.js';\n\nconst VALIDATORS = {\n '*'() {\n return [];\n },\n 'array': validateArray,\n 'boolean': validateBoolean,\n 'number': validateNumber,\n 'color': validateColor,\n 'enum': validateEnum,\n 'filter': validateFilter,\n 'function': validateFunction,\n 'layer': validateLayer,\n 'object': validateObject,\n 'source': validateSource,\n 'light': validateLight,\n 'terrain': validateTerrain,\n 'fog': validateFog,\n 'string': validateString,\n 'formatted': validateFormatted,\n 'resolvedImage': validateImage,\n 'projection': validateProjection\n};\n\n// Main recursive validation function. Tracks:\n//\n// - key: string representing location of validation in style tree. Used only\n// for more informative error reporting.\n// - value: current value from style being evaluated. May be anything from a\n// high level object that needs to be descended into deeper or a simple\n// scalar value.\n// - valueSpec: current spec being evaluated. Tracks value.\n// - styleSpec: current full spec being evaluated.\nexport type ValidationOptions = {\n key: string;\n value: Object;\n valueSpec: Object;\n style: $Shape<StyleSpecification>;\n styleSpec: StyleReference;\n}\n\nexport default function validate(options: ValidationOptions): Array<ValidationError> {\n const value = options.value;\n const valueSpec = options.valueSpec;\n const styleSpec = options.styleSpec;\n\n if (valueSpec.expression && isFunction(unbundle(value))) {\n return validateFunction(options);\n\n } else if (valueSpec.expression && isExpression(deepUnbundle(value))) {\n return validateExpression(options);\n\n } else if (valueSpec.type && VALIDATORS[valueSpec.type]) {\n return VALIDATORS[valueSpec.type](options);\n\n } else {\n const valid = validateObject(extend({}, options, {\n valueSpec: valueSpec.type ? styleSpec[valueSpec.type] : valueSpec\n }));\n return valid;\n }\n}\n","// @flow\n\nimport ValidationError from '../error/validation_error.js';\nimport validateString from './validate_string.js';\n\nimport type {ValidationOptions} from './validate.js';\n\nexport default function(options: ValidationOptions): Array<ValidationError> {\n const value = options.value;\n const key = options.key;\n\n const errors = validateString(options);\n if (errors.length) return errors;\n\n if (value.indexOf('{fontstack}') === -1) {\n errors.push(new ValidationError(key, value, '\"glyphs\" url must include a \"{fontstack}\" token'));\n }\n\n if (value.indexOf('{range}') === -1) {\n errors.push(new ValidationError(key, value, '\"glyphs\" url must include a \"{range}\" token'));\n }\n\n return errors;\n}\n","// @flow\n\nimport validate from './validate/validate.js';\nimport latestStyleSpec from './reference/latest.js';\nimport validateGlyphsURL from './validate/validate_glyphs_url.js';\n\nimport _validateSource from './validate/validate_source.js';\nimport _validateLight from './validate/validate_light.js';\nimport _validateTerrain from './validate/validate_terrain.js';\nimport _validateFog from './validate/validate_fog.js';\nimport _validateLayer from './validate/validate_layer.js';\nimport _validateFilter from './validate/validate_filter.js';\nimport _validatePaintProperty from './validate/validate_paint_property.js';\nimport _validateLayoutProperty from './validate/validate_layout_property.js';\n\nimport type {StyleSpecification} from './types.js';\n\nexport type ValidationError = {\n message: string;\n identifier?: ?string;\n line?: ?number;\n};\nexport type ValidationErrors = $ReadOnlyArray<ValidationError>;\nexport type Validator = (Object) => ValidationErrors;\n\n/**\n * Validate a Mapbox GL style against the style specification. This entrypoint,\n * `mapbox-gl-style-spec/lib/validate_style.min`, is designed to produce as\n * small a browserify bundle as possible by omitting unnecessary functionality\n * and legacy style specifications.\n *\n * @private\n * @param {Object} style The style to be validated.\n * @param {Object} [styleSpec] The style specification to validate against.\n * If

omitted, the latest style spec is used.\n * @returns {Array<ValidationError>}\n * @example\n * var validate = require('mapbox-gl-style-spec/lib/validate_style.min');\n * var errors = validate(style);\n */\nexport function validateStyle(style: StyleSpecification, styleSpec: Object = latestStyleSpec): ValidationErrors {\n\n const errors = validate({\n key: '',\n value: style,\n valueSpec: styleSpec.$root,\n styleSpec,\n style,\n objectElementValidators: {\n glyphs: validateGlyphsURL,\n '*': () => []\n }\n });\n return sortErrors(errors);\n}\n\nexport const validateSource: Validator = opts => sortErrors(_validateSource(opts));\nexport const validateLight: Validator = opts => sortErrors(_validateLight(opts));\nexport const validateTerrain: Validator = opts => sortErrors(_validateTerrain(opts));\nexport const validateFog: Validator = opts => sortErrors(_validateFog(opts));\nexport const validateLayer: Validator = opts => sortErrors(_validateLayer(opts));\nexport const validateFilter: Validator = opts => sortErrors(_validateFilter(opts));\nexport const validatePaintProperty: Validator = opts => sortErrors(_validatePaintProperty(opts));\nexport const validateLayoutProperty: Validator = opts => sortErrors(_validateLayoutProperty(opts));\n\nfunction sortErrors(errors) {\n return errors.slice().sort((a, b) => a.line && b.line ? a.line - b.line : 0);\n}\n","/* parser generated by jison 0.4.15 */\n/*\n Returns a Parser object of the following structure:\n\n Parser: {\n yy: {}\n }\n\n Parser.prototype: {\n yy: {},\n trace: function(),\n symbols_: {associative list: name ==> number},\n terminals_: {associative list: number ==> name},\n productions_: [...],\n performAction: function anonymous(yytext, yyleng, yylineno, yy, yystate, $$, _$),\n table: [...],\n defaultActions: {...},\n parseError: function(str, hash),\n parse: function(input),\n\n lexer: {\n EOF: 1,\n parseError: function(str, hash),\n setInput: function(input),\n input: function(),\n unput: function(str),\n more: function(),\n less: function(n),\n pastInput: function(),\n upcomingInput: function(),\n showPosition: function(),\n test_match: function(regex_match_array, rule_index),\n next: function(),\n lex: function(),\n begin: function(condition),\n popState: function(),\n _currentRules: function(),\n topState: function(),\n pushState: function(condition),\n\n options: {\n ranges: boolean (optional: true ==> token location info will include a .range[] member)\n flex: boolean (optional: true ==> flex-like lexing behaviour where the rules are tested exhaustively to find the longest match)\n backtrack_lexer: boolean (optional: true ==> lexer regexes are tested in order and for each matching regex the action code is invoked; the lexer terminates the scan when a token is returned by the action code)\n },\n\n performAction: function(yy, yy_, $avoiding_name_collisions, YY_START),\n rules: [...],\n conditions: {associative list: name ==> set},\n }\n }\n\n\n token location info (@$, _$, etc.): {\n first_line: n,\n last_line: n,\n first_column: n,\n last_column: n,\n range: [start_number, end_number] (where the numbers are indexes into the input string, regular zero-based)\n }\n\n\n the parseError function receives a 'hash' object with these members for lexer and parser errors: {\n text: (matched text)\n token: (the produced terminal token, if any)\n line: (yylineno)\n }\n while parser (grammar) errors will also provide these members, i.e. parser errors deliver a superset of attributes: {\n loc: (yylloc)\n expected: (string describing the set of expected tokens)\n recoverable: (boolean: TRUE when the parser has a error recovery rule available for this particular error)\n }\n*/\nvar parser = (function(){\nvar o=function(k,v,o,l){for(o=o||{},l=k.length;l--;o[k[l]]=v);return o},$V0=[1,12],$V1=[1,13],$V2=[1,9],$V3=[1,10],$V4=[1,11],$V5=[1,14],$V6=[1,15],$V7=[14,18,22,24],$V8=[18,22],$V9=[22,24];\nvar parser = {trace: function trace() { },\nyy: {},\nsymbols_: {\"error\":2,\"JSONString\":3,\"STRING\":4,\"JSONNumber\":5,\"NUMBER\":6,\"JSONNullLiteral\":7,\"NULL\":8,\"JSONBooleanLiteral\":9,\"TRUE\":10,\"FALSE\":11,\"JSONText\":12,\"JSONValue\":13,\"EOF\":14,\"JSONObject\":15,\"JSONArray\":16,\"{\":17,\"}\":18,\"JSONMemberList\":19,\"JSONMember\":20,\":\":21,\",\":22,\"[\":23,\"]\":24,\"JSONElementList\":25,\"$accept\":0,\"$end\":1},\nterminals_: {2:\"error\",4:\"STRING\",6:\"NUMBER\",8:\"NULL\",10:\"TRUE\",11:\"FALSE\",14:\"EOF\",17:\"{\",18:\"}\",21:\":\",22:\",\",23:\"[\",24:\"]\"},\nproductions_: [0,[3,1],[5,1],[7,1],[9,1],[9,1],[12,2],[13,1],[13,1],[13,1],[13,1],[13,1],[13,1],[15,2],[15,3],[20,3],[19,1],[19,3],[16,2],[16,3],[25,1],[25,3]],\nperformAction: function anonymous(yytext, yyleng, yylineno, yy, yystate /* action[1] */, $$

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/* vstack */, _$ /* lstack */) {\n/* this == yyval */\n\nvar $0 = $$.length - 1;\nswitch (yystate) {\ncase 1:\n // replace escaped characters with actual character\n          this.$ = new String(yytext.replace(/\\\\(\\\\|\")/g, \"$\"+\"1\")\n                    .replace(/\\\\n/g,'\\n')\n                    .replace(/\\\\r/g,'\\r')\n                    .replace(/\\\\t/g,'\\t')\n                    .replace(/\\\\v/g,'\\v')\n                    .replace(/\\\\f/g,'\\f')\n                    .replace(/\\\\b/g,'\\b'));\n          this.$.__line__ = this._$.first_line;\n        \nbreak;\ncase 2:\n\n          this.$ = new Number(yytext);\n          this.$.__line__ = this._$.first_line;\n        \nbreak;\ncase 3:\n\n          this.$ = null;\n        \nbreak;\ncase 4:\n\n          this.$ = new Boolean(true);\n          this.$.__line__ = this._$.first_line;\n        \nbreak;\ncase 5:\n\n          this.$ = new Boolean(false);\n          this.$.__line__ = this._$.first_line;\n        \nbreak;\ncase 6:\nreturn this.$ = $$[$0-1];\nbreak;\ncase 13:\nthis.$ = {}; Object.defineProperty(this.$, '__line__', {\n          value: this._$.first_line,\n          enumerable: false\n        })\nbreak;\ncase 14: case 19:\nthis.$ = $$[$0-1]; Object.defineProperty(this.$, '__line__', {\n          value: this._$.first_line,\n          enumerable: false\n        })\nbreak;\ncase 15:\nthis.$ = [$$[$0-2], $$[$0]];\nbreak;\ncase 16:\nthis.$ = {}; this.$[$$[$0][0]] = $$[$0][1];\nbreak;\ncase 17:\nthis.$ = $$[$0-2]; $$[$0-2][$$[$0][0]] = $$[$0][1];\nbreak;\ncase 18:\nthis.$ = []; Object.defineProperty(this.$, '__line__', {\n          value: this._$.first_line,\n          enumerable: false\n        })\nbreak;\ncase 20:\nthis.$ = [$$[$0]];\nbreak;\ncase 21:\nthis.$ = $$[$0-2]; $$[$0-2].push($$[$0]);\nbreak;\n}\n},\ntable: [{3:5,4:$V0,5:6,6:$V1,7:3,8:$V2,9:4,10:$V3,11:$V4,12:1,13:2,15:7,16:8,17:$V5,23:$V6},{1:[3]},{14:[1,16]},o($V7,[2,7]),o($V7,[2,8]),o($V7,[2,9]),o($V7,[2,10]),o($V7,[2,11]),o($V7,[2,12]),o($V7,[2,3]),o($V7,[2,4]),o($V7,[2,5]),o([14,18,21,22,24],[2,1]),o($V7,[2,2]),{3:20,4:$V0,18:[1,17],19:18,20:19},{3:5,4:$V0,5:6,6:$V1,7:3,8:$V2,9:4,10:$V3,11:$V4,13:23,15:7,16:8,17:$V5,23:$V6,24:[1,21],25:22},{1:[2,6]},o($V7,[2,13]),{18:[1,24],22:[1,25]},o($V8,[2,16]),{21:[1,26]},o($V7,[2,18]),{22:[1,28],24:[1,27]},o($V9,[2,20]),o($V7,[2,14]),{3:20,4:$V0,20:29},{3:5,4:$V0,5:6,6:$V1,7:3,8:$V2,9:4,10:$V3,11:$V4,13:30,15:7,16:8,17:$V5,23:$V6},o($V7,[2,19]),{3:5,4:$V0,5:6,6:$V1,7:3,8:$V2,9:4,10:$V3,11:$V4,13:31,15:7,16:8,17:$V5,23:$V6},o($V8,[2,17]),o($V8,[2,15]),o($V9,[2,21])],\ndefaultActions: {16:[2,6]},\nparseError: function parseError(str, hash) {\n    if (hash.recoverable) {\n        this.trace(str);\n    } else {\n        throw new Error(str);\n    }\n},\nparse: function parse(input) {\n    var self = this, stack = [0], tstack = [], vstack = [null], lstack = [], table = this.table, yytext = '', yylineno = 0, yyleng = 0, recovering = 0, TERROR = 2, EOF = 1;\n    var args = lstack.slice.call(arguments, 1);\n    var lexer = Object.create(this.lexer);\n    var sharedState = { yy: {} };\n    for (var k in this.yy) {\n        if (Object.prototype.hasOwnProperty.call(this.yy, k)) {\n            sharedState.yy[k] = this.yy[k];\n        }\n    }\n    lexer.setInput(input, sharedState.yy);\n    sharedState.yy.lexer = lexer;\n    sharedState.yy.parser = this;\n    if (typeof lexer.yylloc == 'undefined') {\n        lexer.yylloc = {};\n    }\n    var yyloc = lexer.yylloc;\n    lstack.push(yyloc);\n    var ranges = lexer.options && lexer.options.ranges;\n    if (typeof sharedState.yy.parseError === 'function') {\n        this.parseError = sharedState.yy.parseError;\n    } else {\n        this.parseError = Object.getPrototypeOf(this).parseError;\n    }\n    function popStack(n) {\n        stack.length = stack.length - 2 * n;\n        vstack.length = vstack.length - n;\n        lstack.length = lstack.length - n;\n    }\n    _token_stack:\n        function lex() {\n            var token;\n            token = lexer.lex() || EOF;\n            if (typeof token !== 'number') {\n                token = self.symbols_[token] || token;\n            }\n            return token;\n        }\n    var symbol, preErrorSymbol, state, action, a, r, yyval = {}, p, len, newState, expected;\n    while (true) {\n        state = stack[stack.length - 1];\n        if (this.defaultActions[state]) {\n            action = this.defaultActions[state];\n        } else {\n            if (symbol === null || typeof symbol == 'undefined') {\n                symbol = lex();\n            }\n            action = table[state] && table[state][symbol];\n        }\n                if (typeof action === 'undefined' || !action.length || !action[0]) {\n                var errStr = '';\n                expected = [];\n                for (p in table[state]) {\n                    if (this.terminals_[p] && p > TERROR) {\n                        expected.push('\\'' + this.terminals_[p] + '\\'');\n                    }\n                }\n                if (lexer.showPosition) {\n                    errStr = 'Parse error on line ' + (yylineno + 1) + ':\\n' + lexer.showPosition() + '\\nExpecting ' + expected.join(', ') + ', got \\'' + (this.terminals_[symbol] || symbol) + '\\'';\n                } else {\n                    errStr = 'Parse error on line ' + (yylineno + 1) + ': Unexpected ' + (symbol == EOF ? 'end of input' : '\\'' + (this.terminals_[symbol] || symbol) + '\\'');\n                }\n                this.parseError(errStr, {\n                    text: lexer.match,\n                    token: this.terminals_[symbol] || symbol,\n                    line: lexer.yylineno,\n                    loc: yyloc,\n                    expected: expected\n                });\n            }\n        if (action[0] instanceof Array &&
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action.length > 1) {\n            throw new Error('Parse Error: multiple actions possible at state: ' + state + ', token: ' + symbol);\n        }\n        switch (action[0]) {\n        case 1:\n            stack.push(symbol);\n            vstack.push(lexer.yytext);\n            lstack.push(lexer.yylloc);\n            stack.push(action[1]);\n            symbol = null;\n            if (!preErrorSymbol) {\n                yyleng = lexer.yyleng;\n                yytext = lexer.yytext;\n                yylineno = lexer.yylineno;\n                yyloc = lexer.yylloc;\n                if (recovering > 0) {\n                    recovering--;\n                }\n            } else {\n                symbol = preErrorSymbol;\n                preErrorSymbol = null;\n            }\n            break;\n        case 2:\n            len = this.productions_[action[1]][1];\n            yyval.$ = vstack[vstack.length - len];\n            yyval._$ = {\n                first_line: lstack[lstack.length - (len || 1)].first_line,\n                last_line: lstack[lstack.length - 1].last_line,\n                first_column: lstack[lstack.length - (len || 1)].first_column,\n                last_column: lstack[lstack.length - 1].last_column\n            };\n            if (ranges) {\n                yyval._$.range = [\n                    lstack[lstack.length - (len || 1)].range[0],\n                    lstack[lstack.length - 1].range[1]\n                ];\n            }\n            r = this.performAction.apply(yyval, [\n                yytext,\n                yyleng,\n                yylineno,\n                sharedState.yy,\n                action[1],\n                vstack,\n                lstack\n            ].concat(args));\n            if (typeof r !== 'undefined') {\n                return r;\n            }\n            if (len) {\n                stack = stack.slice(0, -1 * len * 2);\n                vstack = vstack.slice(0, -1 * len);\n                lstack = lstack.slice(0, -1 * len);\n            }\n            stack.push(this.productions_[action[1]][0]);\n            vstack.push(yyval.$);\n            lstack.push(yyval._$);\n            newState = table[stack[stack.length - 2]][stack[stack.length - 1]];\n            stack.push(newState);\n            break;\n        case 3:\n            return true;\n        }\n    }\n    return true;\n}};\n/* generated by jison-lex 0.3.4 */\nvar lexer = (function(){\nvar lexer = ({\n\nEOF:1,\n\nparseError:function parseError(str, hash) {\n        if (this.yy.parser) {\n            this.yy.parser.parseError(str, hash);\n        } else {\n            throw new Error(str);\n        }\n    },\n\n// resets the lexer, sets new input\nsetInput:function (input, yy) {\n        this.yy = yy || this.yy || {};\n        this._input = input;\n        this._more = this._backtrack = this.done = false;\n        this.yylineno = this.yyleng = 0;\n        this.yytext = this.matched = this.match = '';\n        this.conditionStack = ['INITIAL'];\n        this.yylloc = {\n            first_line: 1,\n            first_column: 0,\n            last_line: 1,\n            last_column: 0\n        };\n        if (this.options.ranges) {\n            this.yylloc.range = [0,0];\n        }\n        this.offset = 0;\n        return this;\n    },\n\n// consumes and returns one char from the input\ninput:function () {\n        var ch = this._input[0];\n        this.yytext += ch;\n        this.yyleng++;\n        this.offset++;\n        this.match += ch;\n        this.matched += ch;\n        var lines = ch.match(/(?:\\r\\n?|\\n).*/g);\n        if (lines) {\n            this.yylineno++;\n            this.yylloc.last_line++;\n        } else {\n            this.yylloc.last_column++;\n        }\n        if (this.options.ranges) {\n            this.yylloc.range[1]++;\n        }\n\n        this._input = this._input.slice(1);\n        return ch;\n    },\n\n// unshifts one char (or a string) into the input\nunput:function (ch) {\n        var len = ch.length;\n        var lines = ch.split(/(?:\\r\\n?|\\n)/g);\n\n        this._input = ch + this._input;\n        this.yytext = this.yytext.substr(0, this.yytext.length - len);\n        //this.yyleng -= len;\n        this.offset -= len;\n        var oldLines = this.match.split(/(?:\\r\\n?|\\n)/g);\n        this.match = this.match.substr(0, this.match.length - 1);\n        this.matched = this.matched.substr(0, this.matched.length - 1);\n\n        if (lines.length - 1) {\n            this.yylineno -= lines.length - 1;\n        }\n        var r = this.yylloc.range;\n\n        this.yylloc = {\n            first_line: this.yylloc.first_line,\n            last_line: this.yylineno + 1,\n            first_column: this.yylloc.first_column,\n            last_column: lines ?\n                (lines.length === oldLines.length ? this.yylloc.first_column : 0)\n                 + oldLines[oldLines.length - lines.length].length - lines[0].length :\n                this.yylloc.first_column - len\n        };\n\n        if (this.options.ranges) {\n            this.yylloc.range = [r[0], r[0] + this.yyleng - len];\n        }\n        this.yyleng = this.yytext.length;\n        return this;\n    },\n\n// When called from action, caches matched text and appends it on next action\nmore:function () {\n        this._more = true;\n        return this;\n    },\n\n// When called from action, signals the lexer that this rule fails to match the input, so the next matching rule (regex) should be tested instead.\nreject:function () {\n        if (this.options.backtrack_lexer) {\n            this._backtrack = true;\n        } else {\n            return this.parseError('Lexical error on line ' + (this.yylineno + 1) + '. You can only invoke reject() in the lexer when the lexer is of the backtracking persuasion (options.backtrack_lexer = true).\\n' + this.showPosition(), {\n                text: \"\",\n                token: null,\n                line: this.yylineno\n            });\n\n        }\n        return this;\n    },\n\n// retain first n characters of the match\nless:function (n) {\n        this.unput(this.match.slice(n));\n    },\n\n//
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displays already matched input, i.e. for error messages\npastInput:function () {\n var past = this.matched.substr(0, this.matched.length - this.match.length);\n return (past.length > 20 ? '...':'') + past.substr(-20).replace(/\\n/g, \"\");\n },\n\n// displays upcoming input, i.e. for error messages\nupcomingInput:function () {\n var next = this.match;\n if (next.length < 20) {\n next += this._input.substr(0, 20-next.length);\n }\n return (next.substr(0,20) + (next.length > 20 ? '...' : '')).replace(/\\n/g, \"\");\n },\n\n// displays the character position where the lexing error occurred, i.e. for error messages\nshowPosition:function () {\n var pre = this.pastInput();\n var c = new Array(pre.length + 1).join(\"-\");\n return pre + this.upcomingInput() + \"\\n\" + c + \"^\";\n },\n\n// test the lexed token: return FALSE when not a match, otherwise return token\ntest_match:function (match, indexed_rule) {\n var token,\n lines,\n backup;\n\n if (this.options.backtrack_lexer) {\n // save context\n backup = {\n yylineno: this.yylineno,\n yylloc: {\n first_line: this.yylloc.first_line,\n last_line: this.last_line,\n first_column: this.yylloc.first_column,\n last_column: this.yylloc.last_column\n },\n yytext: this.yytext,\n match: this.match,\n matches: this.matches,\n matched: this.matched,\n yyleng: this.yyleng,\n offset: this.offset,\n _more: this._more,\n _input: this._input,\n yy: this.yy,\n conditionStack: this.conditionStack.slice(0),\n done: this.done\n };\n if (this.options.ranges) {\n backup.yylloc.range = this.yylloc.range.slice(0);\n }\n }\n\n lines = match[0].match(/(?:\\r\\n?|\\n).*/g);\n if (lines) {\n this.yylineno += lines.length;\n }\n this.yylloc = {\n first_line: this.yylloc.last_line,\n last_line: this.yylineno + 1,\n first_column: this.yylloc.last_column,\n last_column: lines ?\n lines[lines.length - 1].length - lines[lines.length - 1].match(/\\r?\\n?/)[0].length :\n this.yylloc.last_column + match[0].length\n };\n this.yytext += match[0];\n this.match += match[0];\n this.matches = match;\n this.yyleng = this.yytext.length;\n if (this.options.ranges) {\n this.yylloc.range = [this.offset, this.offset += this.yyleng];\n }\n this._more = false;\n this._backtrack = false;\n this._input = this._input.slice(match[0].length);\n this.matched += match[0];\n token = this.performAction.call(this, this.yy, this, indexed_rule, this.conditionStack[this.conditionStack.length - 1]);\n if (this.done && this._input) {\n this.done = false;\n }\n if (token) {\n return token;\n } else if (this._backtrack) {\n // recover context\n for (var k in backup) {\n this[k] = backup[k];\n }\n return false; // rule action called reject() implying the next rule should be tested instead.\n }\n return false;\n },\n\n// return next match in input\nnext:function () {\n if (this.done) {\n return this.EOF;\n }\n if (!this._input) {\n this.done = true;\n }\n\n var token,\n match,\n tempMatch,\n index;\n if (!this._more) {\n this.yytext = '';\n this.match = '';\n }\n var rules = this._currentRules();\n for (var i = 0; i < rules.length; i++) {\n tempMatch = this._input.match(this.rules[rules[i]]);\n if (tempMatch && (!match || tempMatch[0].length > match[0].length)) {\n match = tempMatch;\n index = i;\n if (this.options.backtrack_lexer) {\n token = this.test_match(tempMatch, rules[i]);\n if (token !== false) {\n return token;\n } else if (this._backtrack) {\n match = false;\n continue; // rule action called reject() implying a rule MISmatch.\n } else {\n // else: this is a lexer rule which consumes input without producing a token (e.g. whitespace)\n return false;\n }\n } else if (!this.options.flex) {\n break;\n }\n }\n }\n if (match) {\n token = this.test_match(match, rules[index]);\n if (token !== false) {\n return token;\n }\n // else: this is a lexer rule which consumes input without producing a token (e.g. whitespace)\n return false;\n }\n if (this._input === \"\") {\n return this.EOF;\n } else {\n return this.parseError('Lexical error on line ' + (this.yylineno + 1) + '. Unrecognized text.\\n' + this.showPosition(), {\n text: \"\",\n token: null,\n line: this.yylineno\n });\n }\n },\n\n// return next match that has a token\nlex:function lex() {\n var r = this.next();\n if (r) {\n return r;\n } else {\n return this.lex();\n }\n },\n\n// activates a new lexer condition state (pushes the new lexer condition state onto the condition stack)\nbegin:function begin(condition) {\n this.conditionStack.push(condition);\n },\n\n// pop the previously active lexer condition state off the condition

stack\npopState:function popState() {\n var n = this.conditionStack.length - 1;\n if (n > 0) {\n return this.conditionStack.pop();\n } else {\n return this.conditionStack[0];\n }\n },\n\n// produce the lexer rule set which is active for the currently active lexer condition state\n_currentRules:function _currentRules() {\n if (this.conditionStack.length && this.conditionStack[this.conditionStack.length - 1]) {\n return this.conditions[this.conditionStack[this.conditionStack.length - 1]].rules;\n } else {\n return this.conditions[\"INITIAL\"].rules;\n }\n },\n\n// return the currently active lexer condition state; when an index argument is provided it produces the N-th previous condition state, if available\ntopState:function topState(n) {\n n = this.conditionStack.length - 1 - Math.abs(n || 0);\n if (n >= 0) {\n return this.conditionStack[n];\n } else {\n return \"INITIAL\";\n }\n },\n\n// alias for begin(condition)\npushState:function pushState(condition) {\n this.begin(condition);\n },\n\n// return the number of states currently on the stack\nstateStackSize:function stateStackSize() {\n return this.conditionStack.length;\n },\noptions: {},\nperformAction: function anonymous(yy,yy_,$avoiding_name_collisions,YY_START) {\nvar YYSTATE=YY_START;\nswitch($avoiding_name_collisions) {\ncase 0:/* skip whitespace */\nbreak;\ncase 1:return 6\nbreak;\ncase 2:yy_.yytext = yy_.yytext.substr(1,yy_.yyleng-2); return 4\nbreak;\ncase 3:return 17\nbreak;\ncase 4:return 18\nbreak;\ncase 5:return 23\nbreak;\ncase 6:return 24\nbreak;\ncase 7:return 22\nbreak;\ncase 8:return 21\nbreak;\ncase 9:return 10\nbreak;\ncase 10:return 11\nbreak;\ncase 11:return 8\nbreak;\ncase 12:return 14\nbreak;\ncase 13:return 'INVALID'\nbreak;\n}\n},\nrules: [/^(?:\\s+)/,/^(?:(-?([0-9]|[1-9][0-9]+))(\\.[0-9]+)?([eE][-+]?[0-9]+)?\\b)/,/^(?:\"(?:\\\\[\\\\\"bfnrt/]|\\\\u[a-fA-F0-9]{4}|[^\\\\\\0-\\x09\\x0a-\\x1f\"])*\")/,/^(?:\\{)/,/^(?:\\})/,/^(?:\\[)/,/^(?:\\])/,/^(?:,)/,/^(?::)/,/^(?:true\\b)/,/^(?:false\\b)/,/^(?:null\\b)/,/^(?:$)/,/^(?:.)/],\nconditions: {\"INITIAL\":{\"rules\":[0,1,2,3,4,5,6,7,8,9,10,11,12,13],\"inclusive\":true}}\n});\nreturn lexer;\n})();\nparser.lexer = lexer;\nfunction Parser () {\n this.yy = {};\n}\nParser.prototype = parser;parser.Parser = Parser;\nreturn new Parser;\n})();\n\n\nif (typeof require !== 'undefined' && typeof exports !== 'undefined') {\nexports.parser = parser;\nexports.Parser = parser.Parser;\nexports.parse = function () { return parser.parse.apply(parser, arguments); };\n}\n","import ParsingError from './error/parsing_error.js';\nimport jsonlint from '@mapbox/jsonlint-lines-primitives';\n\nexport default function readStyle(style) {\n if (style instanceof String || typeof style === 'string' || style instanceof Buffer) {\n try {\n return jsonlint.parse(style.toString());\n } catch (e) {\n throw new ParsingError(e);\n }\n }\n\n return style;\n}\n","// @flow\nimport {validateStyle as validateStyleMin} from './validate_style.min.js';\nimport {v8} from './style-spec.js';\nimport readStyle from './read_style.js';\n\nimport type {ValidationErrors} from './validate_style.min.js';\nimport type {StyleSpecification} from './types.js';\n\n/**\n * Validate a Mapbox GL style against the style specification.\n *\n * @private\n * @alias validate\n * @param {Object|String|Buffer} style The style to be validated. If a `String`\n * or `Buffer` is provided, the returned errors will contain line numbers.\n * @param {Object} [styleSpec] The style specification to validate against.\n * If omitted, the spec version is inferred from the stylesheet.\n * @returns {Array<ValidationError|ParsingError>}\n * @example\n * var validate = require('mapbox-gl-style-spec').validate;\n * var style = fs.readFileSync('./style.json', 'utf8');\n * var errors = validate(style);\n */\n\nexport default function validateStyle(style: StyleSpecification | string | Buffer, styleSpec: Object = v8): ValidationErrors {\n let s = style;\n\n try {\n s = readStyle(s);\n } catch (e) {\n return [e];\n }\n\n return validateStyleMin(s, styleSpec);\n}\n\nexport {\n validateSource as source,\n validateLight as light,\n validateLayer as layer,\n validateFilter as filter,\n validatePaintProperty as paintProperty,\n validateLayoutProperty as layoutProperty\n} from './validate_style.min.js';\n","// @flow\n\nimport {validateStyle} from './validate_style.min.js';\nimport {v8} from './style-spec.js';\nimport readStyle from './read_style.js';\nimport ValidationError from './error/validation_error.js';\nimport getType from './util/get_type.js';\n\nimport type {ValidationErrors} from './validate_style.min.js';\n\nconst SUPPORTED_SPEC_VERSION = 8;\nconst MAX_SOURCES_IN_STYLE = 15;\n\nfunction isValid(value: ?string, regex: RegExp): boolean {\n if (!value || getType(value) !== 'string') return true;\n return !!value.match(regex);\n}\n\nfunction getSourceCount(source: Object): number {\n if (source.url) {\n return source.url.split(',').length;\n } else {\n return 0;\n }\n}\n\nfunction getAllowedKeyErrors(obj: Object, keys: Array<*>, path: ?string): Array<ValidationError> {\n

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const allowed = new Set(keys);\n    const errors = [];\n    Object.keys(obj).forEach(k => {\n        if (!allowed.has(k)) {\n            const prop = path ? `${path}.${k}` : null;\n            errors.push(new ValidationError(prop, obj[k], `Unsupported property \"${k}\"`));\n        }\n    });\n    return errors;\n}\n\nconst acceptedSourceTypes = new Set([\"vector\", \"raster\", \"raster-dem\"]);\nfunction getSourceErrors(source: Object, i: number): Array<ValidationError> {\n    const errors = [];\n\n    /*\n     * Inlined sources are not supported by the Mapbox Styles API, so only\n     * \"type\", \"url\", and \"tileSize\" properties are valid\n     */\n    const sourceKeys = ['type', 'url', 'tileSize'];\n    errors.push(...getAllowedKeyErrors(source, sourceKeys, 'source'));\n\n    /*\n     * \"type\" is required and must be one of \"vector\", \"raster\", \"raster-dem\"\n     */\n    if (!acceptedSourceTypes.has(String(source.type))) {\n        errors.push(new ValidationError(`sources[${i}].type`, source.type, `Expected one of [${Array.from(acceptedSourceTypes).join(\", \")}]`));\n    }\n\n    /*\n     * \"source\" is required. Valid examples:\n     * mapbox://mapbox.abcd1234\n     * mapbox://penny.abcd1234\n     * mapbox://mapbox.abcd1234,penny.abcd1234\n     */\n    const sourceUrlPattern = /^mapbox:\\/\\/([^/]*)$/;\n    if (!source.url || !isValid(source.url, sourceUrlPattern)) {\n        errors.push(new ValidationError(`sources[${i}].url`, source.url, 'Expected a valid Mapbox tileset url'));\n    }\n\n    return errors;\n}\n\nfunction getSourcesErrors(sources: Object): Array<ValidationError> {\n    const errors = [];\n    let count = 0;\n\n    Object.keys(sources).forEach((s: string, i: number) => {\n        const sourceErrors = getSourceErrors(sources[s], i);\n\n        // If source has errors, skip counting\n        if (!sourceErrors.length) {\n            count = count + getSourceCount(sources[s]);\n        }\n\n        errors.push(...sourceErrors);\n    });\n\n    if (count > MAX_SOURCES_IN_STYLE) {\n        errors.push(new ValidationError('sources', null, `Styles must contain ${MAX_SOURCES_IN_STYLE} or fewer sources`));\n    }\n\n    return errors;\n}\n\nfunction getRootErrors(style: Object, specKeys: Array<any>): Array<ValidationError> {\n    const errors = [];\n\n    /*\n     * The following keys are optional but fully managed by the Mapbox Styles\n     * API. Values on stylesheet on POST or PATCH will be ignored: \"owner\",\n     * \"id\", \"cacheControl\", \"draft\", \"created\", \"modified\", \"protected\"\n     *\n     * The following keys are optional. The Mapbox Styles API respects value on\n     * stylesheet on PATCH, but ignores the value on POST: \"visibility\"\n     */\n    const optionalRootProperties = [\n        'owner',\n        'id',\n        'cacheControl',\n        'draft',\n        'created',\n        'modified',\n        'visibility',\n        'protected'\n    ];\n\n    const allowedKeyErrors = getAllowedKeyErrors(style, [...specKeys, ...optionalRootProperties]);\n    errors.push(...allowedKeyErrors);\n\n    if (style.version > SUPPORTED_SPEC_VERSION || style.version < SUPPORTED_SPEC_VERSION) {\n        errors.push(new ValidationError('version', style.version, `Style version must be ${SUPPORTED_SPEC_VERSION}`));\n    }\n\n    /*\n     * \"glyphs\" is optional. If present, valid examples:\n     * mapbox://fonts/penny/{fontstack}/{range}.pbf\n     * mapbox://fonts/mapbox/{fontstack}/{range}.pbf\n     */\n    const glyphUrlPattern = /^mapbox:\\/\\/fonts\\/([^/]*)\\/{fontstack}\\/{range}.pbf$/;\n    if (!isValid(style.glyphs, glyphUrlPattern)) {\n        errors.push(new ValidationError('glyphs', style.glyphs, 'Styles must reference glyphs hosted by Mapbox'));\n    }\n\n    /*\n     * \"sprite\" is optional. If present, valid examples:\n     * mapbox://sprites/penny/abcd1234\n     * mapbox://sprites/mapbox/abcd1234/draft\n     * mapbox://sprites/cyrus/abcd1234/abcd1234\n     */\n    const spriteUrlPattern = /^mapbox:\\/\\/sprites\\/([^/]*)\\/([^/]*)\\/?([^/]*)?$/;\n    if (!isValid(style.sprite, spriteUrlPattern)) {\n        errors.push(new ValidationError('sprite', style.sprite, 'Styles must reference sprites hosted by Mapbox'));\n    }\n\n    /*\n     * \"visibility\" is optional. If present, valid examples:\n     * \"private\"\n     * \"public\"\n     */\n    const visibilityPattern = /^(public|private)$/;\n    if (!isValid(style.visibility, visibilityPattern)) {\n        errors.push(new ValidationError('visibility', style.visibility, 'Style visibility must be public or private'));\n    }\n\n    if (style.protected !== undefined && getType(style.protected) !== 'boolean') {\n        errors.push(new ValidationError('protected', style.protected, 'Style protection must be true or false'));\n    }\n\n    return errors;\n}\n\n/**\n * Validate a Mapbox GL style against the style specification and check for\n * compatibility with the Mapbox Styles API.\n *\n * @param {Object} style The style to be validated.\n * @returns {Array<ValidationError>}\n * @example\n *    var validateMapboxApiSupported = require('mapbox-gl-style-spec/lib/validate_style_mapbox_api_supported.js');\n *    var errors = validateMapboxApiSupported(style);\n */\nexport default function validateMapboxApiSupported(style: Object, styleSpec: Object = v8): ValidationErrors
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{\n let s = style;\n try {\n   s = readStyle(s);\n } catch (e) {\n   return [e];\n }\n\n let errors = validateStyle(s, styleSpec)\n   .concat(getRootErrors(s, Object.keys(v8.$root)));\n\n if (s.sources) {\n   errors = errors.concat(getSourcesErrors(s.sources));\n }\n\n return errors;\n}\n\n","// @flow\n\ntype ExpressionType = 'data-driven' | 'color-ramp' | 'data-constant' | 'constant';\ntype ExpressionParameters = Array<'zoom' | 'feature' | 'feature-state' | 'heatmap-density' | 'line-progress' | 'sky-radial-progress' | 'pitch' | 'distance-from-center'>;\n\ntype ExpressionSpecification = {\n interpolated: boolean,\n parameters: ExpressionParameters\n}\n\nexport type StylePropertySpecification = {\n type: 'number',\n 'property-type': ExpressionType,\n expression?: ExpressionSpecification,\n transition: boolean,\n default?: number\n} | {\n type: 'string',\n 'property-type': ExpressionType,\n expression?: ExpressionSpecification,\n transition: boolean,\n default?: string,\n tokens?: boolean\n} | {\n type: 'boolean',\n 'property-type': ExpressionType,\n expression?: ExpressionSpecification,\n transition: boolean,\n default?: boolean\n} | {\n type: 'enum',\n 'property-type': ExpressionType,\n expression?: ExpressionSpecification,\n values: {[_: string]: {}},\n transition: boolean,\n default?: string\n} | {\n type: 'color',\n 'property-type': ExpressionType,\n expression?: ExpressionSpecification,\n transition: boolean,\n default?: string,\n overridable: boolean\n} | {\n type: 'array',\n value: 'number',\n 'property-type': ExpressionType,\n expression?: ExpressionSpecification,\n length?: number,\n transition: boolean,\n default?: Array<number>\n} | {\n type: 'array',\n value: 'string',\n 'property-type': ExpressionType,\n expression?: ExpressionSpecification,\n length?: number,\n transition: boolean,\n default?: Array<string>\n} | {\n type: 'resolvedImage',\n 'property-type': ExpressionType,\n expression?: ExpressionSpecification,\n transition: boolean,\n default?: string\n};\n\nimport v8 from './reference/v8.json';\nimport latest from './reference/latest.js';\nimport format from './format.js';\nimport migrate from './migrate.js';\nimport composite from './composite.js';\nimport derefLayers from './deref.js';\nimport diff from './diff.js';\nimport ValidationError from './error/validation_error.js';\nimport ParsingError from './error/parsing_error.js';\nimport {StyleExpression, isExpression, createExpression, createPropertyExpression, normalizePropertyExpression, ZoomConstantExpression, ZoomDependentExpression, StylePropertyFunction} from './expression/index.js';\nimport featureFilter, {isExpressionFilter} from './feature_filter/index.js';\n\nimport convertFilter from './feature_filter/convert.js';\nimport Color from './util/color.js';\nimport {createFunction, isFunction} from './function/index.js';\nimport convertFunction from './function/convert.js';\nimport {eachSource, eachLayer, eachProperty} from './visit.js';\n\nimport validate from './validate_style.js';\nimport validateMapboxApiSupported from './validate_mapbox_api_supported.js';\n\nconst expression = {\n StyleExpression,\n isExpression,\n isExpressionFilter,\n createExpression,\n createPropertyExpression,\n normalizePropertyExpression,\n ZoomConstantExpression,\n ZoomDependentExpression,\n StylePropertyFunction\n};\n\nconst styleFunction = {\n convertFunction,\n createFunction,\n isFunction\n};\n\nconst visit = {eachSource, eachLayer, eachProperty};\n\nexport {\n v8,\n latest,\n format,\n migrate,\n composite,\n derefLayers,\n diff,\n ValidationError,\n ParsingError,\n expression,\n featureFilter,\n convertFilter,\n Color,\n styleFunction as function,\n validate,\n validateMapboxApiSupported,\n visit\n};\n"],"names":["stringOrChar","stringify","passedObj","options","indent","JSON","undefined","slice","maxLength","Infinity","replacer","_stringify","obj","currentIndent","reserved","toJSON","string","length","prettified","replace","match","stringLiteral","parse","nextIndent","items","index","start","end","Array","isArray","push","keys","Object","key","keyPart","value","join","sortKeysBy","reference","result","format","style","space","$root","layers","map","layer","stringifyPretty","root","freeExports","exports","nodeType","freeModule","module","freeGlobal","global","window","self","punycode","maxInt","base","tMin","tMax","skew","damp","initialBias","initialN","delimiter","regexPunycode","regexNonASCII","regexSeparators","errors","baseMinusTMin","floor","Math","stringFromCharCode","String","fromCharCode","error","type","RangeError","array","fn","mapDomain","parts","split","labels","encoded","ucs2decode","output","counter","extra","charCodeAt","ucs2encode","basicToDigit","codePoint","digitToBasic","digit","flag","adapt","delta","numPoints","firstTime","k","decode","input","inputLength","out","i","n","bias","basic","j","oldi","w","t","baseMinusT","lastIndexOf","splice","encode","handledCPCount","basicLength","m","q","currentValue","handledCPCountPlusOne","qMinusT","toUnicode","test","toLowerCase","toASCII","hasOwnProperty","this","isString","arg","isObject","isNull","isNullOrUndefined","prop","prototype","call","qs","sep","eq","rege

xp","maxKeys","len","x","idx","indexOf","kstr","vstr","v","substr","decodeURIComponent","stringifyPrimitive","isFinite","name","ks","encodeURIComponent","require","querystring","util","urlParse","urlResolve","urlResolveObject","urlFormat","Url","protocol","slashes","auth","host","port","hostname","hash","search","query","pathname","path","href","protocolPattern","portPattern","simplePathPattern","delims","unwise","concat","autoEscape","nonHostChars","hostEndingChars","hostnameMaxLen","hostnamePartPattern","hostnamePartStart","unsafeProtocol","hostlessProtocol","slashedProtocol","url","parseQueryString","slashesDenoteHost","u","TypeError","queryIndex","splitter","uSplit","slashRegex","rest","trim","simplePath","exec","proto","lowerProto","hostEnd","hec","atSign","parseHost","ipv6Hostname","hostparts","l","part","newpart","validParts","notHost","bit","unshift","p","h","ae","esc","escape","qm","s","charAt","source","relative","resolve","resolveObject","rel","tkeys","tk","tkey","rkeys","rk","rkey","relPath","shift","isSourceAbs","isRelAbs","mustEndAbs","removeAllDots","srcPath","psychotic","pop","authInHost","last","hasTrailingSlash","up","isAbsolute","getPropertyReference","propertyName","Reference","layout","paint","eachSource","callback","sources","eachLayer","eachProperty","inner","propertyType","properties","forEach","id","set","eachLayout","eachPaint","resolveConstant","constants","isFunction","stops","renameProperty","from","to","version","coordinates","coord","reverse","property","stop","migrateFontstackURL","inputParsed","URL","inputPathnameParts","assert","decodeURI","predicate","Error","glyphs","migrateFontStack","font","splitAndTrim","firstSymbolLayer","symbolLayers","inputs","ParsingError","constructor","message","Scope","parent","bindings","expression","get","has","NullType","kind","NumberType","StringType","BooleanType","ColorType","ObjectType","ValueType","ErrorType","CollatorType","FormattedType","ResolvedImageType","itemType","N","toString","valueMemberTypes","checkSubtype","expected","memberType","isValidType","provided","allowedTypes","some","isValidNativeType","kCSSColorTable","clamp_css_byte","round","clamp_css_float","f","parse_css_int","str","parseFloat","parseInt","parse_css_float","css_hue_to_rgb","m1","m2","parseCSSColor","css_str","iv","op","ep","fname","params","alpha","e","Color","r","g","b","a","rgba","toArray","toArray01","toArray01PremultipliedAlpha","black","white","transparent","red","blue","Collator","caseSensitive","diacriticSensitive","locale","sensitivity","collator","Intl","usage","compare","lhs","rhs","resolvedLocale","resolvedOptions","FormattedSection","text","image","scale","fontStack","textColor","normalize","Formatted","sections","fromString","unformatted","isEmpty","section","factory","serialize","serialized","ResolvedImage","available","validateRGBA","isValue","mixed","item","typeOf","Literal","args","context","expectedType","evaluate","eachChild","outputDefined","RuntimeError","types","number","boolean","object","Assertion","parsed","ctx","every","FormatExpression","firstArg","nextTokenMayBeObject","lastExpression","content","evaluateSection","evaluatedContent","ImageExpression","evaluatedImageName","availableImages","Coercion","Boolean","c","parseColor","num","Number","isNaN","valueToString","child","geometryTypes","EvaluationContext","globals","feature","featureState","formattedSection","_parseColorCache","canonical","featureTileCoord","featureDistanceData","geometryType","geometry","canonicalID","distanceFromCenter","center","y","dX","dY","bX","bearing","bY","dist","cached","CompoundExpression","_evaluate","definition","definitions","availableOverloads","overloads","filter","signature","signatureContext","ParsingContext","registry","scope","parsedArgs","argParseFailed","signatures","stringifySignature","actualTypes","register","CollatorExpression","EXTENT","updateBBox","bbox","min","max","mercatorXfromLng","lng","mercatorYfromLat","lat","PI","log","tan","boxWithinBox","bbox1","bbox2","getTileCoordinates","tilesAtZoom","pow","z","onBoundary","p1","p2","x1","y1","x2","y2","rayIntersect","pointWithinPolygon","point","rings","inside","ring","len2","pointWithinPolygons","polygons","perp","v1","v2","twoSided","q1","q2","x3","y3","det1","det2","lineIntersectLine","d","vectorP","vectorQ","lineIntersectPolygon","polygon","lineStringWithinPolygon","line","lineStringWithinPolygons","getTilePolygon","getTilePolygons","updatePoint","polyBBox","worldSize","halfWorldSize","resetBBox","getTilePoints","pointBBox","shifts","tilePoints","points","getTileLines","lineBBox","tileLines","tileLine","pointsWithinPolygons","polygonGeometry","tilePolygon","tilePolygons","linesWithinPolygons","Within","geojson","geometries","features","isFeatureConstant","isStateConstant","isGlobalPropertyConstant","Var","boundExpression","expr","_parse","annotate","typeAnnotation","Expr","actual","isConstant","ec","isTypeAnnotation","childrenConstant","findStopLessThanOrEqualTo","lastIndex","lowerIndex","upperIndex","currentIndex","nextValue","Step","outputs","label","outputType","labelKey","valueKey","stopCount","UnitBezier","p1x","p1y","p2x","p2y","cx","bx","ax","cy","by","ay","sampleCurveX","sampleCurveY","sampleCurveDerivativeX","solveCurveX","epsilon","abs","d2","t0","t1","solve","color","Xn","Yn","Zn","t2","t3","de

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ApB,EAAiCv5B,KAAA,CAAMynC,SAAvC,EAAkD,wCAAlD,CAAZ,CADyE,CAAA;AAAA,KA5DG;AAAA,IA
gEhF,OAAO3lC,MAAP,CAhEgF;AAAA,CA5FpF;AAyKA;AAAA;AAAA;AAAA;AAAA;AAAA;AAAA;
AAAA;AAAA;AAAe,SAAS4lC,0BAAT,CAAoC1nC,KAApC,EAAmD+5B,SAAA,GAAoBkM,EAAvE,EAA6F;A
AAA,IACxG,IAAIr6B,CAAA,GAAAI5L,KAAR,CADwG;AAAA,IAExG,IAAI;AAAA,QACA4L,CAAA,GAAIk6B
,SAAA,CAAUl6B,CAAV,CAAJ,CADA;AAAA,KAAJ,CAEE,OAAO+H,CAAP,EAAU;AAAA,QACR,OAAO,CA
ACA,CAAD,CAAP,CADQ;AAAA,KAJ4F;AAAA,IAQxG,IAAI7R,MAAA,GAASw9B,eAAA,CAAc1zB,CAAd,E
AAiBmuB,SAAjB,CACR/wB,CAAAAA,MADQ,CACDi+B,aAAA,CAAcr7B,CAAd,EAAiBrM,MAAA,CAAOD,IA
AP,CAAY2mC,EAAA,CAAG/lC,KAAf,CAAjB,CADC,CAAb,CARwG;AAAA,IAWxG,IAAI0L,CAAA,CAAEkC
,OAAN,EAAe;AAAA,QACXhM,MAAA,GAASA,MAAA,CAAOkH,MAAP,CAAc89B,gBAAA,CAAiBl7B,CAA
A,CAAEkC,OAAnB,CAAd,CAAT,CADW;AAAA,KAXyF;AAAA,IAexG,OAAOhM,MAAP,CAfwG;AAAA;;AC
tG5G;AAqBA,MAAM6O,UAAA,GAAAa;AAAA,IACf0d,eADe;AAAA,IAEfS,YAFe;AAAA,IAGfiD,kBAHe;AAA
A,IAIfhD,gBAJe;AAAA,IAKfO,wBALe;AAAA,IAMfS,2BANe;AAAA,IAOfb,sBAPe;AAAA,IAQfG,uBARe;AA
AA,IASfK,qBATe;AAAA,EAxFnB;AAoGA,MAAMiY,aAAA,GAAgB;AAAA,IAClBpX,eADkB;AAAA,IAElBlE
,cAFkB;AAAA,IAGlB1d,UAHkB;AAAA,EApGtB;AA0GA,MAAMi5B,KAAA,GAAQ;AAAA,IAACh6B,UAAD;
AAAA,IAAaG,SAAb;AAAA,IAAwBC,YAAAxB;AAAA;;;;"}

Found in path(s):
* /opt/cola/permits/1540265556_1674381469.07127/0/mapbox-mapbox-gl-style-spec-npm-13-28-0-3183e1b135-17246a849c-zip/node_modules/@mapbox/mapbox-gl-style-spec/dist/index.es.js.map
No license file was found, but licenses were detected in source scan.

13.27.0

Bug fixes

* Fix overwriting all feature ids while setting promoteIds on other layers with an object. ([#12322](https://github.com/mapbox/mapbox-gl-js/pull/12322)) (h/t [yongjun21](https://github.com/yongjun21))

13.26.0

Features

* Add unit option to number-format expression. ([#11839](https://github.com/mapbox/mapbox-gl-js/pull/11839)) (h/t [varna](https://github.com/varna))

Bug fixes

* Fix a bug where `id` expression didn't correctly handle a value of 0. ([#12000](https://github.com/mapbox/mapbox-gl-js/pull/12000))

13.25.0

Features

* Extend atmospheric `fog` with three new style specification properties: `high-color`, `space-color` and `star-intensity` to allow the design of atmosphere around the globe and night skies. ([#11590](https://github.com/mapbox/mapbox-gl-js/pull/11590))
* Add a new line layer paint property in the style specification: `line-trim-offset` that can be used to create a custom fade out with improved update performance over `line-gradient`. ([#11570](https://github.com/mapbox/mapbox-gl-js/pull/11570))

Bug fixes

* Add `source` field requirement to terrain exaggeration in the style specification. ([#11664](https://github.com/mapbox/mapbox-gl-js/pull/11664))

13.24.0

Bug fixes

* Fix error on `gl-style-validate` script. ([#11538](https://github.com/mapbox/mapbox-gl-js/pull/11538))
* Allow the second argument to the `in` expression operator to be an empty string. ([#11547](https://github.com/mapbox/mapbox-gl-js/pull/11547))
* Fix error on some valid `filter` expressions. ([#11475](https://github.com/mapbox/mapbox-gl-js/pull/11475))

13.23.1

Features and improvements

* Improve `coalesce` expressions to return a `ResolvedImage` when images are missing. ([#11371](https://github.com/mapbox/mapbox-gl-js/pull/11371))

13.23.0

Features and improvements

* Add a `projection` root property that allows a non-mercator projection to be set as a style's default projection. ([#11124](https://github.com/mapbox/mapbox-gl-js/pull/11124))
* Add support for using `["pitch"]` and `["distance-from-camera"]` expressions within the `filter` of a symbol layer. ([#10795](https://github.com/mapbox/mapbox-gl-js/pull/10795))

13.22.0

Features and improvements

* Added `protected` field to mapbox-api-supported validation. ([#10968](https://github.com/mapbox/mapbox-gl-js/pull/10968))

13.21.0

Features and improvements
* Add support for `text-writing-mode` property when using `symbol-placement: line` text labels. ([#10647](https://github.com/mapbox/mapbox-gl-js/pull/10647))
 * Note: This change will bring following changes for CJK text block:
  * 1. For vertical CJK text, all the characters including Latin and Numbers will be vertically placed now. Previously, Latin and Numbers are horizontally placed.
  * 2. For horizontal CJK text, it may have a slight horizontal shift due to the anchor shift.

13.20.1

Bug fixes

* Increase strictness of the style API validation for source types ([#10779](https://github.com/mapbox/mapbox-gl-js/pull/10779))
* Remove strictly-increasing requirement for fog range validation ([#10772](https://github.com/mapbox/mapbox-gl-js/pull/10772))

13.20.0

Features and improvements

* Add configurable fog as a root style specification ([#10564](https://github.com/mapbox/mapbox-gl-js/pull/10564))
* Add support for data-driven expressions in `line-dasharray` and `line-cap` properties. ([#10591](https://github.com/mapbox/mapbox-gl-js/pull/10591))
* Add support for data-driven `text-line-height` ([#10612](https://github.com/mapbox/mapbox-gl-js/pull/10612))

13.19.0

Features and improvements

* Added array support to minimums and maximums, allowing for validation of multi-dimensional style-spec value constraints. ([#10272](https://github.com/mapbox/mapbox-gl-js/pull/10272))

13.18.1

Bug fixes
* Fixed a bug where `map.setStyle` couldn't be used to enable terrain. ([#10177](https://github.com/mapbox/mapbox-gl-js/pull/10177))

13.18.0

Features and improvements

* Add 3D terrain feature. All layer types and markers can now be extruded using the new `terrain` root level style-spec property or with the function `map.setTerrain()`. ([#1489](https://github.com/mapbox/mapbox-gl-js/issues/1489))
* Add support for unlocked pitch up to 85° (previously 60°). ([#3731](https://github.com/mapbox/mapbox-gl-js/issues/3731))

* Add a new sky layer acting as an infinite background above the horizon line. This layer can be used from the style-spec and has two types: `atmospheric` and `gradient`.

13.17.0

Features and improvements
* Add a `filter` option for GeoJSON sources to filter out features prior to processing (e.g. before clustering). [#9864](https://github.com/mapbox/mapbox-gl-js/pull/9864)

13.16.0

Features and improvements
* Added `volatile` source property to control storing the tiles in local storage. ([9702](https://github.com/mapbox/mapbox-gl-js/pull/9702))

* Added `clusterMinPoints` option for clustered GeoJSON sources that defines the minimum number of points to form a cluster. ([#9748](https://github.com/mapbox/mapbox-gl-js/pull/9748))

13.15.0

Features and improvements
* Add `distance` expression to `style-spec`. This expression returns the shortest distance between a feature and an input geometry ([#9655](https://github.com/mapbox/mapbox-gl-js/pull/9655))

13.14.0

Features and improvements
* Add `index-of` and `slice` expressions to search arrays and strings for the first occurrence of a specified value and return a section of the original array or string ([#9450](https://github.com/mapbox/mapbox-gl-js/pull/9450)) (h/t [lbutler](https://github.com/lbutler))

13.13.1

Features and improvements
* Expose `expression.isExpressionFilter(..)` from the bundle. ([#9530](https://github.com/mapbox/mapbox-gl-js/pull/9530))

Bug fixes
* Fix a broken module import where the `style-spec` package was importing files from `mapbox-gl-js`, it's parent repo, causing downstream build systems to break. ([#9522](https://github.com/mapbox/mapbox-gl-js/pull/9522))

13.13.0

Features and improvements
* Add `within` expression for testing whether an evaluated feature lies within a given GeoJSON object ([#9352](https://github.com/mapbox/mapbox-gl-js/pull/9352)). For example:
`"icon-opacity": ["case", ["==", ["within", "some-polygon"], true], 1,
["==", ["within", "some-polygon"], false], 0]`

* Improve scaling of patterns used in `line-pattern` on all device resolutions and pixel ratios ([#9266](https://github.com/mapbox/mapbox-gl-js/pull/9266))

Bug fixes
* Allow needle argument to `in` expression to be false ([#9295](https://github.com/mapbox/mapbox-gl-js/pull/9295))
* Fix a bug where `icon-image` expression that evaluates to an empty string (`""`) produced a warning ([#9380](https://github.com/mapbox/mapbox-gl-js/pull/9380))
* Prevent exception resulting from `line-dash-array` of empty length ([#9385](https://github.com/mapbox/mapbox-gl-js/pull/9385))

13.12.0

* Update `image` expression SDK support table ([#9228](https://github.com/mapbox/mapbox-gl-js/pull/9228))
* Fix `promoteId` for line layers ([#9210](https://github.com/mapbox/mapbox-gl-js/pull/9210), [#9212](https://github.com/mapbox/mapbox-gl-js/pull/9212))

13.11.0

Features and improvements
* Add `promoteId` option to use a feature property as ID for feature state ([#8987](https://github.com/mapbox/mapbox-gl-js/pull/8987))
* Update `symbol-avoid-edges` documentation regarding global collision detection ([#9157](https://github.com/mapbox/mapbox-gl-js/pull/9157))
* Remove reference to `in` function which has been replaced by the `in` expression ([#9102](https://github.com/mapbox/mapbox-gl-js/pull/9102))

Bug fixes
* Fix bug where `symbol-sort-key` was not used for collisions that crossed tile boundaries ([#9054](https://github.com/mapbox/mapbox-gl-js/pull/9054))

13.10.2

Bug fixes
* Fix style validation error messages not being displayed ([#9073](https://github.com/mapbox/mapbox-gl-js/pull/9073))

13.10.0

Features and improvements
* Add ability to insert images into text labels using an `image` expression within a `format` expression: `"text-field": ["format", "Some text", ["image", "my-image"], "some more text"]` ([#8904](https://github.com/mapbox/mapbox-gl-js/pull/8904))
* Add `in` expression. It can check if a value is in an array (`["in", value, array]`) or a substring is in a string (`["in", substring, string]`) ([#8876](https://github.com/mapbox/mapbox-gl-js/pull/8876))
* Add support for stretchable images (aka nine-part or nine-patch images). Stretchable images can be used with `icon-text-fit` to draw resized images with unstretched corners and borders. ([#8997](https://github.com/mapbox/mapbox-gl-js/pull/8997))

* Add an es modules build of for mapbox-gl-style-spec in dist/ ([#8247](https://github.com/mapbox/mapbox-gl-js/pull/8247)) (h/t [ahocevar](https://github.com/ahocevar))

13.9.1

Improvement
* Rename `Image` type to `ResolvedImage`, to better represent the result of an `image` expression evaluation. ([#8901](https://github.com/mapbox/mapbox-gl-js/pull/8901))

13.9.0

* Add `image` expression operator to determine image availability ([#8684](https://github.com/mapbox/mapbox-gl-js/pull/8684))
* Add a style-spec function to validate that styles are compatible with the Mapbox API ([#8663](https://github.com/mapbox/mapbox-gl-js/pull/8663))

13.8.0

- Introduce `text-writing-mode` symbol layer property to allow placing point labels vertically. [#8399](https://github.com/mapbox/mapbox-gl-js/pull/8399)
- Allow `text-color` to be used in formatted expressions to be able to draw different parts of a label in different colors. [#8068](https://github.com/mapbox/mapbox-gl-js/pull/8068)
- Improve conversion of legacy filters with duplicate values. [#8542](https://github.com/mapbox/mapbox-gl-js/pull/8542)

13.7.2

Bug fixes
* Fix SDK support spec section for variable label placement ([#8384](https://github.com/mapbox/mapbox-gl-js/pull/8384)) (h/t [@pozdnyakov](https://github.com/pozdnyakov))

Features and improvements
* Add SDK support spec section for text-radial-offset ([#8401](https://github.com/mapbox/mapbox-gl-js/pull/8401))
* Add `*-sort-key` layout property for circle, fill, line ([#8467](https://github.com/mapbox/mapbox-gl-js/pull/8467))
* Expose convertFilter API in the style specification ([#8493](https://github.com/mapbox/mapbox-gl-js/pull/8493))

13.7.1

Bug fixes
* Fix format expression options validation ([#8339](https://github.com/mapbox/mapbox-gl-js/pull/8339))
* Fix SDK support information for style properties added in v13.7.0: ([#8384](https://github.com/mapbox/mapbox-gl-js/pull/8384))
  * Add missing SDK support section for `text-radial-offset` property
  * Assign SDK versions for `text-variable-anchor` and `text-justify: auto`

13.7.0

Features and improvements
* Add `text-radial-offset` style property ([#7596](https://github.com/mapbox/mapbox-gl-js/pull/7596))
* Add `text-variable-anchor` style property ([#7596](https://github.com/mapbox/mapbox-gl-js/pull/7596))
* Add `auto` value to `text-justify` style property ([#7596](https://github.com/mapbox/mapbox-gl-js/pull/7596))

13.6.0

Features and improvements
* Add `clusterProperties` option for aggregated cluster properties ([#2412](https://github.com/mapbox/mapbox-gl-js/issues/2412), fixed by [#7584](https://github.com/mapbox/mapbox-gl-js/pull/7584))
* Add `number-format` expression ([#7626](https://github.com/mapbox/mapbox-gl-js/pull/7626))
* Add `symbol-sort-key` style property ([#7678](https://github.com/mapbox/mapbox-gl-js/pull/7678))

13.5.0

Features and improvements
* Flattens `all` expressions in converted filters ([#7679](https://github.com/mapbox/mapbox-gl-js/pull/7679))
* Compatibility tables are updated ([#7574](https://github.com/mapbox/mapbox-gl-js/pull/7574))

13.4.0

Features and improvements
* **Tighten style validation**
  * Disallow expressions as stop values ([#7396](https://github.com/mapbox/mapbox-gl-js/pull/7396))
  * Disallow `feature-state` expressions in filters ([#7366](https://github.com/mapbox/mapbox-gl-js/pull/7366))

13.3.0

Bug fixes
* **Expressions**
  * Fix `let` expression stripping expected type during parsing ([#7300](https://github.com/mapbox/mapbox-gl-js/issues/7300), fixed by [#7301](https://github.com/mapbox/mapbox-gl-js/pull/7301))
  * Fix superfluous wrapping of literals in `literal` expression ([#7336](https://github.com/mapbox/mapbox-gl-js/issues/7336), fixed by [#7337](https://github.com/mapbox/mapbox-gl-js/pull/7337))
  * Allow calling `to-color` on values that are already of type `Color` ([#7260](https://github.com/mapbox/mapbox-gl-js/pull/7260))
  * Fix `to-array` for empty arrays (([#7261](https://github.com/mapbox/mapbox-gl-js/pull/7261)))
  * Fix identity functions for `text-field` when using formatted text ([#7351](https://github.com/mapbox/mapbox-gl-js/pull/7351))
  * Fix coercion of `null` to `0` in `to-number` expression ([#7083](https://github.com/mapbox/mapbox-gl-js/issues/7083), fixed by [#7274](https://github.com/mapbox/mapbox-gl-js/pull/7274))

Features and improvements
* Add `fill-extrusion-vertical-gradient` property for controlling shading of fill extrusions ([#5768](https://github.com/mapbox/mapbox-gl-js/issues/5768), fixed by [#6841](https://github.com/mapbox/mapbox-gl-js/pull/6841))

13.2.0

Bug fixes
* Update the style-spec's old `gl-style-migrate` script to include conversion of legacy functions and filters to their expression equivalents ([#6927](https://github.com/mapbox/mapbox-gl-js/issues/6927), fixed by [#7095](https://github.com/mapbox/mapbox-gl-js/pull/7095))

Features and improvements
* Add `symbol-z-order` symbol layout property to style spec ([#7219](https://github.com/mapbox/mapbox-gl-js/pull/7219))
* Implement data-driven styling support for `*-pattern properties` ([#6289](https://github.com/mapbox/mapbox-gl-js/pull/6289))

13.1.1

Bug fixes
* Fix broken module import in mapboxgl-style-spec (v13.0.1) ([#6984](https://github.com/mapbox/mapbox-gl-js/issues/6984), fixed by [#6997](https://api.github.com/repos/mapbox/mapbox-gl-js/pulls/6997))

Features and improvements
* Improve formatting for style output ([#7029](https://github.com/mapbox/mapbox-gl-js/pull/7029))

13.1.0

Features and improvements
* Add `raster-resampling` raster paint property ([#6411](https://github.com/mapbox/mapbox-gl-js/pull/6411)) (h/t [andrewharvey](https://github.com/andrewharvey))
* Add `symbol-placement: line-center` ([#6821](https://github.com/mapbox/mapbox-gl-js/pull/6821))

13.0.1

Breaking changes
* Align implicit type behavior of `match` expressions with with `case/==` ([#6684](https://github.com/mapbox/mapbox-gl-js/pull/6684))
* Update spec so that documentation can automatically capture which functions and expressions can be used with which properties ([#6521](https://github.com/mapbox/mapbox-gl-js/pull/6521))

Features and improvements
* Add `feature-state` [#6263](https://github.com/mapbox/mapbox-gl-js/pull/6263)
* Add support for GeoJSON attribution ([#6364](https://github.com/mapbox/mapbox-gl-js/pull/6364)) (h/t [andrewharvey](https://github.com/andrewharvey))
* Upgrade to Flow 0.69 ([#6594](https://github.com/mapbox/mapbox-gl-js/pull/6594))

Bug fixes
* Use named exports for style-spec entrypoint module ([#6601](https://github.com/mapbox/mapbox-gl-js/issues/6601)

13.0.0
Malformed package published to NPM.

12.0.0

Breaking changes
* The `"to-string"` expression operator now converts null to an empty string rather than to `"null"`.
[#6534](https://github.com/mapbox/mapbox-gl-js/pull/6534)

Features and improvements
* Add line-gradient property [#6303](https://github.com/mapbox/mapbox-gl-js/pull/6303)
* Add collator expression for controlling case and diacritic sensitivity in string comparisons
[#6270](https://github.com/mapbox/mapbox-gl-js/pull/6270)
* Add `is-supported-script` expression for determining if a script is supported.
[#6260](https://github.com/mapbox/mapbox-gl-js/pull/6260)
* Add `collator` expression for controlling case and diacritic sensitivity in string comparisons
[#6270](https://github.com/mapbox/mapbox-gl-js/pull/6270)
* Add `abs`, `round`, `floor`, and `ceil` expression operators [#6496](https://github.com/mapbox/mapbox-gl-js/pull/6496)
* Add support for Mapzen Terrarium tiles in raster-dem sources [#6110](https://github.com/mapbox/mapbox-gl-js/pull/6110)

Bug fixes
- Fix Rollup build [6575](https://github.com/mapbox/mapbox-gl-js/pull/6575)

11.1.1

Bug fixes

* Update SDK support information for `text-font`, and `heatmap-color`, and `hillshade` layer properties.

11.1.0

Features and improvements

* Avoid use of `new Function` for filters by converting old-style filters to expressions
[#5665](https://github.com/mapbox/mapbox-gl-js/pull/5665).

11.0.0

Breaking changes

* Remove constants validating code [#5885](https://github.com/mapbox/mapbox-gl-js/pull/5885)
* `"colorSpace": "hcl"` now uses shortest-path interpolation for hue [#5811](https://github.com/mapbox/mapbox-gl-js/issues/5811)

Features and improvements

* Introduce client-side hillshading with `raster-dem` source type and `hillshade` layer type
[#5286](https://github.com/mapbox/mapbox-gl-js/pull/5286)

* Add Color#toString and expose Color publicly [#5866](https://github.com/mapbox/mapbox-gl-js/pull/5866)
* Improve typing for `==` and `!=` expressions [#5840](https://github.com/mapbox/mapbox-gl-js/pull/5840)
* Made `coalesce` expressions more useful [#5755](https://github.com/mapbox/mapbox-gl-js/issues/5755)
* Enable implicit type assertions for array types [#5738](https://github.com/mapbox/mapbox-gl-js/pull/5738)

Bug fixes

* Fix standalone browser build [#5736](https://github.com/mapbox/mapbox-gl-js/pull/5736), [#5906](https://github.com/mapbox/mapbox-gl-js/pull/5906)
* Handle NaN as input to step and interpolate expressions [#5757](https://github.com/mapbox/mapbox-gl-js/pull/5757)
* Fix style diffing for changes to GeoJSON sources [#5745](https://github.com/mapbox/mapbox-gl-js/pull/5745)
* Mark layer "type" property as required [#5849](https://github.com/mapbox/mapbox-gl-js/pull/5849)

10.1.0

* Remove support for validating and migrating v6 styles [#5604](https://github.com/mapbox/mapbox-gl-js/pull/5604)
* Remove support for validating v7 styles [#5604](https://github.com/mapbox/mapbox-gl-js/pull/5604)
* Remove spaces after commas in `to-string` representation of colors [#5480](https://github.com/mapbox/mapbox-gl-js/pull/5480)
* Fix bugs preventing `mapbox-gl-style-spec` package on NPM from being used externally [#5502](https://github.com/mapbox/mapbox-gl-js/pull/5502)
* Fix flow-typed interface generator [#5478](https://github.com/mapbox/mapbox-gl-js/pull/5478)
* Export `function` [#5584](https://github.com/mapbox/mapbox-gl-js/pull/5584)
* Export `StylePropertySpecification` type [#5593](https://github.com/mapbox/mapbox-gl-js/pull/5593)
* Split the `source_tile` entry in the JSON schema into `source_vector` and `source_raster` [#5604](https://github.com/mapbox/mapbox-gl-js/pull/5604)

Validation Changes

* Require that `heatmap-color` use expressions instead of stop functions [#5624](https://github.com/mapbox/mapbox-gl-js/issues/5624)
* Remove support for including `{tokens}` in expressions for `text-field` and `icon-image` [#5599](https://github.com/mapbox/mapbox-gl-js/issues/5599)
* Disallow interpolation in expressions for `line-dasharray` [#5519](https://github.com/mapbox/mapbox-gl-js/pull/5519)
* Validate that zoom expressions only appear at the top level of an expression [#5609](https://github.com/mapbox/mapbox-gl-js/issues/5609)
* Validate that `step` and `interpolate` expressions don't have any duplicate stops [#5605](https://github.com/mapbox/mapbox-gl-js/issues/5605)
* Split `curve` expression into `step` and `interpolate` expressions [#5542](https://github.com/mapbox/mapbox-gl-js/pull/5542)
* Validate expression values for enum-typed properties [#5589](https://github.com/mapbox/mapbox-gl-js/pull/5589)
* Improve validation to catch uses of deprecated function syntax [#5667](https://github.com/mapbox/mapbox-gl-js/pull/5667)

10.0.1

* Fix bug preventing @mapbox/mapbox-gl-style-spec package from being usable outside of mapbox-gl-js (#5502)

10.0.0

* Add expression and heatmap layer support. See Mapbox GL JS v0.40.1 changelog entry for details.

9.0.1

* Remove `fast-stable-stringify` dependency (#5152)

9.0.0

* Fix validation error on categorical zoom-and-property functions (#4220)
* Relax requirement that styles using "icon-image" must have a "sprite"
* Prevent infinite loop in binarySearchForIndex when duplicate stops are present. (#4503)
* Ensure generated composite function stops are in the correct order (#4509)
* Update SDK support matrices to be current as of GL JS v0.35.1, iOS SDK v3.5.0, Android SDK 5.0.0
* Remove support for implicitly-categorical functions
* BREAKING CHANGE: the API for the `function` module has changed. The `interpolated` and `piecewise-constant` exports
were replaced with a single unnamed export, a function which accepts an object conforming to the style spec "function"
definition, and an object defining a style spec property. It handles color parsing and validation of feature values internally.
* Functions now support a "default" property.
* `parseColor` was promoted from gl-js.

8.11.0

* Merge `feature-filter` repository into this repository #639

8.10.0

v8.0.0 styles are fully compatible with v8.10.0.

Style Specification Changes

* Added `colorSpace` option to functions
* Added `fill-extrusion` layer type
* Add top-level `light` property
* Remove increase maximum `maxzoom` to 24
* Deprecate paint classes :warning:
* Increase strictness of function validation

Reference JSON & API Changes

* Added `deref` utility

* Added `group_by_layout` utility
* Merge `mapbox-gl-function` repository into this repository

8.9.0

v8.0.0 styles are fully compatible with v8.9.0.

* Added identity functions
* Added `auto` value which represents the calculated default value

8.8.1

v8.0.0 styles are fully compatible with v8.8.1.

* Fixed style validation for layers with invalid types

8.8.0

v8.0.0 styles are fully compatible with v8.8.0.

* Clarified documentation around fill-opacity.
* Update function documentation and validation for property functions.
* Add text-pitch-alignment property.
* Add icon-text-fit, icon-text-fit-padding properties.

8.7.0

v8.0.0 styles are fully compatible with v8.7.0.

* Add support for has / !has operators.

8.6.0

v8.0.0 styles are fully compatible with v8.6.0.

* Added support for zoom and feature driven functions.

8.4.2

v8.0.0 styles are fully compatible with v8.4.2.

* Refactored style validator to expose more granular validation methods

8.4.1

v8.0.0 styles are fully compatible with v8.4.1.

* Revert ramp validation checks that broke some styles.

8.4.0

v8.0.0 styles are fully compatible with v8.4.0.

* Added `cluster`, `clusterRadius`, `clusterMaxZoom` GeoJSON source properties.

8.3.0

v8.0.0 styles are fully compatible with v8.3.0.

* Added `line-offset` style property

8.2.1

v8.0.0 styles are fully compatible with v8.2.1.

* Enforce that all layers that use a vector source specify a "source-layer"

8.2.0

v8.0.0 styles are fully compatible with v8.2.0.

* Add inline `example` property.
* Enforce that all style properties must have documentation in `doc` property.
* Create minified style specs with `doc` and `example` properties removed.
* `validate` now validates against minified style spec.
* `format` now accepts `space` option to use with `JSON.stringify`.
* Remove `gl-style-spritify`. Mapbox GL sprites are now created automatically by
 the Mapbox style APIs, or for hand-crafted styles, by [spritezero-cli](https://github.com/mapbox/spritezero-cli).

8.1.0

v8.0.0 styles are fully compatible with v8.1.0.

* [BREAKING] Simplified layout/paint layer property types to more closely align
 with v7 types.
* Fixed migration script compatibility with newer versions of Node.js and io.js
* Removed `constants` from schema, they were deprecated in v8
* Added style diff utility to generate semantic deltas between two stylesheets
* Added `visibility` property to `circle` layer type
* Added `pitch` property to stylesheet

8.0.0

Introduction of Mapbox GL style specification v8. To migrate a v7 style to v8,
use the `gl-style-migrate` script as described in the README.

* [BREAKING] The value of the `text-font` property is now an array of
 strings, rather than a single comma separated string.
* [BREAKING] Renamed `symbol-min-distance` to `symbol-spacing`.
* [BREAKING] Renamed `background-image` to `background-pattern`.
* [BREAKING] Renamed `line-image` to `line-pattern`.
* [BREAKING] Renamed `fill-image` to `fill-pattern`.
* [BREAKING] Renamed the `url` property of the video source type to `urls`.
* [BREAKING] Coordinates in video sources are now specified in [lon, lat] order.
* [BREAKING] Removed `text-max-size` and `icon-max-size` properties; these
 are now calculated automatically.
* [BREAKING] `text-size` and `icon-size` are now layout properties instead of paint properties.
* [BREAKING] Constants are no longer supported. If you are editing styles by
 hand and want to use constants, you can use a preprocessing step with a tool
 like [ScreeSS](https://github.com/screee/screess).
* [BREAKING] The format for `mapbox://` glyphs URLs has changed; you should
 now use `mapbox://fonts/mapbox/{fontstack}/{range}.pbf`.
* [BREAKING] Reversed the priority of layers for calculating label placement:
 labels for layers that appear later in the style now have priority over earlier
 layers.
* Added a new `image` source type.
* Added a new `circle` layer type.
* Default map center location can now be set in the style.
* Added `mapbox://` sprite URLs `mapbox://sprite/{user | "mapbox"}/{id}`

7.5.0

* Added gl-style-composite script, for auto-compositing sources in a style.

7.4.1

* Use JSON.stringify for formatting instead of js-beautify

7.0.0

Introduction of Mapbox GL style specification v7.

* [BREAKING] Improve dashed lines (#234)
* [BREAKING] Remove prerendered layers (#232)
* Explicit visibility property (#212)
* Functions for all properties (#237)

6.0.0 (Style spec v6)

Introduction of Mapbox GL style specification v6.

* [BREAKING] New filter syntax (#178)
* [BREAKING] Line gap property (#131)
* [BREAKING] Remove dashes from min/max-zoom (#175)

* [BREAKING] New layout/paint terminology (#166)
* [BREAKING] Single text positioning property (#197)
* Added requirements (#200)
* Added minimum, maximum, and period values (#198)

0.0.5 (in progress)

* [BREAKING] Switch to suffix for transition properties (`transition-*` -> `*-transition`).
* Added support for remote, non-Mapbox TileJSON sources.
* [BREAKING] Source `minZoom` and `maxZoom` renamed to `minzoom` and `maxzoom to match TileJSON.
* Added support for `mapbox://` glyph URLs.
* [BREAKING] Renamed `raster-fade` to `raster-fade-duration`.
* Added background-opacity property.
* Added "tokens" property to string values that can autocomplete fields from layers
* Added "units" property to describe value types

0.0.4 (Aug 8 2014)

* Initial public release

Found in path(s):
* /opt/cola/permits/1540265556_1674381469.07127/0/mapbox-mapbox-gl-style-spec-npm-13-28-0-3183e1b135-17246a849c-zip/node_modules/@mapbox/mapbox-gl-style-spec/CHANGELOG.md
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/cola/permits/1540265556_1674381469.07127/0/mapbox-mapbox-gl-style-spec-npm-13-28-0-3183e1b135-17246a849c-zip/node_modules/@mapbox/mapbox-gl-style-spec/dist/index.es.js
* /opt/cola/permits/1540265556_1674381469.07127/0/mapbox-mapbox-gl-style-spec-npm-13-28-0-3183e1b135-17246a849c-zip/node_modules/@mapbox/mapbox-gl-style-spec/dist/index.cjs
No license file was found, but licenses were detected in source scan.

"attribution"?: string,
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Found in path(s):
* /opt/cola/permits/1540265556_1674381469.07127/0/mapbox-mapbox-gl-style-spec-npm-13-28-0-3183e1b135-

17246a849c-zip/node_modules/@mapbox/mapbox-gl-style-spec/types.js
No license file was found, but licenses were detected in source scan.

{"version":3,"file":"index.cjs","sources":["../../../node_modules/json-stringify-pretty-compact/index.js","../format.js","../../../node_modules/url/node_modules/punycode/punycode.js","../../../node_modules/url/util.js","../../../node_modules/querystring/decode.js","../../../node_modules/querystring/encode.js","../../../node_modules/querystring/index.js","../../../node_modules/url/url.js","../visit.js","../migrate/v8.js","../util/extend.js","../expression/parsing_error.js","../expression/scope.js","../expression/types.js","../../../node_modules/csscolorparser/csscolorparser.js","../util/color.js","../expression/types/collator.js","../expression/types/formatted.js","../expression/types/resolved_image.js","../expression/values.js","../expression/definitions/literal.js","../expression/runtime_error.js","../expression/definitions/assertion.js","../expression/definitions/format.js","../expression/definitions/image.js","../expression/definitions/coercion.js","../expression/evaluation_context.js","../expression/compound_expression.js","../expression/definitions/collator.js","../expression/definitions/within.js","../expression/is_constant.js","../expression/definitions/var.js","../expression/parsing_context.js","../expression/stops.js","../expression/definitions/step.js","../../../node_modules/@mapbox/unitbezier/index.js","../util/interpolate.js","../util/color_spaces.js","../expression/definitions/interpolate.js","../expression/definitions/coalesce.js","../expression/definitions/let.js","../expression/definitions/at.js","../expression/definitions/in.js","../expression/definitions/index_of.js","../expression/definitions/match.js","../expression/definitions/case.js","../expression/definitions/slice.js","../expression/definitions/comparison.js","../expression/definitions/number_format.js","../expression/definitions/length.js","../expression/definitions/index.js","../util/result.js","../util/properties.js","../util/get_type.js","../function/index.js","../expression/index.js","../function/convert.js","../util/unbundle_jsonlint.js","../feature_filter/index.js","../feature_filter/convert.js","../migrate/expressions.js","../migrate.js","../composite.js","../util/ref_properties.js","../deref.js","../util/deep_equal.js","../diff.js","../error/validation_error.js","../error/parsing_error.js","../validate/validate_object.js","../validate/validate_array.js","../validate/validate_number.js","../validate/validate_function.js","../validate/validate_expression.js","../validate/validate_boolean.js","../validate/validate_color.js","../validate/validate_enum.js","../validate/validate_filter.js","../validate/validate_property.js","../validate/validate_paint_property.js","../validate/validate_layout_property.js","../validate/validate_layer.js","../validate/validate_string.js","../validate/validate_source.js","../validate/validate_light.js","../validate/validate_terrain.js","../validate/validate_fog.js","../validate/validate_formatted.js","../validate/validate_image.js","../validate/validate_projection.js","../validate/validate.js","../validate/validate_glyphs_url.js","../validate_style.min.js","../../../node_modules/@mapbox/jsonlint-lines-primitives/lib/jsonlint.js","../read_style.js","../validate_style.js","../validate_mapbox_api_supported.js","../style-spec.js"],"sourcesContent":["// Note: This regex matches even invalid JSON strings, but since we’re\n// working on the output of `JSON.stringify` we know that only valid strings\n// are present (unless the user supplied a weird `options.indent` but in\n// that case we don’t care since the output would be invalid anyway).\nconst stringOrChar = /(\"(?:[^\\\\\"]|\\\\.)*\")|[:,]/g;\n\nexport default function stringify(passedObj, options = {}) {\n const indent = JSON.stringify(\n   [1],\n   undefined,\n   options.indent === undefined ? 2 : options.indent\n).slice(2, -3);\n\n const maxLength =\n   indent === \"\"\n   ? Infinity\n   : options.maxLength === undefined\n   ? 80\n   : options.maxLength;\n\n let { replacer } = options;\n\n return (function _stringify(obj, currentIndent, reserved) {\n   if (obj && typeof obj.toJSON === \"function\") {\n   obj = obj.toJSON();\n   }\n\n   const string = JSON.stringify(obj, replacer);\n\n   if (string === undefined) {\n   return string;\n   }\n\n   const length = maxLength - currentIndent.length - reserved;\n\n   if (string.length <= length) {\n   const prettified = string.replace(\n   stringOrChar,\n   (match, stringLiteral) => {\n   return stringLiteral || `${match} `;\n   }\n   );\n   if (prettified.length <= length) {\n   return prettified;\n   }\n   }\n\n   if (replacer != null) {\n   obj = JSON.parse(string);\n   replacer = undefined;\n   }\n\n   if (typeof obj === \"object\" && obj !== null) {\n   const nextIndent = currentIndent + indent;\n   const items = [];\n   let index = 0;\n   let start;\n   let end;\n\n   if (Array.isArray(obj)) {\n   start = \"[\";\n   end = \"]\";\n   const { length } = obj;\n   for (; index < length; index++) {\n   items.push(\n   _stringify(obj[index], nextIndent, index === length - 1 ? 0 : 1) ||\n   \"null\"\n   );\n   }\n   } else {\n   start = \"{\";\n   end = \"}\";\n   const keys =

Object.keys(obj);\n const { length } = keys;\n for (; index < length; index++) {\n const key = keys[index];\n const keyPart = `${JSON.stringify(key)}: `;\n const value = _stringify(\n obj[key],\n nextIndent,\n keyPart.length + (index === length - 1 ? 0 : 1)\n);\n if (value !== undefined) {\n items.push(keyPart + value);\n }\n }\n }\n\n if (items.length > 0) {\n return [start, indent + items.join(`,\\n${nextIndent}`), end].join(\n `\\n${currentIndent}`\n);\n }\n }\n\n return string;\n })(passedObj, \"\", 0);\n}\n","\nimport reference from './reference/latest.js';\nimport stringifyPretty from 'json-stringify-pretty-compact';\n\nfunction sortKeysBy(obj, reference) {\n const result = {};\n for (const key in reference) {\n if (obj[key] !== undefined) {\n result[key] = obj[key];\n }\n }\n for (const key in obj) {\n if (result[key] === undefined) {\n result[key] = obj[key];\n }\n }\n return result;\n}\n\n/**\n * Format a Mapbox GL Style. Returns a stringified style with its keys\n * sorted in the same order as the reference style.\n *\n * The optional `space` argument is passed to\n * [`JSON.stringify`](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON/stringify)\n * to generate formatted output.\n *\n * If `space` is unspecified, a default of `2` spaces will be used.\n *\n * @private\n * @param {Object} style a Mapbox GL Style\n * @param {number} [space] space argument to pass to `JSON.stringify`\n * @returns {string} stringified formatted JSON\n * @example\n * var fs = require('fs');\n * var format = require('mapbox-gl-style-spec').format;\n * var style = fs.readFileSync('./source.json', 'utf8');\n * fs.writeFileSync('./dest.json', format(style));\n * fs.writeFileSync('./dest.min.json', format(style, 0));\n */\nfunction format(style, space = 2) {\n style = sortKeysBy(style, reference.$root);\n\n if (style.layers) {\n style.layers = style.layers.map((layer) => sortKeysBy(layer, reference.layer));\n }\n\n return stringifyPretty(style, {indent: space});\n}\n\nexport default format;\n","/*! https://mths.be/punycode v1.3.2 by @mathias */\n;(function(root) {\n\n\t/** Detect free variables */\n\tvar freeExports = typeof exports == 'object' && exports &&\n\t\t!exports.nodeType && exports;\n\tvar freeModule = typeof module == 'object' && module &&\n\t\t!module.nodeType && module;\n\tvar freeGlobal = typeof global == 'object' && global;\n\tif (\n\t\tfreeGlobal.global === freeGlobal ||\n\t\tfreeGlobal.window === freeGlobal ||\n\t\tfreeGlobal.self === freeGlobal\n\t) {\n\t\troot = freeGlobal;\n\t}\n\n\t/**\n\t * The `punycode` object.\n\t * @name punycode\n\t * @type Object\n\t */\n\tvar punycode,\n\n\t/** Highest positive signed 32-bit float value */\n\tmaxInt = 2147483647, // aka. 0x7FFFFFFF or 2^31-1\n\n\t/** Bootstring parameters */\n\tbase = 36,\n\ttMin = 1,\n\ttMax = 26,\n\tskew = 38,\n\tdamp = 700,\n\tinitialBias = 72,\n\tinitialN = 128, // 0x80\n\tdelimiter = '-', // '\\x2D'\n\n\t/** Regular expressions */\n\tregexPunycode = /^xn--/,\n\tregexNonASCII = /[^\\x20-\\x7E]/, // unprintable ASCII chars + non-ASCII chars\n\tregexSeparators = /[\\x2E\\u3002\\uFF0E\\uFF61]/g, // RFC 3490 separators\n\n\t/** Error messages */\n\terrors = {\n\t\t'overflow': 'Overflow: input needs wider integers to process',\n\t\t'not-basic': 'Illegal input >= 0x80 (not a basic code point)',\n\t\t'invalid-input': 'Invalid input'\n\t},\n\n\t/** Convenience shortcuts */\n\tbaseMinusTMin = base - tMin,\n\tfloor = Math.floor,\n\tstringFromCharCode = String.fromCharCode,\n\n\t/** Temporary variable */\n\tkey;\n\n\t/*--*/\n\n\t/**\n\t * A generic error utility function.\n\t * @private\n\t * @param {String} type The error type.\n\t * @returns {Error} Throws a `RangeError` with the applicable error message.\n\t */\n\tfunction error(type) {\n\t\tthrow RangeError(errors[type]);\n\t}\n\n\t/**\n\t * A generic `Array#map` utility function.\n\t * @private\n\t * @param {Array} array The array to iterate over.\n\t * @param {Function} callback The function that gets called for every array\n\t * item.\n\t * @returns {Array} A new array of values returned by the callback function.\n\t */\n\tfunction map(array, fn) {\n\t\tvar length = array.length;\n\t\tvar result = [];\n\t\twhile (length--) {\n\t\t\tresult[length] = fn(array[length]);\n\t\t}\n\t\treturn result;\n\t}\n\n\t/**\n\t * A simple `Array#map`-like wrapper to work with domain name strings or email\n\t * addresses.\n\t * @private\n\t * @param {String} domain The domain name or email address.\n\t * @param {Function} callback The function that gets called for every\n\t * character.\n\t * @returns {Array} A new string of characters returned by the callback\n\t * function.\n\t */\n\tfunction mapDomain(string, fn) {\n\t\tvar parts = string.split('@');\n\t\tvar result = '';\n\t\tif (parts.length > 1) {\n\t\t\t// In email addresses, only the domain name should be punycoded. Leave\n\t\t\t// the local part (i.e. everything up to `@`) intact.\n\t\t\tresult = parts[0] + '@';\n\t\t\tstring = parts[1];\n\t\t}\n\t\t// Avoid `split(regex)` for IE8 compatibility.

See #17.\n\t\tstring = string.replace(regexSeparators, '\\x2E');\n\t\tvar labels = string.split('.');\n\t\tvar encoded = map(labels, fn).join('.');\n\t\treturn result + encoded;\n\t}\n\n\t/**\n\t * Creates an array containing the numeric code points of each Unicode\n\t * character in the string. While JavaScript uses UCS-2 internally,\n\t * this function will convert a pair of surrogate halves (each of which\n\t * UCS-2 exposes as separate characters) into a single code point,\n\t * matching UTF-16.\n\t * @see `punycode.ucs2.encode`\n\t * @see <https://mathiasbynens.be/notes/javascript-encoding>\n\t * @memberOf punycode.ucs2\n\t * @name decode\n\t * @param {String} string The Unicode input string (UCS-2).\n\t * @returns {Array} The new array of code points.\n\t */\n\tfunction ucs2decode(string) {\n\t\tvar output = [],\n\t\t   counter = 0,\n\t\t   length = string.length,\n\t\t   value,\n\t\t   extra;\n\t\twhile (counter < length) {\n\t\t\tvalue = string.charCodeAt(counter++);\n\t\t\tif (value >= 0xD800 && value <= 0xDBFF && counter < length) {\n\t\t\t\t// high surrogate, and there is a next character\n\t\t\t\textra = string.charCodeAt(counter++);\n\t\t\t\tif ((extra & 0xFC00) == 0xDC00) { // low surrogate\n\t\t\t\t\toutput.push(((value & 0x3FF) << 10) + (extra & 0x3FF) + 0x10000);\n\t\t\t} else {\n\t\t\t\t// unmatched surrogate; only append this code unit, in case the next\n\t\t\t\t// code unit is the high surrogate of a surrogate pair\n\t\t\t\toutput.push(value);\n\t\t\t\tcounter--;\n\t\t\t}\n\t\t} else {\n\t\t\toutput.push(value);\n\t\t}\n\t}\n\treturn output;\n\t}\n\n\t/**\n\t * Creates a string based on an array of numeric code points.\n\t * @see `punycode.ucs2.decode`\n\t * @memberOf punycode.ucs2\n\t * @name encode\n\t * @param {Array} codePoints The array of numeric code points.\n\t * @returns {String} The new Unicode string (UCS-2).\n\t */\n\tfunction ucs2encode(array) {\n\t\treturn map(array, function(value) {\n\t\t\tvar output = '';\n\t\t\tif (value > 0xFFFF) {\n\t\t\t\tvalue -= 0x10000;\n\t\t\t\toutput += stringFromCharCode(value >>> 10 & 0x3FF | 0xD800);\n\t\t\t\tvalue = 0xDC00 | value & 0x3FF;\n\t\t\t}\n\t\t\toutput += stringFromCharCode(value);\n\t\treturn output;\n\t}).join('');\n\t}\n\n\t/**\n\t * Converts a basic code point into a digit/integer.\n\t * @see `digitToBasic()`\n\t * @private\n\t * @param {Number} codePoint The basic numeric code point value.\n\t * @returns {Number} The numeric value of a basic code point (for use in\n\t * representing integers) in the range `0` to `base - 1`, or `base` if\n\t * the code point does not represent a value.\n\t */\n\tfunction basicToDigit(codePoint) {\n\tif (codePoint - 48 < 10) {\n\t\treturn codePoint - 22;\n\t}\n\tif (codePoint - 65 < 26) {\n\t\treturn codePoint - 65;\n\t}\n\tif (codePoint - 97 < 26) {\n\t\treturn codePoint - 97;\n\t}\n\treturn base;\n\t}\n\n\t/**\n\t * Converts a digit/integer into a basic code point.\n\t * @see `basicToDigit()`\n\t * @private\n\t * @param {Number} digit The numeric value of a basic code point.\n\t * @returns {Number} The basic code point whose value (when used for\n\t * representing integers) is `digit`, which needs to be in the range\n\t * `0` to `base - 1`. If `flag` is non-zero, the uppercase form is\n\t * used; else, the lowercase form is used. The behavior is undefined\n\t * if `flag` is non-zero and `digit` has no uppercase form.\n\t */\n\tfunction digitToBasic(digit, flag) {\n\t\t// 0..25 map to ASCII a..z or A..Z\n\t\t// 26..35 map to ASCII 0..9\n\t\treturn digit + 22 + 75 * (digit < 26) - ((flag != 0) << 5);\n\t}\n\n\t/**\n\t * Bias adaptation function as per section 3.4 of RFC 3492.\n\t * http://tools.ietf.org/html/rfc3492#section-3.4\n\t * @private\n\t */\n\tfunction adapt(delta, numPoints, firstTime) {\n\t\tvar k = 0;\n\t\tdelta = firstTime ? floor(delta / damp) : delta >> 1;\n\t\tdelta += floor(delta / numPoints);\n\t\tfor (/* no initialization */; delta > baseMinusTMin * tMax >> 1; k += base) {\n\t\t\tdelta = floor(delta / baseMinusTMin);\n\t\t}\n\t\treturn floor(k + (baseMinusTMin + 1) * delta / (delta + skew));\n\t}\n\n\t/**\n\t * Converts a Punycode string of ASCII-only symbols to a string of Unicode\n\t * symbols.\n\t * @memberOf punycode\n\t * @param {String} input The Punycode string of ASCII-only symbols.\n\t * @returns {String} The resulting string of Unicode symbols.\n\t */\n\tfunction decode(input) {\n\t\t// Don't use UCS-2\n\t\tvar output = [],\n\t\t   inputLength = input.length,\n\t\t   out,\n\t\t   i = 0,\n\t\t   n = initialN,\n\t\t   bias = initialBias,\n\t\t   basic,\n\t\t   j,\n\t\t   index,\n\t\t   oldi,\n\t\t   w,\n\t\t   k,\n\t\t   digit,\n\t\t   t,\n\t\t   /** Cached calculation results */\n\t\t   baseMinusT;\n\n\t\t// Handle the basic code points: let `basic` be the number of input code\n\t\t// points before the last delimiter, or `0` if there is none, then copy\n\t\t// the first basic code points to the output.\n\n\t\tbasic = input.lastIndexOf(delimiter);\n\t\tif (basic < 0) {\n\t\t\tbasic = 0;\n\t\t}\n\n\t\tfor (j = 0; j < basic; ++j) {\n\t\t\t// if it's not a basic code point\n\t\t\tif (input.charCodeAt(j) >= 0x80) {\n\t\t\t\terror('not-basic');\n\t\t\t}\n\t\t\toutput.push(input.charCodeAt(j));\n\t\t}\n\n\t\t// Main decoding loop: start just after the last delimiter if any basic code\n\t\t// points were copied; start at the beginning otherwise.\n\n\t\tfor (index = basic > 0 ?

basic + 1 : 0; index < inputLength; /* no final expression */) {\n\n\t\t\t// `index` is the index of the next character to be consumed.\n\t\t\t// Decode a generalized variable-length integer into `delta`,\n\t\t\t// which gets added to `i`. The overflow checking is easier\n\t\t\t// if we increase `i` as we go, then subtract off its starting\n\t\t\t// value at the end to obtain `delta`.\n\t\t\tfor (oldi = i, w = 1, k = base; /* no condition */; k += base) {\n\n\t\t\t\tif (index >= inputLength) {\n\t\t\t\t\terror('invalid-input');\n\t\t\t\t}\n\n\t\t\t\tdigit = basicToDigit(input.charCodeAt(index++));\n\n\t\t\t\tif (digit >= base || digit > floor((maxInt - i) / w)) {\n\t\t\t\t\terror('overflow');\n\t\t\t\t}\n\n\t\t\t\ti += digit * w;\n\t\t\t\tt = k <= bias ? tMin : (k >= bias + tMax ? tMax : k - bias);\n\n\t\t\t\tif (digit < t) {\n\t\t\t\t\tbreak;\n\t\t\t\t}\n\n\t\t\t\tbaseMinusT = base - t;\n\t\t\t\tif (w > floor(maxInt / baseMinusT)) {\n\t\t\t\t\terror('overflow');\n\t\t\t\t}\n\n\t\t\t\tw *= baseMinusT;\n\n\t\t\t}\n\n\t\t\tout = output.length + 1;\n\t\tbias = adapt(i - oldi, out, oldi == 0);\n\n\t\t\t// `i` was supposed to wrap around from `out` to `0`,\n\t\t\t// incrementing `n` each time, so we'll fix that now:\n\t\t\tif (floor(i / out) > maxInt - n) {\n\t\t\t\terror('overflow');\n\t\t\t}\n\n\t\t\tn += floor(i / out);\n\t\t\ti %= out;\n\n\t\t\t// Insert `n` at position `i` of the output\n\t\t\toutput.splice(i++, 0, n);\n\n\t\t}\n\n\treturn ucs2encode(output);\n\t}\n\n/**\n\t * Converts a string of Unicode symbols (e.g. a domain name label) to a\n\t * Punycode string of ASCII-only symbols.\n\t * @memberOf punycode\n\t * @param {String} input The string of Unicode symbols.\n\t * @returns {String} The resulting Punycode string of ASCII-only symbols.\n\t */\n\tfunction encode(input) {\n\t\tvar n,\n\t\t   delta,\n\t\t   handledCPCount,\n\t\t   basicLength,\n\t\t   bias,\n\t\t   j,\n\t\t   m,\n\t\t   q,\n\t\t   k,\n\t\t   t,\n\t\t   currentValue,\n\t\t   output = [],\n\t\t   /** `inputLength` will hold the number of code points in `input`. */\n\t\t   inputLength,\n\t\t   /** Cached calculation results */\n\t\t   handledCPCountPlusOne,\n\t\t   baseMinusT,\n\t\t   qMinusT;\n\n\t\t// Convert the input in UCS-2 to Unicode\n\t\tinput = ucs2decode(input);\n\n\t\t// Cache the length\n\t\tinputLength = input.length;\n\n\t\t// Initialize the state\n\t\tn = initialN;\n\t\tdelta = 0;\n\t\tbias = initialBias;\n\n\t\t// Handle the basic code points\n\t\tfor (j = 0; j < inputLength; ++j) {\n\t\t\tcurrentValue = input[j];\n\t\t\tif (currentValue < 0x80) {\n\t\t\t\toutput.push(stringFromCharCode(currentValue));\n\t\t\t}\n\t\t}\n\n\thandledCPCount = basicLength = output.length;\n\n\t\t// `handledCPCount` is the number of code points that have been handled;\n\t\t// `basicLength` is the number of basic code points.\n\n\t\t// Finish the basic string - if it is not empty - with a delimiter\n\t\tif (basicLength) {\n\t\t\toutput.push(delimiter);\n\t\t}\n\n\t\t// Main encoding loop:\n\t\twhile (handledCPCount < inputLength) {\n\n\t\t\t// All non-basic code points < n have been handled already. Find the next\n\t\t\t// larger one:\n\t\t\tfor (m = maxInt, j = 0; j < inputLength; ++j) {\n\t\t\t\tcurrentValue = input[j];\n\t\t\t\tif (currentValue >= n && currentValue < m) {\n\t\t\t\t\tm = currentValue;\n\t\t\t\t}\n\t\t\t}\n\n\t\t\t// Increase `delta` enough to advance the decoder's <n,i> state to <m,0>,\n\t\t\t// but guard against overflow\n\t\t\thandledCPCountPlusOne = handledCPCount + 1;\n\t\t\tif (m - n > floor((maxInt - delta) / handledCPCountPlusOne)) {\n\t\t\t\terror('overflow');\n\t\t\t}\n\n\t\t\tdelta += (m - n) * handledCPCountPlusOne;\n\t\t\tn = m;\n\n\t\t\tfor (j = 0; j < inputLength; ++j) {\n\t\t\t\tcurrentValue = input[j];\n\n\t\t\t\tif (currentValue < n && ++delta > maxInt) {\n\t\t\t\t\terror('overflow');\n\t\t\t\t}\n\n\t\t\t\tif (currentValue == n) {\n\t\t\t\t\t// Represent delta as a generalized variable-length integer\n\t\t\t\t\tfor (q = delta, k = base; /* no condition */; k += base) {\n\t\t\t\t\t\tt = k <= bias ? tMin : (k >= bias + tMax ? tMax : k - bias);\n\t\t\t\t\t\tif (q < t) {\n\t\t\t\t\t\t\tbreak;\n\t\t\t\t\t\t}\n\t\t\t\t\t\tqMinusT = q - t;\n\t\t\t\t\t\tbaseMinusT = base - t;\n\t\t\t\t\t\toutput.push(\n\t\t\t\t\t\t\tstringFromCharCode(digitToBasic(t + qMinusT % baseMinusT, 0))\n\t\t\t\t\t\t);\n\t\t\t\t\t\tq = floor(qMinusT / baseMinusT);\n\t\t\t\t\t}\n\n\t\t\t\t\toutput.push(stringFromCharCode(digitToBasic(q, 0)));\n\t\t\t\t\tbias = adapt(delta, handledCPCountPlusOne, handledCPCount == basicLength);\n\t\t\t\t\tdelta = 0;\n\t\t\t\t\t++handledCPCount;\n\t\t\t\t}\n\t\t\t}\n\n\t\t\t++delta;\n\t\t\t++n;\n\n\t\t}\n\treturn output.join('');\n\t}\n\n/**\n\t * Converts a Punycode string representing a domain name or an email address\n\t * to Unicode. Only the Punycoded parts of the input will be converted, i.e.\n\t * it doesn't matter if you call it on a string that has already been\n\t * converted to Unicode.\n\t * @memberOf punycode\n\t * @param {String} input The Punycoded domain name or email address to\n\t * convert to Unicode.\n\t * @returns {String} The Unicode representation of the given Punycode\n\t * string.\n\t */\n\tfunction toUnicode(input) {\n\t\treturn mapDomain(input, function(string) {\n\t\t\treturn regexPunycode.test(string)\n\t\t\t\t? decode(string.slice(4).toLowerCase())\n\t\t\t\t: string;\n\t\t});\n\t}\n\n/**\n\t * Converts a Unicode string representing a domain name or an email address to\n\t *

Punycode. Only the non-ASCII parts of the domain name will be converted,\n\t * i.e. it doesn't matter if you call it with a domain that's already in\n\t * ASCII.\n\t * @memberOf punycode\n\t * @param {String} input The domain name or email address to convert, as a\n\t * Unicode string.\n\t * @returns {String} The Punycode representation of the given domain name or\n\t * email address.\n\t */\n\tfunction toASCII(input) {\n\t\treturn mapDomain(input, function(string) {\n\t\t\treturn regexNonASCII.test(string)\n\t\t\t\t? 'xn--' + encode(string)\n\t\t\t\t: string;\n\t\t});\n\t}\n\n\t/*--*/\n\n\t/** Define the public API */\n\tpunycode = {\n\t\t/**\n\t\t * A string representing the current Punycode.js version number.\n\t\t * @memberOf punycode\n\t\t * @type String\n\t\t */\n\t\t'version': '1.3.2',\n\t\t/**\n\t\t * An object of methods to convert from JavaScript's internal character\n\t\t * representation (UCS-2) to Unicode code points, and back.\n\t\t * @see <https://mathiasbynens.be/notes/javascript-encoding>\n\t\t * @memberOf punycode\n\t\t * @type Object\n\t\t */\n\t\t'ucs2': {\n\t\t\t'decode': ucs2decode,\n\t\t\t'encode': ucs2encode\n\t\t},\n\t\t'decode': decode,\n\t\t'encode': encode,\n\t\t'toASCII': toASCII,\n\t\t'toUnicode': toUnicode\n\t};\n\n\t/** Expose `punycode` */\n\t// Some AMD build optimizers, like r.js, check for specific condition patterns\n\t// like the following:\n\tif (\n\t\ttypeof define == 'function' &&\n\t\ttypeof define.amd == 'object' &&\n\t\tdefine.amd\n\t) {\n\t\tdefine('punycode', function() {\n\t\t\treturn punycode;\n\t\t});\n\t} else if (freeExports && freeModule) {\n\t\tif (module.exports == freeExports) { // in Node.js or RingoJS v0.8.0+\n\t\t\tfreeModule.exports = punycode;\n\t\t} else { // in Narwhal or RingoJS v0.7.0-\n\t\t\tfor (key in punycode) {\n\t\t\t\tpunycode.hasOwnProperty(key) && (freeExports[key] = punycode[key]);\n\t\t\t}\n\t\t}\n\t} else { // in Rhino or a web browser\n\t\troot.punycode = punycode;\n\t}\n\n}(this));\n","'use strict';\n\nmodule.exports = {\n isString: function(arg) {\n   return typeof(arg) === 'string';\n },\n isObject: function(arg) {\n   return typeof(arg) === 'object' && arg !== null;\n },\n isNull: function(arg) {\n   return arg === null;\n },\n isNullOrUndefined: function(arg) {\n   return arg == null;\n }\n};\n","// Copyright Joyent, Inc. and other Node contributors.\n//\n// Permission is hereby granted, free of charge, to any person obtaining a\n// copy of this software and associated documentation files (the\n// \"Software\"), to deal in the Software without restriction, including\n// without limitation the rights to use, copy, modify, merge, publish,\n// distribute, sublicense, and/or sell copies of the Software, and to permit\n// persons to whom the Software is furnished to do so, subject to the\n// following conditions:\n//\n// The above copyright notice and this permission notice shall be included\n// in all copies or substantial portions of the Software.\n//\n// THE SOFTWARE IS PROVIDED \"AS IS\", WITHOUT WARRANTY OF ANY KIND, EXPRESS\n// OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF\n// MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN\n// NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,\n// DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR\n// OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE\n// USE OR OTHER DEALINGS IN THE SOFTWARE.\n\n'use strict';\n\n// If obj.hasOwnProperty has been overridden, then calling\n// obj.hasOwnProperty(prop) will break.\n// See: https://github.com/joyent/node/issues/1707\nfunction hasOwnProperty(obj, prop) {\n return Object.prototype.hasOwnProperty.call(obj, prop);\n}\n\nmodule.exports = function(qs, sep, eq, options) {\n sep = sep || '&';\n eq = eq || '=';\n var obj = {};\n\n if (typeof qs !== 'string' || qs.length === 0) {\n   return obj;\n }\n\n var regexp = /\\+/g;\n qs = qs.split(sep);\n\n var maxKeys = 1000;\n if (options && typeof options.maxKeys === 'number') {\n   maxKeys = options.maxKeys;\n }\n\n var len = qs.length;\n // maxKeys <= 0 means that we should not limit keys count\n if (maxKeys > 0 && len > maxKeys) {\n   len = maxKeys;\n }\n\n for (var i = 0; i < len; ++i) {\n   var x = qs[i].replace(regexp, '%20'),\n   idx = x.indexOf(eq),\n   kstr, vstr, k, v;\n\n   if (idx >= 0) {\n   kstr = x.substr(0, idx);\n   vstr = x.substr(idx + 1);\n   } else {\n   kstr = x;\n   vstr = '';\n   }\n\n   k = decodeURIComponent(kstr);\n   v = decodeURIComponent(vstr);\n\n   if (!hasOwnProperty(obj, k)) {\n   obj[k] = v;\n   } else if (Array.isArray(obj[k])) {\n   obj[k].push(v);\n   } else {\n   obj[k] = [obj[k], v];\n   }\n }\n\n return obj;\n};\n","// Copyright Joyent, Inc. and other Node contributors.\n//\n// Permission is hereby granted, free of charge, to any person obtaining a\n// copy of this software and associated documentation files (the\n// \"Software\"), to deal in the Software without restriction, including\n// without limitation the rights to use, copy, modify, merge, publish,\n// distribute, sublicense, and/or sell copies of the Software, and to permit\n// persons to whom the Software

is furnished to do so, subject to the\n// following conditions:\n//\n// The above copyright notice and this permission notice shall be included\n// in all copies or substantial portions of the Software.\n//\n// THE SOFTWARE IS PROVIDED \"AS IS\", WITHOUT WARRANTY OF ANY KIND, EXPRESS\n// OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF\n// MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN\n// NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,\n// DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR\n// OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE\n// USE OR OTHER DEALINGS IN THE SOFTWARE.\n\n'use strict';\n\nvar stringifyPrimitive = function(v) {\n switch (typeof v) {\n case 'string':\n return v;\n\n case 'boolean':\n return v ? 'true' : 'false';\n\n case 'number':\n return isFinite(v) ? v : '';\n\n default:\n return '';\n }\n};\n\nmodule.exports = function(obj, sep, eq, name) {\n sep = sep || '&';\n eq = eq || '=';\n if (obj === null) {\n obj = undefined;\n }\n\n if (typeof obj === 'object') {\n return Object.keys(obj).map(function(k) {\n var ks = encodeURIComponent(stringifyPrimitive(k)) + eq;\n if (Array.isArray(obj[k])) {\n return obj[k].map(function(v) {\n return ks + encodeURIComponent(stringifyPrimitive(v));\n }).join(sep);\n } else {\n return ks + encodeURIComponent(stringifyPrimitive(obj[k]));\n }\n }).join(sep);\n\n }\n\n if (!name) return '';\n return encodeURIComponent(stringifyPrimitive(name)) + eq +\n encodeURIComponent(stringifyPrimitive(obj));\n};\n","'use strict';\n\nexports.decode = exports.parse = require('./decode');\nexports.encode = exports.stringify = require('./encode');\n","// Copyright Joyent, Inc. and other Node contributors.\n//\n// Permission is hereby granted, free of charge, to any person obtaining a\n// copy of this software and associated documentation files (the\n// \"Software\"), to deal in the Software without restriction, including\n// without limitation the rights to use, copy, modify, merge, publish,\n// distribute, sublicense, and/or sell copies of the Software, and to permit\n// persons to whom the Software is furnished to do so, subject to the\n// following conditions:\n//\n// The above copyright notice and this permission notice shall be included\n// in all copies or substantial portions of the Software.\n//\n// THE SOFTWARE IS PROVIDED \"AS IS\", WITHOUT WARRANTY OF ANY KIND, EXPRESS\n// OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF\n// MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN\n// NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,\n// DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR\n// OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE\n// USE OR OTHER DEALINGS IN THE SOFTWARE.\n\n'use strict';\n\nvar punycode = require('punycode');\nvar util = require('./util');\n\nexports.parse = urlParse;\nexports.resolve = urlResolve;\nexports.resolveObject = urlResolveObject;\nexports.format = urlFormat;\n\nexports.Url = Url;\n\nfunction Url() {\n this.protocol = null;\n this.slashes = null;\n this.auth = null;\n this.host = null;\n this.port = null;\n this.hostname = null;\n this.hash = null;\n this.search = null;\n this.query = null;\n this.pathname = null;\n this.path = null;\n this.href = null;\n}\n\n// Reference: RFC 3986, RFC 1808, RFC 2396\n\n// define these here so at least they only have to be\n// compiled once on the first module load.\nvar protocolPattern = /^([a-z0-9.+-]+:)/i,\n portPattern = /:[0-9]*$/,\n\n // Special case for a simple path URL\n simplePathPattern = /^(\\/\\/?(?!\\/)[^\\?\\s]*)(\\?[^\\s]*)?$/,\n\n // RFC 2396: characters reserved for delimiting URLs.\n // We actually just auto-escape these.\n delims = ['<', '>', '\"', '`', ' ', '\\r', '\\n', '\\t'],\n\n // RFC 2396: characters not allowed for various reasons.\n unwise = ['{', '}', '|', '\\\\', '^', '`'].concat(delims),\n\n // Allowed by RFCs, but cause of XSS attacks. Always escape these.\n autoEscape = ['\\''].concat(unwise),\n // Characters that are never ever allowed in a hostname.\n // Note that any invalid chars are also handled, but these\n // are the ones that are *expected* to be seen, so we fast-path\n // them.\n nonHostChars = ['%', '/', '?', ';', '#'].concat(autoEscape),\n hostEndingChars = ['/', '?', '#'],\n hostnameMaxLen = 255,\n hostnamePartPattern = /^[+a-z0-9A-Z_-]{0,63}$/,\n hostnamePartStart = /^([+a-z0-9A-Z_-]{0,63})(.*)$/,\n // protocols that can allow \"unsafe\" and \"unwise\" chars.\n unsafeProtocol = {\n 'javascript': true,\n 'javascript:': true\n },\n // protocols that never have a hostname.\n hostlessProtocol = {\n 'javascript': true,\n 'javascript:': true\n },\n // protocols that always contain a // bit.\n slashedProtocol = {\n 'http': true,\n 'https': true,\n 'ftp': true,\n

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'gopher': true,\n    'file': true,\n    'http:': true,\n    'https:': true,\n    'ftp:': true,\n    'gopher:': true,\n    'file:': true\n  },\n  querystring = require('querystring');\n\nfunction urlParse(url, parseQueryString, slashesDenoteHost) {\n  if (url && util.isObject(url) && url instanceof Url) return url;\n\n  var u = new Url;\n  u.parse(url, parseQueryString, slashesDenoteHost);\n  return u;\n}\n\nUrl.prototype.parse = function(url, parseQueryString, slashesDenoteHost) {\n  if (!util.isString(url)) {\n    throw new TypeError(\"Parameter 'url' must be a string, not \" + typeof url);\n  }\n\n  // Copy chrome, IE, opera backslash-handling behavior.\n  // Back slashes before the query string get converted to forward slashes\n  // See: https://code.google.com/p/chromium/issues/detail?id=25916\n  var queryIndex = url.indexOf('?'),\n      splitter =\n          (queryIndex !== -1 && queryIndex < url.indexOf('#')) ? '?' : '#',\n      uSplit = url.split(splitter),\n      slashRegex = /\\\\/g;\n  uSplit[0] = uSplit[0].replace(slashRegex, '/');\n  url = uSplit.join(splitter);\n\n  var rest = url;\n\n  // trim before proceeding.\n  // This is to support parse stuff like \" http://foo.com  \\n\"\n  rest = rest.trim();\n\n  if (!slashesDenoteHost && url.split('#').length === 1) {\n    // Try fast path regexp\n    var simplePath = simplePathPattern.exec(rest);\n    if (simplePath) {\n      this.path = rest;\n      this.href = rest;\n      this.pathname = simplePath[1];\n      if (simplePath[2]) {\n        this.search = simplePath[2];\n        if (parseQueryString) {\n          this.query = querystring.parse(this.search.substr(1));\n        } else {\n          this.query = this.search.substr(1);\n        }\n      } else if (parseQueryString) {\n        this.search = '';\n        this.query = {};\n      }\n      return this;\n    }\n  }\n\n  var proto = protocolPattern.exec(rest);\n  if (proto) {\n    proto = proto[0];\n    var lowerProto = proto.toLowerCase();\n    this.protocol = lowerProto;\n    rest = rest.substr(proto.length);\n  }\n\n  // figure out if it's got a host\n  // user@server is *always* interpreted as a hostname, and url\n  // resolution will treat //foo/bar as host=foo,path=bar because that's\n  // how the browser resolves relative URLs.\n  if (slashesDenoteHost || proto || rest.match(/^\\/\\/[^@\\/]+@[^@\\/]+/)) {\n    var slashes = rest.substr(0, 2) === '//';\n    if (slashes && !(proto && hostlessProtocol[proto])) {\n      rest = rest.substr(2);\n      this.slashes = true;\n    }\n  }\n\n  if (!hostlessProtocol[proto] &&\n      (slashes || (proto && !slashedProtocol[proto]))) {\n\n    // there's a hostname.\n    // the first instance of /, ?, ;, or # ends the host.\n    //\n    // If there is an @ in the hostname, then non-host chars *are* allowed\n    // to the left of the last @ sign, unless some host-ending character\n    // comes *before* the @-sign.\n    // URLs are obnoxious.\n    //\n    // ex:\n    // http://a@b@c/ => user:a@b host:c\n    // http://a@b?@c => user:a host:c path:/?@c\n\n    // v0.12 TODO(isaacs): This is not quite how Chrome does things.\n    // Review our test case against browsers more comprehensively.\n\n    // find the first instance of any hostEndingChars\n    var hostEnd = -1;\n    for (var i = 0; i < hostEndingChars.length; i++) {\n      var hec = rest.indexOf(hostEndingChars[i]);\n      if (hec !== -1 && (hostEnd === -1 || hec < hostEnd))\n        hostEnd = hec;\n    }\n\n    // at this point, either we have an explicit point where the\n    // auth portion cannot go past, or the last @ char is the decider.\n    var auth, atSign;\n    if (hostEnd === -1) {\n      // atSign can be anywhere.\n      atSign = rest.lastIndexOf('@');\n    } else {\n      // atSign must be in auth portion.\n      // http://a@b/c@d => host:b auth:a path:/c@d\n      atSign = rest.lastIndexOf('@', hostEnd);\n    }\n\n    // Now we have a portion which is definitely the auth.\n    // Pull that off.\n    if (atSign !== -1) {\n      auth = rest.slice(0, atSign);\n      rest = rest.slice(atSign + 1);\n      this.auth = decodeURIComponent(auth);\n    }\n\n    // the host is the remaining to the left of the first non-host char\n    hostEnd = -1;\n    for (var i = 0; i < nonHostChars.length; i++) {\n      var hec = rest.indexOf(nonHostChars[i]);\n      if (hec !== -1 && (hostEnd === -1 || hec < hostEnd))\n        hostEnd = hec;\n    }\n    // if we still have not hit it, then the entire thing is a host.\n    if (hostEnd === -1)\n      hostEnd = rest.length;\n\n    this.host = rest.slice(0, hostEnd);\n    rest = rest.slice(hostEnd);\n\n    // pull out port.\n    this.parseHost();\n\n    // we've indicated that there is a hostname,\n    // so even if it's empty, it has to be present.\n    this.hostname = this.hostname || '';\n\n    // if hostname begins with [ and ends with ]\n    // assume that it's an IPv6 address.\n    var ipv6Hostname = this.hostname[0] === '[' &&\n        this.hostname[this.hostname.length - 1] === ']';\n\n    // validate a little.\n    if (!ipv6Hostname) {\n      var hostparts = this.hostname.split(/\\./);\n      for (var i = 0, l = hostparts.length; i < l; i++) {\n        var part = hostparts[i];\n        if (!part) continue;\n        if (!part.match(hostnamePartPattern)) {\n          var newpart = '';\n          for (var j = 0, k = part.length; j < k; j++) {\n            if (part.charCodeAt(j) > 127) {\n              // we replace non-ASCII char with a temporary placeholder\n              // we need this to make sure size of hostname is not\n              // broken by replacing non-ASCII by nothing\n              newpart += 'x';\n            } else {\n              newpart += part[j];\n            }\n          }\n          // we test again with
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ASCII char only\n        if (!newpart.match(hostnamePartPattern)) {\n          var validParts = hostparts.slice(0, i);\n          var notHost = hostparts.slice(i + 1);\n          var bit = part.match(hostnamePartStart);\n          if (bit) {\n            validParts.push(bit[1]);\n            notHost.unshift(bit[2]);\n          }\n          if (notHost.length) {\n            rest = '/' + notHost.join('.') + rest;\n          }\n          this.hostname = validParts.join('.');\n          break;\n        }\n      }\n    }\n  }\n\n  if (this.hostname.length > hostnameMaxLen) {\n    this.hostname = '';\n  } else {\n    // hostnames are always lower case.\n    this.hostname = this.hostname.toLowerCase();\n  }\n\n  if (!ipv6Hostname) {\n    // IDNA Support: Returns a punycoded representation of \"domain\".\n    // It only converts parts of the domain name that\n    // have non-ASCII characters, i.e. it doesn't matter if\n    // you call it with a domain that already is ASCII-only.\n    this.hostname = punycode.toASCII(this.hostname);\n  }\n\n  var p = this.port ? ':' + this.port : '';\n  var h = this.hostname || '';\n  this.host = h + p;\n  this.href += this.host;\n\n  // strip [ and ] from the hostname\n  // the host field still retains them, though\n  if (ipv6Hostname) {\n    this.hostname = this.hostname.substr(1, this.hostname.length - 2);\n    if (rest[0] !== '/') {\n      rest = '/' + rest;\n    }\n  }\n\n  // now rest is set to the post-host stuff.\n  // chop off any delim chars.\n  if (!unsafeProtocol[lowerProto]) {\n\n    // First, make 100% sure that any \"autoEscape\" chars get\n    // escaped, even if encodeURIComponent doesn't think they\n    // need to be.\n    for (var i = 0, l = autoEscape.length; i < l; i++) {\n      var ae = autoEscape[i];\n      if (rest.indexOf(ae) === -1)\n        continue;\n      var esc = encodeURIComponent(ae);\n      if (esc === ae) {\n        esc = escape(ae);\n      }\n      rest = rest.split(ae).join(esc);\n    }\n  }\n\n\n  // chop off from the tail first.\n  var hash = rest.indexOf('#');\n  if (hash !== -1) {\n    // got a fragment string.\n    this.hash = rest.substr(hash);\n    rest = rest.slice(0, hash);\n  }\n  var qm = rest.indexOf('?');\n  if (qm !== -1) {\n    this.search = rest.substr(qm);\n    this.query = rest.substr(qm + 1);\n    if (parseQueryString) {\n      this.query = querystring.parse(this.query);\n    }\n    rest = rest.slice(0, qm);\n  } else if (parseQueryString) {\n    // no query string, but parseQueryString still requested\n    this.search = '';\n    this.query = {};\n  }\n  if (rest) this.pathname = rest;\n  if (slashedProtocol[lowerProto] &&\n      this.hostname && !this.pathname) {\n    this.pathname = '/';\n  }\n\n  //to support http.request\n  if (this.pathname || this.search) {\n    var p = this.pathname || '';\n    var s = this.search || '';\n    this.path = p + s;\n  }\n\n  // finally, reconstruct the href based on what has been validated.\n  this.href = this.format();\n  return this;\n};\n\n// format a parsed object into a url string\nfunction urlFormat(obj) {\n  // ensure it's an object, and not a string url.\n  // If it's an obj, this is a no-op.\n  // this way, you can call url_format() on strings\n  // to clean up potentially wonky urls.\n  if (util.isString(obj)) obj = urlParse(obj);\n  if (!(obj instanceof Url)) return Url.prototype.format.call(obj);\n  return obj.format();\n}\n\nUrl.prototype.format = function() {\n  var auth = this.auth || '';\n  if (auth) {\n    auth = encodeURIComponent(auth);\n    auth = auth.replace(/%3A/i, ':');\n    auth += '@';\n  }\n\n  var protocol = this.protocol || '',\n      pathname = this.pathname || '',\n      hash = this.hash || '',\n      host = false,\n      query = '';\n\n  if (this.host) {\n    host = auth + this.host;\n  } else if (this.hostname) {\n    host = auth + (this.hostname.indexOf(':') === -1 ?\n        this.hostname :\n        '[' + this.hostname + ']');\n    if (this.port) {\n      host += ':' + this.port;\n    }\n  }\n\n  if (this.query &&\n      util.isObject(this.query) &&\n      Object.keys(this.query).length) {\n    query = querystring.stringify(this.query);\n  }\n\n  var search = this.search || (query && ('?' + query)) || '';\n\n  if (protocol && protocol.substr(-1) !== ':') protocol += ':';\n\n  // only the slashedProtocols get the //.  Not mailto:, xmpp:, etc.\n  // unless they had them to begin with.\n  if (this.slashes ||\n      (!protocol || slashedProtocol[protocol]) && host !== false) {\n    host = '//' + (host || '');\n    if (pathname && pathname.charAt(0) !== '/') pathname = '/' + pathname;\n  } else if (!host) {\n    host = '';\n  }\n\n  if (hash && hash.charAt(0) !== '#') hash = '#' + hash;\n  if (search && search.charAt(0) !== '?') search = '?' + search;\n\n  pathname = pathname.replace(/[?#]/g, function(match) {\n    return encodeURIComponent(match);\n  });\n  search = search.replace('#', '%23');\n\n  return protocol + host + pathname + search + hash;\n};\n\nfunction urlResolve(source, relative) {\n  return urlParse(source, false, true).resolve(relative);\n}\n\nUrl.prototype.resolve = function(relative) {\n  return this.resolveObject(urlParse(relative, false, true)).format();\n};\n\nfunction urlResolveObject(source, relative) {\n  if (!source) return relative;\n  return urlParse(source, false, true).resolveObject(relative);\n}\n\nUrl.prototype.resolveObject = function(relative) {\n  if (util.isString(relative)) {\n    var rel = new Url();\n    rel.parse(relative, false, true);\n    relative = rel;\n  }\n\n  var result = new Url();\n  var tkeys = Object.keys(this);\n  for (var tk = 0; tk < tkeys.length; tk++) {\n    var tkey = tkeys[tk];\n    result[tkey] =
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this[tkey];\n  }\n\n  // hash is always overridden, no matter what.\n  // even href=\"\" will remove it.\n  result.hash = relative.hash;\n\n  // if the relative url is empty, then there's nothing left to do here.\n  if (relative.href === '') {\n  result.href = result.format();\n    return result;\n  }\n\n  // hrefs like //foo/bar always cut to the protocol.\n  if (relative.slashes && !relative.protocol) {\n    // take everything except the protocol from relative\n    var rkeys = Object.keys(relative);\n    for (var rk = 0; rk < rkeys.length; rk++) {\n      var rkey = rkeys[rk];\n      if (rkey !== 'protocol')\n        result[rkey] = relative[rkey];\n    }\n\n    //urlParse appends trailing / to urls like http://www.example.com\n    if (slashedProtocol[result.protocol] &&\n        result.hostname && !result.pathname) {\n      result.path = result.pathname = '/';\n    }\n\n    result.href = result.format();\n    return result;\n  }\n\n  if (relative.protocol && relative.protocol !== result.protocol) {\n    // if it's a known url protocol, then changing\n    // the protocol does weird things\n    // first, if it's not file:, then we MUST have a host,\n    // and if there was a path\n    // to begin with, then we MUST have a path.\n    // if it is file:, then the host is dropped,\n    // because that's known to be hostless.\n    // anything else is assumed to be absolute.\n    if (!slashedProtocol[relative.protocol]) {\n      var keys = Object.keys(relative);\n      for (var v = 0; v < keys.length; v++) {\n        var k = keys[v];\n        result[k] = relative[k];\n      }\n      result.href = result.format();\n      return result;\n    }\n\n    result.protocol = relative.protocol;\n    if (!relative.host && !hostlessProtocol[relative.protocol]) {\n      var relPath = (relative.pathname || '').split('/');\n      while (relPath.length && !(relative.host = relPath.shift()));\n      if (!relative.host) relative.host = '';\n      if (!relative.hostname) relative.hostname = '';\n      if (relPath[0] !== '') relPath.unshift('');\n      if (relPath.length < 2) relPath.unshift('');\n      result.pathname = relPath.join('/');\n    } else {\n      result.pathname = relative.pathname;\n    }\n    result.search = relative.search;\n    result.query = relative.query;\n    result.host = relative.host || '';\n    result.auth = relative.auth;\n    result.hostname = relative.hostname || relative.host;\n    result.port = relative.port;\n    // to support http.request\n    if (result.pathname || result.search) {\n      var p = result.pathname || '';\n      var s = result.search || '';\n      result.path = p + s;\n    }\n    result.slashes = result.slashes || relative.slashes;\n    result.href = result.format();\n    return result;\n  }\n\n  var isSourceAbs = (result.pathname && result.pathname.charAt(0) === '/'),\n      isRelAbs = (\n          relative.host ||\n          relative.pathname && relative.pathname.charAt(0) === '/'\n      ),\n      mustEndAbs = (isRelAbs || isSourceAbs ||\n                    (result.host && relative.pathname)),\n      removeAllDots = mustEndAbs,\n      srcPath = result.pathname && result.pathname.split('/') || [],\n      relPath = relative.pathname && relative.pathname.split('/') || [],\n      psychotic = result.protocol && !slashedProtocol[result.protocol];\n\n  // if the url is a non-slashed url, then relative\n  // links like ../.. should be able\n  // to crawl up to the hostname, as well.  This is strange.\n  // result.protocol has already been set by now.\n  // Later on, put the first path part into the host field.\n  if (psychotic) {\n    result.hostname = '';\n    result.port = null;\n    if (result.host) {\n      if (srcPath[0] === '') srcPath[0] = result.host;\n      else srcPath.unshift(result.host);\n    }\n    result.host = '';\n    if (relative.protocol) {\n      relative.hostname = null;\n      relative.port = null;\n      if (relative.host) {\n        if (relPath[0] === '') relPath[0] = relative.host;\n        else relPath.unshift(relative.host);\n      }\n      relative.host = null;\n    }\n    mustEndAbs = mustEndAbs && (relPath[0] === '' || srcPath[0] === '');\n  }\n\n  if (isRelAbs) {\n    // it's absolute.\n    result.host = (relative.host || relative.host === '') ?\n                  relative.host : result.host;\n    result.hostname = (relative.hostname || relative.hostname === '') ?\n                      relative.hostname : result.hostname;\n    result.search = relative.search;\n    result.query = relative.query;\n    srcPath = relPath;\n    // fall through to the dot-handling below.\n  } else if (relPath.length) {\n    // it's relative\n    // throw away the existing file, and take the new path instead.\n    if (!srcPath) srcPath = [];\n    srcPath.pop();\n    srcPath = srcPath.concat(relPath);\n    result.search = relative.search;\n    result.query = relative.query;\n  } else if (!util.isNullOrUndefined(relative.search)) {\n    // just pull out the search.\n    // like href='?foo'.\n    // Put this after the other two cases because it simplifies the booleans\n    if (psychotic) {\n      result.hostname = result.host = srcPath.shift();\n      //occationaly the auth can get stuck only in host\n      //this especially happens in cases like\n      //url.resolveObject('mailto:local1@domain1', 'local2@domain2')\n      var authInHost = result.host && result.host.indexOf('@') > 0 ?\n                       result.host.split('@') : false;\n      if (authInHost) {\n        result.auth = authInHost.shift();\n        result.host = result.hostname = authInHost.shift();\n      }\n    }\n    result.search = relative.search;\n    result.query = relative.query;\n    //to support http.request\n    if (!util.isNull(result.pathname) || !util.isNull(result.search)) {\n
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result.path = (result.pathname ? result.pathname : '') +\n                (result.search ? result.search : '');\n  }\n  result.href = result.format();\n  return result;\n }\n\n if (!srcPath.length) {\n  // no path at all.  easy.\n  // we've already handled the other stuff above.\n  result.pathname = null;\n  //to support http.request\n  if (result.search) {\n   result.path = '/' + result.search;\n  } else {\n   result.path = null;\n  }\n  result.href = result.format();\n  return result;\n }\n\n // if a url ENDs in . or .., then it must get a trailing slash.\n // however, if it ends in anything else non-slashy,\n // then it must NOT get a trailing slash.\n var last = srcPath.slice(-1)[0];\n var hasTrailingSlash = (\n   (result.host || relative.host || srcPath.length > 1) &&\n   (last === '.' || last === '..') || last === '');\n\n // strip single dots, resolve double dots to parent dir\n // if the path tries to go above the root, `up` ends up > 0\n var up = 0;\n for (var i = srcPath.length; i >= 0; i--) {\n  last = srcPath[i];\n  if (last === '.') {\n   srcPath.splice(i, 1);\n  } else if (last === '..') {\n   srcPath.splice(i, 1);\n   up++;\n  } else if (up) {\n   srcPath.splice(i, 1);\n   up--;\n  }\n }\n\n // if the path is allowed to go above the root, restore leading ..s\n if (!mustEndAbs && !removeAllDots) {\n  for (; up--; up) {\n   srcPath.unshift('..');\n  }\n }\n\n if (mustEndAbs && srcPath[0] !== '' &&\n  (!srcPath[0] || srcPath[0].charAt(0) !== '/')) {\n  srcPath.unshift('');\n }\n\n if (hasTrailingSlash &&\n  (srcPath.join('/').substr(-1) !== '/')) {\n  srcPath.push('');\n }\n\n var isAbsolute = srcPath[0] === '' ||\n  (srcPath[0] && srcPath[0].charAt(0) === '/');\n\n // put the host back\n if (psychotic) {\n  result.hostname = result.host = isAbsolute ? '' :\n                  srcPath.length ? srcPath.shift() : '';\n  //occationaly the auth can get stuck only in host\n  //this especially happens in cases like\n  //url.resolveObject('mailto:local1@domain1', 'local2@domain2')\n  var authInHost = result.host && result.host.indexOf('@') > 0 ?\n                  result.host.split('@') : false;\n  if (authInHost) {\n   result.auth = authInHost.shift();\n   result.host = result.hostname = authInHost.shift();\n  }\n }\n\n mustEndAbs = mustEndAbs || (result.host && srcPath.length);\n\n if (mustEndAbs && !isAbsolute) {\n  srcPath.unshift('');\n }\n\n if (!srcPath.length) {\n  result.pathname = null;\n  result.path = null;\n } else {\n  result.pathname = srcPath.join('/');\n }\n\n //to support request.http\n if (!util.isNull(result.pathname) || !util.isNull(result.search)) {\n  result.path = (result.pathname ? result.pathname : '') +\n                (result.search ? result.search : '');\n }\n result.auth = relative.auth || result.auth;\n result.slashes = result.slashes || relative.slashes;\n result.href = result.format();\n return result;\n};\n\nUrl.prototype.parseHost = function() {\n var host = this.host;\n var port = portPattern.exec(host);\n if (port) {\n  port = port[0];\n  if (port !== ':') {\n   this.port = port.substr(1);\n  }\n  host = host.substr(0, host.length - port.length);\n }\n if (host) this.hostname = host;\n};\n\n","// @flow\n\nimport Reference from './reference/v8.json';\nimport type {StylePropertySpecification} from './style-spec.js';\nimport type {\n StyleSpecification,\n SourceSpecification,\n LayerSpecification,\n PropertyValueSpecification,\n DataDrivenPropertyValueSpecification\n} from './types.js';\n\nfunction getPropertyReference(propertyName): StylePropertySpecification {\n for (let i = 0; i < Reference.layout.length; i++) {\n  for (const key in Reference[Reference.layout[i]]) {\n   if (key === propertyName) return (Reference[Reference.layout[i]][key]: any);\n  }\n }\n for (let i = 0; i < Reference.paint.length; i++) {\n  for (const key in Reference[Reference.paint[i]]) {\n   if (key === propertyName) return (Reference[Reference.paint[i]][key]: any);\n  }\n }\n\n return (null: any);\n}\n\nexport function eachSource(style: StyleSpecification, callback: (_: SourceSpecification) => void) {\n for (const k in style.sources) {\n  callback(style.sources[k]);\n }\n}\n\nexport function eachLayer(style: StyleSpecification, callback: (_: LayerSpecification) => void) {\n for (const layer of style.layers) {\n  callback(layer);\n }\n}\n\ntype PropertyCallback = ({\n path: [string, 'paint' | 'layout', string], // [layerid, paint/layout, property key]\n key: string,\n value: PropertyValueSpecification<mixed> | DataDrivenPropertyValueSpecification<mixed>,\n reference: StylePropertySpecification,\n set: (PropertyValueSpecification<mixed> | DataDrivenPropertyValueSpecification<mixed>) => void\n}) => void;\n\nexport function eachProperty(\n style: StyleSpecification,\n options: {paint?: boolean, layout?: boolean},\n callback: PropertyCallback\n) {\n function inner(layer, propertyType: 'paint' | 'layout') {\n  const properties = (layer[propertyType]: any);\n  if (!properties) return;\n  Object.keys(properties).forEach((key) => {\n   callback({\n    path: [layer.id, propertyType, key],\n    key,\n    value: properties[key],\n    reference: getPropertyReference(key),\n    set(x) {\n     properties[key] = x;\n    }\n   });\n
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});\n  }\n\n  eachLayer(style, (layer) => {\n    if (options.paint) {\n      inner(layer, 'paint');\n    }\n    if (options.layout) {\n      inner(layer, 'layout');\n    }\n  });\n}\n","\nimport URL from 'url';\nimport {eachSource, eachLayer, eachProperty} from '../visit.js';\n\nfunction eachLayout(layer, callback) {\n  for (const k in layer) {\n    if (k.indexOf('layout') === 0) {\n      callback(layer[k], k);\n    }\n  }\n}\n\nfunction eachPaint(layer, callback) {\n  for (const k in layer) {\n    if (k.indexOf('paint') === 0) {\n      callback(layer[k], k);\n    }\n  }\n}\n\nfunction resolveConstant(style, value) {\n  if (typeof value === 'string' && value[0] === '@') {\n    return resolveConstant(style, style.constants[value]);\n  } else {\n    return value;\n  }\n}\n\nfunction isFunction(value) {\n  return Array.isArray(value.stops);\n}\n\nfunction renameProperty(obj, from, to) {\n  obj[to] = obj[from]; delete obj[from];\n}\n\nexport default function(style) {\n  style.version = 8;\n\n  // Rename properties, reverse coordinates in source and layers\n  eachSource(style, (source) => {\n    if (source.type === 'video' && source.url !== undefined) {\n      renameProperty(source, 'url', 'urls');\n    }\n    if (source.type === 'video') {\n      source.coordinates.forEach((coord) => {\n        return coord.reverse();\n      });\n    }\n  });\n\n  eachLayer(style, (layer) => {\n    eachLayout(layer, (layout) => {\n      if (layout['symbol-min-distance'] !== undefined) {\n        renameProperty(layout, 'symbol-min-distance', 'symbol-spacing');\n      }\n    });\n\n    eachPaint(layer, (paint) => {\n      if (paint['background-image'] !== undefined) {\n        renameProperty(paint, 'background-image', 'background-pattern');\n      }\n      if (paint['line-image'] !== undefined) {\n        renameProperty(paint, 'line-image', 'line-pattern');\n      }\n      if (paint['fill-image'] !== undefined) {\n        renameProperty(paint, 'fill-image', 'fill-pattern');\n      }\n    });\n  });\n\n  // Inline Constants\n  eachProperty(style, {paint: true, layout: true}, (property) => {\n    const value = resolveConstant(style, property.value);\n\n    if (isFunction(value)) {\n      value.stops.forEach((stop) => {\n        stop[1] = resolveConstant(style, stop[1]);\n      });\n    }\n\n    property.set(value);\n  });\n  delete style.constants;\n\n  eachLayer(style, (layer) => {\n    // get rid of text-max-size, icon-max-size\n    // turn text-size, icon-size into layout properties\n    // https://github.com/mapbox/mapbox-gl-style-spec/issues/255\n\n    eachLayout(layer, (layout) => {\n      delete layout['text-max-size'];\n      delete layout['icon-max-size'];\n    });\n\n    eachPaint(layer, (paint) => {\n      if (paint['text-size']) {\n        if (!layer.layout) layer.layout = {};\n        layer.layout['text-size'] = paint['text-size'];\n        delete paint['text-size'];\n      }\n\n      if (paint['icon-size']) {\n        if (!layer.layout) layer.layout = {};\n        layer.layout['icon-size'] = paint['icon-size'];\n        delete paint['icon-size'];\n      }\n    });\n  });\n\n  function migrateFontstackURL(input) {\n    const inputParsed = URL.parse(input);\n    const inputPathnameParts = inputParsed.pathname.split('/');\n\n    if (inputParsed.protocol !== 'mapbox:') {\n      return input;\n\n    } else if (inputParsed.hostname === 'fontstack') {\n      assert(decodeURI(inputParsed.pathname) === '/{fontstack}/{range}.pbf');\n      return 'mapbox://fonts/mapbox/{fontstack}/{range}.pbf';\n\n    } else if (inputParsed.hostname === 'fonts') {\n      assert(inputPathnameParts[1] === 'v1');\n      assert(decodeURI(inputPathnameParts[3]) === '{fontstack}');\n      assert(decodeURI(inputPathnameParts[4]) === '{range}.pbf');\n      return `mapbox://fonts/${inputPathnameParts[2]}/{fontstack}/{range}.pbf`;\n\n    } else {\n      assert(false);\n    }\n\n    function assert(predicate) {\n      if (!predicate) {\n        throw new Error(`Invalid font url: \"${input}\"`);\n      }\n    }\n  }\n\n  if (style.glyphs) {\n    style.glyphs = migrateFontstackURL(style.glyphs);\n  }\n\n  function migrateFontStack(font) {\n    function splitAndTrim(string) {\n      return string.split(',').map((s) => {\n        return s.trim();\n      });\n    }\n\n    if (Array.isArray(font)) {\n      // Assume it's a previously migrated font-array.\n      return font;\n\n    } else if (typeof font === 'string') {\n      return splitAndTrim(font);\n\n    } else if (typeof font === 'object') {\n      font.stops.forEach((stop) => {\n        stop[1] = splitAndTrim(stop[1]);\n      });\n      return font;\n\n    } else {\n      throw new Error(\"unexpected font value\");\n    }\n  }\n\n  eachLayer(style, (layer) => {\n    eachLayout(layer, (layout) => {\n      if (layout['text-font']) {\n        layout['text-font'] = migrateFontStack(layout['text-font']);\n      }\n    });\n  });\n\n  // Reverse order of symbol layers. This is an imperfect migration.\n  //\n  // The order of a symbol layer in the layers list affects two things:\n  // - how it is drawn relative to other layers (like oneway arrows below bridges)\n  // - the placement
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priority compared to other layers\n //\n // It's impossible to reverse the placement priority without breaking the draw order\n // in some cases. This migration only reverses the order of symbol layers that\n // are above all other types of layers.\n //\n // Symbol layers that are at the top of the map preserve their priority.\n // Symbol layers that are below another type (line, fill) of layer preserve their draw order.\n\n let firstSymbolLayer = 0;\n for (let i = style.layers.length - 1; i >= 0; i--) {\n const layer = style.layers[i];\n if (layer.type !== 'symbol') {\n firstSymbolLayer = i + 1;\n break;\n }\n }\n\n const symbolLayers = style.layers.splice(firstSymbolLayer);\n symbolLayers.reverse();\n style.layers = style.layers.concat(symbolLayers);\n\n return style;\n}\n","// @flow\n\nexport default function (output: any, ...inputs: Array<any>): any {\n for (const input of inputs) {\n for (const k in input) {\n output[k] = input[k];\n }\n }\n return output;\n}\n","// @flow\n\nclass ParsingError extends Error {\n key: string;\n message: string;\n constructor(key: string, message: string) {\n super(message);\n this.message = message;\n this.key = key;\n }\n}\n\nexport default ParsingError;\n","// @flow\n\nimport type {Expression} from './expression.js';\n\n/**\n * Tracks `let` bindings during expression parsing.\n * @private\n */\nclass Scope {\n parent: ?Scope;\n bindings: {[_: string]: Expression};\n constructor(parent?: Scope, bindings: Array<[string, Expression]> = []) {\n this.parent = parent;\n this.bindings = {};\n for (const [name, expression] of bindings) {\n this.bindings[name] = expression;\n }\n }\n\n concat(bindings: Array<[string, Expression]>): Scope {\n return new Scope(this, bindings);\n }\n\n get(name: string): Expression {\n if (this.bindings[name]) { return this.bindings[name]; }\n if (this.parent) { return this.parent.get(name); }\n throw new Error(`${name} not found in scope.`);\n }\n\n has(name: string): boolean {\n if (this.bindings[name]) return true;\n return this.parent ? this.parent.has(name) : false;\n }\n}\n\nexport default Scope;\n","// @flow\n\nexport type NullTypeT = { kind: 'null' };\nexport type NumberTypeT = { kind: 'number' };\nexport type StringTypeT = { kind: 'string' };\nexport type BooleanTypeT = { kind: 'boolean' };\nexport type ColorTypeT = { kind: 'color' };\nexport type ObjectTypeT = { kind: 'object' };\nexport type ValueTypeT = { kind: 'value' };\nexport type ErrorTypeT = { kind: 'error' };\nexport type CollatorTypeT = { kind: 'collator' };\nexport type FormattedTypeT = { kind: 'formatted' };\nexport type ResolvedImageTypeT = { kind: 'resolvedImage' };\n\nexport type EvaluationKind = 'constant' | 'source' | 'camera' | 'composite';\n\nexport type Type =\n NullTypeT |\n NumberTypeT |\n StringTypeT |\n BooleanTypeT |\n ColorTypeT |\n ObjectTypeT |\n ValueTypeT |\n ArrayType | // eslint-disable-line no-use-before-define\n ErrorTypeT |\n CollatorTypeT |\n FormattedTypeT |\n ResolvedImageTypeT\n\nexport type ArrayType = {\n kind: 'array',\n itemType: Type,\n N: ?number\n}\n\nexport type NativeType = 'number' | 'string' | 'boolean' | 'null' | 'array' | 'object'\n\nexport const NullType = {kind: 'null'};\nexport const NumberType = {kind: 'number'};\nexport const StringType = {kind: 'string'};\nexport const BooleanType = {kind: 'boolean'};\nexport const ColorType = {kind: 'color'};\nexport const ObjectType = {kind: 'object'};\nexport const ValueType = {kind: 'value'};\nexport const ErrorType = {kind: 'error'};\nexport const CollatorType = {kind: 'collator'};\nexport const FormattedType = {kind: 'formatted'};\nexport const ResolvedImageType = {kind: 'resolvedImage'};\n\nexport function array(itemType: Type, N: ?number): ArrayType {\n return {\n kind: 'array',\n itemType,\n N\n };\n}\n\nexport function toString(type: Type): string {\n if (type.kind === 'array') {\n const itemType = toString(type.itemType);\n return typeof type.N === 'number' ?\n `array<${itemType}, ${type.N}>` :\n type.itemType.kind === 'value' ? 'array' : `array<${itemType}>`;\n } else {\n return type.kind;\n }\n}\n\nconst valueMemberTypes = [\n NullType,\n NumberType,\n StringType,\n BooleanType,\n ColorType,\n FormattedType,\n ObjectType,\n array(ValueType),\n ResolvedImageType\n];\n\n/**\n * Returns null if `t` is a subtype of `expected`; otherwise returns an\n * error message.\n * @private\n */\nexport function checkSubtype(expected: Type, t: Type): ?string {\n if (t.kind === 'error') {\n // Error is a subtype of every type\n return null;\n } else if (expected.kind === 'array') {\n if (t.kind === 'array' &&\n ((t.N === 0 && t.itemType.kind === 'value') || !checkSubtype(expected.itemType, t.itemType)) &&\n (typeof expected.N !== 'number' || expected.N === t.N)) {\n return null;\n }\n } else if (expected.kind === t.kind) {\n return null;\n } else if (expected.kind === 'value') {\n for (const memberType of valueMemberTypes) {\n if (!checkSubtype(memberType, t)) {\n return null;\n }\n }\n }\n\n return `Expected

${toString(expected)} but found ${toString(t)} instead.`;\n}\n\nexport function isValidType(provided: Type, allowedTypes: Array<Type>): boolean {\n return allowedTypes.some(t => t.kind === provided.kind);\n}\n\nexport function isValidNativeType(provided: any, allowedTypes: Array<NativeType>): boolean {\n return allowedTypes.some(t => {\n   if (t === 'null') {\n   return provided === null;\n   } else if (t === 'array') {\n   return Array.isArray(provided);\n   } else if (t === 'object') {\n   return provided && !Array.isArray(provided) && typeof provided === 'object';\n   } else {\n   return t === typeof provided;\n   }\n });\n}\n","// (c) Dean McNamee <dean@gmail.com>, 2012.\n//\n// https://github.com/deanm/css-color-parser-js\n//\n// Permission is hereby granted, free of charge, to any person obtaining a copy\n// of this software and associated documentation files (the \"Software\"), to\n// deal in the Software without restriction, including without limitation the\n// rights to use, copy, modify, merge, publish, distribute, sublicense, and/or\n// sell copies of the Software, and to permit persons to whom the Software is\n// furnished to do so, subject to the following conditions:\n//\n// The above copyright notice and this permission notice shall be included in\n// all copies or substantial portions of the Software.\n//\n// THE SOFTWARE IS PROVIDED \"AS IS\", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR\n// IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,\n// FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE\n// AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER\n// LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING\n// FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS\n// IN THE SOFTWARE.\n\n// http://www.w3.org/TR/css3-color/\nvar kCSSColorTable = {\n \"transparent\": [0,0,0,0], \"aliceblue\": [240,248,255,1],\n \"antiquewhite\": [250,235,215,1], \"aqua\": [0,255,255,1],\n \"aquamarine\": [127,255,212,1], \"azure\": [240,255,255,1],\n \"beige\": [245,245,220,1], \"bisque\": [255,228,196,1],\n \"black\": [0,0,0,1], \"blanchedalmond\": [255,235,205,1],\n \"blue\": [0,0,255,1], \"blueviolet\": [138,43,226,1],\n \"brown\": [165,42,42,1], \"burlywood\": [222,184,135,1],\n \"cadetblue\": [95,158,160,1], \"chartreuse\": [127,255,0,1],\n \"chocolate\": [210,105,30,1], \"coral\": [255,127,80,1],\n \"cornflowerblue\": [100,149,237,1], \"cornsilk\": [255,248,220,1],\n \"crimson\": [220,20,60,1], \"cyan\": [0,255,255,1],\n \"darkblue\": [0,0,139,1], \"darkcyan\": [0,139,139,1],\n \"darkgoldenrod\": [184,134,11,1], \"darkgray\": [169,169,169,1],\n \"darkgreen\": [0,100,0,1], \"darkgrey\": [169,169,169,1],\n \"darkkhaki\": [189,183,107,1], \"darkmagenta\": [139,0,139,1],\n \"darkolivegreen\": [85,107,47,1], \"darkorange\": [255,140,0,1],\n \"darkorchid\": [153,50,204,1], \"darkred\": [139,0,0,1],\n \"darksalmon\": [233,150,122,1], \"darkseagreen\": [143,188,143,1],\n \"darkslateblue\": [72,61,139,1], \"darkslategray\": [47,79,79,1],\n \"darkslategrey\": [47,79,79,1], \"darkturquoise\": [0,206,209,1],\n \"darkviolet\": [148,0,211,1], \"deeppink\": [255,20,147,1],\n \"deepskyblue\": [0,191,255,1], \"dimgray\": [105,105,105,1],\n \"dimgrey\": [105,105,105,1], \"dodgerblue\": [30,144,255,1],\n \"firebrick\": [178,34,34,1], \"floralwhite\": [255,250,240,1],\n \"forestgreen\": [34,139,34,1], \"fuchsia\": [255,0,255,1],\n \"gainsboro\": [220,220,220,1], \"ghostwhite\": [248,248,255,1],\n \"gold\": [255,215,0,1], \"goldenrod\": [218,165,32,1],\n \"gray\": [128,128,128,1], \"green\": [0,128,0,1],\n \"greenyellow\": [173,255,47,1], \"grey\": [128,128,128,1],\n \"honeydew\": [240,255,240,1], \"hotpink\": [255,105,180,1],\n \"indianred\": [205,92,92,1], \"indigo\": [75,0,130,1],\n \"ivory\": [255,255,240,1], \"khaki\": [240,230,140,1],\n \"lavender\": [230,230,250,1], \"lavenderblush\": [255,240,245,1],\n \"lawngreen\": [124,252,0,1], \"lemonchiffon\": [255,250,205,1],\n \"lightblue\": [173,216,230,1], \"lightcoral\": [240,128,128,1],\n \"lightcyan\": [224,255,255,1], \"lightgoldenrodyellow\": [250,250,210,1],\n \"lightgray\": [211,211,211,1], \"lightgreen\": [144,238,144,1],\n \"lightgrey\": [211,211,211,1], \"lightpink\": [255,182,193,1],\n \"lightsalmon\": [255,160,122,1], \"lightseagreen\": [32,178,170,1],\n \"lightskyblue\": [135,206,250,1], \"lightslategray\": [119,136,153,1],\n \"lightslategrey\": [119,136,153,1], \"lightsteelblue\": [176,196,222,1],\n \"lightyellow\": [255,255,224,1], \"lime\": [0,255,0,1],\n \"limegreen\": [50,205,50,1], \"linen\": [250,240,230,1],\n \"magenta\": [255,0,255,1], \"maroon\": [128,0,0,1],\n \"mediumaquamarine\": [102,205,170,1], \"mediumblue\": [0,0,205,1],\n \"mediumorchid\": [186,85,211,1], \"mediumpurple\": [147,112,219,1],\n \"mediumseagreen\": [60,179,113,1], \"mediumslateblue\": [123,104,238,1],\n \"mediumspringgreen\": [0,250,154,1], \"mediumturquoise\": [72,209,204,1],\n

\"mediumvioletred\": [199,21,133,1], \"midnightblue\": [25,25,112,1],\n \"mintcream\": [245,255,250,1],\n \"mistyrose\": [255,228,225,1],\n \"moccasin\": [255,228,181,1], \"navajowhite\": [255,222,173,1],\n \"navy\": [0,0,128,1], \"oldlace\": [253,245,230,1],\n \"olive\": [128,128,0,1], \"olivedrab\": [107,142,35,1],\n \"orange\": [255,165,0,1], \"orangered\": [255,69,0,1],\n \"orchid\": [218,112,214,1], \"palegoldenrod\": [238,232,170,1],\n \"palegreen\": [152,251,152,1], \"paleturquoise\": [175,238,238,1],\n \"palevioletred\": [219,112,147,1],\n \"papayawhip\": [255,239,213,1],\n \"peachpuff\": [255,218,185,1], \"peru\": [205,133,63,1],\n \"pink\": [255,192,203,1], \"plum\": [221,160,221,1],\n \"powderblue\": [176,224,230,1], \"purple\": [128,0,128,1],\n \"rebeccapurple\": [102,51,153,1],\n \"red\": [255,0,0,1], \"rosybrown\": [188,143,143,1],\n \"royalblue\": [65,105,225,1], \"saddlebrown\": [139,69,19,1],\n \"salmon\": [250,128,114,1], \"sandybrown\": [244,164,96,1],\n \"seagreen\": [46,139,87,1], \"seashell\": [255,245,238,1],\n \"sienna\": [160,82,45,1], \"silver\": [192,192,192,1],\n \"skyblue\": [135,206,235,1], \"slateblue\": [106,90,205,1],\n \"slategray\": [112,128,144,1], \"slategrey\": [112,128,144,1],\n \"snow\": [255,250,250,1], \"springgreen\": [0,255,127,1],\n \"steelblue\": [70,130,180,1], \"tan\": [210,180,140,1],\n \"teal\": [0,128,128,1], \"thistle\": [216,191,216,1],\n \"tomato\": [255,99,71,1], \"turquoise\": [64,224,208,1],\n \"violet\": [238,130,238,1], \"wheat\": [245,222,179,1],\n \"white\": [255,255,255,1], \"whitesmoke\": [245,245,245,1],\n \"yellow\": [255,255,0,1], \"yellowgreen\": [154,205,50,1]}\n\nfunction clamp_css_byte(i) { // Clamp to integer 0 .. 255.\n i = Math.round(i); // Seems to be what Chrome does (vs truncation).\n return i < 0 ? 0 : i > 255 ? 255 : i;\n}\n\nfunction clamp_css_float(f) { // Clamp to float 0.0 .. 1.0.\n return f < 0 ? 0 : f > 1 ? 1 : f;\n}\n\nfunction parse_css_int(str) { // int or percentage.\n if (str[str.length - 1] === '%')\n   return clamp_css_byte(parseFloat(str) / 100 * 255);\n return clamp_css_byte(parseInt(str));\n}\n\nfunction parse_css_float(str) { // float or percentage.\n if (str[str.length - 1] === '%')\n   return clamp_css_float(parseFloat(str) / 100);\n return clamp_css_float(parseFloat(str));\n}\n\nfunction css_hue_to_rgb(m1, m2, h) {\n if (h < 0) h += 1;\n else if (h > 1) h -= 1;\n\n if (h * 6 < 1) return m1 + (m2 - m1) * h * 6;\n if (h * 2 < 1) return m2;\n if (h * 3 < 2) return m1 + (m2 - m1) * (2/3 - h) * 6;\n return m1;\n}\n\nfunction parseCSSColor(css_str) {\n // Remove all whitespace, not compliant, but should just be more accepting.\n var str = css_str.replace(/ /g, '').toLowerCase();\n\n // Color keywords (and transparent) lookup.\n if (str in kCSSColorTable) return kCSSColorTable[str].slice(); // dup.\n\n // #abc and #abc123 syntax.\n if (str[0] === '#') {\n   if (str.length === 4) {\n   var iv = parseInt(str.substr(1), 16); // TODO(deanm): Stricter parsing.\n   if (!(iv >= 0 && iv <= 0xfff)) return null; // Covers NaN.\n   return [((iv & 0xf00) >> 4) | ((iv & 0xf00) >> 8),\n   (iv & 0xf0) | ((iv & 0xf0) >> 4),\n   (iv & 0xf) | ((iv & 0xf) << 4),\n   1];\n   } else if (str.length === 7) {\n   var iv = parseInt(str.substr(1), 16); // TODO(deanm): Stricter parsing.\n   if (!(iv >= 0 && iv <= 0xffffff)) return null; // Covers NaN.\n   return [(iv & 0xff0000) >> 16,\n   (iv & 0xff00) >> 8,\n   iv & 0xff,\n   1];\n   }\n\n   return null;\n }\n\n var op = str.indexOf('('), ep = str.indexOf(')');\n if (op !== -1 && ep + 1 === str.length) {\n   var fname = str.substr(0, op);\n   var params = str.substr(op+1, ep-(op+1)).split(',');\n   var alpha = 1; // To allow case fallthrough.\n   switch (fname) {\n   case 'rgba':\n   if (params.length !== 4) return null;\n   alpha = parse_css_float(params.pop());\n   // Fall through.\n   case 'rgb':\n   if (params.length !== 3) return null;\n   return [parse_css_int(params[0]),\n   parse_css_int(params[1]),\n   parse_css_int(params[2]),\n   alpha];\n   case 'hsla':\n   if (params.length !== 4) return null;\n   alpha = parse_css_float(params.pop());\n   // Fall through.\n   case 'hsl':\n   if (params.length !== 3) return null;\n   var h = (((parseFloat(params[0]) % 360) + 360) % 360) / 360; // 0 .. 1\n   // NOTE(deanm): According to the CSS spec s/l should only be\n   // percentages, but we don't bother and let float or percentage.\n   var s = parse_css_float(params[1]);\n   var l = parse_css_float(params[2]);\n   var m2 = l <= 0.5 ? l * (s + 1) : l + s - l * s;\n   var m1 = l * 2 - m2;\n   return [clamp_css_byte(css_hue_to_rgb(m1, m2, h+1/3) * 255),\n   clamp_css_byte(css_hue_to_rgb(m1, m2, h) * 255),\n   clamp_css_byte(css_hue_to_rgb(m1, m2, h-1/3) * 255),\n   alpha];\n   default:\n   return null;\n   }\n }\n\n return null;\n}\n\ntry { exports.parseCSSColor = parseCSSColor } catch(e) { }\n","// @flow\n\nimport {parseCSSColor} from 'csscolorparser';\n\n/**\n * An RGBA color value. Create instances from color strings using the static\n * method `Color.parse`. The constructor accepts RGB channel values in the range\n * `[0, 1]`, premultiplied by A.\n *\n * @param {number} r The red channel.\n * @param {number} g The green channel.\n * @param {number} b The

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blue channel.\n * @param {number} a The alpha channel.\n * @private\n */\nclass Color {\n    r: number;\n    g: number;\n    b: number;\n    a: number;\n\n    constructor(r: number, g: number, b: number, a: number = 1) {\n        this.r = r;\n        this.g = g;\n        this.b = b;\n        this.a = a;\n    }\n\n    static black: Color;\n    static white: Color;\n    static transparent: Color;\n    static red: Color;\n    static blue: Color;\n\n    /**\n     * Parses valid CSS color strings and returns a `Color` instance.\n     * @returns A `Color` instance, or `undefined` if the input is not a valid color string.\n     */\n    static parse(input?: string | Color | null): Color | void {\n        if (!input) {\n            return undefined;\n        }\n\n        if (input instanceof Color) {\n            return input;\n        }\n\n        if (typeof input !== 'string') {\n            return undefined;\n        }\n\n        const rgba = parseCSSColor(input);\n        if (!rgba) {\n            return undefined;\n        }\n\n        return new Color(\n            rgba[0] / 255 * rgba[3],\n            rgba[1] / 255 * rgba[3],\n            rgba[2] / 255 * rgba[3],\n            rgba[3]\n        );\n    }\n\n    /**\n     * Returns an RGBA string representing the color value.\n     *\n     * @returns An RGBA string.\n     * @example\n     * var purple = new Color.parse('purple');\n     * purple.toString; // = \"rgba(128,0,128,1)\"\n     * var translucentGreen = new Color.parse('rgba(26, 207, 26, .73)');\n     * translucentGreen.toString(); // = \"rgba(26,207,26,0.73)\"\n     */\n    toString(): string {\n        const [r, g, b, a] = this.toArray();\n        return `rgba(${Math.round(r)},${Math.round(g)},${Math.round(b)},${a})`;\n    }\n\n    /**\n     * Returns an RGBA array of values representing the color, unpremultiplied by A.\n     *\n     * @returns An array of RGBA color values in the range [0, 255].\n     */\n    toArray(): [number, number, number, number] {\n        const {r, g, b, a} = this;\n        return a === 0 ? [0, 0, 0, 0] : [\n            r * 255 / a,\n            g * 255 / a,\n            b * 255 / a,\n            a\n        ];\n    }\n\n    /**\n     * Returns a RGBA array of float values representing the color, unpremultiplied by A.\n     *\n     * @returns An array of RGBA color values in the range [0, 1].\n     */\n    toArray01(): [number, number, number, number] {\n        const {r, g, b, a} = this;\n        return a === 0 ? [0, 0, 0, 0] : [\n            r / a,\n            g / a,\n            b / a,\n            a\n        ];\n    }\n\n    /**\n     * Returns an RGBA array of values representing the color, premultiplied by A.\n     *\n     * @returns An array of RGBA color values in the range [0, 1].\n     */\n    toArray01PremultipliedAlpha(): [number, number, number, number] {\n        const {r, g, b, a} = this;\n        return [\n            r,\n            g,\n            b,\n            a\n        ];\n    }\n}\n\nColor.black = new Color(0, 0, 0, 1);\nColor.white = new Color(1, 1, 1, 1);\nColor.transparent = new Color(0, 0, 0, 0);\nColor.red = new Color(1, 0, 0, 1);\nColor.blue = new Color(0, 0, 1, 1);\n\nexport default Color;\n","// @flow\n\n// Flow type declarations for Intl cribbed from\n// https://github.com/facebook/flow/issues/1270\n\ndeclare var Intl: {\n    Collator: Class<Intl$Collator>\n};\n\ndeclare class Intl$Collator {\n    constructor (\n        locales?: string | string[],\n        options?: CollatorOptions\n    ): Intl$Collator;\n\n    static (\n        locales?: string | string[],\n        options?: CollatorOptions\n    ): Intl$Collator;\n\n    compare (a: string, b: string): number;\n\n    resolvedOptions(): any;\n}\n\ntype CollatorOptions = {\n    localeMatcher?: 'lookup' | 'best fit',\n    usage?: 'sort' | 'search',\n    sensitivity?: 'base' | 'accent' | 'case' | 'variant',\n    ignorePunctuation?: boolean,\n    numeric?: boolean,\n    caseFirst?: 'upper' | 'lower' | 'false'\n}\n\nexport default class Collator {\n    locale: string | null;\n    sensitivity: 'base' | 'accent' | 'case' | 'variant';\n    collator: Intl$Collator;\n\n    constructor(caseSensitive: boolean, diacriticSensitive: boolean, locale: string | null) {\n        if (caseSensitive)\n            this.sensitivity = diacriticSensitive ? 'variant' : 'case';\n        else\n            this.sensitivity = diacriticSensitive ? 'accent' : 'base';\n\n        this.locale = locale;\n        this.collator = new Intl.Collator(this.locale ? this.locale : [],\n            {sensitivity: this.sensitivity, usage: 'search'});\n    }\n\n    compare(lhs: string, rhs: string): number {\n        return this.collator.compare(lhs, rhs);\n    }\n\n    resolvedLocale(): string {\n        // We create a Collator without \"usage: search\" because we don't want\n        // the search options encoded in our result (e.g. \"en-u-co-search\")\n        return new Intl.Collator(this.locale ? this.locale : [])\n            .resolvedOptions().locale;\n    }\n}\n","// @flow\nimport type Color from '../../util/color.js';\nimport type ResolvedImage from '../types/resolved_image.js';\n\nexport class FormattedSection {\n    text: string;\n    image: ResolvedImage | null;\n    scale: number | null;\n    fontStack: string | null;\n    textColor: Color | null;\n\n    constructor(text: string, image: ResolvedImage | null, scale: number | null, fontStack: string | null, textColor: Color | null) {\n        // combine characters so that diacritic marks are not separate code points\n        this.text = text.normalize ? text.normalize() : text;\n        this.image = image;\n        this.scale = scale;\n        this.fontStack = fontStack;\n        this.textColor = textColor;\n    }\n}\n\nexport default class Formatted {\n    sections:
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Array<FormattedSection>;\n\n    constructor(sections: Array<FormattedSection>) {\n        this.sections = sections;\n    }\n\n    static fromString(unformatted: string): Formatted {\n        return new Formatted([new FormattedSection(unformatted, null, null, null, null)]);\n    }\n\n    isEmpty(): boolean {\n        if (this.sections.length === 0) return true;\n        return !this.sections.some(section => section.text.length !== 0 ||\n            (section.image && section.image.name.length !== 0));\n    }\n\n    static factory(text: Formatted | string): Formatted {\n        if (text instanceof Formatted) {\n            return text;\n        } else {\n            return Formatted.fromString(text);\n        }\n    }\n\n    toString(): string {\n        if (this.sections.length === 0) return '';\n        return this.sections.map(section => section.text).join('');\n    }\n\n    serialize(): Array<mixed> {\n        const serialized: Array<mixed> = [\"format\"];\n        for (const section of this.sections) {\n            if (section.image) {\n                serialized.push([\"image\", section.image.name]);\n                continue;\n            }\n            serialized.push(section.text);\n            const options: { [key: string]: mixed } = {};\n            if (section.fontStack) {\n                options[\"text-font\"] = [\"literal\", section.fontStack.split(',')];\n            }\n            if (section.scale) {\n                options[\"font-scale\"] = section.scale;\n            }\n            if (section.textColor) {\n                options[\"text-color\"] = ([\"rgba\"]: Array<mixed>).concat(section.textColor.toArray());\n            }\n            serialized.push(options);\n        }\n        return serialized;\n    }\n}\n","// @flow\n\nexport type ResolvedImageOptions = {\n    name: string,\n    available: boolean\n};\n\nexport default class ResolvedImage {\n    name: string;\n    available: boolean;\n\n    constructor(options: ResolvedImageOptions) {\n        this.name = options.name;\n        this.available = options.available;\n    }\n\n    toString(): string {\n        return this.name;\n    }\n\n    static fromString(name: string): ResolvedImage | null {\n        if (!name) return null; // treat empty values as no image\n        return new ResolvedImage({name, available: false});\n    }\n\n    serialize(): Array<string> {\n        return [\"image\", this.name];\n    }\n}\n","// @flow\n\nimport assert from 'assert';\n\nimport Color from '../util/color.js';\nimport Collator from './types/collator.js';\nimport Formatted from './types/formatted.js';\nimport ResolvedImage from './types/resolved_image.js';\nimport {NullType, NumberType, StringType, BooleanType, ColorType, ObjectType, ValueType, CollatorType, FormattedType, ResolvedImageType, array} from './types.js';\n\nimport type {Type} from './types.js';\n\nexport function validateRGBA(r: mixed, g: mixed, b: mixed, a?: mixed): string | null {\n    if (!(\n        typeof r === 'number' && r >= 0 && r <= 255 &&\n        typeof g === 'number' && g >= 0 && g <= 255 &&\n        typeof b === 'number' && b >= 0 && b <= 255\n    )) {\n        const value = typeof a === 'number' ? [r, g, b, a] : [r, g, b];\n        return `Invalid rgba value [${value.join(', ')}]: 'r', 'g', and 'b' must be between 0 and 255.`;\n    }\n\n    if (!(\n        typeof a === 'undefined' || (typeof a === 'number' && a >= 0 && a <= 1)\n    )) {\n        return `Invalid rgba value [${[r, g, b, a].join(', ')}]: 'a' must be between 0 and 1.`;\n    }\n\n    return null;\n}\n\nexport type Value = null | string | boolean | number | Color | Collator | Formatted | ResolvedImage | $ReadOnlyArray<Value> | { +[string]: Value }\n\nexport function isValue(mixed: mixed): boolean {\n    if (mixed === null) {\n        return true;\n    } else if (typeof mixed === 'string') {\n        return true;\n    } else if (typeof mixed === 'boolean') {\n        return true;\n    } else if (typeof mixed === 'number') {\n        return true;\n    } else if (mixed instanceof Color) {\n        return true;\n    } else if (mixed instanceof Collator) {\n        return true;\n    } else if (mixed instanceof Formatted) {\n        return true;\n    } else if (mixed instanceof ResolvedImage) {\n        return true;\n    } else if (Array.isArray(mixed)) {\n        for (const item of mixed) {\n            if (!isValue(item)) {\n                return false;\n            }\n        }\n        return true;\n    } else if (typeof mixed === 'object') {\n        for (const key in mixed) {\n            if (!isValue(mixed[key])) {\n                return false;\n            }\n        }\n        return true;\n    } else {\n        return false;\n    }\n}\n\nexport function typeOf(value: Value): Type {\n    if (value === null) {\n        return NullType;\n    } else if (typeof value === 'string') {\n        return StringType;\n    } else if (typeof value === 'boolean') {\n        return BooleanType;\n    } else if (typeof value === 'number') {\n        return NumberType;\n    } else if (value instanceof Color) {\n        return ColorType;\n    } else if (value instanceof Collator) {\n        return CollatorType;\n    } else if (value instanceof Formatted) {\n        return FormattedType;\n    } else if (value instanceof ResolvedImage) {\n        return ResolvedImageType;\n    } else if (Array.isArray(value)) {\n        const length = value.length;\n        let itemType: Type | typeof undefined;\n\n        for (const item of value) {\n            const t = typeOf(item);\n            if (!itemType) {\n                itemType = t;\n            } else if (itemType === t) {\n                continue;\n            } else {\n                itemType = ValueType;\n                break;\n            }\n        }\n\n
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return array(itemType || ValueType, length);\n } else {\n assert(typeof value === 'object');\n return ObjectType;\n }\n}\n\nexport function toString(value: Value): string {\n const type = typeof value;\n if (value === null) {\n return '';\n } else if (type === 'string' || type === 'number' || type === 'boolean') {\n return String(value);\n } else if (value instanceof Color || value instanceof Formatted || value instanceof ResolvedImage) {\n return value.toString();\n } else {\n return JSON.stringify(value);\n }\n}\n\nexport {Color, Collator};\n","// @flow\n\nimport assert from 'assert';\nimport {isValue, typeOf, Color} from '../values.js';\nimport Formatted from '../types/formatted.js';\n\nimport type {Type} from '../types.js';\nimport type {Value} from '../values.js';\nimport type {Expression, SerializedExpression} from '../expression.js';\nimport type ParsingContext from '../parsing_context.js';\n\nclass Literal implements Expression {\n type: Type;\n value: Value;\n\n constructor(type: Type, value: Value) {\n this.type = type;\n this.value = value;\n }\n\n static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): void | Literal {\n if (args.length !== 2)\n return context.error(`'literal' expression requires exactly one argument, but found ${args.length - 1} instead.`);\n\n if (!isValue(args[1]))\n return context.error(`invalid value`);\n\n const value = (args[1]: any);\n let type = typeOf(value);\n\n // special case: infer the item type if possible for zero-length arrays\n const expected = context.expectedType;\n if (\n type.kind === 'array' &&\n type.N === 0 &&\n expected &&\n expected.kind === 'array' &&\n (typeof expected.N !== 'number' || expected.N === 0)\n) {\n type = expected;\n }\n\n return new Literal(type, value);\n }\n\n evaluate(): Value {\n return this.value;\n }\n\n eachChild() {}\n\n outputDefined(): boolean {\n return true;\n }\n\n serialize(): SerializedExpression {\n if (this.type.kind === 'array' || this.type.kind === 'object') {\n return [\"literal\", this.value];\n } else if (this.value instanceof Color) {\n // Constant-folding can generate Literal expressions that you\n // couldn't actually generate with a \"literal\" expression,\n // so we have to implement an equivalent serialization here\n return [\"rgba\"].concat(this.value.toArray());\n } else if (this.value instanceof Formatted) {\n // Same as Color\n return this.value.serialize();\n } else {\n assert(this.value === null ||\n typeof this.value === 'string' ||\n typeof this.value === 'number' ||\n typeof this.value === 'boolean');\n return (this.value: any);\n }\n }\n}\n\nexport default Literal;\n","// @flow\n\nclass RuntimeError {\n name: string;\n message: string;\n\n constructor(message: string) {\n this.name = 'ExpressionEvaluationError';\n this.message = message;\n }\n\n toJSON(): string {\n return this.message;\n }\n}\n\nexport default RuntimeError;\n","// @flow\n\nimport assert from 'assert';\n\nimport {\n ObjectType,\n ValueType,\n StringType,\n NumberType,\n BooleanType,\n checkSubtype,\n toString,\n array\n} from '../types.js';\nimport RuntimeError from '../runtime_error.js';\nimport {typeOf} from '../values.js';\n\nimport type {Expression, SerializedExpression} from '../expression.js';\nimport type ParsingContext from '../parsing_context.js';\nimport type EvaluationContext from '../evaluation_context.js';\nimport type {Type} from '../types.js';\n\nconst types = {\n string: StringType,\n number: NumberType,\n boolean: BooleanType,\n object: ObjectType\n};\n\nclass Assertion implements Expression {\n type: Type;\n args: Array<Expression>;\n\n constructor(type: Type, args: Array<Expression>) {\n this.type = type;\n this.args = args;\n }\n\n static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?Expression {\n if (args.length < 2)\n return context.error(`Expected at least one argument.`);\n\n let i = 1;\n let type;\n\n const name: string = (args[0]: any);\n if (name === 'array') {\n let itemType;\n if (args.length > 2) {\n const type = args[1];\n if (typeof type !== 'string' || !(type in types) || type === 'object')\n return context.error('The item type argument of \"array\" must be one of string, number, boolean', 1);\n itemType = types[type];\n i++;\n } else {\n itemType = ValueType;\n }\n\n let N;\n if (args.length > 3) {\n if (args[2] !== null &&\n (typeof args[2] !== 'number' ||\n args[2] < 0 ||\n args[2] !== Math.floor(args[2]))\n) {\n return context.error('The length argument to \"array\" must be a positive integer literal', 2);\n }\n N = args[2];\n i++;\n }\n\n type = array(itemType, N);\n } else {\n assert(types[name], name);\n type = types[name];\n }\n\n const parsed = [];\n for (; i < args.length; i++) {\n const input = context.parse(args[i], i, ValueType);\n if (!input) return null;\n parsed.push(input);\n }\n\n return new Assertion(type, parsed);\n }\n\n evaluate(ctx:

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EvaluationContext): any | null {\n        for (let i = 0; i < this.args.length; i++) {\n            const value = this.args[i].evaluate(ctx);\n            const error = checkSubtype(this.type, typeOf(value));\n            if (!error) {\n                return value;\n            } else if (i === this.args.length - 1) {\n                throw new RuntimeError(`Expected value to be of type ${toString(this.type)}, but found ${toString(typeOf(value))} instead.`);\n            }\n        }\n\n        assert(false);\n        return null;\n    }\n\n    eachChild(fn: (_: Expression) => void) {\n        this.args.forEach(fn);\n    }\n\n    outputDefined(): boolean {\n        return this.args.every(arg => arg.outputDefined());\n    }\n\n    serialize(): SerializedExpression {\n        const type = this.type;\n        const serialized = [type.kind];\n        if (type.kind === 'array') {\n            const itemType = type.itemType;\n            if (itemType.kind === 'string' ||\n                itemType.kind === 'number' ||\n                itemType.kind === 'boolean') {\n                serialized.push(itemType.kind);\n                const N = type.N;\n                if (typeof N === 'number' || this.args.length > 1) {\n                    serialized.push(N);\n                }\n            }\n        }\n        return serialized.concat(this.args.map(arg => arg.serialize()));\n    }\n}\n\nexport default Assertion;\n","'// @flow\n\nimport {NumberType, ValueType, FormattedType, array, StringType, ColorType, ResolvedImageType} from '../types.js';\nimport Formatted, {FormattedSection} from '../types/formatted.js';\nimport {toString, typeOf} from '../values.js';\n\nimport type {Expression, SerializedExpression} from '../expression.js';\nimport type EvaluationContext from '../evaluation_context.js';\nimport type ParsingContext from '../parsing_context.js';\nimport type {Type} from '../types.js';\n\ntype FormattedSectionExpression = {\n    // Content of a section may be Image expression or other\n    // type of expression that is coercable to 'string'.\n    content: Expression,\n    scale: Expression | null;\n    font: Expression | null;\n    textColor: Expression | null;\n}\n\nexport default class FormatExpression implements Expression {\n    type: Type;\n    sections: Array<FormattedSectionExpression>;\n\n    constructor(sections: Array<FormattedSectionExpression>) {\n        this.type = FormattedType;\n        this.sections = sections;\n    }\n\n    static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?Expression {\n        if (args.length < 2) {\n            return context.error(`Expected at least one argument.`);\n        }\n\n        const firstArg = args[1];\n        if (!Array.isArray(firstArg) && typeof firstArg === 'object')  {\n            return context.error(`First argument must be an image or text section.`);\n        }\n\n        const sections: Array<FormattedSectionExpression> = [];\n        let nextTokenMayBeObject = false;\n        for (let i = 1; i <= args.length - 1; ++i) {\n            const arg = (args[i]: any);\n\n            if (nextTokenMayBeObject && typeof arg === \"object\" && !Array.isArray(arg)) {\n                nextTokenMayBeObject = false;\n\n                let scale = null;\n                if (arg['font-scale']) {\n                    scale = context.parse(arg['font-scale'], 1, NumberType);\n                    if (!scale) return null;\n                }\n\n                let font = null;\n                if (arg['text-font']) {\n                    font = context.parse(arg['text-font'], 1, array(StringType));\n                    if (!font) return null;\n                }\n\n                let textColor = null;\n                if (arg['text-color']) {\n                    textColor = context.parse(arg['text-color'], 1, ColorType);\n                    if (!textColor) return null;\n                }\n\n                const lastExpression = sections[sections.length - 1];\n                lastExpression.scale = scale;\n                lastExpression.font = font;\n                lastExpression.textColor = textColor;\n            } else {\n                const content = context.parse(args[i], 1, ValueType);\n                if (!content) return null;\n\n                const kind = content.type.kind;\n                if (kind !== 'string' && kind !== 'value' && kind !== 'null' && kind !== 'resolvedImage')\n                    return context.error(`Formatted text type must be 'string', 'value', 'image' or 'null'.`);\n\n                nextTokenMayBeObject = true;\n                sections.push({content, scale: null, font: null, textColor: null});\n            }\n        }\n\n        return new FormatExpression(sections);\n    }\n\n    evaluate(ctx: EvaluationContext): Formatted {\n        const evaluateSection = section => {\n            const evaluatedContent = section.content.evaluate(ctx);\n            if (typeOf(evaluatedContent) === ResolvedImageType) {\n                return new FormattedSection('', evaluatedContent, null, null, null);\n            }\n\n            return new FormattedSection(\n                toString(evaluatedContent),\n                null,\n                section.scale ? section.scale.evaluate(ctx) : null,\n                section.font ? section.font.evaluate(ctx).join(',') : null,\n                section.textColor ? section.textColor.evaluate(ctx) : null\n            );\n        };\n\n        return new Formatted(this.sections.map(evaluateSection));\n    }\n\n    eachChild(fn: (_: Expression) => void) {\n        for (const section of this.sections) {\n            fn(section.content);\n            if (section.scale) {\n                fn(section.scale);\n            }\n            if (section.font) {\n                fn(section.font);\n            }\n            if (section.textColor) {\n
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fn(section.textColor);\n }\n }\n }\n\n outputDefined(): boolean {\n // Technically the combinatoric set of all children\n // Usually, this.text will be undefined anyway\n return false;\n }\n\n serialize(): SerializedExpression {\n const serialized = [\"format\"];\n for (const section of this.sections) {\n serialized.push(section.content.serialize());\n const options = {};\n if (section.scale) {\n options['font-scale'] = section.scale.serialize();\n }\n if (section.font) {\n options['text-font'] = section.font.serialize();\n }\n if (section.textColor) {\n options['text-color'] = section.textColor.serialize();\n }\n serialized.push(options);\n }\n return serialized;\n }\n}\n","// @flow\n\nimport {ResolvedImageType, StringType} from '../types.js';\nimport ResolvedImage from '../types/resolved_image.js';\n\nimport type {Expression, SerializedExpression} from '../expression.js';\nimport type EvaluationContext from '../evaluation_context.js';\nimport type ParsingContext from '../parsing_context.js';\nimport type {Type} from '../types.js';\n\nexport default class ImageExpression implements Expression {\n type: Type;\n input: Expression;\n\n constructor(input: Expression) {\n this.type = ResolvedImageType;\n this.input = input;\n }\n\n static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?Expression {\n if (args.length !== 2) {\n return context.error(`Expected two arguments.`);\n }\n\n const name = context.parse(args[1], 1, StringType);\n if (!name) return context.error(`No image name provided.`);\n\n return new ImageExpression(name);\n }\n\n evaluate(ctx: EvaluationContext): null | ResolvedImage {\n const evaluatedImageName = this.input.evaluate(ctx);\n\n const value = ResolvedImage.fromString(evaluatedImageName);\n if (value && ctx.availableImages) value.available = ctx.availableImages.indexOf(evaluatedImageName) > -1;\n\n return value;\n }\n\n eachChild(fn: (_: Expression) => void) {\n fn(this.input);\n }\n\n outputDefined(): boolean {\n // The output of image is determined by the list of available images in the evaluation context\n return false;\n }\n\n serialize(): SerializedExpression {\n return [\"image\", this.input.serialize()];\n }\n}\n","// @flow\n\nimport assert from 'assert';\n\nimport {BooleanType, ColorType, NumberType, StringType, ValueType} from '../types.js';\nimport {Color, toString as valueToString, validateRGBA} from '../values.js';\nimport RuntimeError from '../runtime_error.js';\nimport Formatted from '../types/formatted.js';\nimport FormatExpression from '../definitions/format.js';\nimport ImageExpression from '../definitions/image.js';\nimport ResolvedImage from '../types/resolved_image.js';\n\nimport type {Expression, SerializedExpression} from '../expression.js';\nimport type ParsingContext from '../parsing_context.js';\nimport type EvaluationContext from '../evaluation_context.js';\nimport type {Type} from '../types.js';\n\nconst types = {\n 'to-boolean': BooleanType,\n 'to-color': ColorType,\n 'to-number': NumberType,\n 'to-string': StringType\n};\n\n/**\n * Special form for error-coalescing coercion expressions \"to-number\",\n * \"to-color\". Since these coercions can fail at runtime, they accept multiple\n * arguments, only evaluating one at a time until one succeeds.\n *\n * @private\n */\nclass Coercion implements Expression {\n type: Type;\n args: Array<Expression>;\n\n constructor(type: Type, args: Array<Expression>) {\n this.type = type;\n this.args = args;\n }\n\n static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?Expression {\n if (args.length < 2)\n return context.error(`Expected at least one argument.`);\n\n const name: string = (args[0]: any);\n assert(types[name], name);\n\n if ((name === 'to-boolean' || name === 'to-string') && args.length !== 2)\n return context.error(`Expected one argument.`);\n\n const type = types[name];\n\n const parsed = [];\n for (let i = 1; i < args.length; i++) {\n const input = context.parse(args[i], i, ValueType);\n if (!input) return null;\n parsed.push(input);\n }\n\n return new Coercion(type, parsed);\n }\n\n evaluate(ctx: EvaluationContext): null | boolean | number | string | Color | Formatted | ResolvedImage {\n if (this.type.kind === 'boolean') {\n return Boolean(this.args[0].evaluate(ctx));\n } else if (this.type.kind === 'color') {\n let input;\n let error;\n for (const arg of this.args) {\n input = arg.evaluate(ctx);\n error = null;\n if (input instanceof Color) {\n return input;\n } else if (typeof input === 'string') {\n const c = ctx.parseColor(input);\n if (c) return c;\n } else if (Array.isArray(input)) {\n if (input.length < 3 || input.length > 4) {\n error = `Invalid rbga value ${JSON.stringify(input)}: expected an array containing either three or four numeric values.`;\n } else {\n error = validateRGBA(input[0], input[1], input[2], input[3]);\n }\n if

(!error) {\n return new Color((input[0]: any) / 255, (input[1]: any) / 255, (input[2]: any) / 255, (input[3]: any));\n }\n }\n }\n throw new RuntimeError(error || `Could not parse color from value '${typeof input === 'string' ? input : String(JSON.stringify(input))}'`);\n } else if (this.type.kind === 'number') {\n let value = null;\n for (const arg of this.args) {\n value = arg.evaluate(ctx);\n if (value === null) return 0;\n const num = Number(value);\n if (isNaN(num)) continue;\n return num;\n }\n throw new RuntimeError(`Could not convert ${JSON.stringify(value)} to number.`);\n } else if (this.type.kind === 'formatted') {\n // There is no explicit 'to-formatted' but this coercion can be implicitly\n // created by properties that expect the 'formatted' type.\n return Formatted.fromString(valueToString(this.args[0].evaluate(ctx)));\n } else if (this.type.kind === 'resolvedImage') {\n return ResolvedImage.fromString(valueToString(this.args[0].evaluate(ctx)));\n } else {\n return valueToString(this.args[0].evaluate(ctx));\n }\n }\n\n eachChild(fn: (_: Expression) => void) {\n this.args.forEach(fn);\n }\n\n outputDefined(): boolean {\n return this.args.every(arg => arg.outputDefined());\n }\n\n serialize(): SerializedExpression {\n if (this.type.kind === 'formatted') {\n return new FormatExpression([{content: this.args[0], scale: null, font: null, textColor: null}]).serialize();\n }\n\n if (this.type.kind === 'resolvedImage') {\n return new ImageExpression(this.args[0]).serialize();\n }\n\n const serialized = [`to-${this.type.kind}`];\n this.eachChild(child => { serialized.push(child.serialize()); });\n return serialized;\n }\n}\n\nexport default Coercion;\n","// @flow\n\nimport {Color} from './values.js';\n\nimport type Point from '@mapbox/point-geometry';\nimport type {FormattedSection} from './types/formatted.js';\nimport type {GlobalProperties, Feature, FeatureState} from './index.js';\nimport type {CanonicalTileID} from '../../source/tile_id.js';\nimport type {FeatureDistanceData} from '../feature_filter/index.js';\n\nconst geometryTypes = ['Unknown', 'Point', 'LineString', 'Polygon'];\n\nclass EvaluationContext {\n globals: GlobalProperties;\n feature: ?Feature;\n featureState: ?FeatureState;\n formattedSection: ?FormattedSection;\n availableImages: ?Array<string>;\n canonical: null | CanonicalTileID;\n featureTileCoord: ?Point;\n featureDistanceData: ?FeatureDistanceData;\n\n _parseColorCache: {[_: string]: ?Color};\n\n constructor() {\n this.globals = (null: any);\n this.feature = null;\n this.featureState = null;\n this.formattedSection = null;\n this._parseColorCache = {};\n this.availableImages = null;\n this.canonical = null;\n this.featureTileCoord = null;\n this.featureDistanceData = null;\n }\n\n id(): number | null {\n return this.feature && this.feature.id !== undefined ? this.feature.id : null;\n }\n\n geometryType(): null | string {\n return this.feature ? typeof this.feature.type === 'number' ? geometryTypes[this.feature.type] : this.feature.type : null;\n }\n\n geometry(): ?Array<Array<Point>> {\n return this.feature && 'geometry' in this.feature ? this.feature.geometry : null;\n }\n\n canonicalID(): null | CanonicalTileID {\n return this.canonical;\n }\n\n properties(): {[string]: any} {\n return (this.feature && this.feature.properties) || {};\n }\n\n distanceFromCenter(): number {\n if (this.featureTileCoord && this.featureDistanceData) {\n\n const c = this.featureDistanceData.center;\n const scale = this.featureDistanceData.scale;\n const {x, y} = this.featureTileCoord;\n\n // Calculate the distance vector `d` (left handed)\n const dX = x * scale - c[0];\n const dY = y * scale - c[1];\n\n // The bearing vector `b` (left handed)\n const bX = this.featureDistanceData.bearing[0];\n const bY = this.featureDistanceData.bearing[1];\n\n // Distance is calculated as `dot(d, v)`\n const dist = (bX * dX + bY * dY);\n return dist;\n }\n\n return 0;\n }\n\n parseColor(input: string): ?Color {\n let cached = this._parseColorCache[input];\n if (!cached) {\n cached = this._parseColorCache[input] = Color.parse(input);\n }\n return cached;\n }\n}\n\nexport default EvaluationContext;\n","// @flow\n\nimport {toString} from './types.js';\n\nimport ParsingContext from './parsing_context.js';\nimport EvaluationContext from './evaluation_context.js';\nimport assert from 'assert';\n\nimport type {Expression, ExpressionRegistry} from './expression.js';\nimport type {Type} from './types.js';\nimport type {Value} from './values.js';\n\nexport type Varargs = {| type: Type |};\ntype Signature = Array<Type> | Varargs;\ntype Evaluate = (EvaluationContext, Array<Expression>) => Value;\ntype Definition = [Type, Signature, Evaluate] |\n {|type: Type, overloads: Array<[Signature, Evaluate]>|};\n\nclass CompoundExpression implements Expression {\n name: string;\n type: Type;\n _evaluate: Evaluate;\n args: Array<Expression>;\n\n static definitions: {[_:

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string]: Definition };\n\n    constructor(name: string, type: Type, evaluate: Evaluate, args: Array<Expression>) {\n      this.name = name;\n        this.type = type;\n        this._evaluate = evaluate;\n        this.args = args;\n    }\n\n    evaluate(ctx: EvaluationContext): Value {\n        return this._evaluate(ctx, this.args);\n    }\n\n    eachChild(fn: (_: Expression) => void) {\n        this.args.forEach(fn);\n    }\n\n    outputDefined(): boolean {\n        return false;\n    }\n\n    serialize(): Array<mixed> {\n        return [this.name].concat(this.args.map(arg => arg.serialize()));\n    }\n\n    static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?Expression {\n        const op: string = (args[0]: any);\n        const definition = CompoundExpression.definitions[op];\n        if (!definition) {\n            return context.error(`Unknown expression \"${op}\". If you wanted a literal array, use [\"literal\", [...]].`, 0);\n        }\n\n        // Now check argument types against each signature\n        const type = Array.isArray(definition) ?\n            definition[0] : definition.type;\n\n        const availableOverloads = Array.isArray(definition) ?\n            [[definition[1], definition[2]]] :\n            definition.overloads;\n\n        const overloads = availableOverloads.filter(([signature]) => (\n            !Array.isArray(signature) || // varags\n            signature.length === args.length - 1 // correct param count\n        ));\n\n        let signatureContext: ParsingContext = (null: any);\n\n        for (const [params, evaluate] of overloads) {\n            // Use a fresh context for each attempted signature so that, if\n            // we eventually succeed, we haven't polluted `context.errors`.\n            signatureContext = new ParsingContext(context.registry, context.path, null, context.scope);\n\n            // First parse all the args, potentially coercing to the\n            // types expected by this overload.\n            const parsedArgs: Array<Expression> = [];\n            let argParseFailed = false;\n            for (let i = 1; i < args.length; i++) {\n                const arg = args[i];\n                const expectedType = Array.isArray(params) ?\n                    params[i - 1] :\n                    params.type;\n\n                const parsed = signatureContext.parse(arg, 1 + parsedArgs.length, expectedType);\n                if (!parsed) {\n                    argParseFailed = true;\n                    break;\n                }\n                parsedArgs.push(parsed);\n            }\n            if (argParseFailed) {\n                // Couldn't coerce args of this overload to expected type, move\n                // on to next one.\n                continue;\n            }\n\n            if (Array.isArray(params)) {\n                if (params.length !== parsedArgs.length) {\n                    signatureContext.error(`Expected ${params.length} arguments, but found ${parsedArgs.length} instead.`);\n                    continue;\n                }\n            }\n\n            for (let i = 0; i < parsedArgs.length; i++) {\n                const expected = Array.isArray(params) ? params[i] : params.type;\n                const arg = parsedArgs[i];\n                signatureContext.concat(i + 1).checkSubtype(expected, arg.type);\n            }\n\n            if (signatureContext.errors.length === 0) {\n                return new CompoundExpression(op, type, evaluate, parsedArgs);\n            }\n        }\n\n        assert(!signatureContext || signatureContext.errors.length > 0);\n\n        if (overloads.length === 1) {\n            context.errors.push(...signatureContext.errors);\n        } else {\n            const expected = overloads.length ? overloads : availableOverloads;\n            const signatures = expected\n                .map(([params]) => stringifySignature(params))\n                .join(' | ');\n\n            const actualTypes = [];\n            // For error message, re-parse arguments without trying to\n            // apply any coercions\n            for (let i = 1; i < args.length; i++) {\n                const parsed = context.parse(args[i], 1 + actualTypes.length);\n                if (!parsed) return null;\n                actualTypes.push(toString(parsed.type));\n            }\n            context.error(`Expected arguments of type ${signatures}, but found (${actualTypes.join(', ')}) instead.`);\n        }\n\n        return null;\n    }\n\n    static register(\n        registry: ExpressionRegistry,\n        definitions: {[_: string]: Definition }\n    ) {\n        assert(!CompoundExpression.definitions);\n        CompoundExpression.definitions = definitions;\n        for (const name in definitions) {\n            registry[name] = CompoundExpression;\n        }\n    }\n}\n\nfunction stringifySignature(signature: Signature): string {\n    if (Array.isArray(signature)) {\n        return `(${signature.map(toString).join(', ')})`;\n    } else {\n        return `(${toString(signature.type)}...)`;\n    }\n}\n\nexport default CompoundExpression;\n","// @flow\n\nimport {StringType, BooleanType, CollatorType} from '../types.js';\nimport Collator from '../types/collator.js';\n\nimport type {Expression, SerializedExpression} from '../expression.js';\nimport type EvaluationContext from '../evaluation_context.js';\nimport type ParsingContext from '../parsing_context.js';\nimport type {Type} from '../types.js';\n\nexport default class CollatorExpression implements Expression {\n    type: Type;\n    caseSensitive: Expression;\n    diacriticSensitive: Expression;\n    locale: Expression | null;\n\n    constructor(caseSensitive: Expression, diacriticSensitive: Expression, locale: Expression | null) {\n        this.type = CollatorType;\n        this.locale = locale;\n        this.caseSensitive =
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caseSensitive;\n   this.diacriticSensitive = diacriticSensitive;\n   }\n\n   static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?Expression {\n   if (args.length !== 2)\n   return context.error(`Expected one argument.`);\n\n   const options = (args[1]: any);\n   if (typeof options !== \"object\" || Array.isArray(options))\n   return context.error(`Collator options argument must be an object.`);\n\n   const caseSensitive = context.parse(\n   options['case-sensitive'] === undefined ? false : options['case-sensitive'], 1, BooleanType);\n   if (!caseSensitive) return null;\n\n   const diacriticSensitive = context.parse(\n   options['diacritic-sensitive'] === undefined ? false : options['diacritic-sensitive'], 1, BooleanType);\n   if (!diacriticSensitive) return null;\n\n   let locale = null;\n   if (options['locale']) {\n   locale = context.parse(options['locale'], 1, StringType);\n   if (!locale) return null;\n   }\n\n   return new CollatorExpression(caseSensitive, diacriticSensitive, locale);\n   }\n\n   evaluate(ctx: EvaluationContext): Collator {\n   return new Collator(this.caseSensitive.evaluate(ctx), this.diacriticSensitive.evaluate(ctx), this.locale ? this.locale.evaluate(ctx) : null);\n   }\n\n   eachChild(fn: (_: Expression) => void) {\n   fn(this.caseSensitive);\n   fn(this.diacriticSensitive);\n   if (this.locale) {\n   fn(this.locale);\n   }\n   }\n\n   outputDefined(): boolean {\n   // Technically the set of possible outputs is the combinatoric set of Collators produced\n   // by all possible outputs of locale/caseSensitive/diacriticSensitive\n   // But for the primary use of Collators in comparison operators, we ignore the Collator's\n   // possible outputs anyway, so we can get away with leaving this false for now.\n   return false;\n   }\n\n   serialize(): SerializedExpression {\n   const options = {};\n   options['case-sensitive'] = this.caseSensitive.serialize();\n   options['diacritic-sensitive'] = this.diacriticSensitive.serialize();\n   if (this.locale) {\n   options['locale'] = this.locale.serialize();\n   }\n   return [\"collator\", options];\n   }\n}\n","// @flow\n\nimport {isValue} from '../values.js';\nimport type {Type} from '../types.js';\nimport {BooleanType} from '../types.js';\nimport type {Expression, SerializedExpression} from '../expression.js';\nimport type ParsingContext from '../parsing_context.js';\nimport type EvaluationContext from '../evaluation_context.js';\nimport type {GeoJSON, GeoJSONPolygon, GeoJSONMultiPolygon} from '@mapbox/geojson-types';\nimport type {CanonicalTileID} from '../../../source/tile_id.js';\n\ntype GeoJSONPolygons =| GeoJSONPolygon | GeoJSONMultiPolygon;\n\n// minX, minY, maxX, maxY\ntype BBox = [number, number, number, number];\nconst EXTENT = 8192;\n\nfunction updateBBox(bbox: BBox, coord: [number, number]) {\n   bbox[0] = Math.min(bbox[0], coord[0]);\n   bbox[1] = Math.min(bbox[1], coord[1]);\n   bbox[2] = Math.max(bbox[2], coord[0]);\n   bbox[3] = Math.max(bbox[3], coord[1]);\n}\n\nfunction mercatorXfromLng(lng: number) {\n   return (180 + lng) / 360;\n}\n\nfunction mercatorYfromLat(lat: number) {\n   return (180 - (180 / Math.PI * Math.log(Math.tan(Math.PI / 4 + lat * Math.PI / 360)))) / 360;\n}\n\nfunction boxWithinBox(bbox1: BBox, bbox2: BBox) {\n   if (bbox1[0] <= bbox2[0]) return false;\n   if (bbox1[2] >= bbox2[2]) return false;\n   if (bbox1[1] <= bbox2[1]) return false;\n   if (bbox1[3] >= bbox2[3]) return false;\n   return true;\n}\n\nfunction getTileCoordinates(p, canonical: CanonicalTileID) {\n   const x = mercatorXfromLng(p[0]);\n   const y = mercatorYfromLat(p[1]);\n   const tilesAtZoom = Math.pow(2, canonical.z);\n   return [Math.round(x * tilesAtZoom * EXTENT), Math.round(y * tilesAtZoom * EXTENT)];\n}\n\nfunction onBoundary(p, p1, p2) {\n   const x1 = p[0] - p1[0];\n   const y1 = p[1] - p1[1];\n   const x2 = p[0] - p2[0];\n   const y2 = p[1] - p2[1];\n   return (x1 * y2 - x2 * y1 === 0) && (x1 * x2 <= 0) && (y1 * y2 <= 0);\n}\n\nfunction rayIntersect(p, p1, p2) {\n   return ((p1[1] > p[1]) !== (p2[1] > p[1])) && (p[0] < (p2[0] - p1[0]) * (p[1] - p1[1]) / (p2[1] - p1[1]) + p1[0]);\n}\n\n// ray casting algorithm for detecting if point is in polygon\nfunction pointWithinPolygon(point, rings) {\n   let inside = false;\n   for (let i = 0, len = rings.length; i < len; i++) {\n   const ring = rings[i];\n   for (let j = 0, len2 = ring.length; j < len2 - 1; j++) {\n   if (onBoundary(point, ring[j], ring[j + 1])) return false;\n   if (rayIntersect(point, ring[j], ring[j + 1])) inside = !inside;\n   }\n   }\n   return inside;\n}\n\nfunction pointWithinPolygons(point, polygons) {\n   for (let i = 0; i < polygons.length; i++) {\n   if (pointWithinPolygon(point, polygons[i])) return true;\n   }\n   return false;\n}\n\nfunction perp(v1, v2) {\n   return (v1[0] * v2[1] - v1[1] * v2[0]);\n}\n\n// check if p1 and p2 are in different sides of line segment q1->q2\nfunction twoSided(p1, p2, q1, q2) {\n   // q1->p1 (x1, y1), q1->p2 (x2, y2), q1->q2 (x3, y3)\n   const x1 = p1[0] - q1[0];\n   const y1 = p1[1] - q1[1];\n   const x2 = p2[0] - q1[0];\n   const y2 = p2[1] - q1[1];\n   const x3 = q2[0] - q1[0];\n   const y3 = q2[1] - q1[1];\n   const det1 = (x1 * y3 - x3 * y1);\n

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const det2 =  (x2 * y3 - x3 * y2);\n    if ((det1 > 0 && det2 < 0) || (det1 < 0 && det2 > 0)) return true;\n    return false;\n}\n// a, b are end points for line segment1, c and d are end points for line segment2\nfunction lineIntersectLine(a, b, c, d) {\n    // check if two segments are parallel or not\n    // precondition is end point a, b is inside polygon, if line a->b is\n    // parallel to polygon edge c->d, then a->b won't intersect with c->d\n    const vectorP = [b[0] - a[0], b[1] - a[1]];\n    const vectorQ = [d[0] - c[0], d[1] - c[1]];\n    if (perp(vectorQ, vectorP) === 0) return false;\n\n    // If lines are intersecting with each other, the relative location should be:\n    // a and b lie in different sides of segment c->d\n    // c and d lie in different sides of segment a->b\n    if (twoSided(a, b, c, d) && twoSided(c, d, a, b)) return true;\n    return false;\n}\n\nfunction lineIntersectPolygon(p1, p2, polygon) {\n    for (const ring of polygon) {\n        // loop through every edge of the ring\n        for (let j = 0; j < ring.length - 1; ++j) {\n            if (lineIntersectLine(p1, p2, ring[j], ring[j + 1])) {\n                return true;\n            }\n        }\n    }\n    return false;\n}\n\nfunction lineStringWithinPolygon(line, polygon) {\n    // First, check if geometry points of line segments are all inside polygon\n    for (let i = 0; i < line.length; ++i) {\n        if (!pointWithinPolygon(line[i], polygon)) {\n            return false;\n        }\n    }\n\n    // Second, check if there is line segment intersecting polygon edge\n    for (let i = 0; i < line.length - 1; ++i) {\n        if (lineIntersectPolygon(line[i], line[i + 1], polygon)) {\n            return false;\n        }\n    }\n    return true;\n}\n\nfunction lineStringWithinPolygons(line, polygons) {\n    for (let i = 0; i < polygons.length; i++) {\n        if (lineStringWithinPolygon(line, polygons[i])) return true;\n    }\n    return false;\n}\n\nfunction getTilePolygon(coordinates, bbox: BBox, canonical: CanonicalTileID) {\n    const polygon = [];\n    for (let i = 0; i < coordinates.length; i++) {\n        const ring = [];\n        for (let j = 0; j < coordinates[i].length; j++) {\n            const coord = getTileCoordinates(coordinates[i][j], canonical);\n            updateBBox(bbox, coord);\n            ring.push(coord);\n        }\n        polygon.push(ring);\n    }\n    return polygon;\n}\n\nfunction getTilePolygons(coordinates, bbox, canonical: CanonicalTileID) {\n    const polygons = [];\n    for (let i = 0; i < coordinates.length; i++) {\n        const polygon = getTilePolygon(coordinates[i], bbox, canonical);\n        polygons.push(polygon);\n    }\n    return polygons;\n}\n\nfunction updatePoint(p, bbox, polyBBox, worldSize) {\n    if (p[0] < polyBBox[0] || p[0] > polyBBox[2]) {\n        const halfWorldSize = worldSize * 0.5;\n        let shift = (p[0] - polyBBox[0] > halfWorldSize) ? -worldSize : (polyBBox[0] - p[0] > halfWorldSize) ? worldSize : 0;\n        if (shift === 0) {\n            shift = (p[0] - polyBBox[2] > halfWorldSize) ? -worldSize : (polyBBox[2] - p[0] > halfWorldSize) ? worldSize : 0;\n        }\n        p[0] += shift;\n    }\n    updateBBox(bbox, p);\n}\n\nfunction resetBBox(bbox) {\n    bbox[0] = bbox[1] = Infinity;\n    bbox[2] = bbox[3] = -Infinity;\n}\n\nfunction getTilePoints(geometry, pointBBox, polyBBox, canonical: CanonicalTileID) {\n    const worldSize = Math.pow(2, canonical.z) * EXTENT;\n    const shifts = [canonical.x * EXTENT, canonical.y * EXTENT];\n    const tilePoints = [];\n    if (!geometry) return tilePoints;\n    for (const points of geometry) {\n        for (const point of points) {\n            const p = [point.x + shifts[0], point.y + shifts[1]];\n            updatePoint(p, pointBBox, polyBBox, worldSize);\n            tilePoints.push(p);\n        }\n    }\n    return tilePoints;\n}\n\nfunction getTileLines(geometry, lineBBox, polyBBox, canonical: CanonicalTileID) {\n    const worldSize = Math.pow(2, canonical.z) * EXTENT;\n    const shifts = [canonical.x * EXTENT, canonical.y * EXTENT];\n    const tileLines = [];\n    if (!geometry) return tileLines;\n    for (const line of geometry) {\n        const tileLine = [];\n        for (const point of line) {\n            const p = [point.x + shifts[0], point.y + shifts[1]];\n            updateBBox(lineBBox, p);\n            tileLine.push(p);\n        }\n        tileLines.push(tileLine);\n    }\n    if (lineBBox[2] - lineBBox[0] <= worldSize / 2) {\n        resetBBox(lineBBox);\n        for (const line of tileLines) {\n            for (const p of line) {\n                updatePoint(p, lineBBox, polyBBox, worldSize);\n            }\n        }\n    }\n    return tileLines;\n}\n\nfunction pointsWithinPolygons(ctx: EvaluationContext, polygonGeometry: GeoJSONPolygons) {\n    const pointBBox = [Infinity, Infinity, -Infinity, -Infinity];\n    const polyBBox = [Infinity, Infinity, -Infinity, -Infinity];\n\n    const canonical = ctx.canonicalID();\n    if (!canonical) {\n        return false;\n    }\n\n    if (polygonGeometry.type === 'Polygon') {\n        const tilePolygon = getTilePolygon(polygonGeometry.coordinates, polyBBox, canonical);\n        const tilePoints = getTilePoints(ctx.geometry(), pointBBox, polyBBox, canonical);\n        if (!boxWithinBox(pointBBox, polyBBox)) return false;\n\n        for (const point of tilePoints) {\n            if (!pointWithinPolygon(point, tilePolygon)) return false;\n        }\n    }\n    if (polygonGeometry.type === 'MultiPolygon') {\n        const tilePolygons = getTilePolygons(polygonGeometry.coordinates, polyBBox,
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canonical);\n const tilePoints = getTilePoints(ctx.geometry(), pointBBox, polyBBox, canonical);\n if (!boxWithinBox(pointBBox, polyBBox)) return false;\n\n for (const point of tilePoints) {\n if (!pointWithinPolygons(point, tilePolygons)) return false;\n }\n }\n\n return true;\n}\n\nfunction linesWithinPolygons(ctx: EvaluationContext, polygonGeometry: GeoJSONPolygons) {\n const lineBBox = [Infinity, Infinity, -Infinity, -Infinity];\n const polyBBox = [Infinity, Infinity, -Infinity, -Infinity];\n\n const canonical = ctx.canonicalID();\n if (!canonical) {\n return false;\n }\n\n if (polygonGeometry.type === 'Polygon') {\n const tilePolygon = getTilePolygon(polygonGeometry.coordinates, polyBBox, canonical);\n const tileLines = getTileLines(ctx.geometry(), lineBBox, polyBBox, canonical);\n if (!boxWithinBox(lineBBox, polyBBox)) return false;\n\n for (const line of tileLines) {\n if (!lineStringWithinPolygon(line, tilePolygon)) return false;\n }\n }\n if (polygonGeometry.type === 'MultiPolygon') {\n const tilePolygons = getTilePolygons(polygonGeometry.coordinates, polyBBox, canonical);\n const tileLines = getTileLines(ctx.geometry(), lineBBox, polyBBox, canonical);\n if (!boxWithinBox(lineBBox, polyBBox)) return false;\n\n for (const line of tileLines) {\n if (!lineStringWithinPolygons(line, tilePolygons)) return false;\n }\n }\n return true;\n}\n\nclass Within implements Expression {\n type: Type;\n geojson: GeoJSON\n geometries: GeoJSONPolygons;\n\n constructor(geojson: GeoJSON, geometries: GeoJSONPolygons) {\n this.type = BooleanType;\n this.geojson = geojson;\n this.geometries = geometries;\n }\n\n static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?Within {\n if (args.length !== 2)\n return context.error(`'within' expression requires exactly one argument, but found ${args.length - 1} instead.`);\n if (isValue(args[1])) {\n const geojson = (args[1]: Object);\n if (geojson.type === 'FeatureCollection') {\n for (let i = 0; i < geojson.features.length; ++i) {\n const type = geojson.features[i].geometry.type;\n if (type === 'Polygon' || type === 'MultiPolygon') {\n return new Within(geojson, geojson.features[i].geometry);\n }\n }\n } else if (geojson.type === 'Feature') {\n const type = geojson.geometry.type;\n if (type === 'Polygon' || type === 'MultiPolygon') {\n return new Within(geojson, geojson.geometry);\n }\n } else if (geojson.type === 'Polygon' || geojson.type === 'MultiPolygon') {\n return new Within(geojson, geojson);\n }\n }\n return context.error(`'within' expression requires valid geojson object that contains polygon geometry type.`);\n }\n\n evaluate(ctx: EvaluationContext): boolean {\n if (ctx.geometry() != null && ctx.canonicalID() != null) {\n if (ctx.geometryType() === 'Point') {\n return pointsWithinPolygons(ctx, this.geometries);\n } else if (ctx.geometryType() === 'LineString') {\n return linesWithinPolygons(ctx, this.geometries);\n }\n }\n return false;\n }\n\n eachChild() {}\n\n outputDefined(): boolean {\n return true;\n }\n\n serialize(): SerializedExpression {\n return [\"within\", this.geojson];\n }\n\n}\n\nexport default Within;\n","// @flow\n\nimport CompoundExpression from './compound_expression.js';\nimport Within from './definitions/within.js';\nimport type {Expression} from './expression.js';\n\nfunction isFeatureConstant(e: Expression): boolean {\n if (e instanceof CompoundExpression) {\n if (e.name === 'get' && e.args.length === 1) {\n return false;\n } else if (e.name === 'feature-state') {\n return false;\n } else if (e.name === 'has' && e.args.length === 1) {\n return false;\n } else if (\n e.name === 'properties' ||\n e.name === 'geometry-type' ||\n e.name === 'id'\n) {\n return false;\n } else if (/^filter-/.test(e.name)) {\n return false;\n }\n }\n\n if (e instanceof Within) {\n return false;\n }\n\n let result = true;\n e.eachChild(arg => {\n if (result && !isFeatureConstant(arg)) { result = false; }\n });\n return result;\n}\n\nfunction isStateConstant(e: Expression): boolean {\n if (e instanceof CompoundExpression) {\n if (e.name === 'feature-state') {\n return false;\n }\n }\n let result = true;\n e.eachChild(arg => {\n if (result && !isStateConstant(arg)) { result = false; }\n });\n return result;\n}\n\nfunction isGlobalPropertyConstant(e: Expression, properties: Array<string>): boolean {\n if (e instanceof CompoundExpression && properties.indexOf(e.name) >= 0) { return false; }\n let result = true;\n e.eachChild((arg) => {\n if (result && !isGlobalPropertyConstant(arg, properties)) { result = false; }\n });\n return result;\n}\n\nexport {isFeatureConstant, isGlobalPropertyConstant, isStateConstant};\n","// @flow\n\nimport type {Type} from '../types.js';\nimport type {Expression} from '../expression.js';\nimport type ParsingContext from '../parsing_context.js';\nimport type EvaluationContext from '../evaluation_context.js';\n\nclass

Var implements Expression {\n type: Type;\n name: string;\n boundExpression: Expression;\n\n constructor(name: string, boundExpression: Expression) {\n this.type = boundExpression.type;\n this.name = name;\n this.boundExpression = boundExpression;\n }\n\n static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): void | Var {\n if (args.length !== 2 || typeof args[1] !== 'string')\n return context.error(`'var' expression requires exactly one string literal argument.`);\n\n const name = args[1];\n if (!context.scope.has(name)) {\n return context.error(`Unknown variable \"${name}\". Make sure \"${name}\" has been bound in an enclosing \"let\" expression before using it.`, 1);\n }\n\n return new Var(name, context.scope.get(name));\n }\n\n evaluate(ctx: EvaluationContext): any {\n return this.boundExpression.evaluate(ctx);\n }\n\n eachChild() {}\n\n outputDefined(): boolean {\n return false;\n }\n\n serialize(): Array<string> {\n return [\"var\", this.name];\n }\n}\n\nexport default Var;\n","// @flow\n\nimport Scope from './scope.js';\nimport {checkSubtype} from './types.js';\nimport ParsingError from './parsing_error.js';\nimport Literal from './definitions/literal.js';\nimport Assertion from './definitions/assertion.js';\nimport Coercion from './definitions/coercion.js';\nimport EvaluationContext from './evaluation_context.js';\nimport CompoundExpression from './compound_expression.js';\nimport CollatorExpression from './definitions/collator.js';\nimport Within from './definitions/within.js';\nimport {isGlobalPropertyConstant, isFeatureConstant} from './is_constant.js';\nimport Var from './definitions/var.js';\n\nimport type {Expression, ExpressionRegistry} from './expression.js';\nimport type {Type} from './types.js';\n\n/**\n * State associated parsing at a given point in an expression tree.\n * @private\n */\nclass ParsingContext {\n registry: ExpressionRegistry;\n path: Array<number>;\n key: string;\n scope: Scope;\n errors: Array<ParsingError>;\n\n // The expected type of this expression. Provided only to allow Expression\n // implementations to infer argument types: Expression#parse() need not\n // check that the output type of the parsed expression matches\n // `expectedType`.\n expectedType: ?Type;\n\n constructor(\n registry: ExpressionRegistry,\n path: Array<number> = [],\n expectedType: ?Type,\n scope: Scope = new Scope(),\n errors: Array<ParsingError> = []\n) {\n this.registry = registry;\n this.path = path;\n this.key = path.map(part => `[${part}]`).join('');\n this.scope = scope;\n this.errors = errors;\n this.expectedType = expectedType;\n }\n\n /**\n * @param expr the JSON expression to parse\n * @param index the optional argument index if this expression is an argument of a parent expression that's being parsed\n * @param options\n * @param options.omitTypeAnnotations set true to omit inferred type annotations. Caller beware: with this option set, the parsed expression's type will NOT satisfy `expectedType` if it would normally be wrapped in an inferred annotation.\n * @private\n */\n parse(\n expr: mixed,\n index?: number,\n expectedType?: ?Type,\n bindings?: Array<[string, Expression]>,\n options: {typeAnnotation?: 'assert' | 'coerce' | 'omit'} = {}\n): ?Expression {\n if (index) {\n return this.concat(index, expectedType, bindings)._parse(expr, options);\n }\n return this._parse(expr, options);\n }\n\n _parse(expr: mixed, options: {typeAnnotation?: 'assert' | 'coerce' | 'omit'}): ?Expression {\n if (expr === null || typeof expr === 'string' || typeof expr === 'boolean' || typeof expr === 'number') {\n expr = ['literal', expr];\n }\n\n function annotate(parsed, type, typeAnnotation: 'assert' | 'coerce' | 'omit') {\n if (typeAnnotation === 'assert') {\n return new Assertion(type, [parsed]);\n } else if (typeAnnotation === 'coerce') {\n return new Coercion(type, [parsed]);\n } else {\n return parsed;\n }\n }\n\n if (Array.isArray(expr)) {\n if (expr.length === 0) {\n return this.error(`Expected an array with at least one element. If you wanted a literal array, use [\"literal\", []].`);\n }\n\n const op = expr[0];\n if (typeof op !== 'string') {\n this.error(`Expression name must be a string, but found ${typeof op} instead. If you wanted a literal array, use [\"literal\", [...]].`, 0);\n return null;\n }\n\n const Expr = this.registry[op];\n if (Expr) {\n let parsed = Expr.parse(expr, this);\n if (!parsed) return null;\n\n if (this.expectedType) {\n const expected = this.expectedType;\n const actual = parsed.type;\n\n // When we expect a number, string, boolean, or array but have a value, wrap it in an assertion.\n // When we expect a color or formatted string, but have a string or value, wrap it in a coercion.\n // Otherwise, we do static type-checking.\n //\n // These behaviors are overridable for:\n // * The \"coalesce\" operator, which needs to omit type annotations.\n //

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* String-valued properties (e.g. `text-field`), where coercion is more convenient than assertion.\n //\n if ((expected.kind === 'string' || expected.kind === 'number' || expected.kind === 'boolean' || expected.kind === 'object' || expected.kind === 'array') && actual.kind === 'value') {\n parsed = annotate(parsed, expected, options.typeAnnotation || 'assert');\n } else if ((expected.kind === 'color' || expected.kind === 'formatted' || expected.kind === 'resolvedImage') && (actual.kind === 'value' || actual.kind === 'string')) {\n parsed = annotate(parsed, expected, options.typeAnnotation || 'coerce');\n } else if (this.checkSubtype(expected, actual)) {\n return null;\n }\n }\n\n // If an expression's arguments are all literals, we can evaluate\n // it immediately and replace it with a literal value in the\n // parsed/compiled result. Expressions that expect an image should\n // not be resolved here so we can later get the available images.\n if (!(parsed instanceof Literal) && (parsed.type.kind !== 'resolvedImage') && isConstant(parsed)) {\n const ec = new EvaluationContext();\n try {\n parsed = new Literal(parsed.type, parsed.evaluate(ec));\n } catch (e) {\n this.error(e.message);\n return null;\n }\n }\n\n return parsed;\n }\n\n return this.error(`Unknown expression \"${op}\". If you wanted a literal array, use [\"literal\", [...]].`, 0);\n } else if (typeof expr === 'undefined') {\n return this.error(`'undefined' value invalid. Use null instead.`);\n } else if (typeof expr === 'object') {\n return this.error(`Bare objects invalid. Use [\"literal\", {...}] instead.`);\n } else {\n return this.error(`Expected an array, but found ${typeof expr} instead.`);\n }\n }\n\n /**\n * Returns a copy of this context suitable for parsing the subexpression at\n * index `index`, optionally appending to 'let' binding map.\n *\n * Note that `errors` property, intended for collecting errors while\n * parsing, is copied by reference rather than cloned.\n * @private\n */\n concat(index: number, expectedType?: ?Type, bindings?: Array<[string, Expression]>): ParsingContext {\n const path = typeof index === 'number' ? this.path.concat(index) : this.path;\n const scope = bindings ? this.scope.concat(bindings) : this.scope;\n return new ParsingContext(\n this.registry,\n path,\n expectedType || null,\n scope,\n this.errors\n );\n }\n\n /**\n * Push a parsing (or type checking) error into the `this.errors`\n * @param error The message\n * @param keys Optionally specify the source of the error at a child\n * of the current expression at `this.key`.\n * @private\n */\n error(error: string, ...keys: Array<number>) {\n const key = `${this.key}${keys.map(k => `[${k}]`).join('')}`;\n this.errors.push(new ParsingError(key, error));\n }\n\n /**\n * Returns null if `t` is a subtype of `expected`; otherwise returns an\n * error message and also pushes it to `this.errors`.\n */\n checkSubtype(expected: Type, t: Type): ?string {\n const error = checkSubtype(expected, t);\n if (error) this.error(error);\n return error;\n }\n}\n\nexport default ParsingContext;\n\nfunction isConstant(expression: Expression) {\n if (expression instanceof Var) {\n return isConstant(expression.boundExpression);\n } else if (expression instanceof CompoundExpression && expression.name === 'error') {\n return false;\n } else if (expression instanceof CollatorExpression) {\n // Although the results of a Collator expression with fixed arguments\n // generally shouldn't change between executions, we can't serialize them\n // as constant expressions because results change based on environment.\n return false;\n } else if (expression instanceof Within) {\n return false;\n }\n\n const isTypeAnnotation = expression instanceof Coercion ||\n expression instanceof Assertion;\n\n let childrenConstant = true;\n expression.eachChild(child => {\n // We can _almost_ assume that if `expressions` children are constant,\n // they would already have been evaluated to Literal values when they\n // were parsed.  Type annotations are the exception, because they might\n // have been inferred and added after a child was parsed.\n\n // So we recurse into isConstant() for the children of type annotations,\n // but otherwise simply check whether they are Literals.\n if (isTypeAnnotation) {\n childrenConstant = childrenConstant && isConstant(child);\n } else {\n childrenConstant = childrenConstant && child instanceof Literal;\n }\n });\n if (!childrenConstant) {\n return false;\n }\n\n return isFeatureConstant(expression) &&\n isGlobalPropertyConstant(expression, ['zoom', 'heatmap-density', 'line-progress', 'sky-radial-progress', 'accumulated', 'is-supported-script', 'pitch', 'distance-from-center']);\n}\n","// @flow\n\nimport RuntimeError from './runtime_error.js';\n\nimport type {Expression} from './expression.js';\n\nexport type Stops = Array<[number, Expression]>;\n\n/**\n * Returns the index of the last stop <= input, or 0 if it doesn't exist.\n * @private\n
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*/\nexport function findStopLessThanOrEqualTo(stops: Array<number>, input: number): number {\n    const lastIndex = stops.length - 1;\n    let lowerIndex = 0;\n    let upperIndex = lastIndex;\n    let currentIndex = 0;\n    let currentValue, nextValue;\n\n    while (lowerIndex <= upperIndex) {\n        currentIndex = Math.floor((lowerIndex + upperIndex) / 2);\n        currentValue = stops[currentIndex];\n        nextValue = stops[currentIndex + 1];\n\n        if (currentValue <= input) {\n            if (currentIndex === lastIndex || input < nextValue) { // Search complete\n                return currentIndex;\n            }\n\n            lowerIndex = currentIndex + 1;\n        } else if (currentValue > input) {\n            upperIndex = currentIndex - 1;\n        } else {\n            throw new RuntimeError('Input is not a number.');\n        }\n    }\n\n    return 0;\n}\n","// @flow\n\nimport {NumberType} from '../types.js';\n\nimport {findStopLessThanOrEqualTo} from '../stops.js';\n\nimport type {Stops} from '../stops.js';\nimport type {Expression, SerializedExpression} from '../expression.js';\nimport type ParsingContext from '../parsing_context.js';\nimport type EvaluationContext from '../evaluation_context.js';\nimport type {Type} from '../types.js';\n\nclass Step implements Expression {\n    type: Type;\n\n    input: Expression;\n    labels: Array<number>;\n    outputs: Array<Expression>;\n\n    constructor(type: Type, input: Expression, stops: Stops) {\n        this.type = type;\n        this.input = input;\n\n        this.labels = [];\n        this.outputs = [];\n        for (const [label, expression] of stops) {\n            this.labels.push(label);\n            this.outputs.push(expression);\n        }\n    }\n\n    static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?Step {\n        if (args.length - 1 < 4) {\n            return context.error(`Expected at least 4 arguments, but found only ${args.length - 1}.`);\n        }\n\n        if ((args.length - 1) % 2 !== 0) {\n            return context.error(`Expected an even number of arguments.`);\n        }\n\n        const input = context.parse(args[1], 1, NumberType);\n        if (!input) return null;\n\n        const stops: Stops = [];\n\n        let outputType: Type = (null: any);\n        if (context.expectedType && context.expectedType.kind !== 'value') {\n            outputType = context.expectedType;\n        }\n\n        for (let i = 1; i < args.length; i += 2) {\n            const label = i === 1 ? -Infinity : args[i];\n            const value = args[i + 1];\n\n            const labelKey = i;\n            const valueKey = i + 1;\n\n            if (typeof label !== 'number') {\n                return context.error('Input/output pairs for \"step\" expressions must be defined using literal numeric values (not computed expressions) for the input values.', labelKey);\n            }\n\n            if (stops.length && stops[stops.length - 1][0] >= label) {\n                return context.error('Input/output pairs for \"step\" expressions must be arranged with input values in strictly ascending order.', labelKey);\n            }\n\n            const parsed = context.parse(value, valueKey, outputType);\n            if (!parsed) return null;\n            outputType = outputType || parsed.type;\n            stops.push([label, parsed]);\n        }\n\n        return new Step(outputType, input, stops);\n    }\n\n    evaluate(ctx: EvaluationContext): any {\n        const labels = this.labels;\n        const outputs = this.outputs;\n\n        if (labels.length === 1) {\n            return outputs[0].evaluate(ctx);\n        }\n\n        const value = ((this.input.evaluate(ctx): any): number);\n        if (value <= labels[0]) {\n            return outputs[0].evaluate(ctx);\n        }\n\n        const stopCount = labels.length;\n        if (value >= labels[stopCount - 1]) {\n            return outputs[stopCount - 1].evaluate(ctx);\n        }\n\n        const index = findStopLessThanOrEqualTo(labels, value);\n        return outputs[index].evaluate(ctx);\n    }\n\n    eachChild(fn: (_: Expression) => void) {\n        fn(this.input);\n        for (const expression of this.outputs) {\n            fn(expression);\n        }\n    }\n\n    outputDefined(): boolean {\n        return this.outputs.every(out => out.outputDefined());\n    }\n\n    serialize(): SerializedExpression {\n        const serialized = [\"step\", this.input.serialize()];\n        for (let i = 0; i < this.labels.length; i++) {\n            if (i > 0) {\n                serialized.push(this.labels[i]);\n            }\n            serialized.push(this.outputs[i].serialize());\n        }\n        return serialized;\n    }\n}\n\nexport default Step;\n","'use strict';\n\nmodule.exports = UnitBezier;\n\nfunction UnitBezier(p1x, p1y, p2x, p2y) {\n    // Calculate the polynomial coefficients, implicit first and last control points are (0,0) and (1,1).\n    this.cx = 3.0 * p1x;\n    this.bx = 3.0 * (p2x - p1x) - this.cx;\n    this.ax = 1.0 - this.cx - this.bx;\n\n    this.cy = 3.0 * p1y;\n    this.by = 3.0 * (p2y - p1y) - this.cy;\n    this.ay = 1.0 - this.cy - this.by;\n\n    this.p1x = p1x;\n    this.p1y = p1y;\n    this.p2x = p2x;\n    this.p2y = p2y;\n}\n\nUnitBezier.prototype = {\n    sampleCurveX: function (t) {\n        // `ax t^3 + bx t^2 + cx t' expanded using Horner's rule.\n        return ((this.ax * t + this.bx) * t + this.cx) * t;\n    },\n\n    sampleCurveY: function (t) {\n        return ((this.ay * t + this.by) * t + this.cy) * t;\n    },\n\n    sampleCurveDerivativeX: function (t) {\n        return (3.0 * this.ax * t + 2.0 * this.bx) * t + this.cx;\n    },\n\n    solveCurveX: function (x, epsilon) {\n        if (epsilon === undefined) epsilon = 1e-6;\n\n        if (x < 0.0) return 0.0;\n        if (x > 1.0) return 1.0;\n\n        var t
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= x;\n\n // First try a few iterations of Newton's method - normally very fast.\n for (var i = 0; i < 8; i++) {\n var x2 = this.sampleCurveX(t) - x;\n if (Math.abs(x2) < epsilon) return t;\n\n var d2 = this.sampleCurveDerivativeX(t);\n if (Math.abs(d2) < 1e-6) break;\n\n t = t - x2 / d2;\n }\n\n // Fall back to the bisection method for reliability.\n var t0 = 0.0;\n var t1 = 1.0;\n t = x;\n\n for (i = 0; i < 20; i++) {\n x2 = this.sampleCurveX(t);\n if (Math.abs(x2 - x) < epsilon) break;\n\n if (x > x2) {\n t0 = t;\n } else {\n t1 = t;\n }\n\n t = (t1 - t0) * 0.5 + t0;\n }\n\n return t;\n },\n\n solve: function (x, epsilon) {\n return this.sampleCurveY(this.solveCurveX(x, epsilon));\n }\n};\n","// @flow\n\nimport Color from './color.js';\n\nexport function number(a: number, b: number, t: number): number {\n return (a * (1 - t)) + (b * t);\n}\n\nexport function color(from: Color, to: Color, t: number): Color {\n return new Color(\n number(from.r, to.r, t),\n number(from.g, to.g, t),\n number(from.b, to.b, t),\n number(from.a, to.a, t)\n);\n}\n\nexport function array(from: Array<number>, to: Array<number>, t: number): Array<number> {\n return from.map((d, i) => {\n return number(d, to[i], t);\n });\n}\n","// @flow\n\nimport Color from './color.js';\n\nimport {number as interpolateNumber} from './interpolate.js';\n\ntype LABColor = {\n l: number,\n a: number,\n b: number,\n alpha: number\n};\n\ntype HCLColor = {\n h: number,\n c: number,\n l: number,\n alpha: number\n};\n\n// Constants\nconst Xn = 0.950470, // D65 standard referent\n Yn = 1,\n Zn = 1.088830,\n t0 = 4 / 29,\n t1 = 6 / 29,\n t2 = 3 * t1 * t1,\n t3 = t1 * t1 * t1,\n deg2rad = Math.PI / 180,\n rad2deg = 180 / Math.PI;\n\n// Utilities\nfunction xyz2lab(t: number) {\n return t > t3 ? Math.pow(t, 1 / 3) : t / t2 + t0;\n}\n\nfunction lab2xyz(t: number) {\n return t > t1 ? t * t * t : t2 * (t - t0);\n}\n\nfunction xyz2rgb(x: number) {\n return 255 * (x <= 0.0031308 ? 12.92 * x : 1.055 * Math.pow(x, 1 / 2.4) - 0.055);\n}\n\nfunction rgb2xyz(x: number) {\n x /= 255;\n return x <= 0.04045 ? x / 12.92 : Math.pow((x + 0.055) / 1.055, 2.4);\n}\n\n// LAB\nfunction rgbToLab(rgbColor: Color): LABColor {\n const b = rgb2xyz(rgbColor.r),\n a = rgb2xyz(rgbColor.g),\n l = rgb2xyz(rgbColor.b),\n x = xyz2lab((0.4124564 * b + 0.3575761 * a + 0.1804375 * l) / Xn),\n y = xyz2lab((0.2126729 * b + 0.7151522 * a + 0.0721750 * l) / Yn),\n z = xyz2lab((0.0193339 * b + 0.1191920 * a + 0.9503041 * l) / Zn);\n\n return {\n l: 116 * y - 16,\n a: 500 * (x - y),\n b: 200 * (y - z),\n alpha: rgbColor.a\n };\n}\n\nfunction labToRgb(labColor: LABColor): Color {\n let y = (labColor.l + 16) / 116,\n x = isNaN(labColor.a) ? y : y + labColor.a / 500,\n z = isNaN(labColor.b) ? y : y - labColor.b / 200;\n y = Yn * lab2xyz(y);\n x = Xn * lab2xyz(x);\n z = Zn * lab2xyz(z);\n return new Color(\n xyz2rgb(3.2404542 * x - 1.5371385 * y - 0.4985314 * z), // D65 -> sRGB\n xyz2rgb(-0.9692660 * x + 1.8760108 * y + 0.0415560 * z),\n xyz2rgb(0.0556434 * x - 0.2040259 * y + 1.0572252 * z),\n labColor.alpha\n);\n}\n\nfunction interpolateLab(from: LABColor, to: LABColor, t: number): LABColor {\n return {\n l: interpolateNumber(from.l, to.l, t),\n a: interpolateNumber(from.a, to.a, t),\n b: interpolateNumber(from.b, to.b, t),\n alpha: interpolateNumber(from.alpha, to.alpha, t)\n };\n}\n\n// HCL\nfunction rgbToHcl(rgbColor: Color): HCLColor {\n const {l, a, b} = rgbToLab(rgbColor);\n const h = Math.atan2(b, a) * rad2deg;\n return {\n h: h < 0 ? h + 360 : h,\n c: Math.sqrt(a * a + b * b),\n l,\n alpha: rgbColor.a\n };\n}\n\nfunction hclToRgb(hclColor: HCLColor): Color {\n const h = hclColor.h * deg2rad,\n c = hclColor.c,\n l = hclColor.l;\n return labToRgb({\n l,\n a: Math.cos(h) * c,\n b: Math.sin(h) * c,\n alpha: hclColor.alpha\n });\n}\n\nfunction interpolateHue(a: number, b: number, t: number) {\n const d = b - a;\n return a + t * (d > 180 || d < -180 ? d - 360 * Math.round(d / 360) : d);\n}\n\nfunction interpolateHcl(from: HCLColor, to: HCLColor, t: number): HCLColor {\n return {\n h: interpolateHue(from.h, to.h, t),\n c: interpolateNumber(from.c, to.c, t),\n l: interpolateNumber(from.l, to.l, t),\n alpha: interpolateNumber(from.alpha, to.alpha, t)\n };\n}\n\nexport const lab = {\n forward: rgbToLab,\n reverse: labToRgb,\n interpolate: interpolateLab\n};\n\nexport const hcl = {\n forward: rgbToHcl,\n reverse: hclToRgb,\n interpolate: interpolateHcl\n};\n","// @flow\n\nimport UnitBezier from '@mapbox/unitbezier';\n\nimport * as interpolate from '../../util/interpolate.js';\nimport {toString, NumberType, ColorType} from '../types.js';\nimport {findStopLessThanOrEqualTo} from '../stops.js';\nimport {hcl, lab} from '../../util/color_spaces.js';\nimport Color from '../../util/color.js';\n\nimport type {Stops} from '../stops.js';\nimport type {Expression, SerializedExpression} from '../expression.js';\nimport type ParsingContext from '../parsing_context.js';\nimport type EvaluationContext from '../evaluation_context.js';\nimport type {Type} from

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'../types.js';\n\nexport type InterpolationType =\n    { name: 'linear' } |\n    { name: 'exponential', base: number } |\n    { name: 'cubic-bezier', controlPoints: [number, number, number, number] };\n\nclass Interpolate implements Expression {\n    type: Type;\n\n    operator: 'interpolate' | 'interpolate-hcl' | 'interpolate-lab';\n    interpolation: InterpolationType;\n    input: Expression;\n    labels: Array<number>;\n    outputs: Array<Expression>;\n\n    constructor(type: Type, operator: 'interpolate' | 'interpolate-hcl' | 'interpolate-lab', interpolation: InterpolationType, input: Expression, stops: Stops) {\n        this.type = type;\n        this.operator = operator;\n        this.interpolation = interpolation;\n        this.input = input;\n\n        this.labels = [];\n        this.outputs = [];\n        for (const [label, expression] of stops) {\n            this.labels.push(label);\n            this.outputs.push(expression);\n        }\n    }\n\n    static interpolationFactor(interpolation: InterpolationType, input: number, lower: number, upper: number): number {\n        let t = 0;\n        if (interpolation.name === 'exponential') {\n            t = exponentialInterpolation(input, interpolation.base, lower, upper);\n        } else if (interpolation.name === 'linear') {\n            t = exponentialInterpolation(input, 1, lower, upper);\n        } else if (interpolation.name === 'cubic-bezier') {\n            const c = interpolation.controlPoints;\n            const ub = new UnitBezier(c[0], c[1], c[2], c[3]);\n            t = ub.solve(exponentialInterpolation(input, 1, lower, upper));\n        }\n        return t;\n    }\n\n    static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?Interpolate {\n        let [operator, interpolation, input, ...rest] = args;\n\n        if (!Array.isArray(interpolation) || interpolation.length === 0) {\n            return context.error(`Expected an interpolation type expression.`, 1);\n        }\n\n        if (interpolation[0] === 'linear') {\n            interpolation = {name: 'linear'};\n        } else if (interpolation[0] === 'exponential') {\n            const base = interpolation[1];\n            if (typeof base !== 'number')\n                return context.error(`Exponential interpolation requires a numeric base.`, 1, 1);\n            interpolation = {\n                name: 'exponential',\n                base\n            };\n        } else if (interpolation[0] === 'cubic-bezier') {\n            const controlPoints = interpolation.slice(1);\n            if (\n                controlPoints.length !== 4 ||\n                controlPoints.some(t => typeof t !== 'number' || t < 0 || t > 1)\n            ) {\n                return context.error('Cubic bezier interpolation requires four numeric arguments with values between 0 and 1.', 1);\n            }\n\n            interpolation = {\n                name: 'cubic-bezier',\n                controlPoints: (controlPoints: any)\n            };\n        } else {\n            return context.error(`Unknown interpolation type ${String(interpolation[0])}`, 1, 0);\n        }\n\n        if (args.length - 1 < 4) {\n            return context.error(`Expected at least 4 arguments, but found only ${args.length - 1}.`);\n        }\n\n        if ((args.length - 1) % 2 !== 0) {\n            return context.error(`Expected an even number of arguments.`);\n        }\n\n        input = context.parse(input, 2, NumberType);\n        if (!input) return null;\n\n        const stops: Stops = [];\n\n        let outputType: Type = (null: any);\n        if (operator === 'interpolate-hcl' || operator === 'interpolate-lab') {\n            outputType = ColorType;\n        } else if (context.expectedType && context.expectedType.kind !== 'value') {\n            outputType = context.expectedType;\n        }\n\n        for (let i = 0; i < rest.length; i += 2) {\n            const label = rest[i];\n            const value = rest[i + 1];\n\n            const labelKey = i + 3;\n            const valueKey = i + 4;\n\n            if (typeof label !== 'number') {\n                return context.error('Input/output pairs for \"interpolate\" expressions must be defined using literal numeric values (not computed expressions) for the input values.', labelKey);\n            }\n\n            if (stops.length && stops[stops.length - 1][0] >= label) {\n                return context.error('Input/output pairs for \"interpolate\" expressions must be arranged with input values in strictly ascending order.', labelKey);\n            }\n\n            const parsed = context.parse(value, valueKey, outputType);\n            if (!parsed) return null;\n            outputType = outputType || parsed.type;\n            stops.push([label, parsed]);\n        }\n\n        if (outputType.kind !== 'number' &&\n            outputType.kind !== 'color' &&\n            !(\n                outputType.kind === 'array' &&\n                outputType.itemType.kind === 'number' &&\n                typeof outputType.N === 'number'\n            )\n        ) {\n            return context.error(`Type ${toString(outputType)} is not interpolatable.`);\n        }\n\n        return new Interpolate(outputType, (operator: any), interpolation, input, stops);\n    }\n\n    evaluate(ctx: EvaluationContext): Color {\n        const labels = this.labels;\n        const outputs = this.outputs;\n\n        if (labels.length === 1) {\n            return outputs[0].evaluate(ctx);\n        }\n\n        const value = ((this.input.evaluate(ctx): any): number);\n        if (value <= labels[0]) {\n            return outputs[0].evaluate(ctx);\n        }\n\n        const stopCount = labels.length;\n        if (value >= labels[stopCount - 1]) {\n            return outputs[stopCount - 1].evaluate(ctx);\n        }\n\n        const index = findStopLessThanOrEqualTo(labels, value);\n        const lower = labels[index];\n        const upper =
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labels[index + 1];\n        const t = Interpolate.interpolationFactor(this.interpolation, value, lower, upper);\n\n
const outputLower = outputs[index].evaluate(ctx);\n        const outputUpper = outputs[index + 1].evaluate(ctx);\n\n
    if (this.operator === 'interpolate') {\n            return (interpolate[this.type.kind.toLowerCase()]: any)(outputLower,
outputUpper, t); // eslint-disable-line import/namespace\n        } else if (this.operator === 'interpolate-hcl') {\n
return hcl.reverse(hcl.interpolate(hcl.forward(outputLower), hcl.forward(outputUpper), t));\n        } else {\n
return lab.reverse(lab.interpolate(lab.forward(outputLower), lab.forward(outputUpper), t));\n        }\n    }\n\n
eachChild(fn: (_: Expression) => void) {\n        fn(this.input);\n        for (const expression of this.outputs) {\n
fn(expression);\n        }\n    }\n\n    outputDefined(): boolean {\n        return this.outputs.every(out =>
out.outputDefined());\n    }\n\n    serialize(): SerializedExpression {\n        let interpolation;\n        if
(this.interpolation.name === 'linear') {\n            interpolation = [\"linear\"];\n        } else if (this.interpolation.name
=== 'exponential') {\n            if  (this.interpolation.base === 1) {\n                interpolation = [\"linear\"];\n            }
else {\n                interpolation = [\"exponential\", this.interpolation.base];\n            }\n        } else {\n
interpolation = [\"cubic-bezier\" ].concat(this.interpolation.controlPoints);\n        }\n\n        const serialized =
[this.operator, interpolation, this.input.serialize()];\n\n        for (let i = 0; i < this.labels.length; i++) {\n
serialized.push(\n                this.labels[i],\n                this.outputs[i].serialize()\n            );\n        }\n        return
serialized;\n    }\n}\n\n/**\n * Returns a ratio that can be used to interpolate between exponential function\n *
stops.\n * How it works: Two consecutive stop values define a (scaled and shifted) exponential function `f(x) = a *
base^x + b`, where `base` is the user-specified base,\n * and `a` and `b` are constants affording sufficient degrees of
freedom to fit\n * the function to the given stops.\n *\n * Here's a bit of algebra that lets us compute `f(x)` directly
from the stop\n * values without explicitly solving for `a` and `b`:\n *\n * First stop value: `f(x0) = y0 = a * base^x0
+ b`\n * Second stop value: `f(x1) = y1 = a * base^x1 + b`\n * => `y1 - y0 = a(base^x1 - base^x0)`\n * => `a = (y1 -
y0)/(base^x1 - base^x0)`\n *\n * Desired value: `f(x) = y = a * base^x + b`\n * => `f(x) = y0 + a * (base^x -
base^x0)`\n *\n * From the above, we can replace the `a` in `a * (base^x - base^x0)` and do a\n * little algebra:\n *
```\n * a * (base^x - base^x0) = (y1 - y0)/(base^x1 - base^x0) * (base^x - base^x0)\n *                    = (y1 - y0) *
(base^x - base^x0) / (base^x1 - base^x0)\n * ```\n *\n * If we let `(base^x - base^x0) / (base^x1 base^x0)`, then we
have\n * `f(x) = y0 + (y1 - y0) * ratio`. In other words, `ratio` may be treated as\n * an interpolation factor between
the two stops' output values.\n *\n * (Note: a slightly different form for `ratio`,\n * `(base^(x-x0) - 1) / (base^(x1-x0)
- 1) `, is equivalent, but requires fewer\n * expensive `Math.pow()` operations.)\n *\n * @private\n*/\nfunction
exponentialInterpolation(input, base, lowerValue, upperValue) {\n   const difference = upperValue - lowerValue;\n
 const progress = input - lowerValue;\n\n   if (difference === 0) {\n   return 0;\n   } else if (base === 1) {\n
return progress / difference;\n   } else {\n   return (Math.pow(base, progress) - 1) / (Math.pow(base, difference) -
1);\n   }\n}\n\nexport default Interpolate;\n","// @flow\n\nimport assert from 'assert';\n\nimport {checkSubtype,
ValueType} from '../types.js';\nimport ResolvedImage from '../types/resolved_image.js';\n\nimport type
{Expression, SerializedExpression} from '../expression.js';\nimport type ParsingContext from
'../parsing_context.js';\nimport type EvaluationContext from '../evaluation_context.js';\nimport type {Type} from
'../types.js';\n\nclass Coalesce implements Expression {\n   type: Type;\n   args: Array<Expression>;\n\n
constructor(type: Type, args: Array<Expression>) {\n   this.type = type;\n   this.args = args;\n   }\n\n   static
parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?Coalesce {\n   if (args.length < 2) {\n
return context.error(\"Expectected at least one argument.\");\n   }\n   let outputType: Type = (null: any);\n
const expectedType = context.expectedType;\n   if (expectedType && expectedType.kind !== 'value') {\n
outputType = expectedType;\n   }\n   const parsedArgs = [];\n\n   for (const arg of args.slice(1)) {\n
const parsed = context.parse(arg, 1 + parsedArgs.length, outputType, undefined, {typeAnnotation: 'omit'});\n
if (!parsed) return null;\n   outputType = outputType || parsed.type;\n   parsedArgs.push(parsed);\n
}\n   assert(outputType);\n\n   // Above, we parse arguments without inferred type annotation so that\n   //
they don't produce a runtime error for `null` input, which would\n   // preempt the desired null-coalescing
behavior.\n   // Thus, if any of our arguments would have needed an annotation, we\n   // need to wrap the
enclosing coalesce expression with it instead.\n   const needsAnnotation = expectedType &&\n
parsedArgs.some(arg => checkSubtype(expectedType, arg.type));\n\n   return needsAnnotation ?\n   new
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Coalesce(ValueType, parsedArgs) :\n new Coalesce((outputType: any), parsedArgs);\n }\n\n evaluate(ctx: EvaluationContext): any | null {\n let result = null;\n let argCount = 0;\n let firstImage;\n for (const arg of this.args) {\n argCount++;\n result = arg.evaluate(ctx);\n // we need to keep track of the first requested image in a coalesce statement\n // if coalesce can't find a valid image, we return the first image so styleimagemissing can fire\n if (result && result instanceof ResolvedImage && !result.available) {\n // set to first image\n if (!firstImage) {\n firstImage = result;\n }\n result = null;\n // if we reach the end, return the first image\n if (argCount === this.args.length) {\n return firstImage;\n }\n }\n\n if (result !== null) break;\n }\n return result;\n }\n\n eachChild(fn: (_: Expression) => void) {\n this.args.forEach(fn);\n }\n\n outputDefined(): boolean {\n return this.args.every(arg => arg.outputDefined());\n }\n\n serialize(): SerializedExpression {\n const serialized = [\"coalesce\"];\n this.eachChild(child => { serialized.push(child.serialize()); });\n return serialized;\n }\n}\n\nexport default Coalesce;\n","// @flow\n\nimport type {Type} from '../types.js';\nimport type {Expression, SerializedExpression} from '../expression.js';\nimport type ParsingContext from '../parsing_context.js';\nimport type EvaluationContext from '../evaluation_context.js';\n\nclass Let implements Expression {\n type: Type;\n bindings: Array<[string, Expression]>;\n result: Expression;\n\n constructor(bindings: Array<[string, Expression]>, result: Expression) {\n this.type = result.type;\n this.bindings = [].concat(bindings);\n this.result = result;\n }\n\n evaluate(ctx: EvaluationContext): any {\n return this.result.evaluate(ctx);\n }\n\n eachChild(fn: (_: Expression) => void) {\n for (const binding of this.bindings) {\n fn(binding[1]);\n }\n fn(this.result);\n }\n\n static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?Let {\n if (args.length < 4)\n return context.error(`Expected at least 3 arguments, but found ${args.length - 1} instead.`);\n\n const bindings: Array<[string, Expression]> = [];\n for (let i = 1; i < args.length - 1; i += 2) {\n const name = args[i];\n\n if (typeof name !== 'string') {\n return context.error(`Expected string, but found ${typeof name} instead.`, i);\n }\n\n if (/[^a-zA-Z0-9_]/.test(name)) {\n return context.error(`Variable names must contain only alphanumeric characters or '_'.`, i);\n }\n\n const value = context.parse(args[i + 1], i + 1);\n if (!value) return null;\n\n bindings.push([name, value]);\n }\n\n const result = context.parse(args[args.length - 1], args.length - 1, context.expectedType, bindings);\n if (!result) return null;\n\n return new Let(bindings, result);\n }\n\n outputDefined(): boolean {\n return this.result.outputDefined();\n }\n\n serialize(): SerializedExpression {\n const serialized = [\"let\"];\n for (const [name, expr] of this.bindings) {\n serialized.push(name, expr.serialize());\n }\n serialized.push(this.result.serialize());\n return serialized;\n }\n}\n\nexport default Let;\n","// @flow\n\nimport {array, ValueType, NumberType} from '../types.js';\n\nimport RuntimeError from '../runtime_error.js';\n\nimport type {Expression, SerializedExpression} from '../expression.js';\nimport type ParsingContext from '../parsing_context.js';\nimport type EvaluationContext from '../evaluation_context.js';\nimport type {Type, ArrayType} from '../types.js';\nimport type {Value} from '../values.js';\n\nclass At implements Expression {\n type: Type;\n index: Expression;\n input: Expression;\n\n constructor(type: Type, index: Expression, input: Expression) {\n this.type = type;\n this.index = index;\n this.input = input;\n }\n\n static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?At {\n if (args.length !== 3)\n return context.error(`Expected 2 arguments, but found ${args.length - 1} instead.`);\n\n const index = context.parse(args[1], 1, NumberType);\n const input = context.parse(args[2], 2, array(context.expectedType || ValueType));\n\n if (!index || !input) return null;\n\n const t: ArrayType = (input.type: any);\n return new At(t.itemType, index, input);\n }\n\n evaluate(ctx: EvaluationContext): Value {\n const index = ((this.index.evaluate(ctx): any): number);\n const array = ((this.input.evaluate(ctx): any): Array<Value>);\n\n if (index < 0) {\n throw new RuntimeError(`Array index out of bounds: ${index} < 0.`);\n }\n\n if (index >= array.length) {\n throw new RuntimeError(`Array index out of bounds: ${index} > ${array.length - 1}.`);\n }\n\n if (index !== Math.floor(index)) {\n throw new RuntimeError(`Array index must be an integer, but found ${index} instead.`);\n }\n\n return array[index];\n }\n\n eachChild(fn: (_: Expression) => void) {\n fn(this.index);\n fn(this.input);\n }\n\n outputDefined(): boolean {\n return false;\n
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}\n\n serialize(): SerializedExpression {\n   return [\"at\", this.index.serialize(), this.input.serialize()];\n }\n}\n\nexport default At;\n","// @flow\n\nimport {BooleanType, StringType, ValueType, NullType, toString, NumberType, isValidType, isValidNativeType} from '../types.js';\nimport RuntimeError from '../runtime_error.js';\nimport {typeOf} from '../values.js';\n\nimport type {Expression, SerializedExpression} from '../expression.js';\nimport type ParsingContext from '../parsing_context.js';\nimport type EvaluationContext from '../evaluation_context.js';\nimport type {Type} from '../types.js';\n\nclass In implements Expression {\n type: Type;\n needle: Expression;\n haystack: Expression;\n\n constructor(needle: Expression, haystack: Expression) {\n   this.type = BooleanType;\n   this.needle = needle;\n   this.haystack = haystack;\n }\n\n static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?In {\n   if (args.length !== 3) {\n   return context.error(`Expected 2 arguments, but found ${args.length - 1} instead.`);\n   }\n\n   const needle = context.parse(args[1], 1, ValueType);\n\n   const haystack = context.parse(args[2], 2, ValueType);\n\n   if (!needle || !haystack) return null;\n\n   if (!isValidType(needle.type, [BooleanType, StringType, NumberType, NullType, ValueType])) {\n   return context.error(`Expected first argument to be of type boolean, string, number or null, but found ${toString(needle.type)} instead`);\n   }\n\n   return new In(needle, haystack);\n }\n\n evaluate(ctx: EvaluationContext): boolean {\n   const needle = (this.needle.evaluate(ctx): any);\n   const haystack = (this.haystack.evaluate(ctx): any);\n\n   if (haystack == null) return false;\n\n   if (!isValidNativeType(needle, ['boolean', 'string', 'number', 'null'])) {\n   throw new RuntimeError(`Expected first argument to be of type boolean, string, number or null, but found ${toString(typeOf(needle))} instead.`);\n   }\n\n   if (!isValidNativeType(haystack, ['string', 'array'])) {\n   throw new RuntimeError(`Expected second argument to be of type array or string, but found ${toString(typeOf(haystack))} instead.`);\n   }\n\n   return haystack.indexOf(needle) >= 0;\n }\n\n eachChild(fn: (_: Expression) => void) {\n   fn(this.needle);\n   fn(this.haystack);\n }\n\n outputDefined(): boolean {\n   return true;\n }\n\n serialize(): SerializedExpression {\n   return [\"in\", this.needle.serialize(), this.haystack.serialize()];\n }\n}\n\nexport default In;\n","// @flow\n\nimport {BooleanType, StringType, ValueType, NullType, toString, NumberType, isValidType, isValidNativeType} from '../types.js';\nimport RuntimeError from '../runtime_error.js';\nimport {typeOf} from '../values.js';\n\nimport type {Expression, SerializedExpression} from '../expression.js';\nimport type ParsingContext from '../parsing_context.js';\nimport type EvaluationContext from '../evaluation_context.js';\nimport type {Type} from '../types.js';\n\nclass IndexOf implements Expression {\n type: Type;\n needle: Expression;\n haystack: Expression;\n fromIndex: ?Expression;\n\n constructor(needle: Expression, haystack: Expression, fromIndex?: Expression) {\n   this.type = NumberType;\n   this.needle = needle;\n   this.haystack = haystack;\n   this.fromIndex = fromIndex;\n }\n\n static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?IndexOf {\n   if (args.length <= 2 || args.length >= 5) {\n   return context.error(`Expected 3 or 4 arguments, but found ${args.length - 1} instead.`);\n   }\n\n   const needle = context.parse(args[1], 1, ValueType);\n\n   const haystack = context.parse(args[2], 2, ValueType);\n\n   if (!needle || !haystack) return null;\n   if (!isValidType(needle.type, [BooleanType, StringType, NumberType, NullType, ValueType])) {\n   return context.error(`Expected first argument to be of type boolean, string, number or null, but found ${toString(needle.type)} instead`);\n   }\n\n   if (args.length === 4) {\n   const fromIndex = context.parse(args[3], 3, NumberType);\n   if (!fromIndex) return null;\n   return new IndexOf(needle, haystack, fromIndex);\n   } else {\n   return new IndexOf(needle, haystack);\n   }\n }\n\n evaluate(ctx: EvaluationContext): any {\n   const needle = (this.needle.evaluate(ctx): any);\n   const haystack = (this.haystack.evaluate(ctx): any);\n\n   if (!isValidNativeType(needle, ['boolean', 'string', 'number', 'null'])) {\n   throw new RuntimeError(`Expected first argument to be of type boolean, string, number or null, but found ${toString(typeOf(needle))} instead.`);\n   }\n\n   if (!isValidNativeType(haystack, ['string', 'array'])) {\n   throw new RuntimeError(`Expected second argument to be of type array or string, but found ${toString(typeOf(haystack))} instead.`);\n   }\n\n   if (this.fromIndex) {\n   const fromIndex = (this.fromIndex.evaluate(ctx): number);\n   return haystack.indexOf(needle, fromIndex);\n   }\n\n   return haystack.indexOf(needle);\n }\n\n eachChild(fn: (_: Expression) => void) {\n   fn(this.needle);\n   fn(this.haystack);\n   if (this.fromIndex) {\n   fn(this.fromIndex);\n   }\n }\n\n outputDefined():

boolean {\n return false;\n }\n\n serialize(): SerializedExpression {\n if (this.fromIndex != null && this.fromIndex !== undefined) {\n const fromIndex = this.fromIndex.serialize();\n return [\"index-of\", this.needle.serialize(), this.haystack.serialize(), fromIndex];\n }\n return [\"index-of\", this.needle.serialize(), this.haystack.serialize()];\n }\n}\n\nexport default IndexOf;\n","// @flow\n\nimport assert from 'assert';\n\nimport {typeOf} from '../values.js';\nimport {ValueType, type Type} from '../types.js';\n\nimport type {Expression, SerializedExpression} from '../expression.js';\nimport type ParsingContext from '../parsing_context.js';\nimport type EvaluationContext from '../evaluation_context.js';\n\n// Map input label values to output expression index\ntype Cases = {[number | string]: number};\n\nclass Match implements Expression {\n type: Type;\n inputType: Type;\n\n input: Expression;\n cases: Cases;\n outputs: Array<Expression>;\n otherwise: Expression;\n\n constructor(inputType: Type, outputType: Type, input: Expression, cases: Cases, outputs: Array<Expression>, otherwise: Expression) {\n this.inputType = inputType;\n this.type = outputType;\n this.input = input;\n this.cases = cases;\n this.outputs = outputs;\n this.otherwise = otherwise;\n }\n\n static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?Match {\n if (args.length < 5)\n return context.error(`Expected at least 4 arguments, but found only ${args.length - 1}.`);\n if (args.length % 2 !== 1)\n return context.error(`Expected an even number of arguments.`);\n\n let inputType;\n let outputType;\n if (context.expectedType && context.expectedType.kind !== 'value') {\n outputType = context.expectedType;\n }\n const cases = {};\n const outputs = [];\n for (let i = 2; i < args.length - 1; i += 2) {\n let labels = args[i];\n const value = args[i + 1];\n\n if (!Array.isArray(labels)) {\n labels = [labels];\n }\n\n const labelContext = context.concat(i);\n if (labels.length === 0) {\n return labelContext.error('Expected at least one branch label.');\n }\n\n for (const label of labels) {\n if (typeof label !== 'number' && typeof label !== 'string') {\n return labelContext.error(`Branch labels must be numbers or strings.`);\n } else if (typeof label === 'number' && Math.abs(label) > Number.MAX_SAFE_INTEGER) {\n return labelContext.error(`Branch labels must be integers no larger than ${Number.MAX_SAFE_INTEGER}.`);\n\n } else if (typeof label === 'number' && Math.floor(label) !== label) {\n return labelContext.error(`Numeric branch labels must be integer values.`);\n\n } else if (!inputType) {\n inputType = typeOf(label);\n } else if (labelContext.checkSubtype(inputType, typeOf(label))) {\n return null;\n }\n\n if (typeof cases[String(label)] !== 'undefined') {\n return labelContext.error('Branch labels must be unique.');\n }\n\n cases[String(label)] = outputs.length;\n }\n\n const result = context.parse(value, i, outputType);\n if (!result) return null;\n outputType = outputType || result.type;\n outputs.push(result);\n }\n\n const input = context.parse(args[1], 1, ValueType);\n if (!input) return null;\n\n const otherwise = context.parse(args[args.length - 1], args.length - 1, outputType);\n if (!otherwise) return null;\n\n assert(inputType && outputType);\n\n if (input.type.kind !== 'value' && context.concat(1).checkSubtype((inputType: any), input.type)) {\n return null;\n }\n\n return new Match((inputType: any), (outputType: any), input, cases, outputs, otherwise);\n }\n\n evaluate(ctx: EvaluationContext): any {\n const input = (this.input.evaluate(ctx): any);\n const output = (typeOf(input) === this.inputType && this.outputs[this.cases[input]]) || this.otherwise;\n return output.evaluate(ctx);\n }\n\n eachChild(fn: (_: Expression) => void) {\n fn(this.input);\n this.outputs.forEach(fn);\n fn(this.otherwise);\n }\n\n outputDefined(): boolean {\n return this.outputs.every(out => out.outputDefined()) && this.otherwise.outputDefined();\n }\n\n serialize(): SerializedExpression {\n const serialized = [\"match\", this.input.serialize()];\n\n // Sort so serialization has an arbitrary defined order, even though\n // branch order doesn't affect evaluation\n const sortedLabels = Object.keys(this.cases).sort();\n\n // Group branches by unique match expression to support condensed\n // serializations of the form [case1, case2, ...] -> matchExpression\n const groupedByOutput: Array<[number, Array<number | string>]> = [];\n const outputLookup: {[index: number]: number} = {}; // lookup index into groupedByOutput for a given output expression\n for (const label of sortedLabels) {\n const outputIndex = outputLookup[this.cases[label]];\n if (outputIndex === undefined) {\n // First time seeing this output, add it to the end of the grouped

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list\n            outputLookup[this.cases[label]] = groupedByOutput.length;\n
groupedByOutput.push([this.cases[label], [label]]);\n          } else {\n            // We've seen this expression before,
add the label to that output's group\n            groupedByOutput[outputIndex][1].push(label);\n          }\n        }\n\n
    const coerceLabel = (label) => this.inputType.kind === 'number' ? Number(label) : label;\n\n        for (const
[outputIndex, labels] of groupedByOutput) {\n          if (labels.length === 1) {\n            // Only a single label
matches this output expression\n            serialized.push(coerceLabel(labels[0]));\n          } else {\n            //
Array of literal labels pointing to this output expression\n            serialized.push(labels.map(coerceLabel));\n
        }\n          serialized.push(this.outputs[outputIndex].serialize());\n        }\n
serialized.push(this.otherwise.serialize());\n        return serialized;\n    }\n}\n\nexport default Match;\n","//
@flow\n\nimport assert from 'assert';\n\nimport {BooleanType} from '../types.js';\n\nimport type {Expression,
SerializedExpression} from '../expression.js';\nimport type ParsingContext from '../parsing_context.js';\nimport type
EvaluationContext from '../evaluation_context.js';\nimport type {Type} from '../types.js';\n\ntype Branches =
Array<[Expression, Expression]>;\n\nclass Case implements Expression {\n    type: Type;\n\n    branches:
Branches;\n    otherwise: Expression;\n\n    constructor(type: Type, branches: Branches, otherwise: Expression) {\n
    this.type = type;\n        this.branches = branches;\n        this.otherwise = otherwise;\n    }\n\n    static parse(args:
$ReadOnlyArray<mixed>, context: ParsingContext): ?Case {\n        if (args.length < 4)\n            return
context.error(`Expected at least 3 arguments, but found only ${args.length - 1}.`);\n        if (args.length % 2 !== 0)\n
            return context.error(`Expected an odd number of arguments.`);\n\n        let outputType: ?Type;\n        if
(context.expectedType && context.expectedType.kind !== 'value') {\n            outputType =
context.expectedType;\n        }\n\n        const branches = [];\n        for (let i = 1; i < args.length - 1; i += 2) {\n
const test = context.parse(args[i], i, BooleanType);\n            if (!test) return null;\n\n            const result =
context.parse(args[i + 1], i + 1, outputType);\n            if (!result) return null;\n\n            branches.push([test,
result]);\n\n            outputType = outputType || result.type;\n        }\n\n        const otherwise =
context.parse(args[args.length - 1], args.length - 1, outputType);\n        if (!otherwise) return null;\n\n
assert(outputType);\n        return new Case((outputType: any), branches, otherwise);\n    }\n\n    evaluate(ctx:
EvaluationContext): any {\n        for (const [test, expression] of this.branches) {\n            if (test.evaluate(ctx)) {\n
            return expression.evaluate(ctx);\n            }\n        }\n        return this.otherwise.evaluate(ctx);\n    }\n\n
eachChild(fn: (_: Expression) => void) {\n        for (const [test, expression] of this.branches) {\n            fn(test);\n
    fn(expression);\n        }\n        fn(this.otherwise);\n    }\n\n    outputDefined(): boolean {\n        return
this.branches.every(([_, out]) => out.outputDefined()) && this.otherwise.outputDefined();\n    }\n\n    serialize():
SerializedExpression {\n        const serialized = [\"case\"];\n        this.eachChild(child => {
serialized.push(child.serialize()); });\n        return serialized;\n    }\n}\n\nexport default Case;\n","// @flow\n\nimport
{ValueType, NumberType, StringType, array, toString, isValidType, isValidNativeType} from '../types.js';\nimport
RuntimeError from '../runtime_error.js';\nimport {typeOf} from '../values.js';\n\nimport type {Expression,
SerializedExpression} from '../expression.js';\nimport type ParsingContext from '../parsing_context.js';\nimport type
EvaluationContext from '../evaluation_context.js';\nimport type {Type} from '../types.js';\n\nclass Slice implements
Expression {\n    type: Type;\n    input: Expression;\n    beginIndex: Expression;\n    endIndex: ?Expression;\n\n
constructor(type: Type, input: Expression, beginIndex: Expression, endIndex?: Expression) {\n        this.type =
type;\n        this.input = input;\n        this.beginIndex = beginIndex;\n        this.endIndex = endIndex;\n\n    }\n\n
static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?Slice {\n        if (args.length <= 2 ||
args.length >= 5) {\n            return context.error(`Expected 3 or 4 arguments, but found ${args.length - 1}
instead.`);\n        }\n\n        const input = context.parse(args[1], 1, ValueType);\n        const beginIndex =
context.parse(args[2], 2, NumberType);\n\n        if (!input || !beginIndex) return null;\n\n        if
(!isValidType(input.type, [array(ValueType), StringType, ValueType])) {\n            return context.error(`Expected
first argument to be of type array or string, but found ${toString(input.type)} instead`);\n        }\n\n        if
(args.length === 4) {\n            const endIndex = context.parse(args[3], 3, NumberType);\n            if (!endIndex)
return null;\n            return new Slice(input.type, input, beginIndex, endIndex);\n        } else {\n            return new
Slice(input.type, input, beginIndex);\n        }\n    }\n\n    evaluate(ctx: EvaluationContext): any {\n        const input =
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(this.input.evaluate(ctx): any);\n const beginIndex = (this.beginIndex.evaluate(ctx): number);\n\n if (!isValidNativeType(input, ['string', 'array'])) {\n throw new RuntimeError(`Expected first argument to be of type array or string, but found ${toString(typeOf(input))} instead.`);\n }\n\n if (this.endIndex) {\n const endIndex = (this.endIndex.evaluate(ctx): number);\n return input.slice(beginIndex, endIndex);\n }\n\n return input.slice(beginIndex);\n }\n\n eachChild(fn: (_: Expression) => void) {\n fn(this.input);\n fn(this.beginIndex);\n if (this.endIndex) {\n fn(this.endIndex);\n }\n }\n\n outputDefined(): boolean {\n return false;\n }\n\n serialize(): SerializedExpression {\n if (this.endIndex != null && this.endIndex !== undefined) {\n const endIndex = this.endIndex.serialize();\n return [\"slice\", this.input.serialize(), this.beginIndex.serialize(), endIndex];\n }\n return [\"slice\", this.input.serialize(), this.beginIndex.serialize()];\n }\n}\n\nexport default Slice;\n","// @flow\n\nimport {toString, ValueType, BooleanType, CollatorType} from '../types.js';\nimport Assertion from './assertion.js';\nimport {typeOf} from '../values.js';\nimport RuntimeError from '../runtime_error.js';\n\nimport type {Expression, SerializedExpression, ExpressionRegistration} from '../expression.js';\nimport type EvaluationContext from '../evaluation_context.js';\nimport type ParsingContext from '../parsing_context.js';\nimport type {Type} from '../types.js';\n\ntype ComparisonOperator = '==' | '!=' | '<' | '>' | '<=' | '>=' ;\n\nfunction isComparableType(op: ComparisonOperator, type: Type) {\n if (op === '==' || op === '!=') {\n // equality operator\n return type.kind === 'boolean' ||\n type.kind === 'string' ||\n type.kind === 'number' ||\n type.kind === 'null' ||\n type.kind === 'value';\n } else {\n // ordering operator\n return type.kind === 'string' ||\n type.kind === 'number' ||\n type.kind === 'value';\n }\n}\n\nfunction eq(ctx: EvaluationContext, a: any, b: any): boolean { return a === b; }\nfunction neq(ctx: EvaluationContext, a: any, b: any): boolean { return a !== b; }\nfunction lt(ctx: EvaluationContext, a: any, b: any): boolean { return a < b; }\nfunction gt(ctx: EvaluationContext, a: any, b: any): boolean { return a > b; }\nfunction lteq(ctx: EvaluationContext, a: any, b: any): boolean { return a <= b; }\nfunction gteq(ctx: EvaluationContext, a: any, b: any): boolean { return a >= b; }\n\nfunction eqCollate(ctx: EvaluationContext, a: any, b: any, c: any): boolean { return c.compare(a, b) === 0; }\nfunction neqCollate(ctx: EvaluationContext, a: any, b: any, c: any): boolean { return !eqCollate(ctx, a, b, c); }\nfunction ltCollate(ctx: EvaluationContext, a: any, b: any, c: any): boolean { return c.compare(a, b) < 0; }\nfunction gtCollate(ctx: EvaluationContext, a: any, b: any, c: any): boolean { return c.compare(a, b) > 0; }\nfunction lteqCollate(ctx: EvaluationContext, a: any, b: any, c: any): boolean { return c.compare(a, b) <= 0; }\nfunction gteqCollate(ctx: EvaluationContext, a: any, b: any, c: any): boolean { return c.compare(a, b) >= 0; }\n\n/**\n * Special form for comparison operators, implementing the signatures:\n * - (T, T, ?Collator) => boolean\n * - (T, value, ?Collator) => boolean\n * - (value, T, ?Collator) => boolean\n *\n * For inequalities, T must be either value, string, or number. For ==/!=, it\n * can also be boolean or null.\n *\n * Equality semantics are equivalent to Javascript's strict equality (===/!==)\n * -- i.e., when the arguments' types don't match, == evaluates to false, != to\n * true.\n *\n * When types don't match in an ordering comparison, a runtime error is thrown.\n *\n * @private\n */\nfunction makeComparison(op: ComparisonOperator, compareBasic: (EvaluationContext, any, any) => boolean, compareWithCollator: (EvaluationContext, any, any, any) => boolean): ExpressionRegistration {\n const isOrderComparison = op !== '==' && op !== '!=';\n\n return class Comparison implements Expression {\n type: Type;\n lhs: Expression;\n rhs: Expression;\n collator: ?Expression;\n hasUntypedArgument: boolean;\n\n constructor(lhs: Expression, rhs: Expression, collator: ?Expression) {\n this.type = BooleanType;\n this.lhs = lhs;\n this.rhs = rhs;\n this.collator = collator;\n this.hasUntypedArgument = lhs.type.kind === 'value' || rhs.type.kind === 'value';\n }\n\n static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?Expression {\n if (args.length !== 3 && args.length !== 4)\n return context.error(`Expected two or three arguments.`);\n\n const op: ComparisonOperator = (args[0]: any);\n\n let lhs = context.parse(args[1], 1, ValueType);\n if (!lhs) return null;\n if (!isComparableType(op, lhs.type)) {\n return context.concat(1).error(`\"${op}\" comparisons are not supported for type '${toString(lhs.type)}'.`);\n }\n let rhs = context.parse(args[2], 2, ValueType);\n if (!rhs) return null;\n if (!isComparableType(op, rhs.type)) {\n return context.concat(2).error(`\"${op}\" comparisons are not supported for type '${toString(rhs.type)}'.`);\n }\n\n

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    if (\n      lhs.type.kind !== rhs.type.kind &&\n      lhs.type.kind !== 'value' &&\n      rhs.type.kind !== 'value'\n    ) {\n      return context.error(`Cannot compare types '${toString(lhs.type)}' and '${toString(rhs.type)}'.`);\n    }\n\n    if (isOrderComparison) {\n      // typing rules specific to less/greater than operators\n      if (lhs.type.kind === 'value' && rhs.type.kind !== 'value') {\n        // (value, T)\n        lhs = new Assertion(rhs.type, [lhs]);\n      } else if (lhs.type.kind !== 'value' && rhs.type.kind === 'value') {\n        // (T, value)\n        rhs = new Assertion(lhs.type, [rhs]);\n      }\n    }\n\n    let collator = null;\n    if (args.length === 4) {\n      if (\n        lhs.type.kind !== 'string' &&\n        rhs.type.kind !== 'string' &&\n        lhs.type.kind !== 'value' &&\n        rhs.type.kind !== 'value'\n      ) {\n        return context.error(`Cannot use collator to compare non-string types.`);\n      }\n      collator = context.parse(args[3], 3, CollatorType);\n      if (!collator) return null;\n    }\n\n    return new Comparison(lhs, rhs, collator);\n  }\n\n  evaluate(ctx: EvaluationContext): boolean {\n    const lhs = this.lhs.evaluate(ctx);\n    const rhs = this.rhs.evaluate(ctx);\n\n    if (isOrderComparison && this.hasUntypedArgument) {\n      const lt = typeOf(lhs);\n      const rt = typeOf(rhs);\n      // check that type is string or number, and equal\n      if (lt.kind !== rt.kind || !(lt.kind === 'string' || lt.kind === 'number')) {\n        throw new RuntimeError(`Expected arguments for \"${op}\" to be (string, string) or (number, number), but found (${lt.kind}, ${rt.kind}) instead.`);\n      }\n    }\n\n    if (this.collator && !isOrderComparison && this.hasUntypedArgument) {\n      const lt = typeOf(lhs);\n      const rt = typeOf(rhs);\n      if (lt.kind !== 'string' || rt.kind !== 'string') {\n        return compareBasic(ctx, lhs, rhs);\n      }\n    }\n\n    return this.collator ?\n      compareWithCollator(ctx, lhs, rhs, this.collator.evaluate(ctx)) :\n      compareBasic(ctx, lhs, rhs);\n  }\n\n  eachChild(fn: (_: Expression) => void) {\n    fn(this.lhs);\n    fn(this.rhs);\n    if (this.collator) {\n      fn(this.collator);\n    }\n  }\n\n  outputDefined(): boolean {\n    return true;\n  }\n\n  serialize(): SerializedExpression {\n    const serialized = [op];\n    this.eachChild(child => { serialized.push(child.serialize()); });\n    return serialized;\n  }\n};\n}\n\nexport const Equals: $Call<typeof makeComparison, '==', typeof eq, typeof eqCollate> = makeComparison('==', eq, eqCollate);\nexport const NotEquals: $Call<typeof makeComparison, '!=', typeof neq, typeof neqCollate> = makeComparison('!=', neq, neqCollate);\nexport const LessThan: $Call<typeof makeComparison, '<', typeof lt, typeof ltCollate> = makeComparison('<', lt, ltCollate);\nexport const GreaterThan: $Call<typeof makeComparison, '>', typeof gt, typeof gtCollate> = makeComparison('>', gt, gtCollate);\nexport const LessThanOrEqual: $Call<typeof makeComparison, '<=', typeof lteq, typeof lteqCollate> = makeComparison('<=', lteq, lteqCollate);\nexport const GreaterThanOrEqual: $Call<typeof makeComparison, '>=', typeof gteq, typeof gteqCollate> = makeComparison('>=', gteq, gteqCollate);\n","// @flow\n\nimport {StringType, NumberType} from '../types.js';\n\nimport type {Expression, SerializedExpression} from '../expression.js';\nimport type EvaluationContext from '../evaluation_context.js';\nimport type ParsingContext from '../parsing_context.js';\nimport type {Type} from '../types.js';\n\ndeclare var Intl: {\n  NumberFormat: Class<Intl$NumberFormat>\n};\n\ndeclare class Intl$NumberFormat {\n  constructor (\n    locales?: string | string[],\n    options?: NumberFormatOptions\n  ): Intl$NumberFormat;\n\n  static (\n    locales?: string | string[],\n    options?: NumberFormatOptions\n  ): Intl$NumberFormat;\n\n  format(a: number): string;\n\n  resolvedOptions(): any;\n}\n\ntype NumberFormatOptions = {\n  style?: 'decimal' | 'currency' | 'percent' | 'unit';\n  currency?: null | string;\n  unit?: null | string;\n  minimumFractionDigits?: null | string;\n  maximumFractionDigits?: null | string;\n};\n\nexport default class NumberFormat implements Expression {\n  type: Type;\n  number: Expression;\n  locale: Expression | null;   // BCP 47 language tag\n  currency: Expression | null; // ISO 4217 currency code, required if style=currency\n  unit: Expression | null;     // Simple units sanctioned for use in ECMAScript, required if style=unit. https://tc39.es/proposal-unified-intl-numberformat/section6/locales-currencies-tz_proposed_out.html#sec-issanctionedsimpleunitidentifier\n  minFractionDigits: Expression | null; // Default 0\n  maxFractionDigits: Expression | null; // Default 3\n\n  constructor(number: Expression,\n              locale: Expression | null,\n              currency: Expression | null,\n              unit: Expression | null,\n              minFractionDigits: Expression | null,\n              maxFractionDigits: Expression | null) {\n    this.type =
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StringType;\n        this.number = number;\n        this.locale = locale;\n        this.currency = currency;\n        this.unit = unit;\n        this.minFractionDigits = minFractionDigits;\n        this.maxFractionDigits = maxFractionDigits;\n    }\n\n    static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?Expression {\n        if (args.length !== 3)\n            return context.error(`Expected two arguments.`);\n\n        const number = context.parse(args[1], 1, NumberType);\n        if (!number) return null;\n\n        const options = (args[2]: any);\n        if (typeof options !== \"object\" || Array.isArray(options))\n            return context.error(`NumberFormat options argument must be an object.`);\n\n        let locale = null;\n        if (options['locale']) {\n            locale = context.parse(options['locale'], 1, StringType);\n            if (!locale) return null;\n        }\n\n        let currency = null;\n        if (options['currency']) {\n            currency = context.parse(options['currency'], 1, StringType);\n            if (!currency) return null;\n        }\n\n        let unit = null;\n        if (options['unit']) {\n            unit = context.parse(options['unit'], 1, StringType);\n            if (!unit) return null;\n        }\n\n        let minFractionDigits = null;\n        if (options['min-fraction-digits']) {\n            minFractionDigits = context.parse(options['min-fraction-digits'], 1, NumberType);\n            if (!minFractionDigits) return null;\n        }\n\n        let maxFractionDigits = null;\n        if (options['max-fraction-digits']) {\n            maxFractionDigits = context.parse(options['max-fraction-digits'], 1, NumberType);\n            if (!maxFractionDigits) return null;\n        }\n\n        return new NumberFormat(number, locale, currency, unit, minFractionDigits, maxFractionDigits);\n    }\n\n    evaluate(ctx: EvaluationContext): string {\n        return new Intl.NumberFormat(this.locale ? this.locale.evaluate(ctx) : [],\n            {\n                style:\n                    (this.currency && \"currency\") ||\n                    (this.unit && \"unit\") ||\n                    \"decimal\",\n                currency: this.currency ? this.currency.evaluate(ctx) : undefined,\n                unit: this.unit ? this.unit.evaluate(ctx) : undefined,\n                minimumFractionDigits: this.minFractionDigits ? this.minFractionDigits.evaluate(ctx) : undefined,\n                maximumFractionDigits: this.maxFractionDigits ? this.maxFractionDigits.evaluate(ctx) : undefined,\n            }).format(this.number.evaluate(ctx));\n    }\n\n    eachChild(fn: (_: Expression) => void) {\n        fn(this.number);\n        if (this.locale) {\n            fn(this.locale);\n        }\n        if (this.currency) {\n            fn(this.currency);\n        }\n        if (this.unit) {\n            fn(this.unit);\n        }\n        if (this.minFractionDigits) {\n            fn(this.minFractionDigits);\n        }\n        if (this.maxFractionDigits) {\n            fn(this.maxFractionDigits);\n        }\n    }\n\n    outputDefined(): boolean {\n        return false;\n    }\n\n    serialize(): SerializedExpression {\n        const options = {};\n        if (this.locale) {\n            options['locale'] = this.locale.serialize();\n        }\n        if (this.currency) {\n            options['currency'] = this.currency.serialize();\n        }\n        if (this.unit) {\n            options['unit'] = this.unit.serialize();\n        }\n        if (this.minFractionDigits) {\n            options['min-fraction-digits'] = this.minFractionDigits.serialize();\n        }\n        if (this.maxFractionDigits) {\n            options['max-fraction-digits'] = this.maxFractionDigits.serialize();\n        }\n        return [\"number-format\", this.number.serialize(), options];\n    }\n}\n","// @flow\n\nimport {NumberType, toString} from '../types.js';\n\nimport {typeOf} from '../values.js';\nimport RuntimeError from '../runtime_error.js';\n\nimport type {Expression, SerializedExpression} from '../expression.js';\nimport type ParsingContext from '../parsing_context.js';\nimport type EvaluationContext from '../evaluation_context.js';\nimport type {Type} from '../types.js';\n\nclass Length implements Expression {\n    type: Type;\n    input: Expression;\n\n    constructor(input: Expression) {\n        this.type = NumberType;\n        this.input = input;\n    }\n\n    static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?Length {\n        if (args.length !== 2)\n            return context.error(`Expected 1 argument, but found ${args.length - 1} instead.`);\n\n        const input = context.parse(args[1], 1);\n        if (!input) return null;\n\n        if (input.type.kind !== 'array' && input.type.kind !== 'string' && input.type.kind !== 'value')\n            return context.error(`Expected argument of type string or array, but found ${toString(input.type)} instead.`);\n\n        return new Length(input);\n    }\n\n    evaluate(ctx: EvaluationContext): any | number {\n        const input = this.input.evaluate(ctx);\n        if (typeof input === 'string') {\n            return input.length;\n        } else if (Array.isArray(input)) {\n            return input.length;\n        } else {\n            throw new RuntimeError(`Expected value to be of type string or array, but found ${toString(typeOf(input))} instead.`);\n        }\n    }\n\n    eachChild(fn: (_: Expression) => void) {\n        fn(this.input);\n    }\n\n    outputDefined(): boolean {\n        return false;\n    }\n\n    serialize(): SerializedExpression {\n        const serialized = [\"length\"];\n        this.eachChild(child => { serialized.push(child.serialize()); });\n        return serialized;\n
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}\n}\n\nexport default Length;\n","// @flow\n\nimport {\n  type Type,\n  NumberType,\n  StringType,\n  BooleanType,\n  ColorType,\n  ObjectType,\n  ValueType,\n  ErrorType,\n  CollatorType,\n  array,\n  toString as typeToString\n} from '../types.js';\n\nimport {typeOf, Color, validateRGBA, toString as valueToString} from '../values.js';\nimport CompoundExpression from '../compound_expression.js';\nimport RuntimeError from '../runtime_error.js';\nimport Let from './let.js';\nimport Var from './var.js';\nimport Literal from './literal.js';\nimport Assertion from './assertion.js';\nimport Coercion from './coercion.js';\nimport At from './at.js';\nimport In from './in.js';\nimport IndexOf from './index_of.js';\nimport Match from './match.js';\nimport Case from './case.js';\nimport Slice from './slice.js';\nimport Step from './step.js';\nimport Interpolate from './interpolate.js';\nimport Coalesce from './coalesce.js';\nimport {\n  Equals,\n  NotEquals,\n  LessThan,\n  GreaterThan,\n  LessThanOrEqual,\n  GreaterThanOrEqual\n} from './comparison.js';\nimport CollatorExpression from './collator.js';\nimport NumberFormat from './number_format.js';\nimport FormatExpression from './format.js';\nimport ImageExpression from './image.js';\nimport Length from './length.js';\nimport Within from './within.js';\n\nimport type {Varargs} from '../compound_expression.js';\nimport type {ExpressionRegistry} from '../expression.js';\n\nconst expressions: ExpressionRegistry = {\n  // special forms\n  '==': Equals,\n  '!=': NotEquals,\n  '>': GreaterThan,\n  '<': LessThan,\n  '>=': GreaterThanOrEqual,\n  '<=': LessThanOrEqual,\n  'array': Assertion,\n  'at': At,\n  'boolean': Assertion,\n  'case': Case,\n  'coalesce': Coalesce,\n  'collator': CollatorExpression,\n  'format': FormatExpression,\n  'image': ImageExpression,\n  'in': In,\n  'index-of': IndexOf,\n  'interpolate': Interpolate,\n  'interpolate-hcl': Interpolate,\n  'interpolate-lab': Interpolate,\n  'length': Length,\n  'let': Let,\n  'literal': Literal,\n  'match': Match,\n  'number': Assertion,\n  'number-format': NumberFormat,\n  'object': Assertion,\n  'slice': Slice,\n  'step': Step,\n  'string': Assertion,\n  'to-boolean': Coercion,\n  'to-color': Coercion,\n  'to-number': Coercion,\n  'to-string': Coercion,\n  'var': Var,\n  'within': Within\n};\n\nfunction rgba(ctx, [r, g, b, a]) {\n  r = r.evaluate(ctx);\n  g = g.evaluate(ctx);\n  b = b.evaluate(ctx);\n  const alpha = a ? a.evaluate(ctx) : 1;\n  const error = validateRGBA(r, g, b, alpha);\n  if (error) throw new RuntimeError(error);\n  return new Color(r / 255 * alpha, g / 255 * alpha, b / 255 * alpha, alpha);\n}\n\nfunction has(key, obj) {\n  return key in obj;\n}\n\nfunction get(key, obj) {\n  const v = obj[key];\n  return typeof v === 'undefined' ? null : v;\n}\n\nfunction binarySearch(v, a, i, j) {\n  while (i <= j) {\n    const m = (i + j) >> 1;\n    if (a[m] === v)\n      return true;\n    if (a[m] > v)\n      j = m - 1;\n    else\n      i = m + 1;\n  }\n  return false;\n}\n\nfunction varargs(type: Type): Varargs {\n  return {type};\n}\n\nCompoundExpression.register(expressions, {\n  'error': [\n    ErrorType,\n    [StringType],\n    (ctx, [v]) => { throw new RuntimeError(v.evaluate(ctx)); }\n  ],\n  'typeof': [\n    StringType,\n    [ValueType],\n    (ctx, [v]) => typeToString(typeOf(v.evaluate(ctx)))\n  ],\n  'to-rgba': [\n    array(NumberType, 4),\n    [ColorType],\n    (ctx, [v]) => {\n      return v.evaluate(ctx).toArray();\n    }\n  ],\n  'rgb': [\n    ColorType,\n    [NumberType, NumberType, NumberType],\n    rgba\n  ],\n  'rgba': [\n    ColorType,\n    [NumberType, NumberType, NumberType, NumberType],\n    rgba\n  ],\n  'has': {\n    type: BooleanType,\n    overloads: [\n      [\n        [StringType],\n        (ctx, [key]) => has(key.evaluate(ctx), ctx.properties())\n      ], [\n        [StringType, ObjectType],\n        (ctx, [key, obj]) => has(key.evaluate(ctx), obj.evaluate(ctx))\n      ]\n    ]\n  },\n  'get': {\n    type: ValueType,\n    overloads: [\n      [\n        [StringType],\n        (ctx, [key]) => get(key.evaluate(ctx), ctx.properties())\n      ], [\n        [StringType, ObjectType],\n        (ctx, [key, obj]) => get(key.evaluate(ctx), obj.evaluate(ctx))\n      ]\n    ]\n  },\n  'feature-state': [\n    ValueType,\n    [StringType],\n    (ctx, [key]) => get(key.evaluate(ctx), ctx.featureState || {})\n  ],\n  'properties': [\n    ObjectType,\n    [],\n    (ctx) => ctx.properties()\n  ],\n  'geometry-type': [\n    StringType,\n    [],\n    (ctx) => ctx.geometryType()\n  ],\n  'id': [\n    ValueType,\n    [],\n    (ctx) => ctx.id()\n  ],\n  'zoom': [\n    NumberType,\n    [],\n    (ctx) => ctx.globals.zoom\n  ],\n  'pitch': [\n    NumberType,\n    [],\n    (ctx) => ctx.globals.pitch || 0\n  ],\n  'distance-from-center': [\n    NumberType,\n    [],\n    (ctx) => ctx.distanceFromCenter()\n  ],\n  'heatmap-density': [\n    NumberType,\n    [],\n    (ctx) => ctx.globals.heatmapDensity || 0\n  ],\n  'line-progress': [\n    NumberType,\n    [],\n    (ctx) => ctx.globals.lineProgress || 0\n  ],\n  'sky-radial-progress': [\n    NumberType,\n    [],\n    (ctx) =>
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ctx.globals.skyRadialProgress || 0\n ],\n 'accumulated': [\n ValueType,\n [],\n (ctx) =>
ctx.globals.accumulated === undefined ? null : ctx.globals.accumulated\n ],\n '+': [\n NumberType,\n
varargs(NumberType),\n (ctx, args) => {\n let result = 0;\n for (const arg of args) {\n
result += arg.evaluate(ctx);\n }\n return result;\n }\n ],\n '*': [\n NumberType,\n
varargs(NumberType),\n (ctx, args) => {\n let result = 1;\n for (const arg of args) {\n
result *= arg.evaluate(ctx);\n }\n return result;\n }\n ],\n '-': {\n type: NumberType,\n
overloads: [\n [\n [NumberType, NumberType],\n (ctx, [a, b]) => a.evaluate(ctx) -
b.evaluate(ctx)\n ], [\n [NumberType],\n (ctx, [a]) => -a.evaluate(ctx)\n ]\n ]\n
},\n '/': [\n NumberType,\n [NumberType, NumberType],\n (ctx, [a, b]) => a.evaluate(ctx) /
b.evaluate(ctx)\n ],\n '%': [\n NumberType,\n [NumberType, NumberType],\n (ctx, [a, b]) =>
a.evaluate(ctx) % b.evaluate(ctx)\n ],\n 'ln2': [\n NumberType,\n [],\n () => Math.LN2\n ],\n 'pi':
[\n NumberType,\n [],\n () => Math.PI\n ],\n 'e': [\n NumberType,\n [],\n () =>
Math.E\n ],\n '^': [\n NumberType,\n [NumberType, NumberType],\n (ctx, [b, e]) =>
Math.pow(b.evaluate(ctx), e.evaluate(ctx))\n ],\n 'sqrt': [\n NumberType,\n [NumberType],\n (ctx,
[x]) => Math.sqrt(x.evaluate(ctx))\n ],\n 'log10': [\n NumberType,\n [NumberType],\n (ctx, [n]) =>
Math.log(n.evaluate(ctx)) / Math.LN10\n ],\n 'ln': [\n NumberType,\n [NumberType],\n (ctx, [n])
=> Math.log(n.evaluate(ctx))\n ],\n 'log2': [\n NumberType,\n [NumberType],\n (ctx, [n]) =>
Math.log(n.evaluate(ctx)) / Math.LN2\n ],\n 'sin': [\n NumberType,\n [NumberType],\n (ctx, [n])
=> Math.sin(n.evaluate(ctx))\n ],\n 'cos': [\n NumberType,\n [NumberType],\n (ctx, [n]) =>
Math.cos(n.evaluate(ctx))\n ],\n 'tan': [\n NumberType,\n [NumberType],\n (ctx, [n]) =>
Math.tan(n.evaluate(ctx))\n ],\n 'asin': [\n NumberType,\n [NumberType],\n (ctx, [n]) =>
Math.asin(n.evaluate(ctx))\n ],\n 'acos': [\n NumberType,\n [NumberType],\n (ctx, [n]) =>
Math.acos(n.evaluate(ctx))\n ],\n 'atan': [\n NumberType,\n [NumberType],\n (ctx, [n]) =>
Math.atan(n.evaluate(ctx))\n ],\n 'min': [\n NumberType,\n varargs(NumberType),\n (ctx, args) =>
Math.min(...args.map(arg => arg.evaluate(ctx)))\n ],\n 'max': [\n NumberType,\n
varargs(NumberType),\n (ctx, args) => Math.max(...args.map(arg => arg.evaluate(ctx)))\n ],\n 'abs': [\n
NumberType,\n [NumberType],\n (ctx, [n]) => Math.abs(n.evaluate(ctx))\n ],\n 'round': [\n
NumberType,\n [NumberType],\n (ctx, [n]) => {\n const v = n.evaluate(ctx);\n // Javascript's
Math.round() rounds towards +Infinity for halfway\n // values, even when they're negative. It's more common
to round\n // away from 0 (e.g., this is what python and C++ do)\n return v < 0 ? -Math.round(-v) :
Math.round(v);\n }\n ],\n 'floor': [\n NumberType,\n [NumberType],\n (ctx, [n]) =>
Math.floor(n.evaluate(ctx))\n ],\n 'ceil': [\n NumberType,\n [NumberType],\n (ctx, [n]) =>
Math.ceil(n.evaluate(ctx))\n ],\n 'filter-==': [\n BooleanType,\n [StringType, ValueType],\n (ctx, [k,
v]) => ctx.properties()[(k: any).value] === (v: any).value\n ],\n 'filter-id-==': [\n BooleanType,\n
[ValueType],\n (ctx, [v]) => ctx.id() === (v: any).value\n ],\n 'filter-type-==': [\n BooleanType,\n
[StringType],\n (ctx, [v]) => ctx.geometryType() === (v: any).value\n ],\n 'filter-<': [\n BooleanType,\n
  [StringType, ValueType],\n (ctx, [k, v]) => {\n const a = ctx.properties()[(k: any).value];\n
const b = (v: any).value;\n return typeof a === typeof b && a < b;\n }\n ],\n 'filter-id-<': [\n
BooleanType,\n [ValueType],\n (ctx, [v]) => {\n const a = ctx.id();\n const b = (v:
any).value;\n return typeof a === typeof b && a < b;\n }\n ],\n 'filter->': [\n BooleanType,\n
[StringType, ValueType],\n (ctx, [k, v]) => {\n const a = ctx.properties()[(k: any).value];\n const b
= (v: any).value;\n return typeof a === typeof b && a > b;\n }\n ],\n 'filter-id->': [\n
BooleanType,\n [ValueType],\n (ctx, [v]) => {\n const a = ctx.id();\n const b = (v:
any).value;\n return typeof a === typeof b && a > b;\n }\n ],\n 'filter-<=': [\n BooleanType,\n
[StringType, ValueType],\n (ctx, [k, v]) => {\n const a = ctx.properties()[(k: any).value];\n const b
= (v: any).value;\n return typeof a === typeof b && a <= b;\n }\n ],\n 'filter-id-<=': [\n
BooleanType,\n [ValueType],\n (ctx, [v]) => {\n const a = ctx.id();\n const b = (v:
any).value;\n return typeof a === typeof b && a <= b;\n }\n ],\n 'filter->=': [\n BooleanType,\n
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[StringType, ValueType],\n (ctx, [k, v]) => {\n const a = ctx.properties()[(k: any).value];\n const b = (v: any).value;\n return typeof a === typeof b && a >= b;\n }\n ],\n 'filter-id->=': [\n BooleanType,\n [ValueType],\n (ctx, [v]) => {\n const a = ctx.id();\n const b = (v: any).value;\n return typeof a === typeof b && a >= b;\n }\n ],\n 'filter-has': [\n BooleanType,\n [ValueType],\n (ctx, [k]) => (k: any).value in ctx.properties()\n ],\n 'filter-has-id': [\n BooleanType,\n [],\n (ctx) => (ctx.id() !== null && ctx.id() !== undefined)\n ],\n 'filter-type-in': [\n BooleanType,\n [array(StringType)],\n (ctx, [v]) => (v: any).value.indexOf(ctx.geometryType()) >= 0\n ],\n 'filter-id-in': [\n BooleanType,\n [array(ValueType)],\n (ctx, [v]) => (v: any).value.indexOf(ctx.id()) >= 0\n ],\n 'filter-in-small': [\n BooleanType,\n [StringType, array(ValueType)],\n // assumes v is an array literal\n (ctx, [k, v]) => (v: any).value.indexOf(ctx.properties()[(k: any).value]) >= 0\n ],\n 'filter-in-large': [\n BooleanType,\n [StringType, array(ValueType)],\n // assumes v is a array literal with values sorted in ascending order and of a single type\n (ctx, [k, v]) => binarySearch(ctx.properties()[(k: any).value], (v: any).value, 0, (v: any).value.length - 1)\n ],\n 'all': {\n type: BooleanType,\n overloads: [\n [\n [BooleanType, BooleanType],\n (ctx, [a, b]) => a.evaluate(ctx) && b.evaluate(ctx)\n ],\n [\n varargs(BooleanType),\n (ctx, args) => {\n for (const arg of args) {\n if (!arg.evaluate(ctx))\n return false;\n }\n return true;\n }\n ]\n ]\n },\n 'any': {\n type: BooleanType,\n overloads: [\n [\n [BooleanType, BooleanType],\n (ctx, [a, b]) => a.evaluate(ctx) || b.evaluate(ctx)\n ],\n [\n varargs(BooleanType),\n (ctx, args) => {\n for (const arg of args) {\n if (arg.evaluate(ctx))\n return true;\n }\n return false;\n }\n ]\n ]\n },\n '!': [\n BooleanType,\n [BooleanType],\n (ctx, [b]) => !b.evaluate(ctx)\n ],\n 'is-supported-script': [\n BooleanType,\n [StringType],\n // At parse time this will always return true, so we need to exclude this expression with isGlobalPropertyConstant\n (ctx, [s]) => {\n const isSupportedScript = ctx.globals && ctx.globals.isSupportedScript;\n if (isSupportedScript) {\n return isSupportedScript(s.evaluate(ctx));\n }\n return true;\n }\n ],\n 'upcase': [\n StringType,\n [StringType],\n (ctx, [s]) => s.evaluate(ctx).toUpperCase()\n ],\n 'downcase': [\n StringType,\n [StringType],\n (ctx, [s]) => s.evaluate(ctx).toLowerCase()\n ],\n 'concat': [\n StringType,\n varargs(ValueType),\n (ctx, args) => args.map(arg => valueToString(arg.evaluate(ctx))).join('')\n ],\n 'resolved-locale': [\n StringType,\n [CollatorType],\n (ctx, [collator]) => collator.evaluate(ctx).resolvedLocale()\n ]\n});\n\nexport default expressions;\n","// @flow\n\n/**\n * A type used for returning and propagating errors. The first element of the union\n * represents success and contains a value, and the second represents an error and\n * contains an error value.\n * @private\n */\nexport type Result<T, E> =\n | {| result: 'success', value: T |}\n | {| result: 'error', value: E |};\n\nexport function success<T, E>(value: T): Result<T, E> {\n return {result: 'success', value};\n}\n\nexport function error<T, E>(value: E): Result<T, E> {\n return {result: 'error', value};\n}\n","// @flow\n\nimport type {StylePropertySpecification} from '../style-spec.js';\n\nexport function supportsPropertyExpression(spec: StylePropertySpecification): boolean {\n return spec['property-type'] === 'data-driven';\n}\n\nexport function supportsZoomExpression(spec: StylePropertySpecification): boolean {\n return !!spec.expression && spec.expression.parameters.indexOf('zoom') > -1;\n}\n\nexport function supportsInterpolation(spec: StylePropertySpecification): boolean {\n return !!spec.expression && spec.expression.interpolated;\n}\n","// @flow\n\nexport default function getType(val: mixed): string {\n if (val instanceof Number) {\n return 'number';\n } else if (val instanceof String) {\n return 'string';\n } else if (val instanceof Boolean) {\n return 'boolean';\n } else if (Array.isArray(val)) {\n return 'array';\n } else if (val === null) {\n return 'null';\n } else {\n return typeof val;\n }\n}\n","\nimport * as colorSpaces from '../util/color_spaces.js';\nimport Color from '../util/color.js';\nimport extend from '../util/extend.js';\nimport getType from '../util/get_type.js';\nimport * as interpolate from '../util/interpolate.js';\nimport Interpolate from '../expression/definitions/interpolate.js';\nimport Formatted from '../expression/types/formatted.js';\nimport ResolvedImage from '../expression/types/resolved_image.js';\nimport {supportsInterpolation} from
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'../util/properties.js';\nimport {findStopLessThanOrEqualTo} from '../expression/stops.js';\n\nexport function isFunction(value) {\n  return typeof value === 'object' && value !== null && !Array.isArray(value);\n}\n\nfunction identityFunction(x) {\n  return x;\n}\n\nexport function createFunction(parameters, propertySpec) {\n  const isColor = propertySpec.type === 'color';\n  const zoomAndFeatureDependent = parameters.stops && typeof parameters.stops[0][0] === 'object';\n  const featureDependent = zoomAndFeatureDependent || parameters.property !== undefined;\n  const zoomDependent = zoomAndFeatureDependent || !featureDependent;\n  const type = parameters.type || (supportsInterpolation(propertySpec) ? 'exponential' : 'interval');\n\n  if (isColor) {\n    parameters = extend({}, parameters);\n\n    if (parameters.stops) {\n      parameters.stops = parameters.stops.map((stop) => {\n        return [stop[0], Color.parse(stop[1])];\n      });\n    }\n\n    if (parameters.default) {\n      parameters.default = Color.parse(parameters.default);\n    } else {\n      parameters.default = Color.parse(propertySpec.default);\n    }\n  }\n\n  if (parameters.colorSpace && parameters.colorSpace !== 'rgb' && !colorSpaces[parameters.colorSpace]) { // eslint-disable-line import/namespace\n    throw new Error(`Unknown color space: ${parameters.colorSpace}`);\n  }\n\n  let innerFun;\n  let hashedStops;\n  let categoricalKeyType;\n  if (type === 'exponential') {\n    innerFun = evaluateExponentialFunction;\n  } else if (type === 'interval') {\n    innerFun = evaluateIntervalFunction;\n  } else if (type === 'categorical') {\n    innerFun = evaluateCategoricalFunction;\n\n    // For categorical functions, generate an Object as a hashmap of the stops for fast searching\n    hashedStops = Object.create(null);\n    for (const stop of parameters.stops) {\n      hashedStops[stop[0]] = stop[1];\n    }\n\n    // Infer key type based on first stop key-- used to encforce strict type checking later\n    categoricalKeyType = typeof parameters.stops[0][0];\n\n  } else if (type === 'identity') {\n    innerFun = evaluateIdentityFunction;\n  } else {\n    throw new Error(`Unknown function type \"${type}\"`);\n  }\n\n  if (zoomAndFeatureDependent) {\n    const featureFunctions = {};\n    const zoomStops = [];\n    for (let s = 0; s < parameters.stops.length; s++) {\n      const stop = parameters.stops[s];\n      const zoom = stop[0].zoom;\n      if (featureFunctions[zoom] === undefined) {\n        featureFunctions[zoom] = {\n          zoom,\n          type: parameters.type,\n          property: parameters.property,\n          default: parameters.default,\n          stops: []\n        };\n        zoomStops.push(zoom);\n      }\n      featureFunctions[zoom].stops.push([stop[0].value, stop[1]]);\n    }\n\n    const featureFunctionStops = [];\n    for (const z of zoomStops) {\n      featureFunctionStops.push([featureFunctions[z].zoom, createFunction(featureFunctions[z], propertySpec)]);\n    }\n\n    const interpolationType = {name: 'linear'};\n    return {\n      kind: 'composite',\n      interpolationType,\n      interpolationFactor: Interpolate.interpolationFactor.bind(undefined, interpolationType),\n      zoomStops: featureFunctionStops.map(s => s[0]),\n      evaluate({zoom}, properties) {\n        return evaluateExponentialFunction({\n          stops: featureFunctionStops,\n          base: parameters.base\n        }, propertySpec, zoom).evaluate(zoom, properties);\n      }\n    };\n  } else if (zoomDependent) {\n    const interpolationType = type === 'exponential' ?\n      {name: 'exponential', base: parameters.base !== undefined ? parameters.base : 1} : null;\n    return {\n      kind: 'camera',\n      interpolationType,\n      interpolationFactor: Interpolate.interpolationFactor.bind(undefined, interpolationType),\n      zoomStops: parameters.stops.map(s => s[0]),\n      evaluate: ({zoom}) => innerFun(parameters, propertySpec, zoom, hashedStops, categoricalKeyType)\n    };\n  } else {\n    return {\n      kind: 'source',\n      evaluate(_, feature) {\n        const value = feature && feature.properties ? feature.properties[parameters.property] : undefined;\n        if (value === undefined) {\n          return coalesce(parameters.default, propertySpec.default);\n        }\n        return innerFun(parameters, propertySpec, value, hashedStops, categoricalKeyType);\n      }\n    };\n  }\n}\n\nfunction coalesce(a, b, c) {\n  if (a !== undefined) return a;\n  if (b !== undefined) return b;\n  if (c !== undefined) return c;\n}\n\nfunction evaluateCategoricalFunction(parameters, propertySpec, input, hashedStops, keyType) {\n  const evaluated = typeof input === keyType ? hashedStops[input] : undefined; // Enforce strict typing on input\n  return coalesce(evaluated, parameters.default, propertySpec.default);\n}\n\nfunction evaluateIntervalFunction(parameters, propertySpec, input) {\n  // Edge cases\n  if (getType(input) !== 'number') return coalesce(parameters.default, propertySpec.default);\n
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 const n = parameters.stops.length;\n    if (n === 1) return parameters.stops[0][1];\n    if (input <= parameters.stops[0][0]) return parameters.stops[0][1];\n    if (input >= parameters.stops[n - 1][0]) return parameters.stops[n - 1][1];\n\n    const index = findStopLessThanOrEqualTo(parameters.stops.map((stop) => stop[0]), input);\n\n    return parameters.stops[index][1];\n}\n\nfunction evaluateExponentialFunction(parameters, propertySpec, input) {\n    const base = parameters.base !== undefined ? parameters.base : 1;\n\n    // Edge cases\n    if (getType(input) !== 'number') return coalesce(parameters.default, propertySpec.default);\n    const n = parameters.stops.length;\n    if (n === 1) return parameters.stops[0][1];\n    if (input <= parameters.stops[0][0]) return parameters.stops[0][1];\n    if (input >= parameters.stops[n - 1][0]) return parameters.stops[n - 1][1];\n\n    const index = findStopLessThanOrEqualTo(parameters.stops.map((stop) => stop[0]), input);\n    const t = interpolationFactor(\n        input, base,\n        parameters.stops[index][0],\n        parameters.stops[index + 1][0]);\n\n    const outputLower = parameters.stops[index][1];\n    const outputUpper = parameters.stops[index + 1][1];\n    let interp = interpolate[propertySpec.type] || identityFunction; // eslint-disable-line import/namespace\n\n    if (parameters.colorSpace && parameters.colorSpace !== 'rgb') {\n        const colorspace = colorSpaces[parameters.colorSpace]; // eslint-disable-line import/namespace\n        interp = (a, b) => colorspace.reverse(colorspace.interpolate(colorspace.forward(a), colorspace.forward(b), t));\n    }\n\n    if (typeof outputLower.evaluate === 'function') {\n        return {\n            evaluate(...args) {\n                const evaluatedLower = outputLower.evaluate.apply(undefined, args);\n                const evaluatedUpper = outputUpper.evaluate.apply(undefined, args);\n                // Special case for fill-outline-color, which has no spec default.\n                if (evaluatedLower === undefined || evaluatedUpper === undefined) {\n                    return undefined;\n                }\n                return interp(evaluatedLower, evaluatedUpper, t);\n            }\n        };\n    }\n\n    return interp(outputLower, outputUpper, t);\n}\n\nfunction evaluateIdentityFunction(parameters, propertySpec, input) {\n    if (propertySpec.type === 'color') {\n        input = Color.parse(input);\n    } else if (propertySpec.type === 'formatted') {\n        input = Formatted.fromString(input.toString());\n    } else if (propertySpec.type === 'resolvedImage') {\n        input = ResolvedImage.fromString(input.toString());\n    } else if (getType(input) !== propertySpec.type && (propertySpec.type !== 'enum' || !propertySpec.values[input])) {\n        input = undefined;\n    }\n    return coalesce(input, parameters.default, propertySpec.default);\n}\n\n/**\n * Returns a ratio that can be used to interpolate between exponential function\n * stops.\n *\n * How it works:\n * Two consecutive stop values define a (scaled and shifted) exponential\n * function `f(x) = a * base^x + b`, where `base` is the user-specified base,\n * and `a` and `b` are constants affording sufficient degrees of freedom to fit\n * the function to the given stops.\n *\n * Here's a bit of algebra that lets us compute `f(x)` directly from the stop\n * values without explicitly solving for `a` and `b`:\n *\n * First stop value: `f(x0) = y0 = a * base^x0 + b`\n * Second stop value: `f(x1) = y1 = a * base^x1 + b`\n * => `y1 - y0 = a(base^x1 - base^x0)`\n * => `a = (y1 - y0)/(base^x1 - base^x0)`\n *\n * Desired value: `f(x) = y = a * base^x + b`\n * => `f(x) = y0 + a * (base^x - base^x0)`\n *\n * From the above, we can replace the `a` in `a * (base^x - base^x0)` and do a\n * little algebra:\n * ```\n * a * (base^x - base^x0) = (y1 - y0)/(base^x1 - base^x0) * (base^x - base^x0)\n *                     = (y1 - y0) * (base^x - base^x0) / (base^x1 - base^x0)\n * ```\n *\n * If we let `(base^x - base^x0) / (base^x1 base^x0)`, then we have\n * `f(x) = y0 + (y1 - y0) * ratio`.  In other words, `ratio` may be treated as\n * an interpolation factor between the two stops' output values.\n *\n * (Note: a slightly different form for `ratio`,\n * `(base^(x-x0) - 1) / (base^(x1-x0) - 1) `, is equivalent, but requires fewer\n * expensive `Math.pow()` operations.)\n *\n * @private\n */\nfunction interpolationFactor(input, base, lowerValue, upperValue) {\n    const difference = upperValue - lowerValue;\n    const progress = input - lowerValue;\n\n    if (difference === 0) {\n        return 0;\n    } else if (base === 1) {\n        return progress / difference;\n    } else {\n        return (Math.pow(base, progress) - 1) / (Math.pow(base, difference) - 1);\n    }\n}\n","// @flow\n\nimport assert from 'assert';\n\nimport extend from '../util/extend.js';\nimport ParsingError from './parsing_error.js';\nimport ParsingContext from './parsing_context.js';\nimport EvaluationContext from './evaluation_context.js';\nimport CompoundExpression from './compound_expression.js';\nimport Step from './definitions/step.js';\nimport Interpolate from './definitions/interpolate.js';\nimport Coalesce from './definitions/coalesce.js';\nimport Let from './definitions/let.js';\nimport definitions from './definitions/index.js';\nimport * as isConstant from './is_constant.js';\nimport RuntimeError from './runtime_error.js';\nimport {success, error} from
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'../util/result.js';\nimport {supportsPropertyExpression, supportsZoomExpression, supportsInterpolation} from '../util/properties.js';\n\nimport type {Type, EvaluationKind} from './types.js';\nimport type {Value} from './values.js';\nimport type {Expression} from './expression.js';\nimport type {StylePropertySpecification} from '../style-spec.js';\nimport type {Result} from '../util/result.js';\nimport type {InterpolationType} from './definitions/interpolate.js';\nimport type {PropertyValueSpecification} from '../types.js';\nimport type {FormattedSection} from './types/formatted.js';\nimport type Point from '@mapbox/point-geometry';\nimport type {CanonicalTileID} from '../../source/tile_id.js';\nimport type {FeatureDistanceData} from '../feature_filter/index.js';\n\nexport type Feature = {\n +type: 1 | 2 | 3 | 'Unknown' | 'Point' | 'LineString' | 'Polygon',\n +id?: number | null,\n +properties: {[_: string]: any},\n +patterns?: {[_: string]: string},\n +geometry?: Array<Array<Point>>\n};\n\nexport type FeatureState = {[_: string]: any};\n\nexport type GlobalProperties = $ReadOnly<{\n zoom: number,\n pitch?: number,\n heatmapDensity?: number,\n lineProgress?: number,\n skyRadialProgress?: number,\n isSupportedScript?: (_: string) => boolean,\n accumulated?: Value\n}>;\n\nexport class StyleExpression {\n expression: Expression;\n\n _evaluator: EvaluationContext;\n _defaultValue: Value;\n _warningHistory: {[key: string]: boolean};\n _enumValues: ?{[_: string]: any};\n\n constructor(expression: Expression, propertySpec: ?StylePropertySpecification) {\n this.expression = expression;\n this._warningHistory = {};\n this._evaluator = new EvaluationContext();\n this._defaultValue = propertySpec ? getDefaultValue(propertySpec) : null;\n this._enumValues = propertySpec && propertySpec.type === 'enum' ? propertySpec.values : null;\n }\n\n evaluateWithoutErrorHandling(globals: GlobalProperties, feature?: Feature, featureState?: FeatureState, canonical?: CanonicalTileID, availableImages?: Array<string>, formattedSection?: FormattedSection, featureTileCoord?: Point, featureDistanceData?: FeatureDistanceData): any {\n this._evaluator.globals = globals;\n this._evaluator.feature = feature;\n this._evaluator.featureState = featureState;\n this._evaluator.canonical = canonical || null;\n this._evaluator.availableImages = availableImages || null;\n this._evaluator.formattedSection = formattedSection;\n this._evaluator.featureTileCoord = featureTileCoord || null;\n this._evaluator.featureDistanceData = featureDistanceData || null;\n\n return this.expression.evaluate(this._evaluator);\n }\n\n evaluate(globals: GlobalProperties, feature?: Feature, featureState?: FeatureState, canonical?: CanonicalTileID, availableImages?: Array<string>, formattedSection?: FormattedSection, featureTileCoord?: Point, featureDistanceData?: FeatureDistanceData): any {\n this._evaluator.globals = globals;\n this._evaluator.feature = feature || null;\n this._evaluator.featureState = featureState || null;\n this._evaluator.canonical = canonical || null;\n this._evaluator.availableImages = availableImages || null;\n this._evaluator.formattedSection = formattedSection || null;\n this._evaluator.featureTileCoord = featureTileCoord || null;\n this._evaluator.featureDistanceData = featureDistanceData || null;\n\n try {\n const val = this.expression.evaluate(this._evaluator);\n // eslint-disable-next-line no-self-compare\n if (val === null || val === undefined || (typeof val === 'number' && val !== val)) {\n return this._defaultValue;\n }\n if (this._enumValues && !(val in this._enumValues)) {\n throw new RuntimeError(`Expected value to be one of ${Object.keys(this._enumValues).map(v => JSON.stringify(v)).join(', ')}, but found ${JSON.stringify(val)} instead.`);\n }\n return val;\n } catch (e) {\n if (!this._warningHistory[e.message]) {\n this._warningHistory[e.message] = true;\n if (typeof console !== 'undefined') {\n console.warn(e.message);\n }\n }\n return this._defaultValue;\n }\n }\n}\n\nexport function isExpression(expression: mixed): boolean {\n return Array.isArray(expression) && expression.length > 0 &&\n typeof expression[0] === 'string' && expression[0] in definitions;\n}\n\n/**\n * Parse and typecheck the given style spec JSON expression. If\n * options.defaultValue is provided, then the resulting StyleExpression's\n * `evaluate()` method will handle errors by logging a warning (once per\n * message) and returning the default value. Otherwise, it will throw\n * evaluation errors.\n *\n * @private\n */\nexport function createExpression(expression: mixed, propertySpec: ?StylePropertySpecification): Result<StyleExpression, Array<ParsingError>> {\n const parser = new ParsingContext(definitions, [], propertySpec ? getExpectedType(propertySpec) : undefined);\n\n // For string-valued properties, coerce to string at the top level rather than asserting.\n const parsed =

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parser.parse(expression, undefined, undefined, undefined,\n        propertySpec && propertySpec.type === 'string' ? {typeAnnotation: 'coerce'} : undefined);\n\n    if (!parsed) {\n        assert(parser.errors.length > 0);\n        return error(parser.errors);\n    }\n\n    return success(new StyleExpression(parsed, propertySpec));\n}\n\nexport class ZoomConstantExpression<Kind: EvaluationKind> {\n    kind: Kind;\n    isStateDependent: boolean;\n    _styleExpression: StyleExpression;\n\n    constructor(kind: Kind, expression: StyleExpression) {\n        this.kind = kind;\n        this._styleExpression = expression;\n        this.isStateDependent = kind !== ('constant': EvaluationKind) && !isConstant.isStateConstant(expression.expression);\n    }\n\n    evaluateWithoutErrorHandling(globals: GlobalProperties, feature?: Feature, featureState?: FeatureState, canonical?: CanonicalTileID, availableImages?: Array<string>, formattedSection?: FormattedSection): any {\n        return this._styleExpression.evaluateWithoutErrorHandling(globals, feature, featureState, canonical, availableImages, formattedSection);\n    }\n\n    evaluate(globals: GlobalProperties, feature?: Feature, featureState?: FeatureState, canonical?: CanonicalTileID, availableImages?: Array<string>, formattedSection?: FormattedSection): any {\n        return this._styleExpression.evaluate(globals, feature, featureState, canonical, availableImages, formattedSection);\n    }\n}\n\nexport class ZoomDependentExpression<Kind: EvaluationKind> {\n    kind: Kind;\n    zoomStops: Array<number>;\n    isStateDependent: boolean;\n\n    _styleExpression: StyleExpression;\n    interpolationType: ?InterpolationType;\n\n    constructor(kind: Kind, expression: StyleExpression, zoomStops: Array<number>, interpolationType?: InterpolationType) {\n        this.kind = kind;\n        this.zoomStops = zoomStops;\n        this._styleExpression = expression;\n        this.isStateDependent = kind !== ('camera': EvaluationKind) && !isConstant.isStateConstant(expression.expression);\n        this.interpolationType = interpolationType;\n    }\n\n    evaluateWithoutErrorHandling(globals: GlobalProperties, feature?: Feature, featureState?: FeatureState, canonical?: CanonicalTileID, availableImages?: Array<string>, formattedSection?: FormattedSection): any {\n        return this._styleExpression.evaluateWithoutErrorHandling(globals, feature, featureState, canonical, availableImages, formattedSection);\n    }\n\n    evaluate(globals: GlobalProperties, feature?: Feature, featureState?: FeatureState, canonical?: CanonicalTileID, availableImages?: Array<string>, formattedSection?: FormattedSection): any {\n        return this._styleExpression.evaluate(globals, feature, featureState, canonical, availableImages, formattedSection);\n    }\n\n    interpolationFactor(input: number, lower: number, upper: number): number {\n        if (this.interpolationType) {\n            return Interpolate.interpolationFactor(this.interpolationType, input, lower, upper);\n        } else {\n            return 0;\n        }\n    }\n}\n\nexport type ConstantExpression = {\n    kind: 'constant',\n    +evaluate: (globals: GlobalProperties, feature?: Feature, featureState?: FeatureState, canonical?: CanonicalTileID, availableImages?: Array<string>) => any,\n}\n\nexport type SourceExpression = {\n    kind: 'source',\n    isStateDependent: boolean,\n    +evaluate: (globals: GlobalProperties, feature?: Feature, featureState?: FeatureState, canonical?: CanonicalTileID, availableImages?: Array<string>, formattedSection?: FormattedSection) => any,\n};\n\nexport type CameraExpression = {\n    kind: 'camera',\n    +evaluate: (globals: GlobalProperties, feature?: Feature, featureState?: FeatureState, canonical?: CanonicalTileID, availableImages?: Array<string>) => any,\n    +interpolationFactor: (input: number, lower: number, upper: number) => number,\n    zoomStops: Array<number>,\n    interpolationType: ?InterpolationType\n};\n\nexport type CompositeExpression = {\n    kind: 'composite',\n    isStateDependent: boolean,\n    +evaluate: (globals: GlobalProperties, feature?: Feature, featureState?: FeatureState, canonical?: CanonicalTileID, availableImages?: Array<string>, formattedSection?: FormattedSection) => any,\n    +interpolationFactor: (input: number, lower: number, upper: number) => number,\n    zoomStops: Array<number>,\n    interpolationType: ?InterpolationType\n};\n\nexport type StylePropertyExpression =\n    | ConstantExpression\n    | SourceExpression\n    | CameraExpression\n    | CompositeExpression;\n\nexport function createPropertyExpression(expression: mixed, propertySpec: StylePropertySpecification): Result<StylePropertyExpression, Array<ParsingError>> {\n    expression = createExpression(expression, propertySpec);\n    if (expression.result === 'error') {\n        return expression;\n    }\n\n    const parsed = expression.value.expression;\n\n    const isFeatureConstant = isConstant.isFeatureConstant(parsed);\n    if (!isFeatureConstant && !supportsPropertyExpression(propertySpec)) {\n        return error([new ParsingError('', 'data expressions not supported')]);\n    }\n\n    const isZoomConstant = isConstant.isGlobalPropertyConstant(parsed, ['zoom', 'pitch', 'distance-from-center']);\n    if (!isZoomConstant && !supportsZoomExpression(propertySpec)) {\n
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    return error([new ParsingError('', 'zoom expressions not supported')]);\n    }\n\n    const zoomCurve = findZoomCurve(parsed);\n    if (!zoomCurve && !isZoomConstant) {\n        return error([new ParsingError('', '\"zoom\" expression may only be used as input to a top-level \"step\" or \"interpolate\" expression.')]);\n    } else if (zoomCurve instanceof ParsingError) {\n        return error([zoomCurve]);\n    } else if (zoomCurve instanceof Interpolate && !supportsInterpolation(propertySpec)) {\n        return error([new ParsingError('', '\"interpolate\" expressions cannot be used with this property')]);\n    }\n\n    if (!zoomCurve) {\n        return success(isFeatureConstant ?\n            (new ZoomConstantExpression('constant', expression.value): ConstantExpression) :\n            (new ZoomConstantExpression('source', expression.value): SourceExpression));\n    }\n\n    const interpolationType = zoomCurve instanceof Interpolate ? zoomCurve.interpolation : undefined;\n\n    return success(isFeatureConstant ?\n        (new ZoomDependentExpression('camera', expression.value, zoomCurve.labels, interpolationType): CameraExpression) :\n        (new ZoomDependentExpression('composite', expression.value, zoomCurve.labels, interpolationType): CompositeExpression));\n}\n\nimport {isFunction, createFunction} from '../function/index.js';\nimport {Color} from './values.js';\n\n// serialization wrapper for old-style stop functions normalized to the\n// expression interface\nexport class StylePropertyFunction<T> {\n    _parameters: PropertyValueSpecification<T>;\n    _specification: StylePropertySpecification;\n\n    kind: EvaluationKind;\n    evaluate: (globals: GlobalProperties, feature?: Feature) => any;\n    interpolationFactor: ?(input: number, lower: number, upper: number) => number;\n    zoomStops: ?Array<number>;\n\n    constructor(parameters: PropertyValueSpecification<T>, specification: StylePropertySpecification) {\n        this._parameters = parameters;\n        this._specification = specification;\n        extend(this, createFunction(this._parameters, this._specification));\n    }\n\n    static deserialize(serialized: {_parameters: PropertyValueSpecification<T>, _specification: StylePropertySpecification}): StylePropertyFunction<T> {\n        return new StylePropertyFunction(serialized._parameters, serialized._specification);\n    }\n\n    static serialize(input: StylePropertyFunction<T>): {_parameters: PropertyValueSpecification<T>, _specification: StylePropertySpecification} {\n        return {\n            _parameters: input._parameters,\n            _specification: input._specification\n        };\n    }\n}\n\nexport function normalizePropertyExpression<T>(value: PropertyValueSpecification<T>, specification: StylePropertySpecification): StylePropertyExpression {\n    if (isFunction(value)) {\n        return (new StylePropertyFunction(value, specification): any);\n\n    } else if (isExpression(value)) {\n        const expression = createPropertyExpression(value, specification);\n        if (expression.result === 'error') {\n            // this should have been caught in validation\n            throw new Error(expression.value.map(err => `${err.key}: ${err.message}`).join(', '));\n        }\n        return expression.value;\n\n    } else {\n        let constant: any = value;\n        if (typeof value === 'string' && specification.type === 'color') {\n            constant = Color.parse(value);\n        }\n        return {\n            kind: 'constant',\n            evaluate: () => constant\n        };\n    }\n}\n\n// Zoom-dependent expressions may only use [\"zoom\"] as the input to a top-level \"step\" or \"interpolate\"\n// expression (collectively referred to as a \"curve\"). The curve may be wrapped in one or more \"let\" or\n// \"coalesce\" expressions.\nfunction findZoomCurve(expression: Expression): Step | Interpolate | ParsingError | null {\n    let result = null;\n    if (expression instanceof Let) {\n        result = findZoomCurve(expression.result);\n\n    } else if (expression instanceof Coalesce) {\n        for (const arg of expression.args) {\n            result = findZoomCurve(arg);\n            if (result) {\n                break;\n            }\n        }\n\n    } else if ((expression instanceof Step || expression instanceof Interpolate) &&\n        expression.input instanceof CompoundExpression &&\n        expression.input.name === 'zoom') {\n\n        result = expression;\n    }\n\n    if (result instanceof ParsingError) {\n        return result;\n    }\n\n    expression.eachChild((child) => {\n        const childResult = findZoomCurve(child);\n        if (childResult instanceof ParsingError) {\n            result = childResult;\n        } else if (!result && childResult) {\n            result = new ParsingError('', '\"zoom\" expression may only be used as input to a top-level \"step\" or \"interpolate\" expression.');\n        } else if (result && childResult && result !== childResult) {\n            result = new ParsingError('', 'Only one zoom-based \"step\" or \"interpolate\" subexpression may be used in an expression.');\n        }\n    });\n\n    return result;\n}\n\nimport {ColorType, StringType, NumberType, BooleanType, ValueType, FormattedType, ResolvedImageType, array} from './types.js';\n\nfunction getExpectedType(spec:
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StylePropertySpecification): Type {\n    const types = {\n        color: ColorType,\n        string: StringType,\n        number: NumberType,\n        enum: StringType,\n        boolean: BooleanType,\n        formatted: FormattedType,\n        resolvedImage: ResolvedImageType\n    };\n\n    if (spec.type === 'array') {\n        return array(types[spec.value] || ValueType, spec.length);\n    }\n\n    return types[spec.type];\n}\n\nfunction getDefaultValue(spec: StylePropertySpecification): Value {\n    if (spec.type === 'color' && (isFunction(spec.default) || Array.isArray(spec.default))) {\n        // Special case for heatmap-color: it uses the 'default:' to define a\n        // default color ramp, but createExpression expects a simple value to fall\n        // back to in case of runtime errors\n        return new Color(0, 0, 0, 0);\n    } else if (spec.type === 'color') {\n        return Color.parse(spec.default) || null;\n    } else if (spec.default === undefined) {\n        return null;\n    } else {\n        return spec.default;\n    }\n}\n","// @flow\n\nimport assert from 'assert';\n\nimport type {StylePropertySpecification} from '../style-spec.js';\nimport type {ExpressionSpecification} from '../types.js';\n\nfunction convertLiteral(value) {\n    return typeof value === 'object' ? ['literal', value] : value;\n}\n\nexport default function convertFunction(parameters: any, propertySpec: StylePropertySpecification): ExpressionSpecification {\n    let stops = parameters.stops;\n    if (!stops) {\n        // identity function\n        return convertIdentityFunction(parameters, propertySpec);\n    }\n\n    const zoomAndFeatureDependent = stops && typeof stops[0][0] === 'object';\n    const featureDependent = zoomAndFeatureDependent || parameters.property !== undefined;\n    const zoomDependent = zoomAndFeatureDependent || !featureDependent;\n\n    stops = stops.map((stop) => {\n        if (!featureDependent && propertySpec.tokens && typeof stop[1] === 'string') {\n            return [stop[0], convertTokenString(stop[1])];\n        }\n        return [stop[0], convertLiteral(stop[1])];\n    });\n\n    if (zoomAndFeatureDependent) {\n        return convertZoomAndPropertyFunction(parameters, propertySpec, stops);\n    } else if (zoomDependent) {\n        return convertZoomFunction(parameters, propertySpec, stops);\n    } else {\n        return convertPropertyFunction(parameters, propertySpec, stops);\n    }\n}\n\nfunction convertIdentityFunction(parameters, propertySpec): Array<mixed> {\n    const get = ['get', parameters.property];\n\n    if (parameters.default === undefined) {\n        // By default, expressions for string-valued properties get coerced. To preserve\n        // legacy function semantics, insert an explicit assertion instead.\n        return propertySpec.type === 'string' ? ['string', get] : get;\n    } else if (propertySpec.type === 'enum') {\n        return [\n            'match',\n            get,\n            Object.keys(propertySpec.values),\n            get,\n            parameters.default\n        ];\n    } else {\n        const expression = [propertySpec.type === 'color' ? 'to-color' : propertySpec.type, get, convertLiteral(parameters.default)];\n        if (propertySpec.type === 'array') {\n            expression.splice(1, 0, propertySpec.value, propertySpec.length || null);\n        }\n        return expression;\n    }\n}\n\nfunction getInterpolateOperator(parameters) {\n    switch (parameters.colorSpace) {\n    case 'hcl': return 'interpolate-hcl';\n    case 'lab': return 'interpolate-lab';\n    default: return 'interpolate';\n    }\n}\n\nfunction convertZoomAndPropertyFunction(parameters, propertySpec, stops) {\n    const featureFunctionParameters = {};\n    const featureFunctionStops = {};\n    const zoomStops = [];\n    for (let s = 0; s < stops.length; s++) {\n        const stop = stops[s];\n        const zoom = stop[0].zoom;\n        if (featureFunctionParameters[zoom] === undefined) {\n            featureFunctionParameters[zoom] = {\n                zoom,\n                type: parameters.type,\n                property: parameters.property,\n                default: parameters.default,\n            };\n            featureFunctionStops[zoom] = [];\n            zoomStops.push(zoom);\n        }\n        featureFunctionStops[zoom].push([stop[0].value, stop[1]]);\n    }\n\n    // the interpolation type for the zoom dimension of a zoom-and-property\n    // function is determined directly from the style property specification\n    // for which it's being used: linear for interpolatable properties, step\n    // otherwise.\n    const functionType = getFunctionType({}, propertySpec);\n    if (functionType === 'exponential') {\n        const expression = [getInterpolateOperator(parameters), ['linear'], ['zoom']];\n\n        for (const z of zoomStops) {\n            const output = convertPropertyFunction(featureFunctionParameters[z], propertySpec, featureFunctionStops[z]);\n            appendStopPair(expression, z, output, false);\n        }\n\n        return expression;\n    } else {\n        const expression = ['step', ['zoom']];\n\n        for (const z of zoomStops) {\n            const output = convertPropertyFunction(featureFunctionParameters[z], propertySpec, featureFunctionStops[z]);\n            appendStopPair(expression, z, output, true);\n        }\n\n        fixupDegenerateStepCurve(expression);\n\n        return expression;\n    }\n}\n\nfunction coalesce(a, b) {\n    if (a !== undefined) return a;\n    if (b !== undefined) return
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b;\n}\n\nfunction getFallback(parameters, propertySpec) {\n    const defaultValue =
convertLiteral(coalesce(parameters.default, propertySpec.default));\n\n    /*\n     * Some fields with type:
resolvedImage have an undefined default.\n     * Because undefined is an invalid value for resolvedImage, set
fallback to\n     * an empty string instead of undefined to ensure output\n     * passes validation.\n     */\n    if
(defaultValue === undefined && propertySpec.type === 'resolvedImage') {\n        return '';\n    }\n    return
defaultValue;\n}\n\nfunction convertPropertyFunction(parameters, propertySpec, stops) {\n    const type =
getFunctionType(parameters, propertySpec);\n    const get = ['get', parameters.property];\n    if (type ===
'categorical' && typeof stops[0][0] === 'boolean') {\n        assert(parameters.stops.length > 0 &&
parameters.stops.length <= 2);\n        const expression = ['case'];\n        for (const stop of stops) {\n
expression.push(['==', get, stop[0]], stop[1]);\n        }\n\n        expression.push(getFallback(parameters,
propertySpec));\n        return expression;\n    } else if (type === 'categorical') {\n        const expression = ['match',
get];\n        for (const stop of stops) {\n            appendStopPair(expression, stop[0], stop[1], false);\n        }\n
expression.push(getFallback(parameters, propertySpec));\n        return expression;\n    } else if (type === 'interval')
{\n        const expression = ['step', ['number', get]];\n        for (const stop of stops) {\n
appendStopPair(expression, stop[0], stop[1], true);\n        }\n        fixupDegenerateStepCurve(expression);\n
return parameters.default === undefined ? expression : [\n            'case',\n            ['==', ['typeof', get], 'number'],\n
    expression,\n            convertLiteral(parameters.default)\n        ];\n    } else if (type === 'exponential') {\n
const base = parameters.base !== undefined ? parameters.base : 1;\n        const expression = [\n
getInterpolateOperator(parameters),\n            base === 1 ? [\"linear\"] : [\"exponential\", base],\n            [\"number\",
get]\n        ];\n\n        for (const stop of stops) {\n            appendStopPair(expression, stop[0], stop[1], false);\n
}\n        return parameters.default === undefined ? expression : [\n            'case',\n            ['==', ['typeof', get],
'number'],\n            expression,\n            convertLiteral(parameters.default)\n        ];\n    } else {\n        throw new
Error(`Unknown property function type ${type}`);\n    }\n}\n\nfunction convertZoomFunction(parameters,
propertySpec, stops, input = ['zoom']) {\n    const type = getFunctionType(parameters, propertySpec);\n    let
expression;\n    let isStep = false;\n    if (type === 'interval') {\n        expression = ['step', input];\n        isStep =
true;\n    } else if (type === 'exponential') {\n        const base = parameters.base !== undefined ? parameters.base :
1;\n        expression = [getInterpolateOperator(parameters), base === 1 ? [\"linear\"] : [\"exponential\", base],
input];\n\n    } else {\n        throw new Error(`Unknown zoom function type \"${type}\"`);\n    }\n\n    for (const stop
of stops) {\n        appendStopPair(expression, stop[0], stop[1], isStep);\n    }\n\n
fixupDegenerateStepCurve(expression);\n\n    return expression;\n}\n\nfunction
fixupDegenerateStepCurve(expression) {\n    // degenerate step curve (i.e. a constant function): add a noop stop\n
if (expression[0] === 'step' && expression.length === 3) {\n        expression.push(0);\n
expression.push(expression[3]);\n    }\n}\n\nfunction appendStopPair(curve, input, output, isStep) {\n    // Skip
duplicate stop values. They were not validated for functions, but they are for expressions.\n    //
https://github.com/mapbox/mapbox-gl-js/issues/4107\n    if (curve.length > 3 && input === curve[curve.length - 2])
{\n        return;\n    }\n    // step curves don't get the first input value, as it is redundant.\n    if (!(isStep &&
curve.length === 2)) {\n        curve.push(input);\n    }\n    curve.push(output);\n}\n\nfunction
getFunctionType(parameters, propertySpec) {\n    if (parameters.type) {\n        return parameters.type;\n    } else {\n
    assert(propertySpec.expression);\n        return (propertySpec.expression: any).interpolated ? 'exponential' :
'interval';\n    }\n}\n\n// \"String with {name} token\" => [\"concat\", \"String with \", [\"get\", \"name\"], \"
token\"]\nexport function convertTokenString(s: string): string | ExpressionSpecification {\n    const result =
['concat'];\n    const re = /{([^{}]+)}/g;\n    let pos = 0;\n    for (let match = re.exec(s); match !== null; match =
re.exec(s)) {\n        const literal = s.slice(pos, re.lastIndex - match[0].length);\n        pos = re.lastIndex;\n        if
(literal.length > 0) result.push(literal);\n        result.push(['get', match[1]]);\n    }\n\n    if (result.length === 1) {\n
return s;\n    }\n\n    if (pos < s.length) {\n        result.push(s.slice(pos));\n    } else if (result.length === 2) {\n
return ['to-string', result[1]];\n    }\n\n    return result;\n}\n\n","// @flow\n\n// Turn jsonlint-lines-primitives objects
into primitive objects\nexport function unbundle(value: mixed): mixed {\n    if (value instanceof Number || value
instanceof String || value instanceof Boolean) {\n        return value.valueOf();\n    } else {\n        return value;\n
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}\n}\n\nexport function deepUnbundle(value: mixed): mixed {\n    if (Array.isArray(value)) {\n        return value.map(deepUnbundle);\n    } else if (value instanceof Object && !(value instanceof Number || value instanceof String || value instanceof Boolean)) {\n        const unbundledValue: { [key: string]: mixed } = {};\n        for (const key in value) {\n            unbundledValue[key] = deepUnbundle(value[key]);\n        }\n        return unbundledValue;\n    }\n\n    return unbundle(value);\n}\n","// @flow\n\nimport {createExpression} from '../expression/index.js';\nimport {isFeatureConstant} from '../expression/is_constant.js';\nimport {deepUnbundle} from '../util/unbundle_jsonlint.js';\nimport latest from '../reference/latest.js';\nimport type {GlobalProperties, Feature} from '../expression/index.js';\nimport type {CanonicalTileID} from '../../source/tile_id.js';\nimport type Point from '@mapbox/point-geometry';\n\nexport type FeatureDistanceData = {bearing: [number, number], center: [number, number], scale: number};\nexport type FilterExpression = (globalProperties: GlobalProperties, feature: Feature, canonical?: CanonicalTileID, featureTileCoord?: Point, featureDistanceData?: FeatureDistanceData) => boolean;\nexport type FeatureFilter = {filter: FilterExpression, dynamicFilter?: FilterExpression, needGeometry: boolean, needFeature: boolean};\n\nexport default createFilter;\nexport {isExpressionFilter, isDynamicFilter, extractStaticFilter};\n\nfunction isExpressionFilter(filter: any): boolean {\n    if (filter === true || filter === false) {\n        return true;\n    }\n\n    if (!Array.isArray(filter) || filter.length === 0) {\n        return false;\n    }\n    switch (filter[0]) {\n    case 'has':\n        return filter.length >= 2 && filter[1] !== '$id' && filter[1] !== '$type';\n\n    case 'in':\n        return filter.length >= 3 && (typeof filter[1] !== 'string' || Array.isArray(filter[2]));\n\n    case '!in':\n    case '!has':\n    case 'none':\n        return false;\n\n    case '==':\n    case '!=':\n    case '>':\n    case '>=':\n    case '<':\n    case '<=':\n        return filter.length !== 3 || (Array.isArray(filter[1]) || Array.isArray(filter[2]));\n\n    case 'any':\n    case 'all':\n        for (const f of filter.slice(1)) {\n            if (!isExpressionFilter(f) && typeof f !== 'boolean') {\n                return false;\n            }\n        }\n        return true;\n\n    default:\n        return true;\n    }\n}\n\n/**\n * Given a filter expressed as nested arrays, return a new function\n * that evaluates whether a given feature (with a .properties or .tags property)\n * passes its test.\n *\n * @private\n * @param {Array} filter mapbox gl filter\n * @param {string} layerType the type of the layer this filter will be applied to.\n * @returns {Function} filter-evaluating function\n */\nfunction createFilter(filter: any, layerType?: string = 'fill'): FeatureFilter {\n    if (filter === null || filter === undefined) {\n        return {filter: () => true, needGeometry: false, needFeature: false};\n    }\n\n    if (!isExpressionFilter(filter)) {\n        filter = convertFilter(filter);\n    }\n    const filterExp = ((filter: any): string[] | string | boolean);\n\n    let staticFilter = true;\n    try {\n        staticFilter = extractStaticFilter(filterExp);\n    } catch (e) {\n        console.warn(\n`Failed to extract static filter. Filter will continue working, but at higher memory usage and slower framerate.\nThis is most likely a bug, please report this via https://github.com/mapbox/mapbox-gl-js/issues/new?assignees=&labels=&template=Bug_report.md\nand paste the contents of this message in the report.\nThank you!\nFilter Expression:\n${JSON.stringify(filterExp, null, 2)}\n        `);\n    }\n\n    // Compile the static component of the filter\n    const filterSpec = latest[`filter_${layerType}`];\n    const compiledStaticFilter = createExpression(staticFilter, filterSpec);\n\n    let filterFunc = null;\n    if (compiledStaticFilter.result === 'error') {\n        throw new Error(compiledStaticFilter.value.map(err => `${err.key}: ${err.message}`).join(', '));\n    } else {\n        filterFunc = (globalProperties: GlobalProperties, feature: Feature, canonical?: CanonicalTileID) => compiledStaticFilter.value.evaluate(globalProperties, feature, {}, canonical);\n    }\n\n    // If the static component is not equal to the entire filter then we have a dynamic component\n    // Compile the dynamic component separately\n    let dynamicFilterFunc = null;\n    let needFeature = null;\n    if (staticFilter !== filterExp) {\n        const compiledDynamicFilter = createExpression(filterExp, filterSpec);\n\n        if (compiledDynamicFilter.result === 'error') {\n            throw new Error(compiledDynamicFilter.value.map(err => `${err.key}: ${err.message}`).join(', '));\n        } else {\n            dynamicFilterFunc = (globalProperties: GlobalProperties, feature: Feature, canonical?: CanonicalTileID, featureTileCoord?: Point, featureDistanceData?: FeatureDistanceData) => compiledDynamicFilter.value.evaluate(globalProperties, feature, {}, canonical, undefined, undefined, featureTileCoord, featureDistanceData);\n            needFeature = !isFeatureConstant(compiledDynamicFilter.value.expression);\n        }\n    }\n\n    filterFunc = ((filterFunc: any): FilterExpression);\n    const needGeometry = geometryNeeded(staticFilter);\n\n    return {\n        filter: filterFunc,\n        dynamicFilter: dynamicFilterFunc ? dynamicFilterFunc : undefined,\n        needGeometry,\n        needFeature:
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!!needFeature\n  };\n}\n\nfunction extractStaticFilter(filter: any): any {\n  if (!isDynamicFilter(filter)) {\n  return filter;\n  }\n\n  // Shallow copy so we can replace expressions in-place\n  let result = deepUnbundle(filter);\n\n  // 1. Union branches\n  unionDynamicBranches(result);\n\n  // 2. Collapse dynamic conditions to `true`\n  result = collapseDynamicBooleanExpressions(result);\n\n  return result;\n}\n\nfunction collapseDynamicBooleanExpressions(expression: any): any {\n  if (!Array.isArray(expression)) {\n  return expression;\n  }\n\n  const collapsed = collapsedExpression(expression);\n  if (collapsed === true) {\n  return collapsed;\n  } else {\n  return collapsed.map((subExpression) => collapseDynamicBooleanExpressions(subExpression));\n  }\n}\n\n/**\n * Traverses the expression and replaces all instances of branching on a\n * `dynamic` conditional (such as `['pitch']` or `['distance-from-center']`)\n * into an `any` expression.\n * This ensures that all possible outcomes of a `dynamic` branch are considered\n * when evaluating the expression upfront during filtering.\n *\n * @param {Array<any>} filter the filter expression mutated in-place.\n */\nfunction unionDynamicBranches(filter: any) {\n  let isBranchingDynamically = false;\n  const branches = [];\n\n  if (filter[0] === 'case') {\n  for (let i = 1; i < filter.length - 1; i += 2) {\n  isBranchingDynamically = isBranchingDynamically || isDynamicFilter(filter[i]);\n  branches.push(filter[i + 1]);\n  }\n\n  branches.push(filter[filter.length - 1]);\n  } else if (filter[0] === 'match') {\n  isBranchingDynamically = isBranchingDynamically || isDynamicFilter(filter[1]);\n\n  for (let i = 2; i < filter.length - 1; i += 2) {\n  branches.push(filter[i + 1]);\n  }\n  branches.push(filter[filter.length - 1]);\n  } else if (filter[0] === 'step') {\n  isBranchingDynamically = isBranchingDynamically || isDynamicFilter(filter[1]);\n\n  for (let i = 1; i < filter.length - 1; i += 2) {\n  branches.push(filter[i + 1]);\n  }\n  }\n\n  if (isBranchingDynamically) {\n  filter.length = 0;\n  filter.push('any', ...branches);\n  }\n\n  // traverse and recurse into children\n  for (let i = 1; i < filter.length; i++) {\n  unionDynamicBranches(filter[i]);\n  }\n}\n\nfunction isDynamicFilter(filter: any): boolean {\n  // Base Cases\n  if (!Array.isArray(filter)) {\n  return false;\n  }\n  if (isRootExpressionDynamic(filter[0])) {\n  return true;\n  }\n\n  for (let i = 1; i < filter.length; i++) {\n  const child = filter[i];\n  if (isDynamicFilter(child)) {\n  return true;\n  }\n  }\n\n  return false;\n}\n\nfunction isRootExpressionDynamic(expression: string): boolean {\n  return expression === 'pitch' ||\n  expression === 'distance-from-center';\n}\n\nconst dynamicConditionExpressions = new Set([\n  'in',\n  '==',\n  '!=',\n  '>',\n  '>=',\n  '<',\n  '<=',\n  'to-boolean'\n]);\n\nfunction collapsedExpression(expression: any): any {\n  if (dynamicConditionExpressions.has(expression[0])) {\n\n  for (let i = 1; i < expression.length; i++) {\n  const param = expression[i];\n  if (isDynamicFilter(param)) {\n  return true;\n  }\n  }\n  }\n  return expression;\n}\n\n// Comparison function to sort numbers and strings\nfunction compare(a, b) {\n  return a < b ? -1 : a > b ? 1 : 0;\n}\n\nfunction geometryNeeded(filter) {\n  if (!Array.isArray(filter)) return false;\n  if (filter[0] === 'within') return true;\n  for (let index = 1; index < filter.length; index++) {\n  if (geometryNeeded(filter[index])) return true;\n  }\n  return false;\n}\n\nfunction convertFilter(filter: ?Array<any>): mixed {\n  if (!filter) return true;\n  const op = filter[0];\n  if (filter.length <= 1) return (op !== 'any');\n  const converted =\n  op === '==' ? convertComparisonOp(filter[1], filter[2], '==') :\n  op === '!=' ? convertNegation(convertComparisonOp(filter[1], filter[2], '==')) :\n  op === '<' ||\n  op === '>' ||\n  op === '<=' ||\n  op === '>=' ? convertComparisonOp(filter[1], filter[2], op) :\n  op === 'any' ? convertDisjunctionOp(filter.slice(1)) :\n  op === 'all' ? ['all'].concat(filter.slice(1).map(convertFilter)) :\n  op === 'none' ? ['all'].concat(filter.slice(1).map(convertFilter).map(convertNegation)) :\n  op === 'in' ? convertInOp(filter[1], filter.slice(2)) :\n  op === '!in' ? convertNegation(convertInOp(filter[1], filter.slice(2))) :\n  op === 'has' ? convertHasOp(filter[1]) :\n  op === '!has' ? convertNegation(convertHasOp(filter[1])) :\n  op === 'within' ? filter :\n  true;\n  return converted;\n}\n\nfunction convertComparisonOp(property: string, value: any, op: string) {\n  switch (property) {\n  case '$type':\n  return [`filter-type-${op}`, value];\n  case '$id':\n  return [`filter-id-${op}`, value];\n  default:\n  return [`filter-${op}`, property, value];\n  }\n}\n\nfunction convertDisjunctionOp(filters: Array<Array<any>>) {\n  return ['any'].concat(filters.map(convertFilter));\n}\n\nfunction convertInOp(property: string, values: Array<any>) {\n  if (values.length === 0) { return false; }\n  switch (property) {\n  case '$type':\n  return [`filter-type-in`, ['literal',
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values]];\n    case '$id':\n        return [`filter-id-in`, ['literal', values]];\n    default:\n        if (values.length > 200 &&
!values.some(v => typeof v !== typeof values[0])) {\n            return ['filter-in-large', property, ['literal',
values.sort(compare)]];\n        } else {\n            return ['filter-in-small', property, ['literal', values]];\n        }\n
}\n}\n\nfunction convertHasOp(property: string) {\n    switch (property) {\n    case '$type':\n        return true;\n
case '$id':\n        return [`filter-has-id`];\n    default:\n        return [`filter-has`, property];\n    }\n}\n\nfunction
convertNegation(filter: mixed) {\n    return ['!', filter];\n}\n","// @flow\n\nimport {isExpressionFilter} from
'./index.js';\n\nimport type {FilterSpecification} from '../types.js';\n\ntype ExpectedTypes = {[_: string]: 'string' |
'number' | 'boolean'};\n\n/**\n * Convert the given legacy filter to (the JSON representation of) an\n * equivalent
expression\n * @private\n */\nexport default function convertFilter(filter: FilterSpecification): mixed {\n    return
_convertFilter(filter, {});\n}\n\n/*\n * Convert the given filter to an expression, storing the expected types for\n *
any feature properties referenced in expectedTypes.\n *\n * These expected types are needed in order to construct
preflight type checks\n * needed for handling 'any' filters. A preflight type check is necessary in\n * order to mimic
legacy filters' semantics around expected type mismatches.\n * For example, consider the legacy filter:\n *\n *
[\"any\", [\"all\", [\">\", \"y\", 0], [\">\", \"y\", 0]], [\">\", \"x\", 0]]\n *\n * Naively, we might convert this to the
expression:\n *\n *     [\"any\", [\"all\", [\">\", [\"get\", \"y\"], 0], [\">\", [\"get\", \"z\"], 0]], [\">\", [\"get\", \"x\"],
0]]\n *\n * But if we tried to evaluate this against, say `{x: 1, y: null, z: 0}`, the\n * [\">\", [\"get\", \"y\"], 0] would
cause an evaluation error, leading to the\n * entire filter returning false. Legacy filter semantics, though, ask for\n *
[\">\", \"y\", 0] to simply return `false` when `y` is of the wrong type,\n * allowing the subsequent terms of the outer
\"any\" expression to be evaluated\n * (resulting, in this case, in a `true` value, because x > 0).\n *\n * We account
for this by inserting a preflight type-checking expression before\n * each \"any\" term, allowing us to avoid
evaluating the actual converted filter\n * if any type mismatches would cause it to produce an evalaution error:\n *\n
*     [\"any\",\n *       [\"case\",\n *         [\"all\", [\"==\", [\"typeof\", [\"get\", \"y\"]], \"number\"], [\"==\", [\"typeof\",
[\"get\", \"z\"], \"number]],\n *         [\"all\", [\">\", [\"get\", \"y\"], 0], [\">\", [\"get\", \"z\"], 0]],\n *         false\n *
],\n *       [\"case\",\n *         [\"==\", [\"typeof\", [\"get\", \"x\"], \"number\"]],\n *         [\">\", [\"get\", \"x\"], 0],\n *
    false\n *       ]\n *     ]\n *\n * An alternative, possibly more direct approach would be to use type checks\n * in
the conversion of each comparison operator, so that the converted version\n * of each individual ==, >=, etc. would
mimic the legacy filter semantics. The\n * downside of this approach is that it can lead to many more type checks
than\n * would otherwise be necessary: outside the context of an \"any\" expression,\n * bailing out due to a runtime
type error (expression semantics) and returning\n * false (legacy filter semantics) are equivalent: they cause the filter
to\n * produce a `false` result.\n */\nfunction _convertFilter(filter: FilterSpecification, expectedTypes:
ExpectedTypes): mixed {\n    if (isExpressionFilter(filter)) { return filter; }\n\n    if (!filter) return true;\n    const op
= filter[0];\n    if (filter.length <= 1) return (op !== 'any');\n\n    let converted;\n\n    if (\n        op === '==' ||\n
op === '!=' ||\n        op === '<' ||\n        op === '>' ||\n        op === '<=' ||\n        op === '>='\n    ) {\n
const [, property, value] = (filter: any);\n        converted = convertComparisonOp(property, value, op, expectedTypes);\n    }
else if (op === 'any') {\n        const children = (filter: any).slice(1).map(f => {\n            const types = {};\n
const child = _convertFilter(f, types);\n            const typechecks = runtimeTypeChecks(types);\n            return
typechecks === true ? child : ['case', typechecks, child, false];\n        });\n        return ['any'].concat(children);\n    }
else if (op === 'all') {\n        const children = (filter: any).slice(1).map(f => _convertFilter(f, expectedTypes));\n
return children.length > 1 ? ['all'].concat(children) : [].concat(...children);\n    } else if (op === 'none') {\n        return
['!', _convertFilter(['any'].concat((filter: any).slice(1)), {})];\n    } else if (op === 'in') {\n        converted =
convertInOp((filter[1]: any), filter.slice(2));\n    } else if (op === '!in') {\n        converted = convertInOp((filter[1]:
any), filter.slice(2), true);\n    } else if (op === 'has') {\n        converted = convertHasOp((filter[1]: any));\n    } else if
(op === '!has') {\n        converted = ['!', convertHasOp((filter[1]: any))];\n    } else {\n        converted = true;\n
}\n\n    return converted;\n}\n\n// Given a set of feature properties and an expected type for each one,\n// construct
an boolean expression that tests whether each property has the\n// right type.\n// E.g.: for {name: 'string', population:
'number'}, return\n// [ 'all',\n//   ['==', ['typeof', ['get', 'name'], 'string']],\n//   ['==', ['typeof', ['get', 'population'],
'number']]\n// ]\nfunction runtimeTypeChecks(expectedTypes: ExpectedTypes) {\n    const conditions = [];\n    for
(const property in expectedTypes) {\n        const get = property === '$id' ? ['id'] : ['get', property];\n
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conditions.push(['==', ['typeof', get], expectedTypes[property]]);\n    }\n    if (conditions.length === 0) return true;\n    if (conditions.length === 1) return conditions[0];\n    return ['all'].concat(conditions);\n}\n\nfunction convertComparisonOp(property: string, value: any, op: string, expectedTypes: ?ExpectedTypes) {\n    let get;\n    if (property === '$type') {\n        return [op, ['geometry-type'], value];\n    } else if (property === '$id') {\n        get = ['id'];\n    } else {\n        get = ['get', property];\n    }\n\n    if (expectedTypes && value !== null) {\n        const type = ((typeof value): any);\n        expectedTypes[property] = type;\n    }\n\n    if (op === '==' && property !== '$id' && value === null) {\n        return [\n            'all',\n            ['has', property], // missing property != null for legacy filters\n            ['==', get, null]\n        ];\n    } else if (op === '!=' && property !== '$id' && value === null) {\n        return [\n        'any',\n            ['!', ['has', property]], // missing property != null for legacy filters\n            ['!=', get, null]\n    ];\n    }\n\n    return [op, get, value];\n}\n\nfunction convertInOp(property: string, values: Array<any>, negate = false) {\n    if (values.length === 0) return negate;\n\n    let get;\n    if (property === '$type') {\n        get = ['geometry-type'];\n    } else if (property === '$id') {\n        get = ['id'];\n    } else {\n        get = ['get', property];\n    }\n\n    // Determine if the list of values to be searched is homogenously typed.\n    // If so (and if the type is string or number), then we can use a\n    // [match, input, [...values], true, false] construction rather than a\n    // bunch of `==` tests.\n    let uniformTypes = true;\n    const type = typeof values[0];\n    for (const value of values) {\n        if (typeof value !== type) {\n            uniformTypes = false;\n            break;\n        }\n    }\n\n    if (uniformTypes && (type === 'string' || type === 'number')) {\n        // Match expressions must have unique values.\n        const uniqueValues = values.sort().filter((v, i) => i === 0 || values[i - 1] !== v);\n        return ['match', get, uniqueValues, !negate, negate];\n    }\n\n    return [ negate ? 'all' : 'any' ].concat(\n        values.map(v => [negate ? '!=' : '==', get, v])\n    );\n}\n\nfunction convertHasOp(property: string) {\n    if (property === '$type') {\n        return true;\n    } else if (property === '$id') {\n        return ['!=', ['id'], null];\n    } else {\n        return ['has', property];\n    }\n}\n","// @flow\n\nimport {\n    eachLayer,\n    eachProperty\n} from '../visit.js';\nimport {isExpression} from '../expression/index.js';\nimport convertFunction, {convertTokenString} from '../function/convert.js';\nimport convertFilter from '../feature_filter/convert.js';\n\nimport type {StyleSpecification} from '../types.js';\n\n/**\n * Migrate the given style object in place to use expressions. Specifically,\n * this will convert (a) \"stop\" functions, and (b) legacy filters to their\n * expression equivalents.\n */\nexport default function(style: StyleSpecification): StyleSpecification {\n    const converted = [];\n\n    eachLayer(style, (layer) => {\n        if (layer.filter) {\n            layer.filter = (convertFilter(layer.filter): any);\n        }\n    });\n\n    eachProperty(style, {paint: true, layout: true}, ({path, value, reference, set}) => {\n        if (isExpression(value)) return;\n        if (typeof value === 'object' && !Array.isArray(value)) {\n            set(convertFunction(value, reference));\n            converted.push(path.join('.'));\n        } else if (reference.tokens && typeof value === 'string') {\n            set(convertTokenString(value));\n        }\n    });\n\n    return style;\n}\n\n","'\nimport migrateToV8 from './migrate/v8.js';\nimport migrateToExpressions from './migrate/expressions.js';\n\n/**\n * Migrate a Mapbox GL Style to the latest version.\n *\n * @private\n * @alias migrate\n * @param {object} style a Mapbox GL Style\n * @returns {Object} a migrated style\n * @example\n * var fs = require('fs');\n * var migrate = require('mapbox-gl-style-spec').migrate;\n * var style = fs.readFileSync('./style.json', 'utf8');\n * fs.writeFileSync('./style.json', JSON.stringify(migrate(style)));\n */\nexport default function(style) {\n    let migrated = false;\n\n    if (style.version === 7) {\n        style = migrateToV8(style);\n        migrated = true;\n    }\n\n    if (style.version === 8) {\n        migrated = migrateToExpressions(style);\n        migrated = true;\n    }\n\n    if (!migrated) {\n        throw new Error('cannot migrate from', style.version);\n    }\n\n    return style;\n}\n","\nexport default function (style) {\n    const styleIDs = [];\n    const sourceIDs = [];\n    const compositedSourceLayers = [];\n\n    for (const id in style.sources) {\n        const source = style.sources[id];\n\n        if (source.type !== \"vector\")\n            continue;\n\n        const match = /^mapbox:\\/\\/(.*)/.exec(source.url);\n        if (!match)\n            continue;\n\n        styleIDs.push(id);\n        sourceIDs.push(match[1]);\n    }\n\n    if (styleIDs.length < 2)\n        return style;\n\n    styleIDs.forEach((id) => {\n        delete style.sources[id];\n    });\n\n    const compositeID = sourceIDs.join(\",\");\n\n    style.sources[compositeID] = {\n        \"type\": \"vector\",\n        \"url\": `mapbox://${compositeID}`\n    };\n\n    style.layers.forEach((layer) => {\n        if (styleIDs.indexOf(layer.source) >= 0) {\n            layer.source = compositeID;\n\n            if ('source-layer' in layer) {\n                if (compositedSourceLayers.indexOf(layer['source-layer']) >= 0) {\n                    throw new
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Error('Conflicting source layer names');\n } else {\n compositedSourceLayers.push(layer['source-layer']);\n }\n }\n }\n });\n\n return style;\n}\n","// @flow\nexport default ['type', 'source', 'source-layer', 'minzoom', 'maxzoom', 'filter', 'layout'];\n","// @flow\n\nimport refProperties from './util/ref_properties.js';\n\nimport type {LayerSpecification} from './types.js';\n\nfunction deref(layer: LayerSpecification, parent: LayerSpecification): LayerSpecification {\n const result = {};\n\n for (const k in layer) {\n if (k !== 'ref') {\n result[k] = layer[k];\n }\n }\n\n refProperties.forEach((k) => {\n if (k in parent) {\n result[k] = (parent: any)[k];\n }\n });\n\n return ((result: any): LayerSpecification);\n}\n\n/**\n * Given an array of layers, some of which may contain `ref` properties\n * whose value is the `id` of another property, return a new array where\n * such layers have been augmented with the 'type', 'source', etc. properties\n * from the parent layer, and the `ref` property has been removed.\n *\n * The input is not modified. The output may contain references to portions\n * of the input.\n *\n * @private\n * @param {Array<Layer>} layers\n * @returns {Array<Layer>}\n */\nexport default function derefLayers(layers: Array<LayerSpecification>): Array<LayerSpecification> {\n layers = layers.slice();\n\n const map = Object.create(null);\n for (let i = 0; i < layers.length; i++) {\n map[layers[i].id] = layers[i];\n }\n\n for (let i = 0; i < layers.length; i++) {\n if ('ref' in layers[i]) {\n layers[i] = deref(layers[i], map[(layers[i]: any).ref]);\n }\n }\n\n return layers;\n}\n","// @flow\n\n/**\n * Deeply compares two object literals.\n *\n * @private\n */\nfunction deepEqual(a: ?mixed, b: ?mixed): boolean {\n if (Array.isArray(a)) {\n if (!Array.isArray(b) || a.length !== b.length) return false;\n for (let i = 0; i < a.length; i++) {\n if (!deepEqual(a[i], b[i])) return false;\n }\n return true;\n }\n if (typeof a === 'object' && a !== null && b !== null) {\n if (!(typeof b === 'object')) return false;\n const keys = Object.keys(a);\n if (keys.length !== Object.keys(b).length) return false;\n for (const key in a) {\n if (!deepEqual(a[key], b[key])) return false;\n }\n return true;\n }\n return a === b;\n}\n\nexport default deepEqual;\n","// @flow\n\nimport isEqual from './util/deep_equal.js';\n\nimport type {StyleSpecification} from './types.js';\n\ntype Command = {\n command: string;\n args: Array<any>;\n};\n\nexport const operations: {[_: string]: string} = {\n\n /*\n * { command: 'setStyle', args: [stylesheet] }\n */\n setStyle: 'setStyle',\n\n /*\n * { command: 'addLayer', args: [layer, 'beforeLayerId'] }\n */\n addLayer: 'addLayer',\n\n /*\n * { command: 'removeLayer', args: ['layerId'] }\n */\n removeLayer: 'removeLayer',\n\n /*\n * { command: 'setPaintProperty', args: ['layerId', 'prop', value] }\n */\n setPaintProperty: 'setPaintProperty',\n\n /*\n * { command: 'setLayoutProperty', args: ['layerId', 'prop', value] }\n */\n setLayoutProperty: 'setLayoutProperty',\n\n /*\n * { command: 'setFilter', args: ['layerId', filter] }\n */\n setFilter: 'setFilter',\n\n /*\n * { command: 'addSource', args: ['sourceId', source] }\n */\n addSource: 'addSource',\n\n /*\n * { command: 'removeSource', args: ['sourceId'] }\n */\n removeSource: 'removeSource',\n\n /*\n * { command: 'setGeoJSONSourceData', args: ['sourceId', data] }\n */\n setGeoJSONSourceData: 'setGeoJSONSourceData',\n\n /*\n * { command: 'setLayerZoomRange', args: ['layerId', 0, 22] }\n */\n setLayerZoomRange: 'setLayerZoomRange',\n\n /*\n * { command: 'setLayerProperty', args: ['layerId', 'prop', value] }\n */\n setLayerProperty: 'setLayerProperty',\n\n /*\n * { command: 'setCenter', args: [[lon, lat]] }\n */\n setCenter: 'setCenter',\n\n /*\n * { command: 'setZoom', args: [zoom] }\n */\n setZoom: 'setZoom',\n\n /*\n * { command: 'setBearing', args: [bearing] }\n */\n setBearing: 'setBearing',\n\n /*\n * { command: 'setPitch', args: [pitch] }\n */\n setPitch: 'setPitch',\n\n /*\n * { command: 'setSprite', args: ['spriteUrl'] }\n */\n setSprite: 'setSprite',\n\n /*\n * { command: 'setGlyphs', args: ['glyphsUrl'] }\n */\n setGlyphs: 'setGlyphs',\n\n /*\n * { command: 'setTransition', args: [transition] }\n */\n setTransition: 'setTransition',\n\n /*\n * { command: 'setLighting', args: [lightProperties] }\n */\n setLight: 'setLight',\n\n /*\n * { command: 'setTerrain', args: [terrainProperties] }\n */\n setTerrain: 'setTerrain',\n\n /*\n * { command: 'setFog', args: [fogProperties] }\n */\n setFog: 'setFog',\n\n /*\n * { command: 'setProjection', args: [projectionProperties] }\n */\n setProjection: 'setProjection'\n};\n\nfunction addSource(sourceId, after, commands) {\n commands.push({command: operations.addSource, args: [sourceId, after[sourceId]]});\n}\n\nfunction removeSource(sourceId, commands, sourcesRemoved) {\n commands.push({command: operations.removeSource, args: [sourceId]});\n sourcesRemoved[sourceId] = true;\n}\n\nfunction updateSource(sourceId, after, commands, sourcesRemoved) {\n

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removeSource(sourceId, commands, sourcesRemoved);\n    addSource(sourceId, after, commands);\n}\n\nfunction canUpdateGeoJSON(before, after, sourceId) {\n    let prop;\n    for (prop in before[sourceId]) {\n        if (!before[sourceId].hasOwnProperty(prop)) continue;\n        if (prop !== 'data' && !isEqual(before[sourceId][prop], after[sourceId][prop])) {\n            return false;\n        }\n    }\n    for (prop in after[sourceId]) {\n        if (!after[sourceId].hasOwnProperty(prop)) continue;\n        if (prop !== 'data' && !isEqual(before[sourceId][prop], after[sourceId][prop])) {\n            return false;\n        }\n    }\n    return true;\n}\n\nfunction diffSources(before, after, commands, sourcesRemoved) {\n    before = before || {};\n    after = after || {};\n\n    let sourceId;\n\n    // look for sources to remove\n    for (sourceId in before) {\n        if (!before.hasOwnProperty(sourceId)) continue;\n        if (!after.hasOwnProperty(sourceId)) {\n            removeSource(sourceId, commands, sourcesRemoved);\n        }\n    }\n\n    // look for sources to add/update\n    for (sourceId in after) {\n        if (!after.hasOwnProperty(sourceId)) continue;\n        if (!before.hasOwnProperty(sourceId)) {\n            addSource(sourceId, after, commands);\n        } else if (!isEqual(before[sourceId], after[sourceId])) {\n            if (before[sourceId].type === 'geojson' && after[sourceId].type === 'geojson' && canUpdateGeoJSON(before, after, sourceId)) {\n                commands.push({command: operations.setGeoJSONSourceData, args: [sourceId, after[sourceId].data]});\n            } else {\n                // no update command, must remove then add\n                updateSource(sourceId, after, commands, sourcesRemoved);\n            }\n        }\n    }\n}\n\nfunction diffLayerPropertyChanges(before, after, commands, layerId, klass, command) {\n    before = before || {};\n    after = after || {};\n\n    let prop;\n\n    for (prop in before) {\n        if (!before.hasOwnProperty(prop)) continue;\n        if (!isEqual(before[prop], after[prop])) {\n            commands.push({command, args: [layerId, prop, after[prop], klass]});\n        }\n    }\n    for (prop in after) {\n        if (!after.hasOwnProperty(prop) || before.hasOwnProperty(prop)) continue;\n        if (!isEqual(before[prop], after[prop])) {\n            commands.push({command, args: [layerId, prop, after[prop], klass]});\n        }\n    }\n}\n\nfunction pluckId(layer) {\n    return layer.id;\n}\nfunction indexById(group, layer) {\n    group[layer.id] = layer;\n    return group;\n}\n\nfunction diffLayers(before, after, commands) {\n    before = before || [];\n    after = after || [];\n\n    // order of layers by id\n    const beforeOrder = before.map(pluckId);\n    const afterOrder = after.map(pluckId);\n\n    // index of layer by id\n    const beforeIndex = before.reduce(indexById, {});\n    const afterIndex = after.reduce(indexById, {});\n\n    // track order of layers as if they have been mutated\n    const tracker = beforeOrder.slice();\n\n    // layers that have been added do not need to be diffed\n    const clean = Object.create(null);\n\n    let i, d, layerId, beforeLayer, afterLayer, insertBeforeLayerId, prop;\n\n    // remove layers\n    for (i = 0, d = 0; i < beforeOrder.length; i++) {\n        layerId = beforeOrder[i];\n        if (!afterIndex.hasOwnProperty(layerId)) {\n            commands.push({command: operations.removeLayer, args: [layerId]});\n            tracker.splice(tracker.indexOf(layerId, d), 1);\n        } else {\n            // limit where in tracker we need to look for a match\n            d++;\n        }\n    }\n\n    // add/reorder layers\n    for (i = 0, d = 0; i < afterOrder.length; i++) {\n        // work backwards as insert is before an existing layer\n        layerId = afterOrder[afterOrder.length - 1 - i];\n\n        if (tracker[tracker.length - 1 - i] === layerId) continue;\n\n        if (beforeIndex.hasOwnProperty(layerId)) {\n            // remove the layer before we insert at the correct position\n            commands.push({command: operations.removeLayer, args: [layerId]});\n            tracker.splice(tracker.lastIndexOf(layerId, tracker.length - d), 1);\n        } else {\n            // limit where in tracker we need to look for a match\n            d++;\n        }\n\n        // add layer at correct position\n        insertBeforeLayerId = tracker[tracker.length - i];\n        commands.push({command: operations.addLayer, args: [afterIndex[layerId], insertBeforeLayerId]});\n        tracker.splice(tracker.length - i, 0, layerId);\n        clean[layerId] = true;\n    }\n\n    // update layers\n    for (i = 0; i < afterOrder.length; i++) {\n        layerId = afterOrder[i];\n        beforeLayer = beforeIndex[layerId];\n        afterLayer = afterIndex[layerId];\n\n        // no need to update if previously added (new or moved)\n        if (clean[layerId] || isEqual(beforeLayer, afterLayer)) continue;\n\n        // If source, source-layer, or type have changes, then remove the layer\n        // and add it back 'from scratch'.\n        if (!isEqual(beforeLayer.source, afterLayer.source) || !isEqual(beforeLayer['source-layer'], afterLayer['source-layer']) || !isEqual(beforeLayer.type, afterLayer.type)) {\n            commands.push({command: operations.removeLayer, args: [layerId]});\n            // we add the layer back at the same position it was already in, so\n            // there's no need to update the `tracker`\n            insertBeforeLayerId = tracker[tracker.lastIndexOf(layerId) + 1];\n
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commands.push({command: operations.addLayer, args: [afterLayer, insertBeforeLayerId]});\n            continue;\n        }\n\n        // layout, paint, filter, minzoom, maxzoom\n        diffLayerPropertyChanges(beforeLayer.layout, afterLayer.layout, commands, layerId, null, operations.setLayoutProperty);\n        diffLayerPropertyChanges(beforeLayer.paint, afterLayer.paint, commands, layerId, null, operations.setPaintProperty);\n        if (!isEqual(beforeLayer.filter, afterLayer.filter)) {\n            commands.push({command: operations.setFilter, args: [layerId, afterLayer.filter]});\n        }\n        if (!isEqual(beforeLayer.minzoom, afterLayer.minzoom) || !isEqual(beforeLayer.maxzoom, afterLayer.maxzoom)) {\n            commands.push({command: operations.setLayerZoomRange, args: [layerId, afterLayer.minzoom, afterLayer.maxzoom]});\n        }\n\n        // handle all other layer props, including paint.*\n        for (prop in beforeLayer) {\n            if (!beforeLayer.hasOwnProperty(prop)) continue;\n            if (prop === 'layout' || prop === 'paint' || prop === 'filter' ||\n                prop === 'metadata' || prop === 'minzoom' || prop === 'maxzoom') continue;\n            if (prop.indexOf('paint.') === 0) {\n                diffLayerPropertyChanges(beforeLayer[prop], afterLayer[prop], commands, layerId, prop.slice(6), operations.setPaintProperty);\n            } else if (!isEqual(beforeLayer[prop], afterLayer[prop])) {\n                commands.push({command: operations.setLayerProperty, args: [layerId, prop, afterLayer[prop]]});\n            }\n        }\n        for (prop in afterLayer) {\n            if (!afterLayer.hasOwnProperty(prop) || beforeLayer.hasOwnProperty(prop)) continue;\n            if (prop === 'layout' || prop === 'paint' || prop === 'filter' ||\n                prop === 'metadata' || prop === 'minzoom' || prop === 'maxzoom') continue;\n            if (prop.indexOf('paint.') === 0) {\n                diffLayerPropertyChanges(beforeLayer[prop], afterLayer[prop], commands, layerId, prop.slice(6), operations.setPaintProperty);\n            } else if (!isEqual(beforeLayer[prop], afterLayer[prop])) {\n                commands.push({command: operations.setLayerProperty, args: [layerId, prop, afterLayer[prop]]});\n            }\n        }\n    }\n}\n\n/**\n * Diff two stylesheet\n *\n * Creates semanticly aware diffs that can easily be applied at runtime.\n * Operations produced by the diff closely resemble the mapbox-gl-js API. Any\n * error creating the diff will fall back to the 'setStyle' operation.\n *\n * Example diff:\n * [\n *     { command: 'setConstant', args: ['@water', '#0000FF'] },\n *     { command: 'setPaintProperty', args: ['background', 'background-color', 'black'] }\n * ]\n *\n * @private\n * @param {*} [before] stylesheet to compare from\n * @param {*} after stylesheet to compare to\n * @returns Array list of changes\n */\nexport default function diffStyles(before: StyleSpecification, after: StyleSpecification): Array<Command> {\n    if (!before) return [{command: operations.setStyle, args: [after]}];\n\n    let commands = [];\n\n    try {\n        // Handle changes to top-level properties\n        if (!isEqual(before.version, after.version)) {\n            return [{command: operations.setStyle, args: [after]}];\n        }\n        if (!isEqual(before.center, after.center)) {\n            commands.push({command: operations.setCenter, args: [after.center]});\n        }\n        if (!isEqual(before.zoom, after.zoom)) {\n            commands.push({command: operations.setZoom, args: [after.zoom]});\n        }\n        if (!isEqual(before.bearing, after.bearing)) {\n            commands.push({command: operations.setBearing, args: [after.bearing]});\n        }\n        if (!isEqual(before.pitch, after.pitch)) {\n            commands.push({command: operations.setPitch, args: [after.pitch]});\n        }\n        if (!isEqual(before.sprite, after.sprite)) {\n            commands.push({command: operations.setSprite, args: [after.sprite]});\n        }\n        if (!isEqual(before.glyphs, after.glyphs)) {\n            commands.push({command: operations.setGlyphs, args: [after.glyphs]});\n        }\n        if (!isEqual(before.transition, after.transition)) {\n            commands.push({command: operations.setTransition, args: [after.transition]});\n        }\n        if (!isEqual(before.light, after.light)) {\n            commands.push({command: operations.setLight, args: [after.light]});\n        }\n        if (!isEqual(before.fog, after.fog)) {\n            commands.push({command: operations.setFog, args: [after.fog]});\n        }\n        if (!isEqual(before.projection, after.projection)) {\n            commands.push({command: operations.setProjection, args: [after.projection]});\n        }\n\n        // Handle changes to `sources`\n        // If a source is to be removed, we also--before the removeSource\n        // command--need to remove all the style layers that depend on it.\n        const sourcesRemoved = {};\n\n        // First collect the {add,remove}Source commands\n        const removeOrAddSourceCommands = [];\n        diffSources(before.sources, after.sources, removeOrAddSourceCommands, sourcesRemoved);\n\n        // Push a removeLayer command for each style layer that depends on a\n        // source that's being removed.\n        // Also,
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exclude any such layers them from the input to `diffLayers`\n // below, so that diffLayers produces the appropriate `addLayers`\n // command\n const beforeLayers = [];\n if (before.layers) {\n before.layers.forEach((layer) => {\n if (layer.source && sourcesRemoved[layer.source]) {\n commands.push({command: operations.removeLayer, args: [layer.id]});\n } else {\n beforeLayers.push(layer);\n }\n });\n }\n\n // Remove the terrain if the source for that terrain is being removed\n let beforeTerrain = before.terrain;\n if (beforeTerrain) {\n if (sourcesRemoved[beforeTerrain.source]) {\n commands.push({command: operations.setTerrain, args: [undefined]});\n beforeTerrain = undefined;\n }\n }\n\n commands = commands.concat(removeOrAddSourceCommands);\n\n // Even though terrain is a top-level property\n // Its like a layer in the sense that it depends on a source being present.\n if (!isEqual(beforeTerrain, after.terrain)) {\n commands.push({command: operations.setTerrain, args: [after.terrain]});\n }\n\n // Handle changes to `layers`\n diffLayers(beforeLayers, after.layers, commands);\n\n } catch (e) {\n // fall back to setStyle\n console.warn('Unable to compute style diff:', e);\n commands = [{command: operations.setStyle, args: [after]}];\n }\n\n return commands;\n}\n","// @flow\n\n// Note: Do not inherit from Error. It breaks when transpiling to ES5.\n\nexport default class ValidationError {\n message: string;\n identifier: ?string;\n line: ?number;\n\n constructor(key: ?string, value: ?{ __line__: number }, message: string, identifier: ?string) {\n this.message = (key ? `${key}: ` : '') + message;\n if (identifier) this.identifier = identifier;\n\n if (value !== null && value !== undefined && value.__line__) {\n this.line = value.__line__;\n }\n }\n}\n","// @flow\n\n// Note: Do not inherit from Error. It breaks when transpiling to ES5.\n\nexport default class ParsingError {\n message: string;\n error: Error;\n line: number;\n\n constructor(error: Error) {\n this.error = error;\n this.message = error.message;\n const match = error.message.match(/line (\\d+)/);\n this.line = match ? parseInt(match[1], 10) : 0;\n }\n}\n","// @flow\n\nimport ValidationError from '../error/validation_error.js';\nimport getType from '../util/get_type.js';\nimport validateSpec from './validate.js';\n\nimport type {ValidationOptions} from './validate.js';\n\ntype Options = ValidationOptions & {\n objectElementValidators?: Function;\n};\n\nexport default function validateObject(options: Options): Array<ValidationError> {\n const key = options.key;\n const object = options.value;\n const elementSpecs = options.valueSpec || {};\n const elementValidators = options.objectElementValidators || {};\n const style = options.style;\n const styleSpec = options.styleSpec;\n let errors = [];\n\n const type = getType(object);\n if (type !== 'object') {\n return [new ValidationError(key, object, `object expected, ${type} found`)];\n }\n\n for (const objectKey in object) {\n const elementSpecKey = objectKey.split('.')[0]; // treat 'paint.*' as 'paint'\n const elementSpec = elementSpecs[elementSpecKey] || elementSpecs['*'];\n\n let validateElement;\n if (elementValidators[elementSpecKey]) {\n validateElement = elementValidators[elementSpecKey];\n } else if (elementSpecs[elementSpecKey]) {\n validateElement = validateSpec;\n } else if (elementValidators['*']) {\n validateElement = elementValidators['*'];\n } else if (elementSpecs['*']) {\n validateElement = validateSpec;\n }\n\n if (!validateElement) {\n errors.push(new ValidationError(key, object[objectKey], `unknown property \"${objectKey}\"`));\n continue;\n }\n\n errors = errors.concat(validateElement({\n key: (key ? `${key}.` : key) + objectKey,\n value: object[objectKey],\n valueSpec: elementSpec,\n style,\n styleSpec,\n object,\n objectKey\n // $FlowFixMe[extra-arg]\n }, object));\n }\n\n for (const elementSpecKey in elementSpecs) {\n // Don't check `required` when there's a custom validator for that property.\n if (elementValidators[elementSpecKey]) {\n continue;\n }\n\n if (elementSpecs[elementSpecKey].required && elementSpecs[elementSpecKey]['default'] === undefined && object[elementSpecKey] === undefined) {\n errors.push(new ValidationError(key, object, `missing required property \"${elementSpecKey}\"`));\n }\n }\n\n return errors;\n}\n","// @flow\n\nimport getType from '../util/get_type.js';\nimport validate from './validate.js';\nimport ValidationError from '../error/validation_error.js';\n\nimport type {ValidationOptions} from './validate.js';\n\ntype Options = ValidationOptions & {\n arrayElementValidator: Function;\n};\n\nexport default function validateArray(options: Options): Array<ValidationError> {\n const array = options.value;\n const arraySpec = options.valueSpec;\n

const style = options.style;\n   const styleSpec = options.styleSpec;\n   const key = options.key;\n   const validateArrayElement = options.arrayElementValidator || validate;\n\n   if (getType(array) !== 'array') {\n   return [new ValidationError(key, array, `array expected, ${getType(array)} found`)];\n   }\n\n   if (arraySpec.length && array.length !== arraySpec.length) {\n   return [new ValidationError(key, array, `array length ${arraySpec.length} expected, length ${array.length} found`)];\n   }\n\n   if (arraySpec['min-length'] && array.length < arraySpec['min-length']) {\n   return [new ValidationError(key, array, `array length at least ${arraySpec['min-length']} expected, length ${array.length} found`)];\n   }\n\n   let arrayElementSpec = {\n   \"type\": arraySpec.value,\n   \"values\": arraySpec.values,\n   \"minimum\": arraySpec.minimum,\n   \"maximum\": arraySpec.maximum,\n   function: undefined\n   };\n\n   if (styleSpec.$version < 7) {\n   arrayElementSpec.function = arraySpec.function;\n   }\n\n   if (getType(arraySpec.value) === 'object') {\n   arrayElementSpec = arraySpec.value;\n   }\n\n   let errors = [];\n   for (let i = 0; i < array.length; i++) {\n   errors = errors.concat(validateArrayElement({\n   array,\n   arrayIndex: i,\n   value: array[i],\n   valueSpec: arrayElementSpec,\n   style,\n   styleSpec,\n   key: `${key}[${i}]`\n   }));\n   }\n   return errors;\n}\n","// @flow\n\nimport getType from '../util/get_type.js';\nimport ValidationError from '../error/validation_error.js';\n\nimport type {ValidationOptions} from './validate.js';\n\ntype Options = ValidationOptions & {\n   arrayIndex: number;\n}\n\nexport default function validateNumber(options: Options): Array<ValidationError> {\n   const key = options.key;\n   const value = options.value;\n   const valueSpec = options.valueSpec;\n   let type = getType(value);\n\n   // eslint-disable-next-line no-self-compare\n   if (type === 'number' && value !== value) {\n   type = 'NaN';\n   }\n\n   if (type !== 'number') {\n   return [new ValidationError(key, value, `number expected, ${type} found`)];\n   }\n\n   if ('minimum' in valueSpec) {\n   let specMin = valueSpec.minimum;\n   if (getType(valueSpec.minimum) === 'array') {\n   const i = options.arrayIndex;\n   specMin = valueSpec.minimum[i];\n   }\n   if (value < specMin) {\n   return [new ValidationError(key, value, `${value} is less than the minimum value ${specMin}`)];\n   }\n   }\n\n   if ('maximum' in valueSpec) {\n   let specMax = valueSpec.maximum;\n   if (getType(valueSpec.maximum) === 'array') {\n   const i = options.arrayIndex;\n   specMax = valueSpec.maximum[i];\n   }\n   if (value > specMax) {\n   return [new ValidationError(key, value, `${value} is greater than the maximum value ${specMax}`)];\n   }\n   }\n\n   return [];\n}\n","// @flow\n\nimport ValidationError from '../error/validation_error.js';\nimport getType from '../util/get_type.js';\nimport validate from './validate.js';\nimport validateObject from './validate_object.js';\nimport validateArray from './validate_array.js';\nimport validateNumber from './validate_number.js';\nimport {isExpression} from '../expression/index.js';\nimport {unbundle, deepUnbundle} from '../util/unbundle_jsonlint.js';\nimport {\n   supportsPropertyExpression,\n   supportsZoomExpression,\n   supportsInterpolation\n} from '../util/properties.js';\n\nimport type {ValidationOptions} from './validate.js';\n\nexport default function validateFunction(options: ValidationOptions): any {\n   const functionValueSpec = options.valueSpec;\n   const functionType = unbundle(options.value.type);\n   let stopKeyType;\n   let stopDomainValues: {[string | number]: boolean} = {};\n   let previousStopDomainValue;\n   let previousStopDomainZoom;\n\n   const isZoomFunction = functionType !== 'categorical' && options.value.property === undefined;\n   const isPropertyFunction = !isZoomFunction;\n   const isZoomAndPropertyFunction =\n   getType(options.value.stops) === 'array' &&\n   getType(options.value.stops[0]) === 'array' &&\n   getType(options.value.stops[0][0]) === 'object';\n\n   const errors = validateObject({\n   key: options.key,\n   value: options.value,\n   valueSpec: options.styleSpec.function,\n   style: options.style,\n   styleSpec: options.styleSpec,\n   objectElementValidators: {\n   stops: validateFunctionStops,\n   default: validateFunctionDefault\n   }\n   });\n\n   if (functionType === 'identity' && isZoomFunction) {\n   errors.push(new ValidationError(options.key, options.value, 'missing required property \"property\"'));\n   }\n\n   if (functionType !== 'identity' && !options.value.stops) {\n   errors.push(new ValidationError(options.key, options.value, 'missing required property \"stops\"'));\n   }\n\n   if (functionType === 'exponential' && options.valueSpec.expression && !supportsInterpolation(options.valueSpec)) {\n   errors.push(new ValidationError(options.key, options.value, 'exponential functions not supported'));\n   }\n\n   if (options.styleSpec.$version >= 8) {\n   if

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(isPropertyFunction && !supportsPropertyExpression(options.valueSpec)) {\n            errors.push(new ValidationError(options.key, options.value, 'property functions not supported'));\n        } else if (isZoomFunction && !supportsZoomExpression(options.valueSpec)) {\n            errors.push(new ValidationError(options.key, options.value, 'zoom functions not supported'));\n        }\n    }\n\n    if ((functionType === 'categorical' || isZoomAndPropertyFunction) && options.value.property === undefined) {\n        errors.push(new ValidationError(options.key, options.value, '\"property\" property is required'));\n    }\n\n    return errors;\n\n function validateFunctionStops(options: ValidationOptions) {\n        if (functionType === 'identity') {\n return [new ValidationError(options.key, options.value, 'identity function may not have a \"stops\" property')];\n }\n\n        let errors = [];\n        const value = options.value;\n\n        errors = errors.concat(validateArray({\n key: options.key,\n            value,\n            valueSpec: options.valueSpec,\n            style: options.style,\n styleSpec: options.styleSpec,\n            arrayElementValidator: validateFunctionStop\n        }));\n\n        if (getType(value) === 'array' && value.length === 0) {\n            errors.push(new ValidationError(options.key, value, 'array must have at least one stop'));\n        }\n\n        return errors;\n    }\n\n    function validateFunctionStop(options: ValidationOptions) {\n        let errors = [];\n        const value = options.value;\n const key = options.key;\n\n        if (getType(value) !== 'array') {\n            return [new ValidationError(key, value, `array expected, ${getType(value)} found`)];\n        }\n\n        if (value.length !== 2) {\n            return [new ValidationError(key, value, `array length 2 expected, length ${value.length} found`)];\n        }\n\n        if (isZoomAndPropertyFunction) {\n            if (getType(value[0]) !== 'object') {\n                return [new ValidationError(key, value, `object expected, ${getType(value[0])} found`)];\n            }\n            if (value[0].zoom === undefined) {\n                return [new ValidationError(key, value, 'object stop key must have zoom')];\n }\n            if (value[0].value === undefined) {\n                return [new ValidationError(key, value, 'object stop key must have value')];\n            }\n\n            const nextStopDomainZoom = unbundle(value[0].zoom);\n            if (typeof nextStopDomainZoom !== 'number') {\n                return [new ValidationError(key, value[0].zoom, 'stop zoom values must be numbers')];\n            }\n\n            if (previousStopDomainZoom && previousStopDomainZoom > nextStopDomainZoom) {\n                return [new ValidationError(key, value[0].zoom, 'stop zoom values must appear in ascending order')];\n            }\n            if (nextStopDomainZoom !== previousStopDomainZoom) {\n                previousStopDomainZoom = nextStopDomainZoom;\n previousStopDomainValue = undefined;\n                stopDomainValues = {};\n            }\n            errors = errors.concat(validateObject({\n                key: `${key}[0]`,\n                value: value[0],\n                valueSpec: {zoom: {}},\n                style: options.style,\n                styleSpec: options.styleSpec,\n objectElementValidators: {zoom: validateNumber, value: validateStopDomainValue}\n            }));\n        } else {\n            errors = errors.concat(validateStopDomainValue({\n                key: `${key}[0]`,\n                value: value[0],\n valueSpec: {},\n                style: options.style,\n                styleSpec: options.styleSpec\n            }, value));\n  }\n\n        if (isExpression(deepUnbundle(value[1]))) {\n            return errors.concat([new ValidationError(`${key}[1]`, value[1], 'expressions are not allowed in function stops.')]);\n        }\n\n        return errors.concat(validate({\n            key: `${key}[1]`,\n            value: value[1],\n            valueSpec: functionValueSpec,\n            style: options.style,\n            styleSpec: options.styleSpec\n        }));\n    }\n\n function validateStopDomainValue(options: ValidationOptions, stop) {\n        const type = getType(options.value);\n        const value = unbundle(options.value);\n\n        const reportValue = options.value !== null ? options.value : stop;\n\n        if (!stopKeyType) {\n            stopKeyType = type;\n        } else if (type !== stopKeyType) {\n            return [new ValidationError(options.key, reportValue, `${type} stop domain type must match previous stop domain type ${stopKeyType}`)];\n        }\n\n        if (type !== 'number' && type !== 'string' && type !== 'boolean' && typeof value !== 'number' && typeof value !== 'string' && typeof value !== 'boolean') {\n            return [new ValidationError(options.key, reportValue, 'stop domain value must be a number, string, or boolean')];\n        }\n\n        if (type !== 'number' && functionType !== 'categorical') {\n            let message = `number expected, ${type} found`;\n            if (supportsPropertyExpression(functionValueSpec) && functionType === undefined) {\n                message += '\\nIf you intended to use a categorical function, specify `\"type\": \"categorical\"`.';\n            }\n            return [new ValidationError(options.key, reportValue, message)];\n        }\n\n
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  if (functionType === 'categorical' && type === 'number' && (typeof value !== 'number' || !isFinite(value) || Math.floor(value) !== value)) {\n            return [new ValidationError(options.key, reportValue, `integer expected, found ${String(value)}`)];\n        }\n\n        if (functionType !== 'categorical' && type === 'number' && typeof value === 'number' && typeof previousStopDomainValue === 'number' && previousStopDomainValue !== undefined && value < previousStopDomainValue) {\n            return [new ValidationError(options.key, reportValue, 'stop domain values must appear in ascending order')];\n        } else {\n            previousStopDomainValue = value;\n        }\n\n        if (functionType === 'categorical' && (value: any) in stopDomainValues) {\n            return [new ValidationError(options.key, reportValue, 'stop domain values must be unique')];\n        } else {\n            stopDomainValues[(value: any)] = true;\n        }\n\n        return [];\n    }\n\n    function validateFunctionDefault(options: ValidationOptions) {\n        return validate({\n            key: options.key,\n            value: options.value,\n            valueSpec: functionValueSpec,\n            style: options.style,\n            styleSpec: options.styleSpec\n        });\n    }\n}\n","// @flow\n\nimport ValidationError from '../error/validation_error.js';\n\nimport {createExpression, createPropertyExpression} from '../expression/index.js';\nimport {deepUnbundle} from '../util/unbundle_jsonlint.js';\nimport {isStateConstant, isGlobalPropertyConstant, isFeatureConstant} from '../expression/is_constant.js';\nimport CompoundExpression from '../expression/compound_expression.js';\n\nimport type {Expression} from '../expression/expression.js';\n\nexport default function validateExpression(options: any): Array<ValidationError> {\n    const expression = (options.expressionContext === 'property' ? createPropertyExpression : createExpression)(deepUnbundle(options.value), options.valueSpec);\n    if (expression.result === 'error') {\n        return expression.value.map((error) => {\n            return new ValidationError(`${options.key}${error.key}`, options.value, error.message);\n        });\n    }\n\n    const expressionObj = (expression.value: any).expression || (expression.value: any)._styleExpression.expression;\n\n    if (options.expressionContext === 'property' && (options.propertyKey === 'text-font') &&\n        !expressionObj.outputDefined()) {\n        return [new ValidationError(options.key, options.value, `Invalid data expression for \"${options.propertyKey}\". Output values must be contained as literals within the expression.`)];\n    }\n\n    if (options.expressionContext === 'property' && options.propertyType === 'layout' &&\n        (!isStateConstant(expressionObj))) {\n        return [new ValidationError(options.key, options.value, '\"feature-state\" data expressions are not supported with layout properties.')];\n    }\n\n    if (options.expressionContext === 'filter') {\n        return disallowedFilterParameters(expressionObj, options);\n    }\n\n    if (options.expressionContext && options.expressionContext.indexOf('cluster') === 0) {\n        if (!isGlobalPropertyConstant(expressionObj, ['zoom', 'feature-state'])) {\n            return [new ValidationError(options.key, options.value, '\"zoom\" and \"feature-state\" expressions are not supported with cluster properties.')];\n        }\n        if (options.expressionContext === 'cluster-initial' && !isFeatureConstant(expressionObj)) {\n            return [new ValidationError(options.key, options.value, 'Feature data expressions are not supported with initial expression part of cluster properties.')];\n        }\n    }\n\n    return [];\n}\n\nexport function disallowedFilterParameters(e: Expression, options: any): Array<ValidationError> {\n    const disallowedParameters = new Set([\n        'zoom',\n        'feature-state',\n        'pitch',\n        'distance-from-center'\n    ]);\n\n    if (options.valueSpec && options.valueSpec.expression) {\n        for (const param of options.valueSpec.expression.parameters) {\n            disallowedParameters.delete(param);\n        }\n    }\n\n    if (disallowedParameters.size === 0) {\n        return [];\n    }\n    const errors = [];\n\n    if (e instanceof CompoundExpression) {\n        if (disallowedParameters.has(e.name)) {\n            return [new ValidationError(options.key, options.value, `[\"${e.name}\"] expression is not supported in a filter for a ${options.object.type} layer with id: ${options.object.id}`)];\n        }\n    }\n    e.eachChild((arg) => {\n        errors.push(...disallowedFilterParameters(arg, options));\n    });\n\n    return errors;\n}\n","// @flow\n\nimport getType from '../util/get_type.js';\nimport ValidationError from '../error/validation_error.js';\n\nimport type {ValidationOptions} from './validate.js';\n\nexport default function validateBoolean(options: ValidationOptions): Array<ValidationError> {\n    const value = options.value;\n    const key = options.key;\n    const type = getType(value);\n\n    if (type !== 'boolean') {\n        return [new ValidationError(key, value, `boolean expected, ${type} found`)];\n    }\n\n    return [];\n}\n","// @flow\n\nimport ValidationError from
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'../error/validation_error.js';\nimport getType from '../util/get_type.js';\nimport {parseCSSColor} from 'csscolorparser';\n\nimport type {ValidationOptions} from './validate.js';\n\nexport default function validateColor(options: ValidationOptions): Array<ValidationError> {\n const key = options.key;\n const value = options.value;\n const type = getType(value);\n\n if (type !== 'string') {\n return [new ValidationError(key, value, `color expected, ${type} found`)];\n }\n\n if (parseCSSColor(value) === null) {\n return [new ValidationError(key, value, `color expected, \"${value}\" found`)];\n }\n\n return [];\n}\n","// @flow\n\nimport ValidationError from '../error/validation_error.js';\nimport {unbundle} from '../util/unbundle_jsonlint.js';\n\nimport type {ValidationOptions} from './validate.js';\n\nexport default function validateEnum(options: ValidationOptions): Array<ValidationError> {\n const key = options.key;\n const value = options.value;\n const valueSpec = options.valueSpec;\n const errors = [];\n\n if (Array.isArray(valueSpec.values)) { // <=v7\n if (valueSpec.values.indexOf(unbundle(value)) === -1) {\n errors.push(new ValidationError(key, value, `expected one of [${valueSpec.values.join(', ')}], ${JSON.stringify(value)} found`));\n }\n } else { // >=v8\n if (Object.keys(valueSpec.values).indexOf(unbundle(value)) === -1) {\n errors.push(new ValidationError(key, value, `expected one of [${Object.keys(valueSpec.values).join(', ')}], ${JSON.stringify(value)} found`));\n }\n }\n return errors;\n}\n","// @flow\n\nimport ValidationError from '../error/validation_error.js';\nimport validateExpression from './validate_expression.js';\nimport validateEnum from './validate_enum.js';\nimport getType from '../util/get_type.js';\nimport {unbundle, deepUnbundle} from '../util/unbundle_jsonlint.js';\nimport extend from '../util/extend.js';\nimport {isExpressionFilter} from '../feature_filter/index.js';\n\nimport type {ValidationOptions} from './validate.js';\n\ntype Options = ValidationOptions & {\n layerType: string;\n}\n\nexport default function validateFilter(options: Options): Array<ValidationError> {\n if (isExpressionFilter(deepUnbundle(options.value))) {\n // We default to a layerType of `fill` because that points to a non-dynamic filter definition within the style-spec.\n const layerType = options.layerType || 'fill';\n\n return validateExpression(extend({}, options, {\n expressionContext: 'filter',\n valueSpec: options.styleSpec[`filter_${layerType}`]\n }));\n } else {\n return validateNonExpressionFilter(options);\n }\n}\n\nfunction validateNonExpressionFilter(options) {\n const value = options.value;\n const key = options.key;\n\n if (getType(value) !== 'array') {\n return [new ValidationError(key, value, `array expected, ${getType(value)} found`)];\n }\n\n const styleSpec = options.styleSpec;\n let type;\n\n let errors = [];\n\n if (value.length < 1) {\n return [new ValidationError(key, value, 'filter array must have at least 1 element')];\n }\n\n errors = errors.concat(validateEnum({\n key: `${key}[0]`,\n value: value[0],\n valueSpec: styleSpec.filter_operator,\n style: options.style,\n styleSpec: options.styleSpec\n }));\n\n switch (unbundle(value[0])) {\n case '<':\n case '<=':\n case '>':\n case '>=':\n if (value.length >= 2 && unbundle(value[1]) === '$type') {\n errors.push(new ValidationError(key, value, `\"$type\" cannot be use with operator \"${value[0]}\"`));\n }\n /* falls through */\n case '==':\n case '!=':\n if (value.length !== 3) {\n errors.push(new ValidationError(key, value, `filter array for operator \"${value[0]}\" must have 3 elements`));\n }\n /* falls through */\n case 'in':\n case '!in':\n if (value.length >= 2) {\n type = getType(value[1]);\n if (type !== 'string') {\n errors.push(new ValidationError(`${key}[1]`, value[1], `string expected, ${type} found`));\n }\n }\n for (let i = 2; i < value.length; i++) {\n type = getType(value[i]);\n if (unbundle(value[1]) === '$type') {\n errors = errors.concat(validateEnum({\n key: `${key}[${i}]`,\n value: value[i],\n valueSpec: styleSpec.geometry_type,\n style: options.style,\n styleSpec: options.styleSpec\n }));\n } else if (type !== 'string' && type !== 'number' && type !== 'boolean') {\n errors.push(new ValidationError(`${key}[${i}]`, value[i], `string, number, or boolean expected, ${type} found`));\n }\n }\n break;\n\n case 'any':\n case 'all':\n case 'none':\n for (let i = 1; i < value.length; i++) {\n errors = errors.concat(validateNonExpressionFilter({\n key: `${key}[${i}]`,\n value: value[i],\n style: options.style,\n styleSpec: options.styleSpec\n }));\n }\n break;\n\n case 'has':\n case '!has':\n type = getType(value[1]);\n if (value.length !== 2) {\n errors.push(new ValidationError(key, value, `filter array for \"${value[0]}\" operator must have 2 elements`));\n

} else if (type !== 'string') {\n errors.push(new ValidationError(`${key}[1]`, value[1], `string expected, ${type} found`));\n }\n break;\n case 'within':\n type = getType(value[1]);\n if (value.length !== 2) {\n errors.push(new ValidationError(key, value, `filter array for \"${value[0]}\" operator must have 2 elements`));\n } else if (type !== 'object') {\n errors.push(new ValidationError(`${key}[1]`, value[1], `object expected, ${type} found`));\n }\n break;\n }\n return errors;\n}\n","// @flow\n\nimport validate from './validate.js';\nimport ValidationError from '../error/validation_error.js';\nimport getType from '../util/get_type.js';\nimport {isFunction} from '../function/index.js';\nimport {unbundle, deepUnbundle} from '../util/unbundle_jsonlint.js';\nimport {supportsPropertyExpression} from '../util/properties.js';\n\nimport type {ValidationOptions} from './validate.js';\n\nexport type PropertyValidationOptions = ValidationOptions & {\n objectKey: string;\n layerType: string;\n}\n\nexport default function validateProperty(options: PropertyValidationOptions, propertyType: string): Array<ValidationError> {\n const key = options.key;\n const style = options.style;\n const styleSpec = options.styleSpec;\n const value = options.value;\n const propertyKey = options.objectKey;\n const layerSpec = styleSpec[`${propertyType}_${options.layerType}`];\n\n if (!layerSpec) return [];\n\n const transitionMatch = propertyKey.match(/^(.*)-transition$/);\n if (propertyType === 'paint' && transitionMatch && layerSpec[transitionMatch[1]] && layerSpec[transitionMatch[1]].transition) {\n return validate({\n key,\n value,\n valueSpec: styleSpec.transition,\n style,\n styleSpec\n });\n }\n\n const valueSpec = options.valueSpec || layerSpec[propertyKey];\n if (!valueSpec) {\n return [new ValidationError(key, value, `unknown property \"${propertyKey}\"`)];\n }\n\n let tokenMatch;\n if (getType(value) === 'string' && supportsPropertyExpression(valueSpec) && !valueSpec.tokens && (tokenMatch = /^{([^}]+)}$/.exec(value))) {\n return [new ValidationError(\n key, value,\n `\"${propertyKey}\" does not support interpolation syntax\\n` +\n `Use an identity property function instead: \\`{ \"type\": \"identity\", \"property\": ${JSON.stringify(tokenMatch[1])} }\\`.`)];\n }\n\n const errors = [];\n\n if (options.layerType === 'symbol') {\n if (propertyKey === 'text-field' && style && !style.glyphs) {\n errors.push(new ValidationError(key, value, 'use of \"text-field\" requires a style \"glyphs\" property'));\n }\n if (propertyKey === 'text-font' && isFunction(deepUnbundle(value)) && unbundle(value.type) === 'identity') {\n errors.push(new ValidationError(key, value, '\"text-font\" does not support identity functions'));\n }\n }\n\n return errors.concat(validate({\n key: options.key,\n value,\n valueSpec,\n style,\n styleSpec,\n expressionContext: 'property',\n propertyType,\n propertyKey\n }));\n}\n","// @flow\n\nimport validateProperty from './validate_property.js';\n\nimport type ValidationError from '../error/validation_error.js';\nimport type {PropertyValidationOptions} from './validate_property.js';\n\nexport default function validatePaintProperty(options: PropertyValidationOptions): Array<ValidationError> {\n return validateProperty(options, 'paint');\n}\n","// @flow\n\nimport validateProperty from './validate_property.js';\n\nimport type ValidationError from '../error/validation_error.js';\nimport type {PropertyValidationOptions} from './validate_property.js';\n\nexport default function validateLayoutProperty(options: PropertyValidationOptions): Array<ValidationError> {\n return validateProperty(options, 'layout');\n}\n","// @flow\n\nimport ValidationError from '../error/validation_error.js';\nimport {unbundle} from '../util/unbundle_jsonlint.js';\nimport validateObject from './validate_object.js';\nimport validateFilter from './validate_filter.js';\nimport validatePaintProperty from './validate_paint_property.js';\nimport validateLayoutProperty from './validate_layout_property.js';\nimport validateSpec from './validate.js';\nimport extend from '../util/extend.js';\n\nimport type {ValidationOptions} from './validate.js';\nimport type {LayerSpecification} from '../types.js';\n\ntype Options = ValidationOptions & {\n value: LayerSpecification;\n arrayIndex: number;\n}\n\nexport default function validateLayer(options: Options): Array<ValidationError> {\n let errors = [];\n\n const layer = options.value;\n const key = options.key;\n const style = options.style;\n const styleSpec = options.styleSpec;\n\n if (!layer.type && !layer.ref) {\n errors.push(new ValidationError(key, layer, 'either \"type\" or \"ref\" is required'));\n }\n let type = unbundle(layer.type);\n const ref = unbundle(layer.ref);\n\n if (layer.id) {\n const layerId = unbundle(layer.id);\n for (let i = 0; i < options.arrayIndex; i++) {\n const otherLayer = style.layers[i];\n if (unbundle(otherLayer.id) === layerId) {\n // $FlowFixMe[prop-missing] - id.__line__ is added

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dynamically during the readStyle step\n                errors.push(new ValidationError(key, layer.id, `duplicate layer id \"${layer.id}\", previously used at line ${otherLayer.id.__line__}`));\n            }\n        }\n    }\n\n    if ('ref' in layer) {\n        ['type', 'source', 'source-layer', 'filter', 'layout'].forEach((p) => {\n            if (p in layer) {\n                errors.push(new ValidationError(key, layer[p], `\"${p}\" is prohibited for ref layers`));\n            }\n        });\n\n        let parent;\n\n        style.layers.forEach((layer) => {\n            if (unbundle(layer.id) === ref) parent = layer;\n        });\n\n        if (!parent) {\n            if (typeof ref === 'string')\n                errors.push(new ValidationError(key, layer.ref, `ref layer \"${ref}\" not found`));\n        } else if (parent.ref) {\n            errors.push(new ValidationError(key, layer.ref, 'ref cannot reference another ref layer'));\n        } else {\n            type = unbundle(parent.type);\n        }\n    } else if (!(type === 'background' || type === 'sky')) {\n        if (!layer.source) {\n            errors.push(new ValidationError(key, layer, 'missing required property \"source\"'));\n        } else {\n            const source = style.sources && style.sources[layer.source];\n            const sourceType = source && unbundle(source.type);\n            if (!source) {\n                errors.push(new ValidationError(key, layer.source, `source \"${layer.source}\" not found`));\n            } else if (sourceType === 'vector' && type === 'raster') {\n                errors.push(new ValidationError(key, layer.source, `layer \"${layer.id}\" requires a raster source`));\n            } else if (sourceType === 'raster' && type !== 'raster') {\n                errors.push(new ValidationError(key, layer.source, `layer \"${layer.id}\" requires a vector source`));\n            } else if (sourceType === 'vector' && !layer['source-layer']) {\n                errors.push(new ValidationError(key, layer, `layer \"${layer.id}\" must specify a \"source-layer\"`));\n            } else if (sourceType === 'raster-dem' && type !== 'hillshade') {\n                errors.push(new ValidationError(key, layer.source, 'raster-dem source can only be used with layer type \\'hillshade\\'.'));\n            } else if (type === 'line' && layer.paint && (layer.paint['line-gradient'] || layer.paint['line-trim-offset']) &&\n                (sourceType !== 'geojson' || !source.lineMetrics)) {\n                errors.push(new ValidationError(key, layer, `layer \"${layer.id}\" specifies a line-gradient, which requires a GeoJSON source with \\`lineMetrics\\` enabled.`));\n            }\n        }\n    }\n\n    errors = errors.concat(validateObject({\n        key,\n        value: layer,\n        valueSpec: styleSpec.layer,\n        style: options.style,\n        styleSpec: options.styleSpec,\n        objectElementValidators: {\n            '*'() {\n                return [];\n            },\n            // We don't want to enforce the spec's `\"requires\": true` for backward compatibility with refs;\n            // the actual requirement is validated above. See https://github.com/mapbox/mapbox-gl-js/issues/5772.\n            type() {\n                return validateSpec({\n                    key: `${key}.type`,\n                    value: layer.type,\n                    valueSpec: styleSpec.layer.type,\n                    style: options.style,\n                    styleSpec: options.styleSpec,\n                    object: layer,\n                    objectKey: 'type'\n                });\n            },\n            filter(options) {\n                return validateFilter(extend({layerType: type}, options));\n            },\n            layout(options) {\n                return validateObject({\n                    layer,\n                    key: options.key,\n                    value: options.value,\n                    valueSpec: {},\n                    style: options.style,\n                    styleSpec: options.styleSpec,\n                    objectElementValidators: {\n                        '*'(options) {\n                            return validateLayoutProperty(extend({layerType: type}, options));\n                        }\n                    }\n                });\n            },\n            paint(options) {\n                return validateObject({\n                    layer,\n                    key: options.key,\n                    value: options.value,\n                    valueSpec: {},\n                    style: options.style,\n                    styleSpec: options.styleSpec,\n                    objectElementValidators: {\n                        '*'(options) {\n                            return validatePaintProperty(extend({layerType: type}, options));\n                        }\n                    }\n                });\n            }\n        }\n    }));\n\n    return errors;\n}\n","// @flow\n\nimport getType from '../util/get_type.js';\nimport ValidationError from '../error/validation_error.js';\n\nimport type {ValidationOptions} from './validate.js';\n\nexport default function validateString(options: $Shape<ValidationOptions>): Array<ValidationError> {\n    const value = options.value;\n    const key = options.key;\n    const type = getType(value);\n\n    if (type !== 'string') {\n        return [new ValidationError(key, value, `string expected, ${type} found`)];\n    }\n\n    return [];\n}\n","// @flow\n\nimport ValidationError from '../error/validation_error.js';\nimport {unbundle} from '../util/unbundle_jsonlint.js';\nimport validateObject from './validate_object.js';\nimport validateEnum from './validate_enum.js';\nimport validateExpression from './validate_expression.js';\nimport validateString from './validate_string.js';\nimport getType from '../util/get_type.js';\n\nimport type {ValidationOptions} from './validate.js';\n\nconst objectElementValidators = {\n
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promoteId: validatePromoteId\n};\n\nexport default function validateSource(options: ValidationOptions): Array<ValidationError> {\n const value = options.value;\n const key = options.key;\n const styleSpec = options.styleSpec;\n const style = options.style;\n\n if (!value.type) {\n return [new ValidationError(key, value, '\"type\" is required')];\n }\n\n const type = unbundle(value.type);\n let errors;\n\n switch (type) {\n case 'vector':\n case 'raster':\n case 'raster-dem':\n errors = validateObject({\n key,\n value,\n valueSpec: styleSpec[`source_${type.replace('-', '_')}`],\n style: options.style,\n styleSpec,\n objectElementValidators\n });\n return errors;\n\n case 'geojson':\n errors = validateObject({\n key,\n value,\n valueSpec: styleSpec.source_geojson,\n style,\n styleSpec,\n objectElementValidators\n });\n if (value.cluster) {\n for (const prop in value.clusterProperties) {\n const [operator, mapExpr] = value.clusterProperties[prop];\n const reduceExpr = typeof operator === 'string' ? [operator, ['accumulated'], ['get', prop]] : operator;\n\n errors.push(...validateExpression({\n key: `${key}.${prop}.map`,\n value: mapExpr,\n expressionContext: 'cluster-map'\n }));\n errors.push(...validateExpression({\n key: `${key}.${prop}.reduce`,\n value: reduceExpr,\n expressionContext: 'cluster-reduce'\n }));\n }\n }\n return errors;\n\n case 'video':\n return validateObject({\n key,\n value,\n valueSpec: styleSpec.source_video,\n style,\n styleSpec\n });\n\n case 'image':\n return validateObject({\n key,\n value,\n valueSpec: styleSpec.source_image,\n style,\n styleSpec\n });\n\n case 'canvas':\n return [new ValidationError(key, null, `Please use runtime APIs to add canvas sources, rather than including them in stylesheets.`, 'source.canvas')];\n\n default:\n return validateEnum({\n key: `${key}.type`,\n value: value.type,\n valueSpec: {values: getSourceTypeValues(styleSpec)},\n style,\n styleSpec\n });\n }\n}\n\nfunction getSourceTypeValues(styleSpec) {\n return styleSpec.source.reduce((memo, source) => {\n const sourceType = styleSpec[source];\n if (sourceType.type.type === 'enum') {\n memo = memo.concat(Object.keys(sourceType.type.values));\n }\n return memo;\n }, []);\n}\n\nfunction validatePromoteId({key, value}) {\n if (getType(value) === 'string') {\n return validateString({key, value});\n } else {\n const errors = [];\n for (const prop in value) {\n errors.push(...validateString({key: `${key}.${prop}`, value: value[prop]}));\n }\n return errors;\n }\n}\n","// @flow\n\nimport ValidationError from '../error/validation_error.js';\nimport getType from '../util/get_type.js';\nimport validate from './validate.js';\n\nimport type {ValidationOptions} from './validate.js';\n\nexport default function validateLight(options: ValidationOptions): Array<ValidationError> {\n const light = options.value;\n const styleSpec = options.styleSpec;\n const lightSpec = styleSpec.light;\n const style = options.style;\n\n let errors = [];\n\n const rootType = getType(light);\n if (light === undefined) {\n return errors;\n } else if (rootType !== 'object') {\n errors = errors.concat([new ValidationError('light', light, `object expected, ${rootType} found`)]);\n return errors;\n }\n\n for (const key in light) {\n const transitionMatch = key.match(/^(.*)-transition$/);\n\n if (transitionMatch && lightSpec[transitionMatch[1]] && lightSpec[transitionMatch[1]].transition) {\n errors = errors.concat(validate({\n key,\n value: light[key],\n valueSpec: styleSpec.transition,\n style,\n styleSpec\n }));\n } else if (lightSpec[key]) {\n errors = errors.concat(validate({\n key,\n value: light[key],\n valueSpec: lightSpec[key],\n style,\n styleSpec\n }));\n } else {\n errors = errors.concat([new ValidationError(key, light[key], `unknown property \"${key}\"`)]);\n }\n }\n\n return errors;\n}\n","// @flow\n\nimport ValidationError from '../error/validation_error.js';\nimport validate from './validate.js';\nimport getType from '../util/get_type.js';\nimport {unbundle} from '../util/unbundle_jsonlint.js';\n\nimport type {ValidationOptions} from './validate.js';\n\nexport default function validateTerrain(options: ValidationOptions): Array<ValidationError> {\n const terrain = options.value;\n const key = options.key;\n const style = options.style;\n const styleSpec = options.styleSpec;\n const terrainSpec = styleSpec.terrain;\n let errors = [];\n\n const rootType = getType(terrain);\n if (terrain === undefined) {\n return errors;\n } else if (rootType !== 'object') {\n errors = errors.concat([new ValidationError('terrain', terrain, `object expected, ${rootType} found`)]);\n return errors;\n }\n\n for (const key in terrain) {\n

const transitionMatch = key.match(/^(.*)-transition$/);\n\n if (transitionMatch && terrainSpec[transitionMatch[1]] && terrainSpec[transitionMatch[1]].transition) {\n errors = errors.concat(validate({\n key,\n value: terrain[key],\n valueSpec: styleSpec.transition,\n style,\n styleSpec\n }));\n } else if (terrainSpec[key]) {\n errors = errors.concat(validate({\n key,\n value: terrain[key],\n valueSpec: terrainSpec[key],\n style,\n styleSpec\n }));\n } else {\n errors = errors.concat([new ValidationError(key, terrain[key], `unknown property \"${key}\"`)]);\n }\n }\n\n if (!terrain.source) {\n errors.push(new ValidationError(key, terrain, `terrain is missing required property \"source\"`));\n } else {\n const source = style.sources && style.sources[terrain.source];\n const sourceType = source && unbundle(source.type);\n if (!source) {\n errors.push(new ValidationError(key, terrain.source, `source \"${terrain.source}\" not found`));\n } else if (sourceType !== 'raster-dem') {\n errors.push(new ValidationError(key, terrain.source, `terrain cannot be used with a source of type ${String(sourceType)}, it only be used with a \"raster-dem\" source type`));\n }\n }\n\n return errors;\n}\n","// @flow\n\nimport ValidationError from '../error/validation_error.js';\nimport validate from './validate.js';\nimport getType from '../util/get_type.js';\n\nimport type {ValidationOptions} from './validate.js';\n\nexport default function validateFog(options: ValidationOptions): Array<ValidationError> {\n const fog = options.value;\n const style = options.style;\n const styleSpec = options.styleSpec;\n const fogSpec = styleSpec.fog;\n let errors = [];\n\n const rootType = getType(fog);\n if (fog === undefined) {\n return errors;\n } else if (rootType !== 'object') {\n errors = errors.concat([new ValidationError('fog', fog, `object expected, ${rootType} found`)]);\n return errors;\n }\n\n for (const key in fog) {\n const transitionMatch = key.match(/^(.*)-transition$/);\n\n if (transitionMatch && fogSpec[transitionMatch[1]] && fogSpec[transitionMatch[1]].transition) {\n errors = errors.concat(validate({\n key,\n value: fog[key],\n valueSpec: styleSpec.transition,\n style,\n styleSpec\n }));\n } else if (fogSpec[key]) {\n errors = errors.concat(validate({\n key,\n value: fog[key],\n valueSpec: fogSpec[key],\n style,\n styleSpec\n }));\n } else {\n errors = errors.concat([new ValidationError(key, fog[key], `unknown property \"${key}\"`)]);\n }\n }\n\n return errors;\n}\n","// @flow\n\nimport validateExpression from './validate_expression.js';\nimport validateString from './validate_string.js';\n\nimport type {ValidationOptions} from './validate.js';\nimport type ValidationError from '../error/validation_error.js';\n\nexport default function validateFormatted(options: ValidationOptions): Array<ValidationError> {\n if (validateString(options).length === 0) {\n return [];\n }\n\n return validateExpression(options);\n}\n","// @flow\n\nimport validateExpression from './validate_expression.js';\nimport validateString from './validate_string.js';\n\nimport type {ValidationOptions} from './validate.js';\nimport type ValidationError from '../error/validation_error.js';\n\nexport default function validateImage(options: ValidationOptions): Array<ValidationError> {\n if (validateString(options).length === 0) {\n return [];\n }\n\n return validateExpression(options);\n}\n","// @flow\n\nimport ValidationError from '../error/validation_error.js';\nimport getType from '../util/get_type.js';\nimport validate from './validate.js';\n\nimport type {ValidationOptions} from './validate.js';\n\nexport default function validateProjection(options: ValidationOptions): Array<ValidationError> {\n const projection = options.value;\n const styleSpec = options.styleSpec;\n const projectionSpec = styleSpec.projection;\n const style = options.style;\n\n let errors = [];\n\n const rootType = getType(projection);\n\n if (rootType === 'object') {\n for (const key in projection) {\n errors = errors.concat(validate({\n key,\n value: projection[key],\n valueSpec: projectionSpec[key],\n style,\n styleSpec\n }));\n }\n } else if (rootType !== 'string') {\n errors = errors.concat([new ValidationError('projection', projection, `object or string expected, ${rootType} found`)]);\n }\n\n return errors;\n}\n","// @flow\n\nimport extend from '../util/extend.js';\nimport {unbundle, deepUnbundle} from '../util/unbundle_jsonlint.js';\nimport {isExpression} from '../expression/index.js';\nimport {isFunction} from '../function/index.js';\n\nimport validateFunction from './validate_function.js';\nimport validateExpression from './validate_expression.js';\nimport validateObject from './validate_object.js';\nimport validateArray from './validate_array.js';\nimport validateBoolean from './validate_boolean.js';\nimport

validateNumber from './validate_number.js';\nimport validateColor from './validate_color.js';\nimport validateEnum from './validate_enum.js';\nimport validateFilter from './validate_filter.js';\nimport validateLayer from './validate_layer.js';\nimport validateSource from './validate_source.js';\nimport validateLight from './validate_light.js';\nimport validateTerrain from './validate_terrain.js';\nimport validateFog from './validate_fog.js';\nimport validateString from './validate_string.js';\nimport validateFormatted from './validate_formatted.js';\nimport validateImage from './validate_image.js';\nimport validateProjection from './validate_projection.js';\n\nimport type {StyleReference} from '../reference/latest.js';\nimport type {StyleSpecification} from '../types.js';\nimport type ValidationError from '../error/validation_error.js';\n\nconst VALIDATORS = {\n '*'() {\n return [];\n },\n 'array': validateArray,\n 'boolean': validateBoolean,\n 'number': validateNumber,\n 'color': validateColor,\n 'enum': validateEnum,\n 'filter': validateFilter,\n 'function': validateFunction,\n 'layer': validateLayer,\n 'object': validateObject,\n 'source': validateSource,\n 'light': validateLight,\n 'terrain': validateTerrain,\n 'fog': validateFog,\n 'string': validateString,\n 'formatted': validateFormatted,\n 'resolvedImage': validateImage,\n 'projection': validateProjection\n};\n\n// Main recursive validation function. Tracks:\n//\n// - key: string representing location of validation in style tree. Used only\n// for more informative error reporting.\n// - value: current value from style being evaluated. May be anything from a\n// high level object that needs to be descended into deeper or a simple\n// scalar value.\n// - valueSpec: current spec being evaluated. Tracks value.\n// - styleSpec: current full spec being evaluated.\nexport type ValidationOptions = {\n key: string;\n value: Object;\n valueSpec: Object;\n style: $Shape<StyleSpecification>;\n styleSpec: StyleReference;\n}\n\nexport default function validate(options: ValidationOptions): Array<ValidationError> {\n const value = options.value;\n const valueSpec = options.valueSpec;\n const styleSpec = options.styleSpec;\n\n if (valueSpec.expression && isFunction(unbundle(value))) {\n return validateFunction(options);\n\n } else if (valueSpec.expression && isExpression(deepUnbundle(value))) {\n return validateExpression(options);\n\n } else if (valueSpec.type && VALIDATORS[valueSpec.type]) {\n return VALIDATORS[valueSpec.type](options);\n\n } else {\n const valid = validateObject(extend({}, options, {\n valueSpec: valueSpec.type ? styleSpec[valueSpec.type] : valueSpec\n }));\n return valid;\n }\n}\n","// @flow\n\nimport ValidationError from '../error/validation_error.js';\nimport validateString from './validate_string.js';\n\nimport type {ValidationOptions} from './validate.js';\n\nexport default function(options: ValidationOptions): Array<ValidationError> {\n const value = options.value;\n const key = options.key;\n\n const errors = validateString(options);\n if (errors.length) return errors;\n\n if (value.indexOf('{fontstack}') === -1) {\n errors.push(new ValidationError(key, value, '\"glyphs\" url must include a \"{fontstack}\" token'));\n }\n\n if (value.indexOf('{range}') === -1) {\n errors.push(new ValidationError(key, value, '\"glyphs\" url must include a \"{range}\" token'));\n }\n\n return errors;\n}\n","// @flow\nimport validate from './validate/validate.js';\nimport latestStyleSpec from './reference/latest.js';\nimport validateGlyphsURL from './validate/validate_glyphs_url.js';\n\nimport _validateSource from './validate/validate_source.js';\nimport _validateLight from './validate/validate_light.js';\nimport _validateTerrain from './validate/validate_terrain.js';\nimport _validateFog from './validate/validate_fog.js';\nimport _validateLayer from './validate/validate_layer.js';\nimport _validateFilter from './validate/validate_filter.js';\nimport _validatePaintProperty from './validate/validate_paint_property.js';\nimport _validateLayoutProperty from './validate/validate_layout_property.js';\n\nimport type {StyleSpecification} from './types.js';\n\nexport type ValidationError = {\n message: string;\n identifier?: ?string;\n line?: ?number;\n};\nexport type ValidationErrors = $ReadOnlyArray<ValidationError>;\nexport type Validator = (Object) => ValidationErrors;\n\n/**\n * Validate a Mapbox GL style against the style specification. This entrypoint,\n * `mapbox-gl-style-spec/lib/validate_style.min`, is designed to produce as\n * small a browserify bundle as possible by omitting unnecessary functionality\n * and legacy style specifications.\n *\n * @private\n * @param {Object} style The style to be validated.\n * @param {Object} [styleSpec] The style specification to validate against.\n * If omitted, the latest style spec is used.\n * @returns {Array<ValidationError>}\n * @example\n * var validate = require('mapbox-gl-style-spec/lib/validate_style.min');\n * var errors = validate(style);\n */\nexport function validateStyle(style: StyleSpecification, styleSpec: Object = latestStyleSpec): ValidationErrors {\n\n const errors =

validate({\n key: '',\n value: style,\n valueSpec: styleSpec.$root,\n styleSpec,\n style,\n objectElementValidators: {\n glyphs: validateGlyphsURL,\n '*': () => []\n }\n });\n return sortErrors(errors);\n}\n\nexport const validateSource: Validator = opts =>
sortErrors(_validateSource(opts));\nexport const validateLight: Validator = opts =>
sortErrors(_validateLight(opts));\nexport const validateTerrain: Validator = opts =>
sortErrors(_validateTerrain(opts));\nexport const validateFog: Validator = opts =>
sortErrors(_validateFog(opts));\nexport const validateLayer: Validator = opts =>
sortErrors(_validateLayer(opts));\nexport const validateFilter: Validator = opts =>
sortErrors(_validateFilter(opts));\nexport const validatePaintProperty: Validator = opts =>
sortErrors(_validatePaintProperty(opts));\nexport const validateLayoutProperty: Validator = opts =>
sortErrors(_validateLayoutProperty(opts));\n\nfunction sortErrors(errors) {\n return errors.slice().sort((a, b) => a.line && b.line ? a.line - b.line : 0);\n}\n","/* parser generated by jison 0.4.15 */\n/*\n Returns a Parser object of the following structure:\n\n Parser: {\n yy: {}\n }\n\n Parser.prototype: {\n yy: {},\n trace: function(),\n symbols_: {associative list: name ==> number},\n terminals_: {associative list: number ==> name},\n productions_: [...],\n performAction: function anonymous(yytext, yyleng, yylineno, yy, yystate, $$, _$),\n table: [...],\n defaultActions: {...},\n parseError: function(str, hash),\n parse: function(input),\n\n lexer: {\n EOF: 1,\n parseError: function(str, hash),\n setInput: function(input),\n input: function(),\n unput: function(str),\n more: function(),\n less: function(n),\n pastInput: function(),\n upcomingInput: function(),\n showPosition: function(),\n test_match: function(regex_match_array, rule_index),\n next: function(),\n lex: function(),\n begin: function(condition),\n popState: function(),\n _currentRules: function(),\n topState: function(),\n pushState: function(condition),\n\n options: {\n ranges: boolean (optional: true ==> token location info will include a .range[] member)\n flex: boolean (optional: true ==> flex-like lexing behaviour where the rules are tested exhaustively to find the longest match)\n backtrack_lexer: boolean (optional: true ==> lexer regexes are tested in order and for each matching regex the action code is invoked; the lexer terminates the scan when a token is returned by the action code)\n },\n\n performAction: function(yy, yy_, $avoiding_name_collisions, YY_START),\n rules: [...],\n conditions: {associative list: name ==> set},\n }\n }\n\n\n token location info (@$, _$, etc.): {\n first_line: n,\n last_line: n,\n first_column: n,\n last_column: n,\n range: [start_number, end_number] (where the numbers are indexes into the input string, regular zero-based)\n }\n\n\n the parseError function receives a 'hash' object with these members for lexer and parser errors: {\n text: (matched text)\n token: (the produced terminal token, if any)\n line: (yylineno)\n }\n while parser (grammar) errors will also provide these members, i.e. parser errors deliver a superset of attributes: {\n loc: (yylloc)\n expected: (string describing the set of expected tokens)\n recoverable: (boolean: TRUE when the parser has a error recovery rule available for this particular error)\n }\n*/\nvar parser = (function(){\nvar o=function(k,v,o,l){for(o=o||{},l=k.length;l--;o[k[l]]=v);return o},$V0=[1,12],$V1=[1,13],$V2=[1,9],$V3=[1,10],$V4=[1,11],$V5=[1,14],$V6=[1,15],$V7=[14,18,22,24],$V8=[18,22],$V9=[22,24];\nvar parser = {trace: function trace() { },\nyy: {},\nsymbols_: {\"error\":2,\"JSONString\":3,\"STRING\":4,\"JSONNumber\":5,\"NUMBER\":6,\"JSONNullLiteral\":7,\"NULL\":8,\"JSONBooleanLiteral\":9,\"TRUE\":10,\"FALSE\":11,\"JSONText\":12,\"JSONValue\":13,\"EOF\":14,\"JSONObject\":15,\"JSONArray\":16,\"{\":17,\"}\":18,\"JSONMemberList\":19,\"JSONMember\":20,\":\":21,\",\":22,\"[\":23,\"]\":24,\"JSONElementList\":25,\"$accept\":0,\"$end\":1},\nterminals_: {2:\"error\",4:\"STRING\",6:\"NUMBER\",8:\"NULL\",10:\"TRUE\",11:\"FALSE\",14:\"EOF\",17:\"{\",18:\"}\",21:\":\",22:\",\",23:\"[\",24:\"]\"},\nproductions_: [0,[3,1],[5,1],[7,1],[9,1],[9,1],[12,2],[13,1],[13,1],[13,1],[13,1],[13,1],[13,1],[15,2],[15,3],[20,3],[19,1],[19,3],[16,2],[16,3],[25,1],[25,3]],\nperformAction: function anonymous(yytext, yyleng, yylineno, yy, yystate /* action[1] */, $$ /* vstack */, _$ /* lstack */) {\n/* this == yyval */\n\nvar $0 = $$.length - 1;\nswitch (yystate) {\ncase 1:\n // replace escaped characters with actual character\n this.$ = new String(yytext.replace(/\\\\(\\\\|\")/g, \"$\"+\"1\")\n .replace(/\\\\n/g,'\\n')\n .replace(/\\\\r/g,'\\r')\n .replace(/\\\\t/g,'\\t')\n

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.replace(/\\\\v/g,'\\v')\n                .replace(/\\\\f/g,'\\f')\n                .replace(/\\\\b/g,'\\b'));\n          this.$.__line__ =
this._$.first_line;\n        \nbreak;\ncase 2:\n\n          this.$ = new Number(yytext);\n          this.$.__line__ =
this._$.first_line;\n        \nbreak;\ncase 3:\n\n          this.$ = null;\n        \nbreak;\ncase 4:\n\n          this.$ = new
Boolean(true);\n          this.$.__line__ = this._$.first_line;\n        \nbreak;\ncase 5:\n\n          this.$ = new
Boolean(false);\n          this.$.__line__ = this._$.first_line;\n        \nbreak;\ncase 6:\nreturn this.$ = $$[$0-
1];\nbreak;\ncase 13:\nthis.$ = {}; Object.defineProperty(this.$, '__line__', {\n          value: this._$.first_line,\n
enumerable: false\n        })\nbreak;\ncase 14: case 19:\nthis.$ = $$[$0-1]; Object.defineProperty(this.$, '__line__',
{\n          value: this._$.first_line,\n          enumerable: false\n        })\nbreak;\ncase 15:\nthis.$ = [$$[$0-2],
$$[$0]];\nbreak;\ncase 16:\nthis.$ = {}; this.$[$$[$0][0]] = $$[$0][1];\nbreak;\ncase 17:\nthis.$ = $$[$0-2]; $$[$0-
2][$$[$0][0]] = $$[$0][1];\nbreak;\ncase 18:\nthis.$ = []; Object.defineProperty(this.$, '__line__', {\n          value:
this._$.first_line,\n          enumerable: false\n        })\nbreak;\ncase 20:\nthis.$ = [$$[$0]];\nbreak;\ncase 21:\nthis.$
= $$[$0-2]; $$[$0-2].push($$[$0]);\nbreak;\n}\n},\ntable:
[{3:5,4:$V0,5:6,6:$V1,7:3,8:$V2,9:4,10:$V3,11:$V4,12:1,13:2,15:7,16:8,17:$V5,23:$V6},{1:[3]},{14:[1,16]},o($
V7,[2,7]),o($V7,[2,8]),o($V7,[2,9]),o($V7,[2,10]),o($V7,[2,11]),o($V7,[2,12]),o($V7,[2,3]),o($V7,[2,4]),o($V7,[2,
5]),o([14,18,21,22,24],[2,1]),o($V7,[2,2]),{3:20,4:$V0,18:[1,17],19:18,20:19},{3:5,4:$V0,5:6,6:$V1,7:3,8:$V2,9:4,
10:$V3,11:$V4,13:23,15:7,16:8,17:$V5,23:$V6,24:[1,21],25:22},{1:[2,6]},o($V7,[2,13]),{18:[1,24],22:[1,25]},o($
V8,[2,16]),{21:[1,26]},o($V7,[2,18]),{22:[1,28],24:[1,27]},o($V9,[2,20]),o($V7,[2,14]),{3:20,4:$V0,20:29},{3:5,4:
$V0,5:6,6:$V1,7:3,8:$V2,9:4,10:$V3,11:$V4,13:30,15:7,16:8,17:$V5,23:$V6},o($V7,[2,19]),{3:5,4:$V0,5:6,6:$V1
,7:3,8:$V2,9:4,10:$V3,11:$V4,13:31,15:7,16:8,17:$V5,23:$V6},o($V8,[2,17]),o($V8,[2,15]),o($V9,[2,21])],\ndefa
ultActions: {16:[2,6]},\nparseError: function parseError(str, hash) {\n    if (hash.recoverable) {\n
this.trace(str);\n    } else {\n        throw new Error(str);\n    }\n},\nparse: function parse(input) {\n    var self = this,
stack = [0], tstack = [], vstack = [null], lstack = [], table = this.table, yytext = '', yylineno = 0, yyleng = 0, recovering
= 0, TERROR = 2, EOF = 1;\n    var args = lstack.slice.call(arguments, 1);\n    var lexer =
Object.create(this.lexer);\n    var sharedState = { yy: {} };\n    for (var k in this.yy) {\n        if
(Object.prototype.hasOwnProperty.call(this.yy, k)) {\n            sharedState.yy[k] = this.yy[k];\n        }\n    }\n
lexer.setInput(input, sharedState.yy);\n    sharedState.yy.lexer = lexer;\n    sharedState.yy.parser = this;\n    if (typeof
lexer.yylloc == 'undefined') {\n        lexer.yylloc = {};\n    }\n    var yyloc = lexer.yylloc;\n    lstack.push(yyloc);\n
var ranges = lexer.options && lexer.options.ranges;\n    if (typeof sharedState.yy.parseError === 'function') {\n
this.parseError = sharedState.yy.parseError;\n    } else {\n        this.parseError =
Object.getPrototypeOf(this).parseError;\n    }\n    function popStack(n) {\n        stack.length = stack.length - 2 * n;\n
    vstack.length = vstack.length - n;\n        lstack.length = lstack.length - n;\n    }\n    _token_stack:\n        function
lex() {\n            var token;\n            token = lexer.lex() || EOF;\n            if (typeof token !== 'number') {\n
token = self.symbols_[token] || token;\n            }\n            return token;\n        }\n    var symbol, preErrorSymbol,
state, action, a, r, yyval = {}, p, len, newState, expected;\n    while (true) {\n        state = stack[stack.length - 1];\n
if (this.defaultActions[state]) {\n            action = this.defaultActions[state];\n        } else {\n            if (symbol ===
null || typeof symbol == 'undefined') {\n                symbol = lex();\n            }\n            action = table[state] &&
table[state][symbol];\n        }\n                if (typeof action === 'undefined' || !action.length || !action[0]) {\n
var errStr = '';\n                expected = [];\n                for (p in table[state]) {\n                    if (this.terminals_[p] && p
> TERROR) {\n                        expected.push('\\'' + this.terminals_[p] + '\\'');\n                    }\n                }\n
if (lexer.showPosition) {\n                    errStr = 'Parse error on line ' + (yylineno + 1) + ':\\n' + lexer.showPosition() +
'\\nExpecting ' + expected.join(', ') + ', got \\'' + (this.terminals_[symbol] || symbol) + '\\'';\n                } else {\n
    errStr = 'Parse error on line ' + (yylineno + 1) + ': Unexpected ' + (symbol == EOF ? 'end of input' : '\\'' +
(this.terminals_[symbol] || symbol) + '\\'');\n                }\n                this.parseError(errStr, {\n                    text:
lexer.match,\n                    token: this.terminals_[symbol] || symbol,\n                    line: lexer.yylineno,\n
loc: yyloc,\n                    expected: expected\n                });\n            }\n        if (action[0] instanceof Array &&
action.length > 1) {\n            throw new Error('Parse Error: multiple actions possible at state: ' + state + ', token: ' +
symbol);\n        }\n        switch (action[0]) {\n        case 1:\n            stack.push(symbol);\n
vstack.push(lexer.yytext);\n            lstack.push(lexer.yylloc);\n            stack.push(action[1]);\n            symbol =
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null;\n            if (!preErrorSymbol) {\n                yyleng = lexer.yyleng;\n                yytext = lexer.yytext;\n                yylineno = lexer.yylineno;\n                yyloc = lexer.yylloc;\n                if (recovering > 0) {\n                    recovering--;\n                }\n            } else {\n                symbol = preErrorSymbol;\n                preErrorSymbol = null;\n            }\n            break;\n        case 2:\n            len = this.productions_[action[1]][1];\n            yyval.$ = vstack[vstack.length - len];\n            yyval._$ = {\n                first_line: lstack[lstack.length - (len || 1)].first_line,\n                last_line: lstack[lstack.length - 1].last_line,\n                first_column: lstack[lstack.length - (len || 1)].first_column,\n                last_column: lstack[lstack.length - 1].last_column\n            };\n            if (ranges) {\n                yyval._$.range = [\n                    lstack[lstack.length - (len || 1)].range[0],\n                    lstack[lstack.length - 1].range[1]\n                ];\n            }\n            r = this.performAction.apply(yyval, [\n                yytext,\n                yyleng,\n                yylineno,\n                sharedState.yy,\n                action[1],\n                vstack,\n                lstack\n            ].concat(args));\n            if (typeof r !== 'undefined') {\n                return r;\n            }\n            if (len) {\n                stack = stack.slice(0, -1 * len * 2);\n                vstack = vstack.slice(0, -1 * len);\n                lstack = lstack.slice(0, -1 * len);\n            }\n            stack.push(this.productions_[action[1]][0]);\n            vstack.push(yyval.$);\n            lstack.push(yyval._$);\n            newState = table[stack[stack.length - 2]][stack[stack.length - 1]];\n            stack.push(newState);\n            break;\n        case 3:\n            return true;\n        }\n    }\n    return true;\n}};\n/* generated by jison-lex 0.3.4 */\nvar lexer = (function(){\nvar lexer = ({\n\nEOF:1,\n\nparseError:function parseError(str, hash) {\n        if (this.yy.parser) {\n            this.yy.parser.parseError(str, hash);\n        } else {\n            throw new Error(str);\n        }\n    },\n\n// resets the lexer, sets new input\nsetInput:function (input, yy) {\n        this.yy = yy || this.yy || {};\n        this._input = input;\n        this._more = this._backtrack = this.done = false;\n        this.yylineno = this.yyleng = 0;\n        this.yytext = this.matched = this.match = '';\n        this.conditionStack = ['INITIAL'];\n        this.yylloc = {\n            first_line: 1,\n            first_column: 0,\n            last_line: 1,\n            last_column: 0\n        };\n        if (this.options.ranges) {\n            this.yylloc.range = [0,0];\n        }\n        this.offset = 0;\n        return this;\n    },\n\n// consumes and returns one char from the input\ninput:function () {\n        var ch = this._input[0];\n        this.yytext += ch;\n        this.yyleng++;\n        this.offset++;\n        this.match += ch;\n        this.matched += ch;\n        var lines = ch.match(/(?:\\r\\n?|\\n).*/g);\n        if (lines) {\n            this.yylineno++;\n            this.yylloc.last_line++;\n        } else {\n            this.yylloc.last_column++;\n        }\n        if (this.options.ranges) {\n            this.yylloc.range[1]++;\n        }\n\n        this._input = this._input.slice(1);\n        return ch;\n    },\n\n// unshifts one char (or a string) into the input\nunput:function (ch) {\n        var len = ch.length;\n        var lines = ch.split(/(?:\\r\\n?|\\n)/g);\n\n        this._input = ch + this._input;\n        this.yytext = this.yytext.substr(0, this.yytext.length - len);\n        //this.yyleng -= len;\n        this.offset -= len;\n        var oldLines = this.match.split(/(?:\\r\\n?|\\n)/g);\n        this.match = this.match.substr(0, this.match.length - 1);\n        this.matched = this.matched.substr(0, this.matched.length - 1);\n\n        if (lines.length - 1) {\n            this.yylineno -= lines.length - 1;\n        }\n        var r = this.yylloc.range;\n\n        this.yylloc = {\n            first_line: this.yylloc.first_line,\n            last_line: this.yylineno + 1,\n            first_column: this.yylloc.first_column,\n            last_column: lines ?\n                (lines.length === oldLines.length ? this.yylloc.first_column : 0)\n                 + oldLines[oldLines.length - lines.length].length - lines[0].length :\n                this.yylloc.first_column - len\n        };\n\n        if (this.options.ranges) {\n            this.yylloc.range = [r[0], r[0] + this.yyleng - len];\n        }\n        this.yyleng = this.yytext.length;\n        return this;\n    },\n\n// When called from action, caches matched text and appends it on next action\nmore:function () {\n        this._more = true;\n        return this;\n    },\n\n// When called from action, signals the lexer that this rule fails to match the input, so the next matching rule (regex) should be tested instead.\nreject:function () {\n        if (this.options.backtrack_lexer) {\n            this._backtrack = true;\n        } else {\n            return this.parseError('Lexical error on line ' + (this.yylineno + 1) + '. You can only invoke reject() in the lexer when the lexer is of the backtracking persuasion (options.backtrack_lexer = true).\\n' + this.showPosition(), {\n                text: \"\",\n                token: null,\n                line: this.yylineno\n            });\n\n        }\n        return this;\n    },\n\n// retain first n characters of the match\nless:function (n) {\n        this.unput(this.match.slice(n));\n    },\n\n// displays already matched input, i.e. for error messages\npastInput:function () {\n        var past = this.matched.substr(0, this.matched.length - this.match.length);\n        return (past.length > 20 ? '...':'') + past.substr(-20).replace(/\\n/g, \"\");\n    },\n\n// displays upcoming input, i.e. for error messages\nupcomingInput:function () {\n
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var next = this.match;\n        if (next.length < 20) {\n            next += this._input.substr(0, 20-next.length);\n
}\n        return (next.substr(0,20) + (next.length > 20 ? '...' : '')).replace(/\\n/g, \"\");\n    },\n\n// displays the character
position where the lexing error occurred, i.e. for error messages\nshowPosition:function () {\n        var pre =
this.pastInput();\n        var c = new Array(pre.length + 1).join(\"-\");\n        return pre + this.upcomingInput() +
\"\\n\" + c + \"^\";\n    },\n\n// test the lexed token: return FALSE when not a match, otherwise return
token\ntest_match:function (match, indexed_rule) {\n        var token,\n            lines,\n            backup;\n\n        if
(this.options.backtrack_lexer) {\n            // save context\n            backup = {\n                yylineno: this.yylineno,\n
yylloc: {\n                    first_line: this.yylloc.first_line,\n                    last_line: this.last_line,\n
first_column: this.yylloc.first_column,\n                    last_column: this.yylloc.last_column\n                },\n
yytext: this.yytext,\n                match: this.match,\n                matches: this.matches,\n                matched:
this.matched,\n                yyleng: this.yyleng,\n                offset: this.offset,\n                _more: this._more,\n
_input: this._input,\n                yy: this.yy,\n                conditionStack: this.conditionStack.slice(0),\n                done:
this.done\n            };\n            if (this.options.ranges) {\n                backup.yylloc.range = this.yylloc.range.slice(0);\n
        }\n        }\n\n        lines = match[0].match(/(?:\\r\\n?|\\n).*/g);\n        if (lines) {\n            this.yylineno +=
lines.length;\n        }\n        this.yylloc = {\n            first_line: this.yylloc.last_line,\n            last_line: this.yylineno +
1,\n            first_column: this.yylloc.last_column,\n            last_column: lines ?\n                lines[lines.length -
1].length - lines[lines.length - 1].match(/\\r?\\n?/)[0].length :\n                this.yylloc.last_column +
match[0].length\n        };\n        this.yytext += match[0];\n        this.match += match[0];\n        this.matches =
match;\n        this.yyleng = this.yytext.length;\n        if (this.options.ranges) {\n            this.yylloc.range =
[this.offset, this.offset += this.yyleng];\n        }\n        this._more = false;\n        this._backtrack = false;\n
this._input = this._input.slice(match[0].length);\n        this.matched += match[0];\n        token =
this.performAction.call(this, this.yy, this, indexed_rule, this.conditionStack[this.conditionStack.length - 1]);\n        if
(this.done && this._input) {\n            this.done = false;\n        }\n        if (token) {\n            return token;\n        } else
if (this._backtrack) {\n            // recover context\n            for (var k in backup) {\n                this[k] = backup[k];\n
    }\n            return false; // rule action called reject() implying the next rule should be tested instead.\n        }\n
return false;\n    },\n\n// return next match in input\nnext:function () {\n        if (this.done) {\n            return
this.EOF;\n        }\n        if (!this._input) {\n            this.done = true;\n        }\n\n        var token,\n            match,\n
    tempMatch,\n            index;\n        if (!this._more) {\n            this.yytext = '';\n            this.match = '';\n        }\n
var rules = this._currentRules();\n        for (var i = 0; i < rules.length; i++) {\n            tempMatch =
this._input.match(this.rules[rules[i]]);\n            if (tempMatch && (!match || tempMatch[0].length >
match[0].length)) {\n                match = tempMatch;\n                index = i;\n                if
(this.options.backtrack_lexer) {\n                    token = this.test_match(tempMatch, rules[i]);\n                    if (token
!== false) {\n                        return token;\n                    } else if (this._backtrack) {\n                        match = false;\n
                        continue; // rule action called reject() implying a rule MISmatch.\n                    } else {\n
// else: this is a lexer rule which consumes input without producing a token (e.g. whitespace)\n                        return
false;\n                    }\n                } else if (!this.options.flex) {\n                    break;\n                }\n            }\n        }\n
    if (match) {\n            token = this.test_match(match, rules[index]);\n            if (token !== false) {\n
return token;\n            }\n            // else: this is a lexer rule which consumes input without producing a token (e.g.
whitespace)\n            return false;\n        }\n        if (this._input === \"\") {\n            return this.EOF;\n        } else {\n
            return this.parseError('Lexical error on line ' + (this.yylineno + 1) + '. Unrecognized text.\\n' +
this.showPosition(), {\n                text: \"\",\n                token: null,\n                line: this.yylineno\n            });\n
}\n    },\n\n// return next match that has a token\nlex:function lex() {\n        var r = this.next();\n        if (r) {\n
return r;\n        } else {\n            return this.lex();\n        }\n    },\n\n// activates a new lexer condition state (pushes the
new lexer condition state onto the condition stack)\nbegin:function begin(condition) {\n
this.conditionStack.push(condition);\n    },\n\n// pop the previously active lexer condition state off the condition
stack\npopState:function popState() {\n        var n = this.conditionStack.length - 1;\n        if (n > 0) {\n            return
this.conditionStack.pop();\n        } else {\n            return this.conditionStack[0];\n        }\n    },\n\n// produce the
lexer rule set which is active for the currently active lexer condition state\n_currentRules:function _currentRules()
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{\n if (this.conditionStack.length && this.conditionStack[this.conditionStack.length - 1]) {\n return this.conditions[this.conditionStack[this.conditionStack.length - 1]].rules;\n } else {\n return this.conditions[\"INITIAL\"].rules;\n }\n },\n\n// return the currently active lexer condition state; when an index argument is provided it produces the N-th previous condition state, if available\ntopState:function topState(n) {\n n = this.conditionStack.length - 1 - Math.abs(n || 0);\n if (n >= 0) {\n return this.conditionStack[n];\n } else {\n return \"INITIAL\";\n }\n },\n\n// alias for begin(condition)\npushState:function pushState(condition) {\n this.begin(condition);\n },\n\n// return the number of states currently on the stack\nstateStackSize:function stateStackSize() {\n return this.conditionStack.length;\n },\noptions: {},\nperformAction: function anonymous(yy,yy_,$avoiding_name_collisions,YY_START) {\nvar YYSTATE=YY_START;\nswitch($avoiding_name_collisions) {\ncase 0:/* skip whitespace */\nbreak;\ncase 1:return 6\nbreak;\ncase 2:yy_.yytext = yy_.yytext.substr(1,yy_.yyleng-2); return 4\nbreak;\ncase 3:return 17\nbreak;\ncase 4:return 18\nbreak;\ncase 5:return 23\nbreak;\ncase 6:return 24\nbreak;\ncase 7:return 22\nbreak;\ncase 8:return 21\nbreak;\ncase 9:return 10\nbreak;\ncase 10:return 11\nbreak;\ncase 11:return 8\nbreak;\ncase 12:return 14\nbreak;\ncase 13:return 'INVALID'\nbreak;\n}\n},\nrules: [/^(?:\\s+)/,/^(?:(-?([0-9]|[1-9][0-9]+))(\\.[0-9]+)?([eE][-+]?[0-9]+)?\\b)/,/^(?:\"(?:\\\\[\\\\\"bfnrt/]|\\\\u[a-fA-F0-9]{4}|[^\\\\\\0-\\x09\\x0a-\\x1f\"])*\")/,/^(?:\\{)/,/^(?:\\})/,/^(?:\\[)/,/^(?:\\])/,/^(?:,)/,/^(?::)/,/^(?:true\\b)/,/^(?:false\\b)/,/^(?:null\\b)/,/^(?:$)/,/^(?:.)/],\nconditions: {\"INITIAL\":{\"rules\":[0,1,2,3,4,5,6,7,8,9,10,11,12,13],\"inclusive\":true}}\n});\nreturn lexer;\n})();\nparser.lexer = lexer;\nfunction Parser () {\n this.yy = {};\n}\nParser.prototype = parser;parser.Parser = Parser;\nreturn new Parser;\n})();\n\n\nif (typeof require !== 'undefined' && typeof exports !== 'undefined') {\nexports.parser = parser;\nexports.Parser = parser.Parser;\nexports.parse = function () { return parser.parse.apply(parser, arguments); };\n}\n","import ParsingError from './error/parsing_error.js';\nimport jsonlint from '@mapbox/jsonlint-lines-primitives';\n\nexport default function readStyle(style) {\n if (style instanceof String || typeof style === 'string' || style instanceof Buffer) {\n try {\n return jsonlint.parse(style.toString());\n } catch (e) {\n throw new ParsingError(e);\n }\n }\n\n return style;\n}\n","// @flow\nimport {validateStyle as validateStyleMin} from './validate_style.min.js';\nimport {v8} from './style-spec.js';\nimport readStyle from './read_style.js';\n\nimport type {ValidationErrors} from './validate_style.min.js';\nimport type {StyleSpecification} from './types.js';\n\n/**\n * Validate a Mapbox GL style against the style specification.\n *\n * @private\n * @alias validate\n * @param {Object|String|Buffer} style The style to be validated. If a `String`\n * or `Buffer` is provided, the returned errors will contain line numbers.\n * @param {Object} [styleSpec] The style specification to validate against.\n * If omitted, the spec version is inferred from the stylesheet.\n * @returns {Array<ValidationError|ParsingError>}\n * @example\n * var validate = require('mapbox-gl-style-spec').validate;\n * var style = fs.readFileSync('./style.json', 'utf8');\n * var errors = validate(style);\n */\n\nexport default function validateStyle(style: StyleSpecification | string | Buffer, styleSpec: Object = v8): ValidationErrors {\n let s = style;\n\n try {\n s = readStyle(s);\n } catch (e) {\n return [e];\n }\n\n return validateStyleMin(s, styleSpec);\n}\n\nexport {\n validateSource as source,\n validateLight as light,\n validateLayer as layer,\n validateFilter as filter,\n validatePaintProperty as paintProperty,\n validateLayoutProperty as layoutProperty\n} from './validate_style.min.js';\n","// @flow\n\nimport {validateStyle} from './validate_style.min.js';\nimport {v8} from './style-spec.js';\nimport readStyle from './read_style.js';\nimport ValidationError from './error/validation_error.js';\nimport getType from './util/get_type.js';\n\nimport type {ValidationErrors} from './validate_style.min.js';\n\nconst SUPPORTED_SPEC_VERSION = 8;\nconst MAX_SOURCES_IN_STYLE = 15;\n\nfunction isValid(value: ?string, regex: RegExp): boolean {\n if (!value || getType(value) !== 'string') return true;\n return !!value.match(regex);\n}\n\nfunction getSourceCount(source: Object): number {\n if (source.url) {\n return source.url.split(',').length;\n } else {\n return 0;\n }\n}\n\nfunction getAllowedKeyErrors(obj: Object, keys: Array<*>, path: ?string): Array<ValidationError> {\n const allowed = new Set(keys);\n const errors = [];\n Object.keys(obj).forEach(k => {\n if (!allowed.has(k)) {\n const prop = path ? `${path}.${k}` : null;\n errors.push(new ValidationError(prop, obj[k], `Unsupported property \"${k}\"`));\n }\n });\n return errors;\n}\n\nconst acceptedSourceTypes = new

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Set([\"vector\", \"raster\", \"raster-dem\"]);\nfunction getSourceErrors(source: Object, i: number): Array<ValidationError> {\n  const errors = [];\n\n  /*\n   * Inlined sources are not supported by the Mapbox Styles API, so only\n   * \"type\", \"url\", and \"tileSize\" properties are valid\n   */\n  const sourceKeys = ['type', 'url', 'tileSize'];\n  errors.push(...getAllowedKeyErrors(source, sourceKeys, 'source'));\n\n  /*\n   * \"type\" is required and must be one of \"vector\", \"raster\", \"raster-dem\"\n   */\n  if (!acceptedSourceTypes.has(String(source.type))) {\n    errors.push(new ValidationError(`sources[${i}].type`, source.type, `Expected one of [${Array.from(acceptedSourceTypes).join(\", \")}]`));\n  }\n\n  /*\n   * \"source\" is required. Valid examples:\n   * mapbox://mapbox.abcd1234\n   * mapbox://penny.abcd1234\n   * mapbox://mapbox.abcd1234,penny.abcd1234\n   */\n  const sourceUrlPattern = /^mapbox:\\/\\/([^/]*)$/;\n  if (!source.url || !isValid(source.url, sourceUrlPattern)) {\n    errors.push(new ValidationError(`sources[${i}].url`, source.url, 'Expected a valid Mapbox tileset url'));\n  }\n\n  return errors;\n}\n\nfunction getSourcesErrors(sources: Object): Array<ValidationError> {\n  const errors = [];\n  let count = 0;\n\n  Object.keys(sources).forEach((s: string, i: number) => {\n    const sourceErrors = getSourceErrors(sources[s], i);\n\n    // If source has errors, skip counting\n    if (!sourceErrors.length) {\n      count = count + getSourceCount(sources[s]);\n    }\n\n    errors.push(...sourceErrors);\n  });\n\n  if (count > MAX_SOURCES_IN_STYLE) {\n    errors.push(new ValidationError('sources', null, `Styles must contain ${MAX_SOURCES_IN_STYLE} or fewer sources`));\n  }\n\n  return errors;\n}\n\nfunction getRootErrors(style: Object, specKeys: Array<any>): Array<ValidationError> {\n  const errors = [];\n\n  /*\n   * The following keys are optional but fully managed by the Mapbox Styles\n   * API. Values on stylesheet on POST or PATCH will be ignored: \"owner\",\n   * \"id\", \"cacheControl\", \"draft\", \"created\", \"modified\", \"protected\"\n   *\n   * The following keys are optional. The Mapbox Styles API respects value on\n   * stylesheet on PATCH, but ignores the value on POST: \"visibility\"\n   */\n  const optionalRootProperties = [\n    'owner',\n    'id',\n    'cacheControl',\n    'draft',\n    'created',\n    'modified',\n    'visibility',\n    'protected'\n  ];\n\n  const allowedKeyErrors = getAllowedKeyErrors(style, [...specKeys, ...optionalRootProperties]);\n  errors.push(...allowedKeyErrors);\n\n  if (style.version > SUPPORTED_SPEC_VERSION || style.version < SUPPORTED_SPEC_VERSION) {\n    errors.push(new ValidationError('version', style.version, `Style version must be ${SUPPORTED_SPEC_VERSION}`));\n  }\n\n  /*\n   * \"glyphs\" is optional. If present, valid examples:\n   * mapbox://fonts/penny/{fontstack}/{range}.pbf\n   * mapbox://fonts/mapbox/{fontstack}/{range}.pbf\n   */\n  const glyphUrlPattern = /^mapbox:\\/\\/fonts\\/([^/]*)\\/{fontstack}\\/{range}.pbf$/;\n  if (!isValid(style.glyphs, glyphUrlPattern)) {\n    errors.push(new ValidationError('glyphs', style.glyphs, 'Styles must reference glyphs hosted by Mapbox'));\n  }\n\n  /*\n   * \"sprite\" is optional. If present, valid examples:\n   * mapbox://sprites/penny/abcd1234\n   * mapbox://sprites/mapbox/abcd1234/draft\n   * mapbox://sprites/cyrus/abcd1234/abcd1234\n   */\n  const spriteUrlPattern = /^mapbox:\\/\\/sprites\\/([^/]*)\\/([^/]*)\\/?([^/]*)?$/;\n  if (!isValid(style.sprite, spriteUrlPattern)) {\n    errors.push(new ValidationError('sprite', style.sprite, 'Styles must reference sprites hosted by Mapbox'));\n  }\n\n  /*\n   * \"visibility\" is optional. If present, valid examples:\n   * \"private\"\n   * \"public\"\n   */\n  const visibilityPattern = /^(public|private)$/;\n  if (!isValid(style.visibility, visibilityPattern)) {\n    errors.push(new ValidationError('visibility', style.visibility, 'Style visibility must be public or private'));\n  }\n\n  if (style.protected !== undefined && getType(style.protected) !== 'boolean') {\n    errors.push(new ValidationError('protected', style.protected, 'Style protection must be true or false'));\n  }\n\n  return errors;\n}\n\n/**\n * Validate a Mapbox GL style against the style specification and check for\n * compatibility with the Mapbox Styles API.\n *\n * @param {Object} style The style to be validated.\n * @returns {Array<ValidationError>}\n * @example\n *   var validateMapboxApiSupported = require('mapbox-gl-style-spec/lib/validate_style_mapbox_api_supported.js');\n *   var errors = validateMapboxApiSupported(style);\n */\nexport default function validateMapboxApiSupported(style: Object, styleSpec: Object = v8): ValidationErrors {\n  let s = style;\n  try {\n    s = readStyle(s);\n  } catch (e) {\n    return [e];\n  }\n\n  let errors = validateStyle(s, styleSpec)\n    .concat(getRootErrors(s, Object.keys(v8.$root)));\n\n  if (s.sources) {\n    errors = errors.concat(getSourcesErrors(s.sources));\n  }\n\n  return errors;\n}\n\n","// @flow\n\ntype ExpressionType =
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'data-driven' | 'color-ramp' | 'data-constant' | 'constant';\ntype ExpressionParameters = Array<'zoom' | 'feature' | 'feature-state' | 'heatmap-density' | 'line-progress' | 'sky-radial-progress' | 'pitch' | 'distance-from-center'>;\n\ntype ExpressionSpecification = {\n interpolated: boolean,\n parameters: ExpressionParameters\n}\n\nexport type StylePropertySpecification = {\n type: 'number',\n 'property-type': ExpressionType,\n expression?: ExpressionSpecification,\n transition: boolean,\n default?: number\n} | {\n type: 'string',\n 'property-type': ExpressionType,\n expression?: ExpressionSpecification,\n transition: boolean,\n default?: string,\n tokens?: boolean\n} | {\n type: 'boolean',\n 'property-type': ExpressionType,\n expression?: ExpressionSpecification,\n transition: boolean,\n default?: boolean\n} | {\n type: 'enum',\n 'property-type': ExpressionType,\n expression?: ExpressionSpecification,\n values: {[_: string]: {}},\n transition: boolean,\n default?: string\n} | {\n type: 'color',\n 'property-type': ExpressionType,\n expression?: ExpressionSpecification,\n transition: boolean,\n default?: string,\n overridable: boolean\n} | {\n type: 'array',\n value: 'number',\n 'property-type': ExpressionType,\n expression?: ExpressionSpecification,\n length?: number,\n transition: boolean,\n default?: Array<number>\n} | {\n type: 'array',\n value: 'string',\n 'property-type': ExpressionType,\n expression?: ExpressionSpecification,\n length?: number,\n transition: boolean,\n default?: Array<string>\n} | {\n type: 'resolvedImage',\n 'property-type': ExpressionType,\n expression?: ExpressionSpecification,\n transition: boolean,\n default?: string\n};\n\nimport v8 from './reference/v8.json';\nimport latest from './reference/latest.js';\nimport format from './format.js';\nimport migrate from './migrate.js';\nimport composite from './composite.js';\nimport derefLayers from './deref.js';\nimport diff from './diff.js';\nimport ValidationError from './error/validation_error.js';\nimport ParsingError from './error/parsing_error.js';\nimport {StyleExpression, isExpression, createExpression, createPropertyExpression, normalizePropertyExpression, ZoomConstantExpression, ZoomDependentExpression, StylePropertyFunction} from './expression/index.js';\nimport featureFilter, {isExpressionFilter} from './feature_filter/index.js';\n\nimport convertFilter from './feature_filter/convert.js';\nimport Color from './util/color.js';\nimport {createFunction, isFunction} from './function/index.js';\nimport convertFunction from './function/convert.js';\nimport {eachSource, eachLayer, eachProperty} from './visit.js';\n\nimport validate from './validate_style.js';\nimport validateMapboxApiSupported from './validate_mapbox_api_supported.js';\n\nconst expression = {\n StyleExpression,\n isExpression,\n isExpressionFilter,\n createExpression,\n createPropertyExpression,\n normalizePropertyExpression,\n ZoomConstantExpression,\n ZoomDependentExpression,\n StylePropertyFunction\n};\n\nconst styleFunction = {\n convertFunction,\n createFunction,\n isFunction\n};\n\nconst visit = {eachSource, eachLayer, eachProperty};\n\nexport {\n v8,\n latest,\n format,\n migrate,\n composite,\n derefLayers,\n diff,\n ValidationError,\n ParsingError,\n expression,\n featureFilter,\n convertFilter,\n Color,\n styleFunction as function,\n validate,\n validateMapboxApiSupported,\n visit\n};\n"],"names":["stringOrChar","stringify","passedObj","options","indent","JSON","undefined","slice","maxLength","Infinity","replacer","_stringify","obj","currentIndent","reserved","toJSON","string","length","prettified","replace","match","stringLiteral","parse","nextIndent","items","index","start","end","Array","isArray","push","keys","Object","key","keyPart","value","join","sortKeysBy","reference","result","format","style","space","$root","layers","map","layer","stringifyPretty","root","freeExports","exports","nodeType","freeModule","module","freeGlobal","global","window","self","punycode","maxInt","base","tMin","tMax","skew","damp","initialBias","initialN","delimiter","regexPunycode","regexNonASCII","regexSeparators","errors","baseMinusTMin","floor","Math","stringFromCharCode","String","fromCharCode","error","type","RangeError","array","fn","mapDomain","parts","split","labels","encoded","ucs2decode","output","counter","extra","charCodeAt","ucs2encode","basicToDigit","codePoint","digitToBasic","digit","flag","adapt","delta","numPoints","firstTime","k","decode","input","inputLength","out","i","n","bias","basic","j","oldi","w","t","baseMinusT","lastIndexOf","splice","encode","handledCPCount","basicLength","m","q","currentValue","handledCPCountPlusOne","qMinusT","toUnicode","test","toLowerCase","toASCII","hasOwnProperty","this","isString","arg","isObject","isNull","isNullOrUndefined","prop","prototype","call","qs","sep","eq","regexp","maxKeys","len","x","idx","indexOf","kstr","vstr","v","substr","decodeURIComponent","stringifyPrimitive","isFinite","name","ks","encodeURIComponent","require","querystring","util","urlParse","urlResolve","urlResolveObject","urlFormat","Url","protocol","slashes","auth","host","port","hostname","hash","search","query","pathname","p

ath","href","protocolPattern","portPattern","simplePathPattern","delims","unwise","concat","autoEscape","nonHostChars","hostEndingChars","hostnameMaxLen","hostnamePartPattern","hostnamePartStart","unsafeProtocol","hostlessProtocol","slashedProtocol","url","parseQueryString","slashesDenoteHost","u","TypeError","queryIndex","splitter","uSplit","slashRegex","rest","trim","simplePath","exec","proto","lowerProto","hostEnd","hec","atSign","parseHost","ipv6Hostname","hostparts","l","part","newpart","validParts","notHost","bit","unshift","p","h","ae","esc","escape","qm","s","charAt","source","relative","resolve","resolveObject","rel","tkeys","tk","tkey","rkeys","rk","rkey","relPath","shift","isSourceAbs","isRelAbs","mustEndAbs","removeAllDots","srcPath","psychotic","pop","authInHost","last","hasTrailingSlash","up","isAbsolute","getPropertyReference","propertyName","Reference","layout","paint","eachSource","callback","sources","eachLayer","eachProperty","inner","propertyType","properties","forEach","id","set","eachLayout","eachPaint","resolveConstant","constants","isFunction","stops","renameProperty","from","to","version","coordinates","coord","reverse","property","stop","migrateFontstackURL","inputParsed","URL","inputPathnameParts","assert","decodeURI","predicate","Error","glyphs","migrateFontStack","font","splitAndTrim","firstSymbolLayer","symbolLayers","inputs","ParsingError","constructor","message","Scope","parent","bindings","expression","get","has","NullType","kind","NumberType","StringType","BooleanType","ColorType","ObjectType","ValueType","ErrorType","CollatorType","FormattedType","ResolvedImageType","itemType","N","toString","valueMemberTypes","checkSubtype","expected","memberType","isValidType","provided","allowedTypes","some","isValidNativeType","kCSSColorTable","clamp_css_byte","round","clamp_css_float","f","parse_css_int","str","parseFloat","parseInt","parse_css_float","css_hue_to_rgb","m1","m2","parseCSSColor","css_str","iv","op","ep","fname","params","alpha","e","Color","r","g","b","a","rgba","toArray","toArray01","toArray01PremultipliedAlpha","black","white","transparent","red","blue","Collator","caseSensitive","diacriticSensitive","locale","sensitivity","collator","Intl","usage","compare","lhs","rhs","resolvedLocale","resolvedOptions","FormattedSection","text","image","scale","fontStack","textColor","normalize","Formatted","sections","fromString","unformatted","isEmpty","section","factory","serialize","serialized","ResolvedImage","available","validateRGBA","isValue","mixed","item","typeOf","Literal","args","context","expectedType","evaluate","eachChild","outputDefined","RuntimeError","types","number","boolean","object","Assertion","parsed","ctx","every","FormatExpression","firstArg","nextTokenMayBeObject","lastExpression","content","evaluateSection","evaluatedContent","ImageExpression","evaluatedImageName","availableImages","Coercion","Boolean","c","parseColor","num","Number","isNaN","valueToString","child","geometryTypes","EvaluationContext","globals","feature","featureState","formattedSection","_parseColorCache","canonical","featureTileCoord","featureDistanceData","geometryType","geometry","canonicalID","distanceFromCenter","center","y","dX","dY","bX","bearing","bY","dist","cached","CompoundExpression","_evaluate","definition","definitions","availableOverloads","overloads","filter","signature","signatureContext","ParsingContext","registry","scope","parsedArgs","argParseFailed","signatures","stringifySignature","actualTypes","register","CollatorExpression","EXTENT","updateBBox","bbox","min","max","mercatorXfromLng","lng","mercatorYfromLat","lat","PI","log","tan","boxWithinBox","bbox1","bbox2","getTileCoordinates","tilesAtZoom","pow","z","onBoundary","p1","p2","x1","y1","x2","y2","rayIntersect","pointWithinPolygon","point","rings","inside","ring","len2","pointWithinPolygons","polygons","perp","v1","v2","twoSided","q1","q2","x3","y3","det1","det2","lineIntersectLine","d","vectorP","vectorQ","lineIntersectPolygon","polygon","lineStringWithinPolygon","line","lineStringWithinPolygons","getTilePolygon","getTilePolygons","updatePoint","polyBBox","worldSize","halfWorldSize","resetBBox","getTilePoints","pointBBox","shifts","tilePoints","points","getTileLines","lineBBox","tileLines","tileLine","pointsWithinPolygons","polygonGeometry","tilePolygon","tilePolygons","linesWithinPolygons","Within","geojson","geometries","features","isFeatureConstant","isStateConstant","isGlobalPropertyConstant","Var","boundExpression","expr","_parse","annotate","typeAnnotation","Expr","actual","isConstant","ec","isTypeAnnotation","childrenConstant","findStopLessThanOrEqualTo","lastIndex","lowerIndex","upperIndex","currentIndex","nextValue","Step","outputs","label","outputType","labelKey","valueKey","stopCount","UnitBezier","p1x","p1y","p2x","p2y","cx","bx","ax","cy","by","ay","sampleCurveX","sampleCurveY","sampleCurveDerivativeX","solveCurveX","epsilon","abs","d2","t0","t1","solve","color","Xn","Yn","Zn","t2","t3","deg2rad","rad2deg","xyz2lab","lab2xyz","xyz2rgb","rgb2xyz","rgbToLab","rgbColor","labToRgb","labColor","interpolateLab","interpolateNumber","rgbToHcl","atan2","sqrt","hclToRgb","hclColor","cos","sin","interpolateHue","interpolateHcl","lab","forward","interpolate","hcl","Interpolate","operator","interpolation","interpolationFactor","lower

","upper","exponentialInterpolation","controlPoints","ub","outputLower","outputUpper","lowerValue","upperValue","difference","progress","Coalesce","needsAnnotation","argCount","firstImage","Let","binding","At","In","needle","haystack","IndexOf","fromIndex","Match","inputType","cases","otherwise","labelContext","MAX_SAFE_INTEGER","sortedLabels","sort","groupedByOutput","outputLookup","outputIndex","coerceLabel","Case","branches","_","Slice","beginIndex","endIndex","isComparableType","neq","lt","gt","lteq","gteq","eqCollate","neqCollate","ltCollate","gtCollate","lteqCollate","gteqCollate","makeComparison","compareBasic","compareWithCollator","isOrderComparison","Comparison","hasUntypedArgument","rt","Equals","NotEquals","LessThan","GreaterThan","LessThanOrEqual","GreaterThanOrEqual","NumberFormat","currency","unit","minFractionDigits","maxFractionDigits","minimumFractionDigits","maximumFractionDigits","Length","expressions","binarySearch","varargs","typeToString","zoom","pitch","heatmapDensity","lineProgress","skyRadialProgress","accumulated","LN2","E","LN10","asin","acos","atan","ceil","isSupportedScript","toUpperCase","success","supportsPropertyExpression","spec","supportsZoomExpression","parameters","supportsInterpolation","interpolated","getType","val","identityFunction","createFunction","propertySpec","isColor","zoomAndFeatureDependent","featureDependent","zoomDependent","extend","default","colorSpace","colorSpaces","innerFun","hashedStops","categoricalKeyType","evaluateExponentialFunction","evaluateIntervalFunction","evaluateCategoricalFunction","create","evaluateIdentityFunction","featureFunctions","zoomStops","featureFunctionStops","interpolationType","bind","coalesce","keyType","evaluated","interp","colorspace","evaluatedLower","apply","evaluatedUpper","values","StyleExpression","_warningHistory","_evaluator","_defaultValue","getDefaultValue","_enumValues","evaluateWithoutErrorHandling","console","warn","isExpression","createExpression","parser","getExpectedType","ZoomConstantExpression","_styleExpression","isStateDependent","ZoomDependentExpression","createPropertyExpression","isZoomConstant","zoomCurve","findZoomCurve","StylePropertyFunction","specification","_parameters","_specification","deserialize","normalizePropertyExpression","err","constant","childResult","enum","formatted","resolvedImage","convertLiteral","convertFunction","convertIdentityFunction","tokens","convertTokenString","convertZoomAndPropertyFunction","convertZoomFunction","convertPropertyFunction","getInterpolateOperator","featureFunctionParameters","functionType","getFunctionType","appendStopPair","fixupDegenerateStepCurve","getFallback","defaultValue","isStep","curve","re","pos","literal","unbundle","valueOf","deepUnbundle","unbundledValue","isExpressionFilter","createFilter","layerType","needGeometry","needFeature","convertFilter","filterExp","staticFilter","extractStaticFilter","filterSpec","latest","compiledStaticFilter","filterFunc","globalProperties","dynamicFilterFunc","compiledDynamicFilter","geometryNeeded","dynamicFilter","isDynamicFilter","unionDynamicBranches","collapseDynamicBooleanExpressions","collapsed","collapsedExpression","subExpression","isBranchingDynamically","isRootExpressionDynamic","dynamicConditionExpressions","Set","param","converted","convertComparisonOp","convertNegation","convertDisjunctionOp","convertInOp","convertHasOp","filters","_convertFilter","expectedTypes","children","typechecks","runtimeTypeChecks","conditions","negate","uniformTypes","uniqueValues","migrated","migrateToV8","migrateToExpressions","styleIDs","sourceIDs","compositedSourceLayers","compositeID","deref","refProperties","derefLayers","ref","deepEqual","operations","setStyle","addLayer","removeLayer","setPaintProperty","setLayoutProperty","setFilter","addSource","removeSource","setGeoJSONSourceData","setLayerZoomRange","setLayerProperty","setCenter","setZoom","setBearing","setPitch","setSprite","setGlyphs","setTransition","setLight","setTerrain","setFog","setProjection","sourceId","after","commands","command","sourcesRemoved","updateSource","canUpdateGeoJSON","before","isEqual","diffSources","data","diffLayerPropertyChanges","layerId","klass","pluckId","indexById","group","diffLayers","beforeOrder","afterOrder","beforeIndex","reduce","afterIndex","tracker","clean","beforeLayer","afterLayer","insertBeforeLayerId","minzoom","maxzoom","diffStyles","sprite","transition","light","fog","projection","removeOrAddSourceCommands","beforeLayers","beforeTerrain","terrain","ValidationError","identifier","__line__","validateObject","elementSpecs","valueSpec","elementValidators","objectElementValidators","styleSpec","objectKey","elementSpecKey","elementSpec","validateElement","validateSpec","required","validateArray","arraySpec","validateArrayElement","arrayElementValidator","validate","arrayElementSpec","minimum","maximum","function","$version","arrayIndex","validateNumber","specMin","specMax","validateFunction","functionValueSpec","stopKeyType"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3F;EAAA;EAAA;EAAA;EAAA;EAAA;EAAA;EAAA;EAAA;EAAA;EAAA;EAAA;EAAA;EAAA;EAAA;EAAA;EAAA;EAAA;EAAA;EAAA;EAAA;EAAA;EAAA,IAAII,cAAA,GAAiB;EAAA,IACnB,aAAe,EAAA;EAAA,QAAC,CAAD;EAAA,QAAG,CAAH;EAAA,QAAK,CAAL;EAAA,QAAO,CAAP;EAAA,KADI;EAAA,IACO,WAAa,EAAA;EAAA,QAAC,GAAD;EAAA,QAAK,GAAL;EAAA,QAAS,GAAT;EAAA,QAAa,CAAb;EAAA,KADpB;EAAA,IAEnB,cAAgB,EAAA;EAAA,QAAC,GAAD;EAAA,QAAK,GAAL;EAAA,QAAS,GAAT;EAAA,QAAa,CAAb;EAAA,KAFG;EAAA,IAEc,MAAQ,EAAA;EAAA,QAAC,CAAD;EAAA,QAAG,GAAH;EAAA,QAAO,GAAP;EAAA,QAAW,CAAX;EAAA,KAFtB;EAAA,IAGnB,YAAc,EAAA;EAAA,QAAC,GAAD;EAAA,QAAK,GAAL;EAAA,QAAS,GAAT;EAAA,QAAa,CAAb;EAAA,KAHK;EAAA,IAGY,OAAS,EAAA;EAAA,QAAC,GAAD;EAAA,QAAK,GAAL;EAAA,QAAS,GAAT;EAAA,QAAa,CAAb;EAAA,KAHrB;EAAA,IAInB,OAAS,EAAA;EAAA,QAAC,GAAD;EAAA,QAAK,GAAL;EAAA,QAAS,GAAT;EAAA,QAAa,CAAb;EAAA,KAJU;EAAA,IAKnB,OAAS,EAAA;EAAA,QAAC,GAAD;EAAA,QAAK,GAAL;EAAA,QAAS,GAAT;EAAA,QAAa,CAAb;EAAA,KALU;EAAA,IAMnB,OAAS,EAAA;EAAA,QAAC,GAAD;EAAA,QAAK,GAAL;EAAA,QAAS,GAAT;EAAA,QAAa,CAAb;EAAA,KANU;EAAA,IAOnB,OAAS,EAAA;EAAA,QAAC,GAAD;EAAA,QAAK,GAAL;EAAA,QAAS,GAAT;EAAA,QAAa,CAAb;EAAA,KAPU;EAAA,IAQnB,OAAS,EAAA;EAAA,QAAC,GAAD;EAAA,QAAK,GAAL;EAAA,QAAS,GAAT;EAAA,QAAa,CAAb;EAAA,KARU;EAAA,IASnB,OAAS,EAAA;EAAA,QAAC,GAAD;EAAA,QAAK,GAAL;EAAA,QAAS,GAAT;EAAA,QAAa,CAAb;EAAA,KATU;EAAA,IAUnB,OAAS,EAAA;EAAA,QAAC,GAAD;EAAA,QAAK,GAAL;EAAA,QAAS,GAAT;EAAA,QAAa,CAAb;EAAA,KAVU;EAAA,IAWnB,OAAS,EAAA;EAAA,QAAC,GAAD;EAAA,QAAK,GAAL;EAAA,QAAS,GAAT;EAAA,QAAa,CAAb;EAAA,KAXU;EAAA,IAYnB,OAAS,EAAA;EAAA,QAAC,GAAD;EAAA,QAAK,GAAL;EAAA,QAAS,GAAT;EAAA,QAAa,CAAb;EAAA,KAZU;EAAA,IAanB,OAAS,EAAA;EAAA,QAAC,GAAD;EAAA,QAAK,GAAL;EAAA,QAAS,GAAT;EAAA,QAAa,CAAb;EAAA,KAbU;EAAA,IAcnB,OAAS,EAAA;EAAA,QAAC,GAAD;EAAA,QAAK,GAAL;EAAA,QAAS,GAAT;EAAA,QAAa,CAAb;EAAA,KAdU;EAAA,IAenB,OAAS,EAAA;EAAA,QAAC,GAAD;EAAA,QAAK,GAAL;EAAA,QAAS,GAAT;EAAA,QAAa,CAAb;EAAA,KAfU;EAAA,IAgBnB,OAAS,EAAA;EAAA,QAAC,GAAD;EAAA,QAAK,GAAL;EAAA,QAAS,GAAT;EAAA,QAAa,CAAb;EAAA,KAhBU;EAAA,IAiBnB,OAAS,EAAA;EAAA,QAAC,GAAD;EAAA,QAAK,GAAL;EAAA,QAAS,GAAT;EAAA,QAAa,CAAb;EAAA,KAjBU;EAAA,IAkBnB,OAAS,EAAA;EAAA,QAAC,GAAD;EAAA,QAAK,GAAL;EAAA,QAAS,GAAT;EAAA,QAAa,CAAb;EAAA,KAlBU;EAAA,IAmBnB,OAAS,EAAA;EAAA,QAAC,GAAD;EAAA,QAAK,GAAL;EAAA,QAAS,GAAT;EAAA,QAAa,CAAb;EAAA,KAnBU;EAAA,IAoBnB,OAAS,EAAA;EAAA,QAAC,GAAD;EAAA,QAAK,GAAL;EAAA,QAAS,GAAT;EAAA,QAAa,CAAb;EAAA,KApBU;EAAA,IAqBnB,OAAS,EAAA;EAAA,QAAC,GAAD;EAAA,QAAK,GAAL;EAAA,QAAS,GAAT;EAAA,QAAa,CAAb;EAAA,KArBU;EAAA,IAsBnB,OAAS,EAAA;EAAA,QAAC,GAAD;EAAA,QAAK,GAAL;EAAA,QAAS,GAAT;EAAA,QAAa,CAAb;EAAA,KAtBU;EAAA,IAuBnB,OAAS,EAAA;EAAA,QAAC,GAAD;EAAA,QAAK,GAAL;EAAA,QAAS,GAAT;EAAA,QAAa,CAAb;EAAA,KAvBU;EAAA,IAwBnB,OAAS,EAAA;EAAA,QAAC,GAAD;EAAA,QAAK,GAAL;EAAA,QAAS,GAAT;EAAA,QAAa,CAAb;EAAA,KAxBU;EAAA,IAyBnB,OAAS,EAAA;EAAA,QAAC,GAAD;EAAA,QAAK,GAAL;EAAA,QAAS,GAAT;EAAA,QAAa,CAAb;EAAA,KAzBU;EAAA,IA0BnB,OAAS,EAAA;EAAA,QAAC,GAAD;EAAA,QAAK,GAAL;EAAA,QAAS,GAAT;EAAA,QAAa,CAAb;EAAA,KA1BU;EAAA,IA2BnB,OAAS,EAAA;EAAA,QAAC,GAAD;EAAA,QAAK,GAAL;EAAA,QAAS,GAAT;EAAA,QAAa,CAAb;EAAA,KA3BU;EAAA,IA4BnB,OAAS,EAAA;EAAA,QAAC,GAAD;EAAA,QAAK,GAAL;EAAA,QAAS,GAAT;EAAA,QAAa,CAAb;EAAA,KA5BU;EAAA,IA6BnB,OAAS,EAAA;EAAA,QAAC,GAAD;EAAA,QAAK,GAAL;EAAA,QAAS,GAAT;EAAA,QAAa,CAAb;EAAA,KA7BU;EAAA,IA8BnB,OAAS,EAAA;EAAA,QAAC,GAAD;EAAA,QAAK,GAAL;EAAA,QAAS,GAAT;EAAA,QAAa,CAAb;EAAA,KA9BU;EAAA,IA+BnB,OAAS,EAAA;EAAA,QAAC,GAAD;EAAA,QAAK,GAAL;EAAA,QAAS,GAAT;EAAA,QAAa,CAAb;EAAA,KA/BU;EAAA,IAgCnB,OAAS,EAAA;EAAA,QAAC,GAAD;EAAA,QAAK,GAAL;EAAA,QAAS,GAAT;EAAA,QAAa,CAAb;EAAA,KAhCU;EAAA,IAiCnB,OAAS,EAAA;EAAA,QAAC,GAAD;EAAA,QAAK,GAAL;EAAA,QAAS,GAAT;EAAA,QAAa,CAAb;EAAA,KAjCU;EAAA,IAkCnB,OAAS,EAAA;EAAA,QAAC,GAAD;EAAA,QAAK,GAAL;EAAA,QAAS,GAAT;EAAA,QAAa,CAAb;EAAA,KAlCU;EAAA,IAmCnB,OAAS,EAAA;EAAA,QAAC,GAAD;EAAA,QAAK,GAAL;EAAA,QAAS,GAAT;EAAA,QAAa,CAAb;EAAA,KAnCU;EAAA,IAoCnB,OAAS,EAAA;EAAA,QAAC,GAAD;EAAA,QAAK,GAAL;EAAA,QAAS,GAAT;EAAA,QAAa,CAAb;EAAA,KApCU;EAAA,IAqCnB,OAAS,EAAA;EAAA,QAAC,GAAD;EAAA,QAAK,GAAL;EAAA,QAAS,GAAT;EAAA,QAAa,CAAb;EAAA,KArCU;EAAA,IAsCnB,OAAS,EAAA;EAAA,QAAC,GAAD;EAAA,QAAK,GAAL;EAAA,QAAS,GAAT;EAAA,QAAa,CAAb;EAAA,KAtCU;EAAA,IAuCnB,OAAS,EAAA;EAAA,QAAC,GAAD;EAAA,QAAK,GAAL;EAAA,QAAS,GAAT;EAAA,QAAa,CAAb;EAAA,KAvCU;EAAA,IAwCnB,OAAS,EAAA;EAAA,QAAC,GAAD;EAAA,QAAK,GAAL;EAAA,QAAS,GAAT;EAAA,QAAa,CAAb;EAAA,KAxCU;EAAA,IAyCnB,OAAS,EAAA;EAAA,QAAC,GAAD;EAAA,QAAK,GAAL;EAAA,QAAS,GAAT;EAAA,QAAa,CAAb;EAAA,KAzCU;EAAA,IA0CnB,OAAS,EAAA;EAAA,QAAC,GAAD;EAAA,QAAK,GAAL;EAAA,QAAS,GAAT;EAAA,QAAa,CAAb;EAAA,KA1CU;EAAA,IA2CnB,OAAS,EAAA;EAAA,QAAC,GAAD;EAAA,QAAK,GAAL;EAAA,QAAS,GAAT;EAAA,QAAa,CAAb;EAAA,KA3CU;EAAA,IA4CnB,OAAS,EAAA;EAAA,QAAC,GAAD;EAAA,QAAK,GAAL;EAAA,QAAS,GAAT;EAAA,QAAa,CAAb;EAAA,KA5CU;EAAA,IA6CnB,OAAS,EAAA;EAAA,QAAC,GAAD;EAAA,QAAK,GAAL;EAAA,QAAS,GAAT;EAAA,QAAa,CAAb;EAAA,KA7CU;EAAA,IA8CnB,OAAS,EAAA;EAAA,QAAC,GAAD;EAAA,QAAK,GAAL;EAAA,QAAS,GAAT;EAAA,QAAa,CAAb;EAAA,KA9CU;EAAA,IA+CnB,OAAS,EAAA;EAAA,QAAC,GAAD;EAAA,QAAK,GAAL;EAAA,QAAS,GAAT;EAAA,QAAa,CAAb;EAAA,KA/CU;EAAA,IAgDnB,OAAS,EAAA;EAAA,QAAC,GAAD;EAAA,QAAK,GAAL;EAAA,QAAS,GAAT;EAAA,QAAa,CAAb;EAAA,KAhDU;EAAA,IAiDnB,OAAS,EAAA;EAAA,QAAC,GAAD;EAAA,QAAK,GAAL;EAAA,QAAS,GAAT;EAAA,QAAa,CAAb;EAAA,KAjDU;EAAA,IAkDnB,OAAS,EAAA;EAAA,QAAC,GAAD;EAAA,QAAK,GAAL;EAAA,QAAS,GAAT;EA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Found in path(s):

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1.1103 nodeca-pako 2.1.0

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1.1104 @babel/plugin-bugfix-v8-spread-parameters-in-optional-chaining 7.20.7

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1.1105 js-yaml-native-js-port-of-pyyaml 3.14.1

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1.1106 @react-aria/button 3.6.1

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1.1107 convert-source-map 1.9.0

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1.1108 i18next/i18next 22.4.9

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1.1109 types-webpack 4.41.33

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1.1110 htmlparser2 6.1.0

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1.1111 node-ignore 5.2.4

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1.1112 pretty-error 4.0.0

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1.1113 css-tree 1.1.3

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1.1114 @babel/plugin-transform-react-jsx-development 7.18.6

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1.1115 @babel/compat-data 7.20.10

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1.1116 postcss-normalize-string 5.1.0

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1.1117 react-lifecycles-compat 3.0.4

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1.1118 d3-dispatch 1.0.6

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1.1119 msjs 2.0.0

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1.1120 webpack-sources 3.2.3

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1.1121 stable-stringify 1.0.1

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1.1122 lodash.uniq 4.5.0

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1.1123 chalk 4.1.2

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1.1124 node-error-ex 1.3.2

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1.1125 babel-plugin-syntax-optional-chaining 7.8.3

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1.1126 types-lodash 4.14.181

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1.1127 minipass-fetch 2.1.2

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1.1128 jest-matcher-utils 27.5.1

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1.1130 ssri 9.0.1

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1.1131 @monaco-editor/loader 1.3.2

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1.1132 @babel/plugin-syntax-object-rest-spread 7.8.3

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1.1133 browser-process-hrtime 1.0.0

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1.1134 @sentry/minimal 6.19.7

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1.1135 merge2 1.4.1

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1.1136 @types/serve-static 1.15.0

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1.1137 mime 1.6.0

1.1138 @emotion/css 11.10.5

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1.1139 log-symbols 4.1.0

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1.1140 @babel/plugin-transform-literals 7.18.9

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1.1141 jest-leak-detector 27.5.1

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1.1142 nwsapi 2.2.2

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1.1143 rc-trigger 2.6.5

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1.1144 @emotion/unitless 0.8.0

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1.1145 @babel/plugin-transform-template-literals 7.18.9

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1.1146 inflight 1.0.6

1.1147 stacktrace-gps 3.1.2

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1.1148 is-what 3.14.1

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1.1149 @sentry/utils 6.19.7

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1.1150 create-require 1.1.1

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1.1151 deepmerge 4.2.2

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1.1152 ansi-styles 3.2.1

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1.1153 yallist 3.1.1

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1.1154 postcss-modules-local-by-default 4.0.0

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1.1155 jest-from-facebook 29.3.1

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1.1156 @bcoe/v8-coverage 0.2.3

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1.1158 http-proxy-agent 5.0.0

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http-proxy-agent
==========
An HTTP(s) proxy `http.Agent` implementation for HTTP
[![Build Status](https://github.com/TooTallNate/node-http-proxy-agent/workflows/Node%20CI/badge.svg)](https://github.com/TooTallNate/node-http-proxy-agent/actions?workflow=Node+CI)

This module provides an `http.Agent` implementation that connects to a specified
HTTP or HTTPS proxy server, and can be used with the built-in `http` module.

__Note:__ For HTTP proxy usage with the `https` module, check out
[`node-https-proxy-agent`](https://github.com/TooTallNate/node-https-proxy-agent).

Installation

Install with `npm`:

``` bash
```

```
$ npm install http-proxy-agent
```

Example

``` js
var url = require('url');
var http = require('http');
var HttpProxyAgent = require('http-proxy-agent');

// HTTP/HTTPS proxy to connect to
var proxy = process.env.http_proxy || 'http://168.63.76.32:3128';
console.log('using proxy server %j', proxy);

// HTTP endpoint for the proxy to connect to
var endpoint = process.argv[2] || 'http://nodejs.org/api/';
console.log('attempting to GET %j', endpoint);
var opts = url.parse(endpoint);

// create an instance of the `HttpProxyAgent` class with the proxy server information
var agent = new HttpProxyAgent(proxy);
opts.agent = agent;

http.get(opts, function (res) {
 console.log('"response" event!', res.headers);
 res.pipe(process.stdout);
});
```

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* /opt/cola/permits/1242019998_1655308847.2260032/0/http-proxy-agent-5-0-0-tgz/package/README.md

1.1159 react-table 7.8.0

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1.1160 mkdirp 1.0.4

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1.1161 d3-format 1.4.5

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1.1162 @types/html-webpack-plugin 3.2.6

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1.1163 toggle-selection 1.0.6

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1.1164 fill-range 7.0.1

1.1165 set-blocking 2.0.0

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1.1166 @babel/plugin-syntax-export-namespace-from 7.8.3

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1.1167 @types/html-minifier 4.0.2

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1.1168 types-istanbul-lib-report 3.0.0

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1.1169 array-includes 3.1.6

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1.1170 d3-timer v1.0.10

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1.1171 axios 0.26.1

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1.1172 msjs 2.1.3

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1.1174 d3-hierarchy 1.1.9

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1.1181 fork-ts-checker-webpack-plugin 6.5.2

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1.1182 classnames 2.3.2

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1.1184 escape-string-regexp v4.0.0

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1.1186 value-equal 1.0.1

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1.1187 w3c-hr-time 1.0.2

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1.1188 rc-drawer 4.4.3

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1.1192 write-file-atomic 3.0.3

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1.1193 @babel/plugin-transform-duplicate-keys 7.18.9

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1.1194 rc-trigger 5.3.4

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1.1195 locate-path 3.0.0

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1.1196 csscolorparser 1.0.3

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* /opt/cola/permits/1073109680_1613064406.79/0/csscolorparser-1-0-3-5-tgz/package/csscolorparser.js
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https://github.com/deanm/css-color-parser-js

JavaScript parser for CSS color strings.

```
> parseCSSColor(' rgba (255, 128, 12, 0.5)');
[ 255, 128, 12, 0.5 ]
> parseCSSColor('#fff');
[ 255, 255, 255, 1 ]
> parseCSSColor('#ff0011');
[ 255, 0, 17, 1 ]
> parseCSSColor('slateblue');
[ 106, 90, 205, 1 ]
> parseCSSColor('blah');
null
> parseCSSColor('ffffff');
null
> parseCSSColor('hsla(900, 15%, 90%, 0.5)')
[ 226, 233, 233, 0.5 ]
> parseCSSColor('hsla(900, 15%, 90%)')
null
> parseCSSColor('hsl(900, 15%, 90%)')
[ 226, 233, 233, 1 ]
> parseCSSColor('hsl(900, 0.15, 90%)')  // NOTE: not spec compliant.
[ 226, 233, 233, 1 ]
```

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Found in path(s):
* /opt/cola/permits/1073109680_1613064406.79/0/csscolorparser-1-0-3-5-tgz/package/README

1.1197 rc-util 5.27.1

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1.1198 @emotion/babel-plugin 11.10.5

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1.1199 yargs 16.2.0

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1.1200 fast_array_intersect 1.1.0

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1.1201 has-tostringtag 1.0.0

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1.1202 ajv 8.12.0

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1.1203 babel-plugin-polyfill-corejs3 0.5.3

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1.1204 yn v3.1.1

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1.1205 @react-types/menu 3.7.3

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1.1206 rtl-css 1.16.1

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1.1207 is-root 2.1.0

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1.1208 type-check 0.4.0

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1.1209 bl 4.1.0

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1.1210 types-json-schema 7.0.11

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1.1211 get-package-type 0.1.0

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1.1212 @grafana/toolkit 9.3.2

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1.1213 make-dir 3.1.0

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1.1214 @babel/plugin-transform-destructuring 7.20.7

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1.1215 @webassemblyjs/helper-api-error 1.11.1

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1.1216 ajv-keywords 5.1.0

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1.1217 @babel/plugin-proposal-async-generator-functions 7.20.7

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1.1218 babel-plugin-transform-member-expression-literals 7.18.6

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1.1219 @babel/plugin-transform-classes 7.20.7

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1.1220 postcss-page-break 3.0.4

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1.1221 doctrine v2.1.0

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1.1222 @babel/plugin-transform-exponentiation-operator 7.18.6

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1.1223 strip-final-newline 2.0.0

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1.1224 humanize-ms 1.2.1

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1.1225 chrisdickinson-raf 3.4.1

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1.1226 browserify-resolve 2.0.0-next.4

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1.1227 es-module-lexer 0.9.3

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1.1228 @babel/plugin-syntax-private-property-in-object 7.14.5

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1.1229 tr46 2.1.0

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1.1230 cssnano-preset-default 5.2.13

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1.1231 require-from-string 2.0.2

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1.1232 regenerator-transform 0.15.1

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1.1233 @formatjs/ecma402-abstract 1.14.3

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1.1234 css-what 6.1.0

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1.1235 postcss-clamp 4.1.0

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1.1236 html-minifier-terser 6.1.0

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1.1237 d3-selection 1.4.2

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1.1238 minipass 4.0.0

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1.1239 resolve-cwd 3.0.0

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1.1240 @xtuc/ieee754 1.2.0

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1.1241 @emotion/memoize 0.8.0

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1.1242 rxjs 7.8.0

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1.1243 css-loader 6.7.3

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1.1244 function-bind 1.1.1

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1.1245 node-abort-controller 3.0.1

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1.1246 @types/scheduler 0.16.2

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1.1247 npmlog 6.0.2

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1.1248 react-beautiful-dnd 13.1.1

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1.1249 yargs-parser 20.2.9

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1.1250 babel-plugin-syntax-nullish-coalescing-operator 7.8.3

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1.1251 @csstools/postcss-ic-unit 1.0.1

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1.1252 rbush v3.0.1

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1.1253 optionator 0.9.1

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1.1254 @babel/plugin-proposal-numeric-separator 7.18.6

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1.1255 @babel/plugin-syntax-json-strings 7.8.3

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1.1256 debug-js/debug 3.2.7

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1.1257 postcss-flexbugs-fixes 5.0.2

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1.1258 postcss-loader 6.2.1

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1.1259 sass 1.57.1

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1.1260 loose-envify 1.4.0

1.1261 @babel/plugin-syntax-bigint 7.8.3

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1.1262 esutils 2.0.3

1.1263 @opentelemetry/semantic-conventions 1.8.0

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1.1264 @babel/helper-module-transforms 7.20.11

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1.1265 typed-array-length 1.0.4

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1.1266 is-regex 1.1.4

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1.1267 @leeoniya/ufuzzy 0.8.0

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1.1268 clean-css 5.3.2

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1.1269 node-glob 7.2.3

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1.1270 http-proxy-middleware v1.3.1

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1.1271 schema-utils 3.1.1

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1.1272 babel-preset-current-node-syntax 1.0.1

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1.1273 @npmcli/move-file 2.0.1

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1.1274 types-jest 29.2.6

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1.1275 postcss-initial 4.0.1

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1.1276 @react-aria/overlays 3.10.1

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1.1277 isomorphic-base64 1.0.2

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1.1278 nodejs-deprecate 1.1.2

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1.1279 immutable 4.2.2

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1.1280 define-properties 1.1.4

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1.1281 @react-types/checkbox 3.4.1

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1.1282 create-react-app 6.0.11

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1.1284 nanoid 3.3.4

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1.1285 jest-util 29.3.1

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1.1286 jest-snapshot 27.5.1

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1.1287 @react-aria/overlays 3.12.1

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1.1288 babel-plugin-syntax-typescript 7.20.0

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1.1289 node-semver 7.3.8

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1.1290 ora 5.4.1

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1.1293 nodejs-string-decoder v1.3.0

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1.1304 sindresorhus-supports-color 5.5.0

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1.1305 yaml 1.10.2

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1.1306 @csstools/postcss-is-pseudo-class 2.0.7

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1.1307 @babel/plugin-proposal-unicode-property-regex 7.18.6

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1.1308 @types/connect-history-api-fallback 1.3.5

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1.1309 postcss-nesting 10.2.0

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1.1310 node-semver 5.7.1

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1.1311 parent-module 1.0.1

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1.1312 renderkid 3.0.0

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1.1313 quickselect 2.0.0

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1.1314 iconv-lite v0.4.24

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1.1315 @react-stately/utils 3.5.2

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1.1316 @types/prettier 2.6.3

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1.1317 recursive-readdir 2.2.3

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1.1318 pkg-dir 4.2.0

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1.1330 typescript 4.8.4

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1.1334 ianstormtaylor/slate 0.2.11

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