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In your requests please include the following reference number 78EE117C99-1013849527

Contents

1.1 jetty-servlets 9.4.18.v20190429
1.2 cxf-tools-wsdlto-frontend-jaxws 3.3.1
1.3 spring-plugin-metadata 1.2.0
1.4 hikaricp 3.2.0
1.5 log4j-api 2.11.2
1.5.1 Available under license
1.6 htmlunit 2.33
1.7 maven-model 2.2.1
1.7.1 Available under license
1.8 jquery-tag-editor 1.0.21
1.9 grizzly-http 2.3.25
1.10 commons-compress 1.18
1.11 spring-retry 1.2.3
1.12 miglayout 3.5.5
1.13 jetty-http 9.4.18.v20190429
1.14 javax-transaction 1.3
1.14.1 Available under license
1.15 tomcat-jdbc 9.0.19
1.15.1 Available under license
1.16 jackson-databind 2.10.0
1.16.1 Available under license
1.17 doxia-module-xhtml 1.1.2
1.17.1 Available under license
1.18 xsom 2.3.2
1.18.1 Available under license
1.19 accessors-smart 1.2

1.20 cxf 3.3.1
1.21 bouncy-castle 1.60
1.21.1 Available under license
1.22 commons-configuration 1.5
1.22.1 Available under license
1.23 javax-ws-rs-api 2.0
1.23.1 Available under license
1.24 zlib 1.2.11
1.24.1 Available under license
1.25 ehcache 2.4.0
1.26 doxia-core 1.1.2
1.27 spring-security-web 5.1.4
1.28 client 1.0.0 beta.2
1.29 ant-launcher 1.9.6
1.29.1 Available under license
1.30 codemodel 2.3.2
1.30.1 Available under license
1.31 jacoco-agent 0.8.2
1.31.1 Available under license
1.32 jackson-datatype-jsr310 2.9.8
1.33 apacheds-protocol-dhcp 2.0.0
1.33.1 Available under license
1.34 jaxb-xjc 2.3.2
1.34.1 Available under license
1.35 hibernate-types-52 2.2.0
1.36 api-i18n 1.0.0
1.36.1 Available under license
1.37 jacoco-core 0.8.2
1.37.1 Available under license
1.38 freemarker 2.3.28
1.38.1 Available under license
1.39 spring-framework 5.1.5
1.39.1 Available under license
1.40 bcpkix-jdk15on 1.60
1.41 slf4j 1.7.25
1.41.1 Available under license
1.42 gstreamer 0.10.35
1.42.1 Available under license
1.43 jdk-oracle 1.8.0u162

1.43.1 Available under license
1.44 asm-commons 6.2.1
1.45 jradius-dictionary 1.1.5
1.46 tk 8.6.6
1.46.1 Available under license
1.47 cxf-rt-bindings-xml 3.3.1
1.48 grizzly-framework 2.3.25
1.49 log4j-to-slf4j 2.11.2
1.49.1 Available under license
1.50 velocity 1.5
1.50.1 Available under license
1.51 classmate 1.4.0
1.51.1 Available under license
1.52 oshi-core 3.4.4
1.52.1 Available under license
1.53 jboss-logging 3.3.2
1.53.1 Available under license
1.54 datatype 1.4.01
1.55 j2objc-annotations 1.1
1.55.1 Available under license
1.56 rngom 2.3.2
1.56.1 Available under license
1.57 error-prone-annotations 2.1.3
1.57.1 Available under license
1.58 jandex 2.0.3
1.58.1 Available under license
1.59 codemodel 2.6
1.60 xstream 1.4.11.1
1.61 commons-io 2.5
1.61.1 Available under license
1.62 relaxng datatype 2.3.2
1.62.1 Available under license
1.63 android-json 0.0.20131108.vaadin1
1.64 commons-compiler 3.0.6
1.65 htmlunit-cssparser 1.2.0
1.66 spring-context-support 5.1.5
1.67 cxf-rt-frontend-simple 3.3.1
1.68 super-csv 2.4.0
1.69 activation 1.2.1

1.70 jakarta activation api 1.2.1
1.70.1 Available under license
1.71 springfox-core 2.2.2
1.72 api-ldap-model 1.0.0
1.72.1 Available under license
1.73 hopscotch 0.2.5
1.73.1 Available under license
1.74 json-simple 1.1.1
1.75 xml-pull 1.1.3.1
1.75.1 Available under license
1.76 commons-codec 1.10
1.76.1 Available under license
1.77 velocity-engine-core 2.0
1.77.1 Available under license
1.78 commons-cli 1.4
1.78.1 Available under license
1.79 javax-batch-api 1.0
1.79.1 Available under license
1.80 reflections 0.9.9
1.81 commons-lang 3.7
1.81.1 Available under license
1.82 cglib 2.2.2
1.82.1 Available under license
1.83 c3p0 0.9.5.3
1.84 cxf-tools-wsdlto-core 3.3.1
1.85 jackson-dataformat-yaml 2.5.4
1.85.1 Available under license
1.86 doxia-sink-api 1.1
1.87 asm 7.0
1.88 commons-lang 2.6
1.88.1 Available under license
1.89 jquery 3.4.0
1.89.1 Available under license
1.90 jvm-hotspot-oracle 1.8.0u162
1.90.1 Available under license
1.91 commons-digester 2.1
1.91.1 Available under license
1.92 plexus-interpolation 1.11
1.93 jackson-module-parameter-names 2.9.8

1.94 spring-aspects 5.1.5
1.95 open-ssl 1.0.2k
1.95.1 Notifications
1.95.2 Available under license
1.96 poi-ooxml-schemas 4.1.0
1.96.1 Available under license
1.97 cxf-tools-wsdlto-databinding-jaxb 3.3.1
1.98 jetty-servlet 9.4.18.v20190429
1.99 poi-ooxml 4.1.0
1.99.1 Available under license
1.100 hibernate-jpa 1.0.0
1.101 jackson 2.10.0
1.101.1 Available under license
1.102 curl 7.58.0
1.102.1 Available under license
1.103 xmlschema 2.2.4
1.103.1 Available under license
1.104 file-management 1.2.1
1.105 wsdl4j 1.6.3
1.105.1 Available under license
1.106 ant-jsch 1.9.6
1.106.1 Available under license
1.107 hikaricp-java7 2.4.13
1.108 apache-servicemix-bundles-antlr 2.7.7_5
1.108.1 Available under license
1.109 spring-web-mvc 5.1.5
1.110 httpcomponents-core 4.4.11
1.110.1 Available under license
1.111 jsr305 1.3.9
1.111.1 Available under license
1.112 objenesis 2.6
1.112.1 Available under license
1.113 mysema-commons-lang 0.2.4
1.114 springfox-spring-web 2.2.2
1.115 jaxb-runtime 2.3.1
1.116 checker-qual 2.0.0
1.116.1 Available under license
1.117 zlib 1.2.3
1.117.1 Available under license

1.118 cxf-rt-ws-policy 3.3.1
1.119 commons-beanutils 1.9.4
1.119.1 Available under license
1.120 swagger-annotations 1.5.3
1.120.1 Available under license
1.121 mapstruct 1.0.0.CR1
1.122 querydsl-apt 4.2.1
1.123 commons-collections 3.2.2
1.123.1 Available under license
1.124 oro 2.0.8
1.124.1 Notifications
1.124.2 Available under license
1.125 junit 4.12
1.125.1 Available under license
1.126 mchange-commons-java 0.2.15
1.126.1 Available under license
1.127 jackson-databind 1.9.13
1.127.1 Available under license
1.128 chilay 2.0.1-SNAPSHOT
1.128.1 Available under license
1.129 asm-analysis 6.2.1
1.130 jcifs 1.3.18
1.131 neko-htmlunit 2.33
1.132 lucene-backward-codecs 5.5.5
1.132.1 Available under license
1.133 maven-project 2.2.1
1.133.1 Available under license
1.134 jakarta xml bind api 2.3.2
1.134.1 Available under license
1.135 jetty-xml 9.4.18.v20190429
1.135.1 Available under license
1.136 fluent-hc 4.5.7
1.137 animal-sniffer-annotation 1.14
1.138 jaxb-api 2.3.1
1.138.1 Available under license
1.139 xalan 2.7.2
1.139.1 Available under license
1.140 hibernate-entitymanager 5.2.16
1.141 spring-messaging 5.1.5

1.142 snake-yaml 1.23
1.143 grizzly-http-server 2.3.25
1.144 commons-io 2.5
1.144.1 Available under license
1.145 apache-httpclient 4.5.7
1.145.1 Available under license
1.146 hibernate-validator 6.0.14
1.146.1 Available under license
1.147 spring-security-config 5.1.4
1.148 xml-commons-resolver 1.2
1.148.1 Available under license
1.149 reactor-core 3.2.6
1.150 commons-net 3.5
1.150.1 Available under license
1.151 aspect-j 1.8.9
1.151.1 Available under license
1.152 xpp3-min 1.1.4c
1.152.1 Notifications
1.152.2 Available under license
1.153 bcel 2.7.2
1.153.1 Available under license
1.154 spring-hateoas 0.25.1
1.154.1 Available under license
1.155 classworlds 1.1-alpha-2
1.155.1 Available under license
1.156 jetty-io 9.4.18.v20190429
1.157 byte-buddy 1.9.10
1.158 annotations 2.0.1
1.158.1 Available under license
1.159 javax-websocket-api 1.1
1.159.1 Available under license
1.160 tyrus-core 1.13
1.161 jetty-util 9.4.18.v20190429
1.161.1 Available under license
1.162 springfoxswagger 2.2.2
1.163 cxf-tools-validator 3.3.1
1.164 httpcomponents-client 4.5.7
1.164.1 Available under license
1.165 istack-commons-tools 3.0.8

1.165.1 Available under license
1.166 querydsl-jpa 4.2.1
1.167 eclipse-compiler 3.9.1.v20130905 0837
1.167.1 Available under license
1.168 gson 2.8.5
1.169 maven-profile 2.2.1
1.169.1 Available under license
1.170 threetenabp 1.0.5
1.171 hibernate-search-orm 5.9.0
1.171.1 Available under license
1.172 prettytime 4.0.1
1.172.1 Available under license
1.173 javassist 3.22.0
1.173.1 Available under license
1.174 querydsl-core 4.2.1
1.175 lo-dash 4.17.11
1.175.1 Available under license
1.176 jackson-annotations 2.9.0
1.176.1 Available under license
1.177 commons-collections 4.1
1.177.1 Available under license
1.178 jradius-client 1.1.5
1.179 beanutils 1.6
1.179.1 Notifications
1.179.2 Available under license
1.180 bridge-method-annotation 1.13
1.181 ant 1.9.6
1.181.1 Available under license
1.182 tyrus-container-grizzly-client 1.13
1.183 python 3.6.5
1.183.1 Available under license
1.184 jradius-core 1.1.5
1.184.1 Available under license
1.185 spring-boot-autoconfigure 2.1.3
1.186 activation 1.1
1.186.1 Available under license
1.187 spring-retry 1.2.4
1.188 asm 5.0.4
1.188.1 Available under license

1.189 c3p0 0.9.1.1
1.189.1 Available under license
1.190 spring-expression 5.1.5
1.191 jackson-databind 2.9.8
1.191.1 Available under license
1.192 xml-apis 1.4.01
1.192.1 Available under license
1.193 bouncycastle-fips 1.60
1.193.1 Available under license
1.194 spring-orm 5.1.5
1.195 commons-http-client 3.1
1.196 log4j-over-slf4j 1.7.25
1.197 commons-text 1.2
1.197.1 Available under license
1.198 spring-security-crypto 5.1.4
1.199 spring-boot-starter-data-jpa 2.1.3
1.200 hibernate-search-engine 5.9.0
1.200.1 Available under license
1.201 websocket-common 9.4.18.v20190429
1.202 htmlunit-corejs 2.33
1.203 jcl-over-slf4j 1.7.25
1.204 flyway-core 5.2.4
1.205 websocket-api 9.4.18.v20190429
1.205.1 Available under license
1.206 commons-lang 2.4
1.207 txw2 2.3.1
1.208 springfox-spi 2.2.2
1.209 lucene-facet 5.5.5
1.209.1 Available under license
1.210 maven-reporting-impl 2.1
1.210.1 Available under license
1.211 jacksondatatypejdk 2.9.8
1.212 doxia-module-fml 1.1.2
1.212.1 Available under license
1.213 janino 3.0.6
1.214 javax-annotation-api 1.3.2
1.215 ecj 4.3.1
1.215.1 Available under license
1.216 core-module 1.2.3

1.217 jradius-extended 1.1.5
1.217.1 Available under license
1.218 spring-security-core 5.1.4
1.219 bootstrap 4.3.1
1.220 websocket-client 9.4.18.v20190429
1.221 jquery-ui 1.10.4
1.221.1 Available under license
1.222 doxia-decoration-model 1.1.2
1.222.1 Available under license
1.223 jna 4.5.0
1.223.1 Available under license
1.224 backport-util-concurrent 3.1
1.224.1 Available under license
1.225 dom4j 1.6.1
1.225.1 Available under license
1.226 commons-codec 1.10
1.226.1 Available under license
1.227 neethi 3.1.1
1.228 lucene-queries 5.5.5
1.228.1 Available under license
1.229 cxf-tools-common 3.3.1
1.229.1 Available under license
1.230 hamcrest 1.3
1.230.1 Available under license
1.231 spring-boot-starter-jdbc 2.1.3
1.232 jsch 0.1.50
1.232.1 Available under license
1.233 spring-boot-configuration-metadata 2.1.3
1.234 jackson 1.9.13
1.235 cxf-rt-databinding-jaxb 3.3.1
1.236 spring-web 5.1.5
1.237 tyrus-client 1.13
1.238 jaxb-core 2.3.0
1.239 hibernate 5.2.17
1.239.1 Available under license
1.240 servlet-api 4.0.1
1.240.1 Available under license
1.241 animal-sniffer-annotation 1.14
1.242 ftplet-api 1.1.1

1.242.1 Available under license
1.243 apache-cxf 3.3.1
1.243.1 Available under license
1.244 byte-buddy-dep 1.9.10
1.245 bzip2 1.0.6
1.245.1 Available under license
1.246 spring-plugin-core 1.2.0
1.247 apache-commons-logging 1.2
1.247.1 Available under license
1.248 commons-lang 3.4
1.248.1 Available under license
1.249 junit 4.12
1.249.1 Available under license
1.250 api-asn1-ber 1.0.0
1.250.1 Available under license
1.251 spring-beans 3.2.17
1.252 commons-beanutils 1.9.4
1.252.1 Available under license
1.253 jboss-transaction-api 1.0.1
1.254 istack-commons 3.0.8
1.254.1 Available under license
1.255 commons-beanutils 1.6
1.255.1 Available under license
1.256 dtd-parser 1.4.1
1.256.1 Available under license
1.257 javax-mail-api 1.6.2
1.257.1 Available under license
1.258 jcl-over-slf4j 1.7.25
1.259 commons-math 3.6.1
1.259.1 Available under license
1.260 logback-core 1.2.3
1.261 commons-pool 2.6.1
1.261.1 Available under license
1.262 ant 1.10.3
1.263 hikaricp-java7 2.4.13
1.264 spring-batch-infrastructure 4.1.2
1.265 maven-plugin-registry 2.2.1
1.265.1 Available under license
1.266 txw2 2.3.0

1.267 snake-yaml 1.12
1.267.1 Available under license
1.268 jetty-webapp 9.4.18.v20190429
1.268.1 Available under license
1.269 bridge-method-annotation 1.13
1.270 fast-infoset 1.2.15
1.271 antlr 2.7.7
1.271.1 Available under license
1.272 api-asn1-api 1.0.0
1.272.1 Available under license
1.273 zlib 1.2.5
1.273.1 Available under license
1.274 cxf-rt-bindings-soap 3.3.1
1.275 open-ssl 1.0.2p
1.275.1 Available under license
1.276 jacoco-maven-plugin 0.8.2
1.277 api-util 1.0.0
1.277.1 Available under license
1.278 javax-inject 1
1.278.1 Available under license
1.279 springfox-swagger-common 2.2.2
1.280 requirejs 2.3.6
1.280.1 Available under license
1.281 maven-artifact 2.2.1
1.281.1 Available under license
1.282 spring-boot-starter-aop 2.1.3
1.283 spring-context 5.1.5
1.284 jackson 2.9.8
1.284.1 Available under license
1.285 spring-batch-core 4.1.2
1.286 unix4j-base 0.4
1.287 jacoco-report 0.8.2
1.288 aspectj-tools 1.9.2
1.288.1 Available under license
1.289 snmp-4j 2.4.2
1.290 doxia-site-renderer 1.1.2
1.290.1 Available under license
1.291 cglib-nodep 2.2.2
1.292 jaxb-runtime 2.3.1

1.293 accessors-smart 1.2
1.294 joda-time 2.10.1
1.294.1 Available under license
1.295 diffutils 1.2
1.296 open-ssl 1.0.2o
1.296.1 Notifications
1.296.2 Available under license
1.297 json-smart 2.3
1.298 commons-lang 3.7
1.298.1 Available under license
1.299 spring-tx 5.1.5
1.300 xml-beans 3.1.0
1.300.1 Available under license
1.301 maven-plugin-api 2.2.1
1.301.1 Available under license
1.302 spring-boot 2.1.3
1.303 tyrus-spi 1.13
1.304 hibernate-commons-annotations 5.0.1
1.305 asm-tree 6.2.1
1.306 apache-ds-i18n 2.0.0
1.306.1 Available under license
1.307 junit 4.12
1.307.1 Available under license
1.308 stax-ex 1.8
1.309 handlebarsjs 4.0.12
1.310 maven-artifact-manager 2.2.1
1.310.1 Available under license
1.311 doxia-logging-api 1.1
1.312 lucene-misc 5.5.5
1.312.1 Available under license
1.313 cron-utils 6.0.1
1.314 woodstox-core 5.0.3
1.315 aspect-j 1.9.2
1.316 jetty-client 9.4.18.v20190429
1.317 jaxb-runtime 2.3.0
1.318 commons-csv 1.4
1.318.1 Available under license
1.319 hibernate 5.2.16
1.319.1 Available under license

1.320 tomcat-jdbc 9.0.16
1.321 transaction-api 1.1
1.321.1 Available under license
1.322 fast-infoset 1.2.15
1.323 maven-shared-io 1.1
1.324 plexus-velocity 1.1.7
1.325 mina 2.0.16
1.325.1 Available under license
1.326 stateless4j 2.5.0
1.327 commons-beanutils-core 1.7.0
1.327.1 Available under license
1.328 css-parser 1.2.0
1.329 wagon-provider-api 1.0-beta 6
1.329.1 Available under license
1.330 curvesapi 1.06
1.331 threetenbp 1.3.3
1.332 commons-validator 1.4.0
1.332.1 Available under license
1.333 querydsl-codegen 4.2.1
1.334 javax-transaction 1.1
1.335 jsdifflib 1.0
1.335.1 Available under license
1.336 jackson 2.10.0
1.336.1 Available under license
1.337 unix4j-command 0.4
1.338 spring-framework 3.2.17
1.338.1 Available under license
1.339 jna-platform 4.5.0
1.339.1 Available under license
1.340 super-csv 2.4.0
1.341 jaxb-core 2.3.0
1.342 istack-commons 3.0.5
1.342.1 Available under license
1.343 lucene 5.5.5
1.343.1 Available under license
1.344 orgjson 0.0.20131108.vaadin1
1.345 json-path 2.4.0
1.346 spring-boot-starter-jetty 2.1.3
1.347 spring-data-jpa 2.1.5

1.348 poi 4.1.0
1.348.1 Available under license
1.349 jquery-highlight 5
1.350 jaxb-api 2.3.1
1.350.1 Available under license
1.351 persistence-api 1.0.0
1.352 apache-commons-logging 1.1.1
1.352.1 Available under license
1.353 jul-to-slf4j 1.7.25
1.354 spring-aop 5.1.5
1.355 commons-db-cp 2.5.0
1.355.1 Available under license
1.356 tcl 8.6.6
1.356.1 Available under license
1.357 ftp-server 1.1.1
1.357.1 Available under license
1.358 gridstack 0.3.0
1.359 plexus-utils 3.0.22
1.359.1 Available under license
1.360 spring-boot-properties-migrator 2.1.3
1.361 lucene-queryparser 5.5.5
1.361.1 Available under license
1.362 zlib 1.2.8
1.362.1 Available under license
1.363 maven-artifact 3.6.0
1.363.1 Available under license
1.364 txw2 2.3.1
1.365 maven-repository-metadata 2.2.1
1.365.1 Available under license
1.366 apache-el 8.5.35.1
1.366.1 Available under license
1.367 reactive-streams 1.0.2
1.368 commons-exec 1.3
1.368.1 Available under license
1.369 jetty-continuation 9.4.18.v20190429
1.370 reflections 0.9.9
1.371 commons-chain 1.2
1.371.1 Available under license
1.372 spring-beans 5.1.5

1.373 spring-boot-starter-logging 2.1.3
1.374 quartz 2.3.1
1.375 lucene-analyzers-common 5.5.5
1.375.1 Available under license
1.376 cxf-rt-frontend-jaxws 3.3.1
1.377 threetenbp 1.3.6
1.378 spring-integration-core 5.1.3
1.379 spring-jdbc 5.1.5
1.380 cxf-rt-transports-http 3.3.1
1.381 activation 1.2.0
1.381.1 Available under license
1.382 ant-launcher 1.10.3
1.383 httpcomponents-mime 4.5.7
1.383.1 Available under license
1.384 jackson-datatype-hibernate 2.9.8
1.385 spring-data-commons 2.1.5
1.385.1 Available under license
1.386 cxf-rt-ws-addr 3.3.1
1.387 underscore-js 1.8.3
1.388 jdbc-starter 2.1.3
1.389 regexp 2.7.2
1.390 cglib 3.2.10
1.390.1 Available under license
1.391 annotation-indexer 2.0.3
1.391.1 Available under license
1.392 commons-lang 3.4
1.393 objectweb-asm 7.0
1.393.1 Available under license
1.394 jettison 1.2
1.394.1 Available under license
1.395 open-ssl 1.1.0i
1.395.1 Available under license
1.396 libjpeg 6b
1.396.1 Notifications
1.396.2 Available under license
1.397 codegen 0.6.8
1.398 easymock 3.1
1.398.1 Available under license
1.399 springfox-schema 2.2.2

1.400 spring-jcl 5.1.5
1.401 commons-pool 1.6
1.401.1 Available under license
1.402 jetty-security 9.4.18.v20190429
1.403 sqlite 3.7.16.2
1.403.1 Available under license
1.404 maven-reporting-api 2.2.1
1.404.1 Available under license
1.405 jlibmodbus 1.2.8.4
1.406 json-simple 1.1.1
1.407 stax 3.1.4
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1.408 swagger 1.5.3
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1.410 jackson-databind 2.10.0
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1.411 cxf-rt-wsdl 3.3.1
1.412 velocity 2.0
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1.418 json-java 20180130
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1.419 byte-buddy 1.9.10
1.420 codegen 0.6.8
1.421 commons-lang 2.3
1.421.1 Available under license
1.422 swagger-ui 3.24.0
1.423 tomcat-juli 9.0.16
1.424 plexus-container-default 1.0-alpha-9-stable-1

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1.425 mysema-commons-lang 0.2.4
1.426 maven-settings 2.2.1
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1.1 jetty-servlets 9.4.18.v20190429

1.2 cxf-tools-wsdlto-frontend-jaxws 3.3.1

1.3 spring-plugin-metadata 1.2.0

1.4 hikaricp 3.2.0

1.5 log4j-api 2.11.2

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```
/*
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any modifications will be overwritten.
==============================================================
*/

package org.apache.maven.model;

/**
* Describes the licenses for this project. This is used to
* generate the license
*         page of the project's web site, as well as being taken
* into consideration in other reporting
*         and validation. The licenses listed for the project are
* that of the project itself, and not
*         of dependencies.
*
* @version $Revision$ $Date$
*/
public class License
  implements java.io.Serializable
{

    //--------------------------/
   //- Class/Member Variables -/
  //--------------------------/

  /**
   * The full legal name of the license.
   */
  private String name;

  /**
```

```
 * The official url for the license text.
 */
private String url;

/**
 *
 *
 *            The primary method by which this project may be
 * distributed.
 *            <dl>
 *              <dt>repo</dt>
 *              <dd>may be downloaded from the Maven
 * repository</dd>
 *              <dt>manual</dt>
 *              <dd>user must manually download and install
 * the dependency.</dd>
 *            </dl>
 *
 *
 */
private String distribution;

/**
 * Addendum information pertaining to this license.
 */
private String comments;


  //-----------/
 //- Methods -/
//-----------/

/**
 * Get addendum information pertaining to this license.
 *
 * @return String
 */
public String getComments()
{
   return this.comments;
} //-- String getComments()

/**
 * Get the primary method by which this project may be
 * distributed.
 *            <dl>
 *              <dt>repo</dt>
 *              <dd>may be downloaded from the Maven
```

```
 * repository</dd>
 *             <dt>manual</dt>
 *             <dd>user must manually download and install
 * the dependency.</dd>
 *           </dl>
 *
 * @return String
 */
public String getDistribution()
{
   return this.distribution;
} //-- String getDistribution()

/**
 * Get the full legal name of the license.
 *
 * @return String
 */
public String getName()
{
   return this.name;
} //-- String getName()

/**
 * Get the official url for the license text.
 *
 * @return String
 */
public String getUrl()
{
   return this.url;
} //-- String getUrl()

/**
 * Set addendum information pertaining to this license.
 *
 * @param comments
 */
public void setComments( String comments )
{
   this.comments = comments;
} //-- void setComments( String )

/**
 * Set the primary method by which this project may be
 * distributed.
 *           <dl>
 *             <dt>repo</dt>
```

```
     *             <dd>may be downloaded from the Maven
     * repository</dd>
     *             <dt>manual</dt>
     *             <dd>user must manually download and install
     * the dependency.</dd>
     *           </dl>
     *
     * @param distribution
     */
    public void setDistribution( String distribution )
    {
        this.distribution = distribution;
    } //-- void setDistribution( String )

    /**
     * Set the full legal name of the license.
     *
     * @param name
     */
    public void setName( String name )
    {
        this.name = name;
    } //-- void setName( String )

    /**
     * Set the official url for the license text.
     *
     * @param url
     */
    public void setUrl( String url )
    {
        this.url = url;
    } //-- void setUrl( String )


}
/*
==================== DO NOT EDIT THIS FILE ====================
Generated by Modello 1.0.1 on 2009-08-06 15:13:09,
any modifications will be overwritten.
===============================================================
*/

package org.apache.maven.model;

/**
* Description of a person who has contributed to the project, but
* who does not have
```

```
*        commit privileges. Usually, these contributions come in
* the form of patches submitted.
*
* @version $Revision$ $Date$
*/
public class Contributor
  implements java.io.Serializable
{

    //-------------------------/
   //- Class/Member Variables -/
  //-------------------------/

  /**
   * The full name of the contributor.
   */
  private String name;

  /**
   * The email address of the contributor.
   */
  private String email;

  /**
   * The URL for the homepage of the contributor.
   */
  private String url;

  /**
   * The organization to which the contributor belongs.
   */
  private String organization;

  /**
   * The URL of the organization.
   */
  private String organizationUrl;

  /**
   * Field roles.
   */
  private java.util.List<String> roles;

  /**
   * The timezone the contributor is in. This is a number in the
   * range -11 to 12.
   */
  private String timezone;
```

```
  /**
   * Field properties.
   */
  private java.util.Properties properties;


    //-----------/
   //- Methods -/
  //-----------/

  /**
   * Method addProperty.
   *
   * @param key
   * @param value
   */
  public void addProperty( String key, String value )
  {
      getProperties().put( key, value );
  } //-- void addProperty( String, String )

  /**
   * Method addRole.
   *
   * @param string
   */
  public void addRole( String string )
  {
      if ( !(string instanceof String) )
      {
          throw new ClassCastException( "Contributor.addRoles(string) parameter must be instanceof " +
String.class.getName() );
      }
      getRoles().add( string );
  } //-- void addRole( String )

  /**
   * Get the email address of the contributor.
   *
   * @return String
   */
  public String getEmail()
  {
      return this.email;
  } //-- String getEmail()

  /**
```

```
     * Get the full name of the contributor.
     *
     * @return String
     */
    public String getName()
    {
        return this.name;
    } //-- String getName()

    /**
     * Get the organization to which the contributor belongs.
     *
     * @return String
     */
    public String getOrganization()
    {
        return this.organization;
    } //-- String getOrganization()

    /**
     * Get the URL of the organization.
     *
     * @return String
     */
    public String getOrganizationUrl()
    {
        return this.organizationUrl;
    } //-- String getOrganizationUrl()

    /**
     * Method getProperties.
     *
     * @return Properties
     */
    public java.util.Properties getProperties()
    {
        if ( this.properties == null )
        {
            this.properties = new java.util.Properties();
        }

        return this.properties;
    } //-- java.util.Properties getProperties()

    /**
     * Method getRoles.
     *
     * @return List
```

```
     */
    public java.util.List<String> getRoles()
    {
        if ( this.roles == null )
        {
            this.roles = new java.util.ArrayList<String>();
        }

        return this.roles;
    } //-- java.util.List<String> getRoles()

    /**
     * Get the timezone the contributor is in. This is a number in
     * the range -11 to 12.
     *
     * @return String
     */
    public String getTimezone()
    {
        return this.timezone;
    } //-- String getTimezone()

    /**
     * Get the URL for the homepage of the contributor.
     *
     * @return String
     */
    public String getUrl()
    {
        return this.url;
    } //-- String getUrl()

    /**
     * Method removeRole.
     *
     * @param string
     */
    public void removeRole( String string )
    {
        if ( !(string instanceof String) )
        {
            throw new ClassCastException( "Contributor.removeRoles(string) parameter must be instanceof " +
String.class.getName() );
        }
        getRoles().remove( string );
    } //-- void removeRole( String )

    /**
```

```
     * Set the email address of the contributor.
     *
     * @param email
     */
    public void setEmail( String email )
    {
        this.email = email;
    } //-- void setEmail( String )

    /**
     * Set the full name of the contributor.
     *
     * @param name
     */
    public void setName( String name )
    {
        this.name = name;
    } //-- void setName( String )

    /**
     * Set the organization to which the contributor belongs.
     *
     * @param organization
     */
    public void setOrganization( String organization )
    {
        this.organization = organization;
    } //-- void setOrganization( String )

    /**
     * Set the URL of the organization.
     *
     * @param organizationUrl
     */
    public void setOrganizationUrl( String organizationUrl )
    {
        this.organizationUrl = organizationUrl;
    } //-- void setOrganizationUrl( String )

    /**
     * Set properties about the contributor, such as an instant
     * messenger handle.
     *
     * @param properties
     */
    public void setProperties( java.util.Properties properties )
    {
        this.properties = properties;
```

```
    } //-- void setProperties( java.util.Properties )

    /**
     * Set the roles the contributor plays in the project. Each
     * role is described by a
     *             <code>role</code> element, the body of which is
     * a role name. This can also be used to
     *             describe the contribution.
     *
     * @param roles
     */
    public void setRoles( java.util.List<String> roles )
    {
        this.roles = roles;
    } //-- void setRoles( java.util.List )

    /**
     * Set the timezone the contributor is in. This is a number in
     * the range -11 to 12.
     *
     * @param timezone
     */
    public void setTimezone( String timezone )
    {
        this.timezone = timezone;
    } //-- void setTimezone( String )

    /**
     * Set the URL for the homepage of the contributor.
     *
     * @param url
     */
    public void setUrl( String url )
    {
        this.url = url;
    } //-- void setUrl( String )


}
```

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1.13 jetty-http 9.4.18.v20190429

1.14 javax-transaction 1.3

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*/

1.25 ehcache 2.4.0

1.26 doxia-core 1.1.2

1.27 spring-security-web 5.1.4

1.28 client 1.0.0 beta.2

1.29 ant-launcher 1.9.6

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1.30 codemodel 2.3.2

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1.35 hibernate-types-52 2.2.0

1.36 api-i18n 1.0.0

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src/main/misc/overloadedNumberRules/prices.ods
src/manual/en_US/docgen-originals/figures/overview.odg
src/manual/en_US/docgen-originals/figures/model2sketch_with_alpha.png
src/manual/en_US/docgen-originals/figures/tree_with_alpha.png
src/manual/en_US/favicon.png
src/manual/en_US/figures/model2sketch.png
src/manual/en_US/figures/overview.png
src/manual/en_US/figures/tree.png
src/manual/en_US/logo.png
src/manual/zh_CN/favicon.png
src/manual/zh_CN/figures/model2sketch.png
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1.39 spring-framework 5.1.5

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1.40 bcpkix-jdk15on 1.60

1.41 slf4j 1.7.25

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 "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

 <html xmlns="http://www.w3.org/1999/xhtml">
  <head>
    <meta http-equiv="content-type" content="text/html; charset=iso-8859-1" />
    <title>SLF4J License</title>
    <link rel="stylesheet" type="text/css" media="screen" href="css/site.css" />
  </head>
  <body>
    <script type="text/javascript">prefix='';</script>

    <script src="templates/header.js" type="text/javascript"></script>
    <div id="left">
      <script src="templates/left.js" type="text/javascript"></script>
    </div>
```

<script src="templates/right.js" type="text/javascript"></script>

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</body>
</html>
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1.42 gstreamer 0.10.35

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     `888'     `8' `888   `Y88.  `8888    d8'
      888       8   888   .d88'    Y888..8P
      888       8   888ooo88P'      `8888'
      888       8   888             .8PY888.
      `88.    .8'   888           d8'  `888b
```

```
                `YbodP'    o888o        o888o  o88888o
```

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>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>> [incr Tcl] <<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<

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1.48 grizzly-framework 2.3.25

1.49 log4j-to-slf4j 2.11.2

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1.51 classmate 1.4.0

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Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

* Brian Langel
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1.52 oshi-core 3.4.4

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*/
/**
* [oshi-core API] Provides a cross-platform implementation to retrieve
* Operating System and Hardware Information, such as OS version, memory, CPU,
* disk, devices, sensors, etc.
*/
package oshi;
```

1.53 jboss-logging 3.3.2

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1.54 datatype 1.4.01

1.55 j2objc-annotations 1.1

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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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From strings/apr_snprintf.c:

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* cvt - IEEE floating point formatting routines.
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****
* file name: UBiDiProps.java
* encoding: US-ASCII
* tab size: 8 (not used)
* indentation:4
*
* created on: 2005jan16
* created by: Markus W. Scherer
*
* Low-level Unicode bidi/shaping properties access.
* Java port of ubidi_props.h/.c.

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<code>Replaceable</code> is an interface representing a
string of characters that supports the replacement of a range of
itself with a new string of characters. It is used by APIs that
change a piece of text while retaining metadata. Metadata is data
other than the Unicode characters returned by char32At(). One
example of metadata is style attributes; another is an edit
history, marking each character with an author and revision number.

<p>An implicit aspect of the <code>Replaceable</code> API is that
during a replace operation, new characters take on the metadata of
the old characters. For example, if the string "the bold
font" has range (4, 8) replaced with "strong", then it becomes "the
strong font".

<p><code>Replaceable</code> specifies ranges using a start
offset and a limit offset. The range of characters thus specified
includes the characters at offset start..limit-1. That is, the
start offset is inclusive, and the limit offset is exclusive.

<p><code>Replaceable</code> also includes API to access characters
in the string: <code>length()</code>, <code>charAt()</code>,
<code>char32At()</code>, and <code>extractBetween()</code>.

<p>For a subclass to support metadata, typical behavior of
<code>replace()</code> is the following:

 Set the metadata of the new text to the metadata of the first
 character replaced
 If no characters are replaced, use the metadata of the
 previous character
 If there is no previous character (i.e. start == 0), use the
 following character
 If there is no following character (i.e. the replaceable was
 empty), use default metadata
 If the code point U+FFFF is seen, it should be interpreted as
 a special marker having no metadata

If this is not the behavior, the subclass should document any differences.

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@author Alan Liu
@stable ICU 2.0

<code>ReplaceableString</code> is an adapter class that implements the
<code>Replaceable</code> API around an ordinary <code>StringBuffer</code>.

<p>Note: This class does not support attributes and is not
intended for general use. Most clients will need to implement
{@link Replaceable} in their text representation class.

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@see Replaceable
@author Alan Liu
@stable ICU 2.0

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*/

package java.security;

import java.io.Serializable;

/**
* Legacy security code; do not use.
*/
public abstract class Permission implements Guard, Serializable {
  public Permission(String name) { }

  public final String getName() { return null; }

  public void checkGuard(Object obj) throws SecurityException { }

  public PermissionCollection newPermissionCollection() {
     return new AllPermissionCollection();
  }

  public abstract String getActions();

  public abstract boolean implies(Permission permission);
}
```

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1.57 error-prone-annotations 2.1.3

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  <option name="allowReplaceKeyword" value="" />
  <option name="myName" value="Google" />
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 </copyright>
</component>

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1.60 xstream 1.4.11.1

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1.76 commons-codec 1.10

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1.86 doxia-sink-api 1.1

1.87 asm 7.0

1.88 commons-lang 2.6

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1.89 jquery 3.4.0

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xwd v1.0.7

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*/

package java.security.acl;

/**
* This interface represents a permission, such as that used to grant
* a particular type of access to a resource.
*
* @author Satish Dharmaraj
* @since 1.1
*

```
* @deprecated This class is deprecated and subject to removal in a future
*     version of Java SE. It has been replaced by {@code java.security.Policy}
*     and related classes since 1.2.
*/
@Deprecated(since="9", forRemoval=true)
public interface Permission {

  /**
   * Returns true if the object passed matches the permission represented
   * in this interface.
   *
   * @param another the Permission object to compare with.
   *
   * @return true if the Permission objects are equal, false otherwise
   */
  public boolean equals(Object another);

  /**
   * Prints a string representation of this permission.
   *
   * @return the string representation of the permission.
   */
  public String toString();

}
```

jQuery v3.4.1

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DOM Level 3 Core Specification v1.0

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## Thai Dictionary

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*/

package java.security;

/**
* Abstract class for representing access to a system resource.
* All permissions have a name (whose interpretation depends on the subclass),
* as well as abstract functions for defining the semantics of the
* particular Permission subclass.
*
* <p>Most Permission objects also include an "actions" list that tells the actions
* that are permitted for the object.  For example,
* for a {@code java.io.FilePermission} object, the permission name is
* the pathname of a file (or directory), and the actions list
* (such as "read, write") specifies which actions are granted for the
* specified file (or for files in the specified directory).
* The actions list is optional for Permission objects, such as
* {@code java.lang.RuntimePermission},
* that don't need such a list; you either have the named permission (such
* as "system.exit") or you don't.
*
* <p>An important method that must be implemented by each subclass is
* the {@code implies} method to compare Permissions. Basically,
* "permission p1 implies permission p2" means that
* if one is granted permission p1, one is naturally granted permission p2.
* Thus, this is not an equality test, but rather more of a
* subset test.
*
* <P> Permission objects are similar to String objects in that they
* are immutable once they have been created. Subclasses should not
* provide methods that can change the state of a permission
* once it has been created.
*
* @see Permissions
* @see PermissionCollection
*
*
* @author Marianne Mueller
* @author Roland Schemers
* @since 1.2
```

```
*/

public abstract class Permission implements Guard, java.io.Serializable {

  private static final long serialVersionUID = -5636570222231596674L;

  private String name;

  /**
   * Constructs a permission with the specified name.
   *
   * @param name name of the Permission object being created.
   *
   */

  public Permission(String name) {
     this.name = name;
  }

  /**
   * Implements the guard interface for a permission. The
   * {@code SecurityManager.checkPermission} method is called,
   * passing this permission object as the permission to check.
   * Returns silently if access is granted. Otherwise, throws
   * a SecurityException.
   *
   * @param object the object being guarded (currently ignored).
   *
   * @throws SecurityException
   *         if a security manager exists and its
   *         {@code checkPermission} method doesn't allow access.
   *
   * @see Guard
   * @see GuardedObject
   * @see SecurityManager#checkPermission
   *
   */
  public void checkGuard(Object object) throws SecurityException {
     SecurityManager sm = System.getSecurityManager();
     if (sm != null) sm.checkPermission(this);
  }

  /**
   * Checks if the specified permission's actions are "implied by"
   * this object's actions.
   * <P>
   * This must be implemented by subclasses of Permission, as they are the
   * only ones that can impose semantics on a Permission object.
```

```
 *
 * <p>The {@code implies} method is used by the AccessController to determine
 * whether or not a requested permission is implied by another permission that
 * is known to be valid in the current execution context.
 *
 * @param permission the permission to check against.
 *
 * @return true if the specified permission is implied by this object,
 * false if not.
 */

public abstract boolean implies(Permission permission);

/**
 * Checks two Permission objects for equality.
 * <P>
 * Do not use the {@code equals} method for making access control
 * decisions; use the {@code implies} method.
 *
 * @param obj the object we are testing for equality with this object.
 *
 * @return true if both Permission objects are equivalent.
 */

public abstract boolean equals(Object obj);

/**
 * Returns the hash code value for this Permission object.
 * <P>
 * The required {@code hashCode} behavior for Permission Objects is
 * the following:
 * <ul>
 * <li>Whenever it is invoked on the same Permission object more than
 *     once during an execution of a Java application, the
 *     {@code hashCode} method
 *     must consistently return the same integer. This integer need not
 *     remain consistent from one execution of an application to another
 *     execution of the same application.
 * <li>If two Permission objects are equal according to the
 *     {@code equals}
 *     method, then calling the {@code hashCode} method on each of the
 *     two Permission objects must produce the same integer result.
 * </ul>
 *
 * @return a hash code value for this object.
 */

public abstract int hashCode();
```

```
/**
 * Returns the name of this Permission.
 * For example, in the case of a {@code java.io.FilePermission},
 * the name will be a pathname.
 *
 * @return the name of this Permission.
 *
 */

public final String getName() {
   return name;
}

/**
 * Returns the actions as a String. This is abstract
 * so subclasses can defer creating a String representation until
 * one is needed. Subclasses should always return actions in what they
 * consider to be their
 * canonical form. For example, two FilePermission objects created via
 * the following:
 *
 * <pre>
 *   perm1 = new FilePermission(p1,"read,write");
 *   perm2 = new FilePermission(p2,"write,read");
 * </pre>
 *
 * both return
 * "read,write" when the {@code getActions} method is invoked.
 *
 * @return the actions of this Permission.
 *
 */

public abstract String getActions();

/**
 * Returns an empty PermissionCollection for a given Permission object, or null if
 * one is not defined. Subclasses of class Permission should
 * override this if they need to store their permissions in a particular
 * PermissionCollection object in order to provide the correct semantics
 * when the {@code PermissionCollection.implies} method is called.
 * If null is returned,
 * then the caller of this method is free to store permissions of this
 * type in any PermissionCollection they choose (one that uses a Hashtable,
 * one that uses a Vector, etc).
 *
 * @return a new PermissionCollection object for this type of Permission, or
```

```
   * null if one is not defined.
   */

  public PermissionCollection newPermissionCollection() {
     return null;
  }

  /**
   * Returns a string describing this Permission.  The convention is to
   * specify the class name, the permission name, and the actions in
   * the following format: '("ClassName" "name" "actions")', or
   * '("ClassName" "name")' if actions list is null or empty.
   *
   * @return information about this Permission.
   */
  public String toString() {
     String actions = getActions();
     if (actions == null || actions.isEmpty()) { // OPTIONAL
        return "(\"" + getClass().getName() + "\" \"" + name + "\")";
     } else {
        return "(\"" + getClass().getName() + "\" \"" + name +
            "\" \"" + actions + "\")";
     }
  }
}
```

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1.92 plexus-interpolation 1.11

1.93 jackson-module-parameter-names 2.9.8

1.94 spring-aspects 5.1.5

1.95 open-ssl 1.0.2k

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1.96 poi-ooxml-schemas 4.1.0

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1.102 curl 7.58.0

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==============

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the other libraries use and what possible dilemmas linking and mixing them all

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1.103 xmlschema 2.2.4

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1.105 wsdl4j 1.6.3

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1.106 ant-jsch 1.9.6

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1.107 hikaricp-java7 2.4.13

1.108 apache-servicemix-bundles-antlr 2.7.7_5

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1.109 spring-web-mvc 5.1.5

1.110 httpcomponents-core 4.4.11

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1.111 jsr305 1.3.9

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1.113 mysema-commons-lang 0.2.4

1.114 springfox-spring-web 2.2.2

1.115 jaxb-runtime 2.3.1

1.116 checker-qual 2.0.0

1.116.1 Available under license :

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1.117 zlib 1.2.3

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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1.118 cxf-rt-ws-policy 3.3.1

1.119 commons-beanutils 1.9.4

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1.120 swagger-annotations 1.5.3

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*/

package io.swagger.annotations;

import java.lang.annotation.ElementType;
import java.lang.annotation.Retention;
import java.lang.annotation.RetentionPolicy;
import java.lang.annotation.Target;

/**
* License metadata available within the info section of a Swagger definition, see
* https://github.com/swagger-api/swagger-spec/blob/master/versions/2.0.md#licenseObject
*
* @since 1.5.0
*/

@Target(ElementType.ANNOTATION_TYPE)
@Retention(RetentionPolicy.RUNTIME)
public @interface License {
```

```
    /**
     * The name of the license.
     *
     * @return the name of the license
     */
    String name();

    /**
     * An optional URL for the license.
     *
     * @return an optional URL for the license.
     */
    String url() default "";
}
```

1.121 mapstruct 1.0.0.CR1

1.122 querydsl-apt 4.2.1

1.123 commons-collections 3.2.2

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1.124 oro 2.0.8

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1.125 junit 4.12

1.125.1 Available under license :

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1.126 mchange-commons-java 0.2.15

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1.127 jackson-databind 1.9.13

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1.128 chilay 2.0.1-SNAPSHOT

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<meta name="octolytics-host" content="collector.githubapp.com" /><meta name="octolytics-app-id" content="github" /><meta name="octolytics-event-url" content="https://collector.githubapp.com/github-external/browser_event" /><meta name="octolytics-dimension-request_id" content="E328:68CC:1475AC2:1CA2E1A:5DF0C511" /><meta name="octolytics-dimension-region_edge" content="ap-south-1" /><meta name="octolytics-dimension-region_render" content="iad" /><meta name="octolytics-dimension-ga_id" content="" class="js-octo-ga-id" /><meta name="octolytics-dimension-visitor_id" content="2509806455008330085" />

<meta name="analytics-location" content="/<user-name>/<repo-name>/blob/show" data-pjax-transient="true" />

<meta name="google-analytics" content="UA-3769691-2">

<meta class="js-ga-set" name="dimension1" content="Logged Out">

<meta name="hostname" content="github.com">
<meta name="user-login" content="">

<meta name="expected-hostname" content="github.com">

<meta name="js-proxy-site-detection-payload" content="MzIyYTdiMjcxZjEyZjQ0YTM4NjRhZWRhNzM5N2M1MTI1MDRiNDk3YTk5MjhjYjk0OWUyYTgzMzY4MDdmZGViYXx7InJlbW90ZV9hZGRyZXNzIjoiNzIuMTYzLjIyMC4xNiIsInJlcXVlc3RfaWQiOiJFMzI4OjY4Q0M6MTQ3NUFDMjoxQ0EyRTFBOjVERjBDNTExIiwidGltZXN0YW1wIjoxNTc2MDYwMTgwLCJob3N0IjoiZ2l0aHViLmNvbSJ9">

<meta name="enabled-features" content="MARKETPLACE_FEATURED_BLOG_POSTS,MARKETPLACE_INVOICED_BILLING,MARKETPLACE_SOCIAL_PROOF_CUSTOMERS,MARKETPLACE_TRENDING_SOCIAL_PROOF,MARKETPLACE_RECOMMENDATIONS,MARKETPLACE_PENDING_INSTALLATIONS">

<meta name="html-safe-nonce" content="6d53f5a4ef9231a609a527b2ce6adaa73f7dee6a">

<meta http-equiv="x-pjax-version" content="c75b47f31a9b8aa232a84779d7d6d113">

<link href="https://github.com/iVis-at-Bilkent/chilay/commits/master.atom" rel="alternate" title="Recent Commits to chilay:master" type="application/atom+xml">

<meta name="go-import" content="github.com/iVis-at-Bilkent/chilay git https://github.com/iVis-at-Bilkent/chilay.git">

<meta name="octolytics-dimension-user_id" content="12432664" /><meta name="octolytics-dimension-user_login" content="iVis-at-Bilkent" /><meta name="octolytics-dimension-repository_id" content="35614280" /><meta name="octolytics-dimension-repository_nwo" content="iVis-at-Bilkent/chilay" /><meta name="octolytics-dimension-repository_public" content="true" /><meta name="octolytics-dimension-repository_is_fork" content="false" /><meta name="octolytics-dimension-repository_network_root_id" content="35614280" /><meta name="octolytics-dimension-repository_network_root_nwo" content="iVis-at-Bilkent/chilay" /><meta

name="octolytics-dimension-repository_explore_github_marketplace_ci_cta_shown" content="false" />

<link rel="canonical" href="https://github.com/iVis-at-Bilkent/chilay/blob/master/LICENSE.md" data-pjax-transient>

<meta name="browser-stats-url" content="https://api.github.com/_private/browser/stats">

<meta name="browser-errors-url" content="https://api.github.com/_private/browser/errors">

<link rel="mask-icon" href="https://github.githubassets.com/pinned-octocat.svg" color="#000000">
<link rel="icon" type="image/x-icon" class="js-site-favicon" href="https://github.githubassets.com/favicon.ico">

<meta name="theme-color" content="#1e2327">

<link rel="manifest" href="/manifest.json" crossOrigin="use-credentials">

</head>

<body class="logged-out env-production emoji-size-boost page-responsive page-blob">

Skip to content

<header class="Header-old header-logged-out js-details-container Details position-relative f4 py-2" role="banner">

<svg height="32" class="octicon octicon-mark-github text-white" viewBox="0 0 16 16" version="1.1" width="32" aria-hidden="true"><path fill-rule="evenodd" d="M8 0C3.58 0 0 3.58 0 8c0 3.54 2.29 6.53 5.47 7.59.4.07.55-.17.55-.38 0-.19-.01-.82-.01-1.49-2.01.37-2.53-.49-2.69-.94-.09-.23-.48-.94-.82-1.13-.28-.15-.68-.52-

.01-.53.63-.01 1.08.58 1.23.82.72 1.21 1.87.87 2.33.66.07-.52.28-.87.51-1.07-1.78-.2-3.64-.89-3.64-3.95 0-.87.31-1.59.82-2.15-.08-.2-.36-1.02.08-2.12 0 0 .67-.21 2.2.82.64-.18 1.32-.27 2-.27.68 0 1.36.09 2 .27 1.53-1.04 2.2-.82 2.2-.82.44 1.1.16 1.92.08 2.12.51.56.82 1.27.82 2.15 0 3.07-1.87 3.75-3.65 3.95.29.25.54.73.54 1.48 0 1.07-.01 1.93-.01 2.2 0 .21.15.46.55.38A8.013 8.013 0 0016 8c0-4.42-3.58-8-8-8z"/></svg>

<svg class="octicon octicon-repo" viewBox="0 0 12 16" version="1.1" width="12" height="16" aria-hidden="true"><path fill-rule="evenodd" d="M4 9H3V8h1v1zm0-3H3v1h1V6zm0-2H3v1h1V4zm0-2H3v1h1V2zm8-1v12c0 .55-.45 1-1 1H6v2l-1.5-1.5L3 16v-2H1c-.55 0-1-.45-1-1V1c0-.55.45-1 1-1h10c.55 0 1 .45 1 1zm-1 10H1v2h2v-1h3v1h5v-2zm0-10H2v9h9V1z"/></svg>
iVis-at-Bilkent
/
chilay

<a href="/join?source=header-repo"
class="d-inline-block d-lg-none f5 text-white no-underline border border-gray-dark rounded-2 px-2 py-1 mr-3 mr-sm-5"
data-hydro-click="{"event_type":"authentication.click","payload":{"location_in_page":"site header","repository_id":null,"auth_type":"SIGN_UP","client_id":"584359852.1572929893","originating_request_id":"E328:68CC:1475AC2:1CA2E1A:5DF0C511","originating_url":"https://github.com/iVis-at-Bilkent/chilay/blob/master/LICENSE.md","referrer":"https://github.com/iVis-at-Bilkent/chilay","user_id":null}}" data-hydro-click-hmac="e2808c72f16ddd7b48d0b605d13ec5996f4f3594d4e7e1e77fbc302f128a9717"
data-ga-click="(Logged out) Header, clicked Sign up, text:sign-up">
Sign up

<button class="btn-link d-lg-none mt-1 js-details-target" type="button" aria-label="Toggle navigation" aria-expanded="false">
<svg height="24" class="octicon octicon-three-bars text-white" viewBox="0 0 12 16" version="1.1" width="18" aria-hidden="true"><path fill-rule="evenodd" d="M11.41 9H.59C0 9 0 8.59 0 8c0-.59 0-1 .59-1H11.4c.59 0 .59.41.59 1 0 .59 0 1-.59 1h.01zm0-4H.59C0 5 0 4.59 0 4c0-.59 0-1 .59-1H11.4c.59 0 .59.41.59 1 0 .59 0 1-.59 1h.01zM.59 11H11.4c.59 0 .59.41.59 1 0 .59 0 1-.59 1H.59C0 13 0 12.59 0 12c0-.59 0-1 .59-1z"/></svg>
</button>

<div class="HeaderMenu HeaderMenu--logged-out position-fixed top-0 right-0 bottom-0 height-fit position-lg-

relative d-lg-flex flex-justify-between flex-items-center flex-auto">

<button class="btn-link js-details-target" type="button" aria-label="Toggle navigation" aria-expanded="false">
<svg height="24" class="octicon octicon-x text-gray" viewBox="0 0 12 16" version="1.1" width="18" aria-hidden="true"><path fill-rule="evenodd" d="M7.48 8l3.75 3.75-1.48 1.48L6 9.48l-3.75 3.75-1.48-1.48L4.52 8 .77 4.25l1.48-1.48L6 6.52l3.75-3.75 1.48 1.48L7.48 8z"/></svg>
</button>

<nav class="mt-0 px-3 px-lg-0 mb-5 mb-lg-0" aria-label="Global">
<ul class="d-lg-flex list-style-none">
<li class="d-block d-lg-flex flex-lg-nowrap flex-lg-items-center border-bottom border-lg-bottom-0 mr-0 mr-lg-3 edge-item-fix position-relative flex-wrap flex-justify-between d-flex flex-items-center ">
<details class="HeaderMenu-details details-overlay details-reset width-full">
<summary class="HeaderMenu-summary HeaderMenu-link px-0 py-3 border-0 no-wrap d-block d-lg-inline-block">
Why GitHub?
<svg x="0px" y="0px" viewBox="0 0 14 8" xml:space="preserve" fill="none" class="icon-chevon-down-mktg position-absolute position-lg-relative">
<path d="M1,1l6.2,6L13,1"></path>
</svg>
</summary>

Features →
<ul class="list-style-none f5 pb-3">
<li class="edge-item-fix">Code review
<li class="edge-item-fix">Project management
<li class="edge-item-fix">Integrations
<li class="edge-item-fix">Actions
<li class="edge-item-fix">Packages
<li class="edge-item-fix">Security
<li class="edge-item-fix">Team management
<li class="edge-item-fix">Hosting

<ul class="list-style-none mb-0 border-lg-top pt-lg-3">
<li class="edge-item-fix">Customer stories →
<li class="edge-item-fix">Security →

</details>

<li class="border-bottom border-lg-bottom-0 mr-0 mr-lg-3">
Enterprise

<li class="d-block d-lg-flex flex-lg-nowrap flex-lg-items-center border-bottom border-lg-bottom-0 mr-0 mr-lg-3 edge-item-fix position-relative flex-wrap flex-justify-between d-flex flex-items-center ">
<details class="HeaderMenu-details details-overlay details-reset width-full">
<summary class="HeaderMenu-summary HeaderMenu-link px-0 py-3 border-0 no-wrap d-block d-lg-inline-block">
Explore
<svg x="0px" y="0px" viewBox="0 0 14 8" xml:space="preserve" fill="none" class="icon-chevon-down-mktg position-absolute position-lg-relative">
<path d="M1,1l6.2,6L13,1"></path>
</svg>
</summary>

<ul class="list-style-none mb-3">
<li class="edge-item-fix">Explore GitHub →

<h4 class="text-gray-light text-normal text-mono f5 mb-2 border-lg-top pt-lg-3">Learn & contribute</h4>
<ul class="list-style-none mb-3">
<li class="edge-item-fix">Topics
<li class="edge-item-fix">Collections
<li class="edge-item-fix">Trending
<li class="edge-item-fix">Learning Lab

<li class="edge-item-fix">Open source guides

<h4 class="text-gray-light text-normal text-mono f5 mb-2 border-lg-top pt-lg-3">Connect with others</h4>
<ul class="list-style-none mb-0">
<li class="edge-item-fix">Events
<li class="edge-item-fix">Community forum
<li class="edge-item-fix">GitHub Education

</details>

<li class="border-bottom border-lg-bottom-0 mr-0 mr-lg-3">
Marketplace

<li class="d-block d-lg-flex flex-lg-nowrap flex-lg-items-center border-bottom border-lg-bottom-0 mr-0 mr-lg-3 edge-item-fix position-relative flex-wrap flex-justify-between d-flex flex-items-center ">
<details class="HeaderMenu-details details-overlay details-reset width-full">
<summary class="HeaderMenu-summary HeaderMenu-link px-0 py-3 border-0 no-wrap d-block d-lg-inline-block">
Pricing
<svg x="0px" y="0px" viewBox="0 0 14 8" xml:space="preserve" fill="none" class="icon-chevon-down-mktg position-absolute position-lg-relative">
<path d="M1,1l6.2,6L13,1"></path>
</svg>
</summary>

Plans →

<ul class="list-style-none mb-3">
<li class="edge-item-fix">Compare plans

<li class="edge-item-fix">Contact Sales

<ul class="list-style-none mb-0 border-lg-top pt-lg-3">
<li class="edge-item-fix">Nonprofit →
<li class="edge-item-fix">Education →

</details>

</nav>

<div class="header-search flex-self-stretch flex-lg-self-auto mr-0 mr-lg-3 mb-3 mb-lg-0 scoped-search site-scoped-search js-site-search position-relative js-jump-to"
role="combobox"
aria-owns="jump-to-results"
aria-label="Search or jump to"
aria-haspopup="listbox"
aria-expanded="false"
>

<!-- "` --><!-- </textarea></xmp> --></option></form><form class="js-site-search-form" role="search" aria-label="Site" data-scope-type="Repository" data-scope-id="35614280" data-scoped-search-url="/iVis-at-Bilkent/chilay/search" data-unscoped-search-url="/search" action="/iVis-at-Bilkent/chilay/search" accept-charset="UTF-8" method="get"><input name="utf8" type="hidden" value="✓" />
<label class="form-control input-sm header-search-wrapper p-0 header-search-wrapper-jump-to position-relative d-flex flex-justify-between flex-items-center js-chromeless-input-container">
<input type="text"
class="form-control input-sm header-search-input jump-to-field js-jump-to-field js-site-search-focus js-site-search-field is-clearable"
data-hotkey="s,/"
name="q"
value=""
placeholder="Search"
data-unscoped-placeholder="Search GitHub"
data-scoped-placeholder="Search"
autocapitalize="off"

```
        aria-autocomplete="list"
        aria-controls="jump-to-results"
        aria-label="Search"
        data-jump-to-suggestions-path="/_graphql/GetSuggestedNavigationDestinations#csrf-token=FMuLEHdVJ2hgUpZdci7Z5AcsEhPFdSeDywApJ9H9wLqdrZmQ1dw6mrkzNYFltFF1xncJIdh6gBsTWzZpQXY/wg=="
        spellcheck="false"
        autocomplete="off"
        >
        <input type="hidden" class="js-site-search-type-field" name="type" >
          <img src="https://github.githubassets.com/images/search-key-slash.svg" alt="" class="mr-2 header-search-key-slash">

          <div class="Box position-absolute overflow-hidden d-none jump-to-suggestions js-jump-to-suggestions-container">

<ul class="d-none js-jump-to-suggestions-template-container">


<li class="d-flex flex-justify-start flex-items-center p-0 f5 navigation-item js-navigation-item js-jump-to-suggestion" role="option">
 <a tabindex="-1" class="no-underline d-flex flex-auto flex-items-center jump-to-suggestions-path js-jump-to-suggestion-path js-navigation-open p-2" href="">
   <div class="jump-to-octicon js-jump-to-octicon flex-shrink-0 mr-2 text-center d-none">
    <svg height="16" width="16" class="octicon octicon-repo flex-shrink-0 js-jump-to-octicon-repo d-none" title="Repository" aria-label="Repository" viewBox="0 0 12 16" version="1.1" role="img"><path fill-rule="evenodd" d="M4 9H3V8h1v1zm0-3H3v1h1V6zm0-2H3v1h1V4zm0-2H3v1h1V2zm8-1v12c0 .55-.45 1-1 1H6v2l-1.5-1.5L3 16v-2H1c-.55 0-1-.45-1-1V1c0-.55.45-1 1-1h10c.55 0 1 .45 1 1zm-1 10H1v2h2v-1h3v1h5v-2zm0-10H2v9h9V1z"/></svg>
    <svg height="16" width="16" class="octicon octicon-project flex-shrink-0 js-jump-to-octicon-project d-none" title="Project" aria-label="Project" viewBox="0 0 15 16" version="1.1" role="img"><path fill-rule="evenodd" d="M10 12h3V2h-3v10zm-4-2h3V2H6v8zm-4 4h3V2H2v12zm-1 1h13V1H1v14zM14 0H1a1 1 0 00-1 1v14a1 1 0 001 1h13a1 1 0 001-1V1a1 1 0 00-1-1z"/></svg>
    <svg height="16" width="16" class="octicon octicon-search flex-shrink-0 js-jump-to-octicon-search d-none" title="Search" aria-label="Search" viewBox="0 0 16 16" version="1.1" role="img"><path fill-rule="evenodd" d="M15.7 13.3l-3.81-3.83A5.93 5.93 0 0013 6c0-3.31-2.69-6-6-6S1 2.69 1 6s2.69 6 6 6c1.3 0 2.48-.41 3.47-1.11l3.83 3.81c.19.2.45.3.7.3.25 0 .52-.09.7-.3a.996.996 0 000-1.41v.01zM7 10.7c-2.59 0-4.7-2.11-4.7-4.7 0-2.59 2.11-4.7 4.7-4.7 2.59 0 4.7 2.11 4.7 4.7 0 2.59-2.11 4.7-4.7 4.7z"/></svg>
   </div>

   <img class="avatar mr-2 flex-shrink-0 js-jump-to-suggestion-avatar d-none" alt="" aria-label="Team" src="" width="28" height="28">

   <div class="jump-to-suggestion-name js-jump-to-suggestion-name flex-auto overflow-hidden text-left no-wrap css-truncate css-truncate-target">
   </div>

   <div class="border rounded-1 flex-shrink-0 bg-gray px-1 text-gray-light ml-1 f6 d-none js-jump-to-badge-
```

search">

      In this repository

      All GitHub

    Jump to

<ul class="d-none js-jump-to-no-results-template-container">
 <li class="d-flex flex-justify-center flex-items-center f5 d-none js-jump-to-suggestion p-2">
  No suggested jump to results

<ul id="jump-to-results" role="listbox" class="p-0 m-0 js-navigation-container jump-to-suggestions-results-container js-jump-to-suggestions-results-container">

<li class="d-flex flex-justify-start flex-items-center p-0 f5 navigation-item js-navigation-item js-jump-to-scoped-search d-none" role="option">

    <svg height="16" width="16" class="octicon octicon-repo flex-shrink-0 js-jump-to-octicon-repo d-none" title="Repository" aria-label="Repository" viewBox="0 0 12 16" version="1.1" role="img"><path fill-rule="evenodd" d="M4 9H3V8h1v1zm0-3H3v1h1V6zm0-2H3v1h1V4zm0-2H3v1h1V2zm8-1v12c0 .55-.45 1-1 1H6v2l-1.5-1.5L3 16v-2H1c-.55 0-1-.45-1-1V1c0-.55.45-1 1-1h10c.55 0 1 .45 1 1zm-1 10H1v2h2v-1h3v1h5v-2zm0-10H2v9h9V1z"/></svg>
    <svg height="16" width="16" class="octicon octicon-project flex-shrink-0 js-jump-to-octicon-project d-none" title="Project" aria-label="Project" viewBox="0 0 15 16" version="1.1" role="img"><path fill-rule="evenodd" d="M10 12h3V2h-3v10zm-4-2h3V2H6v8zm-4 4h3V2H2v12zm-1 1h13V1H1v14zM14 0H1a1 1 0 00-1 1v14a1 1 0 001 1h13a1 1 0 001-1V1a1 1 0 00-1-1z"/></svg>
    <svg height="16" width="16" class="octicon octicon-search flex-shrink-0 js-jump-to-octicon-search d-none" title="Search" aria-label="Search" viewBox="0 0 16 16" version="1.1" role="img"><path fill-rule="evenodd" d="M15.7 13.3l-3.81-3.83A5.93 5.93 0 0013 6c0-3.31-2.69-6-6-6S1 2.69 1 6s2.69 6 6 6c1.3 0 2.48-.41 3.47-1.11l3.83 3.81c.19.2.45.3.7.3.25 0 .52-.09.7-.3a.996.996 0 000-1.41v.01zM7 10.7c-2.59 0-4.7-2.11-4.7-4.7 0-2.59

2.11-4.7 4.7-4.7 2.59 0 4.7 2.11 4.7 4.7 0 2.59-2.11 4.7-4.7 4.7z"/></svg>

  <img class="avatar mr-2 flex-shrink-0 js-jump-to-suggestion-avatar d-none" alt="" aria-label="Team" src="" width="28" height="28">

      In this repository

      All GitHub

    Jump to

<li class="d-flex flex-justify-start flex-items-center p-0 f5 navigation-item js-navigation-item js-jump-to-global-search d-none" role="option">

    <svg height="16" width="16" class="octicon octicon-repo flex-shrink-0 js-jump-to-octicon-repo d-none" title="Repository" aria-label="Repository" viewBox="0 0 12 16" version="1.1" role="img"><path fill-rule="evenodd" d="M4 9H3V8h1v1zm0-3H3v1h1V6zm0-2H3v1h1V4zm0-2H3v1h1V2zm8-1v12c0 .55-.45 1-1 1H6v2l-1.5-1.5L3 16v-2H1c-.55 0-1-.45-1-1V1c0-.55.45-1 1-1h10c.55 0 1 .45 1 1zm-1 10H1v2h2v-1h3v1h5v-2zm0-10H2v9h9V1z"/></svg>
    <svg height="16" width="16" class="octicon octicon-project flex-shrink-0 js-jump-to-octicon-project d-none" title="Project" aria-label="Project" viewBox="0 0 15 16" version="1.1" role="img"><path fill-rule="evenodd" d="M10 12h3V2h-3v10zm-4-2h3V2H6v8zm-4 4h3V2H2v12zm-1 1h13V1H1v14zM14 0H1a1 1 0 00-1 1v14a1 1 0 001 1h13a1 1 0 001-1V1a1 1 0 00-1-1z"/></svg>
    <svg height="16" width="16" class="octicon octicon-search flex-shrink-0 js-jump-to-octicon-search d-none" title="Search" aria-label="Search" viewBox="0 0 16 16" version="1.1" role="img"><path fill-rule="evenodd" d="M15.7 13.3l-3.81-3.83A5.93 5.93 0 0013 6c0-3.31-2.69-6-6-6S1 2.69 1 6s2.69 6 6 6c1.3 0 2.48-.41 3.47-

1.11l3.83 3.81c.19.2.45.3.7.3.25 0 .52-.09.7-.3a.996.996 0 000-1.41v.01zM7 10.7c-2.59 0-4.7-2.11-4.7-4.7 0-2.59 2.11-4.7 4.7-4.7 2.59 0 4.7 2.11 4.7 4.7 0 2.59-2.11 4.7-4.7 4.7z"/></svg>

  <img class="avatar mr-2 flex-shrink-0 js-jump-to-suggestion-avatar d-none" alt="" aria-label="Team" src="" width="28" height="28">

      In this repository

      All GitHub

    Jump to

    </label>
</form>

      <a href="/login?return_to=%2FiVis-at-Bilkent%2Fchilay%2Fblob%2Fmaster%2FLICENSE.md"
        class="HeaderMenu-link no-underline mr-3"
        data-hydro-click="{"event_type":"authentication.click","payload":{"location_in_page":"site header menu","repository_id":null,"auth_type":"SIGN_UP","client_id":"584359852.1572929893","originating_request_id":"E328:68CC:1475AC2:1CA2E1A:5DF0C511","originating_url":"https://github.com/iVis-at-

Bilkent/chilay/blob/master/LICENSE.md","referrer":"https://github.com/iVis-at-Bilkent/chilay","user_id":null}}" data-hydro-click-hmac="0b2cdc2d0a83c0a4ed4a90a9854234a5def09d0392f826d1821fd43c5c100c5d"
data-ga-click="(Logged out) Header, clicked Sign in, text:sign-in">
Sign in

<a href="/join?source=header-repo&source_repo=iVis-at-Bilkent%2Fchilay"
class="HeaderMenu-link d-inline-block no-underline border border-gray-dark rounded-1 px-2 py-1"
data-hydro-click="{"event_type":"authentication.click","payload":{"location_in_page":"site header menu","repository_id":null,"auth_type":"SIGN_UP","client_id":"584359852.1572929893","originating_request_id":"E328:68CC:1475AC2:1CA2E1A:5DF0C511","originating_url":"https://github.com/iVis-at-Bilkent/chilay/blob/master/LICENSE.md","referrer":"https://github.com/iVis-at-Bilkent/chilay","user_id":null}}" data-hydro-click-hmac="0b2cdc2d0a83c0a4ed4a90a9854234a5def09d0392f826d1821fd43c5c100c5d"
data-ga-click="(Logged out) Header, clicked Sign up, text:sign-up">
Sign up

</header>

<div class="application-main " data-commit-hovercards-enabled>
<div itemscope itemtype="http://schema.org/SoftwareSourceCode" class="">
<main >

<ul class="pagehead-actions">

<svg class="octicon octicon-eye v-align-text-bottom" viewBox="0 0 16 16" version="1.1" width="16" height="16" aria-hidden="true"><path fill-rule="evenodd" d="M8.06 2C3 2 0 8 0 8s3 6 8.06 6C13 14 16 8 16 8s-3-6-7.94-6zM8 12c-2.2 0-4-1.78-4-4 0-2.2 1.8-4 4-4 2.22 0 4 1.8 4 4 0 2.22-1.78 4-4 4zm2-4c0 1.11-.89 2-2 2-1.11 0-2-.89-2-2 0-1.11.89-2 2-2 1.11 0 2 .89 2 2z"/></svg>
Watch
 <a class="social-count" href="/iVis-at-Bilkent/chilay/watchers"
aria-label="20 users are watching this repository">
20

<a class="btn btn-sm btn-with-count tooltipped tooltipped-s" aria-label="You must be signed in to star a repository" rel="nofollow" data-hydro-click="{"event_type":"authentication.click","payload":{"location_in_page":"star button","repository_id":35614280,"auth_type":"LOG_IN","client_id":"584359852.1572929893","originating_request_id":"E328:68CC:1475AC2:1CA2E1A:5DF0C511","originating_url":"https://github.com/iVis-at-

Bilkent/chilay/blob/master/LICENSE.md","referrer":"https://github.com/iVis-at-Bilkent/chilay","user_id":null}}" data-hydro-click-hmac="3d093339f950c047f53e852328ca38bf7bfb35f3111f0948cd8e45b372a3df77" href="/login?return_to=%2FiVis-at-Bilkent%2Fchilay">
<svg aria-label="star" height="16" class="octicon octicon-star v-align-text-bottom" viewBox="0 0 14 16" version="1.1" width="14" role="img"><path fill-rule="evenodd" d="M14 6l-4.9-.64L7 1 4.9 5.36 0 6l3.6 3.26L2.67 14 7 11.67 11.33 14l-.93-4.74L14 6z"/></svg>

Star

<a class="social-count js-social-count" href="/iVis-at-Bilkent/chilay/stargazers"
aria-label="7 users starred this repository">
7

<svg class="octicon octicon-repo-forked v-align-text-bottom" viewBox="0 0 10 16" version="1.1" width="10" height="16" aria-hidden="true"><path fill-rule="evenodd" d="M8 1a1.993 1.993 0 00-1 3.72V6L5 8 3 6V4.72A1.993 1.993 0 002 1a1.993 1.993 0 00-1 3.72V6.5l3 3v1.78A1.993 1.993 0 005 15a1.993 1.993 0 001-3.72V9.5l3-3V4.72A1.993 1.993 0 008 1zM2 4.2C1.34 4.2.8 3.65.8 3c0-.65.55-1.2 1.2-1.2.65 0 1.2.55 1.2 1.2 0 .65-.55 1.2-1.2 1.2zm3 10c-.66 0-1.2-.55-1.2-1.2 0-.65.55-1.2 1.2-1.2.65 0 1.2.55 1.2 1.2 0 .65-.55 1.2-1.2 1.2zm3-10c-.66 0-1.2-.55-1.2-1.2 0-.65.55-1.2 1.2-1.2.65 0 1.2.55 1.2 1.2 0 .65-.55 1.2-1.2 1.2z"/></svg>
Fork

<a href="/iVis-at-Bilkent/chilay/network/members" class="social-count"
aria-label="3 users forked this repository">
3

<h1 class="public ">
<svg class="octicon octicon-repo" viewBox="0 0 12 16" version="1.1" width="12" height="16" aria-hidden="true"><path fill-rule="evenodd" d="M4 9H3V8h1v1zm0-3H3v1h1V6zm0-2H3v1h1V4zm0-2H3v1h1V2zm8-1v12c0 .55-.45 1-1 1H6v2l-1.5-1.5L3 16v-2H1c-.55 0-1-.45-1-1V1c0-.55.45-1 1-1h10c.55 0 1 .45

1 1zm-1 10H1v2h2v-1h3v1h5v-2zm0-10H2v9h9V1z"/></svg>
 iVis-at-Bilkent<!--
-->/<!--
--><a data-pjax="#js-repo-pjax-container" href="/iVis-at-Bilkent/chilay">chilay

</h1>

<nav class="hx_reponav reponav js-repo-nav js-sidenav-container-pjax container-lg p-responsive d-none d-lg-block"
    itemscope
    itemtype="http://schema.org/BreadcrumbList"
   aria-label="Repository"
    data-pjax="#js-repo-pjax-container">

 <span itemscope itemtype="http://schema.org/ListItem" itemprop="itemListElement">

     <svg class="octicon octicon-code" viewBox="0 0 14 16" version="1.1" width="14" height="16" aria-hidden="true"><path fill-rule="evenodd" d="M9.5 3L8 4.5 11.5 8 8 11.5 9.5 13 14 8 9.5 3zm-5 0L0 8l4.5 5L6 11.5 2.5 8 6 4.5 4.5 3z"/></svg>
     Code
     <meta itemprop="position" content="1">

  <span itemscope itemtype="http://schema.org/ListItem" itemprop="itemListElement">

      <svg class="octicon octicon-issue-opened" viewBox="0 0 14 16" version="1.1" width="14" height="16" aria-hidden="true"><path fill-rule="evenodd" d="M7 2.3c3.14 0 5.7 2.56 5.7 5.7s-2.56 5.7-5.7 5.7A5.71 5.71 0 011.3 8c0-3.14 2.56-5.7 5.7-5.7zM7 1C3.14 1 0 4.14 0 8s3.14 7 7 7 7-3.14 7-7-3.14-7-7-7zm1 3H6v5h2V4zm0 6H6v2h2v-2z"/></svg>
      Issues
      7
      <meta itemprop="position" content="2">

 <span itemscope itemtype="http://schema.org/ListItem" itemprop="itemListElement">
   <a data-hotkey="g p" data-skip-pjax="true" itemprop="url" class="js-selected-navigation-item reponav-item" data-selected-links="repo_pulls checks /iVis-at-Bilkent/chilay/pulls" href="/iVis-at-Bilkent/chilay/pulls">
     <svg class="octicon octicon-git-pull-request" viewBox="0 0 12 16" version="1.1" width="12" height="16" aria-hidden="true"><path fill-rule="evenodd" d="M11 11.28V5c-.03-.78-.34-1.47-.94-

2.06C9.46 2.35 8.78 2.03 8 2H7V0L4 3l3 3V4h1c.27.02.48.11.69.31.21.2.3.42.31.69v6.28A1.993 1.993 0 0010 15a1.993 1.993 0 001-3.72zm-1 2.92c-.66 0-1.2-.55-1.2-1.2 0-.65.55-1.2 1.2-1.2.65 0 1.2.55 1.2 1.2 0 .65-.55 1.2-1.2 1.2zM4 3c0-1.11-.89-2-2-2a1.993 1.993 0 00-1 3.72v6.56A1.993 1.993 0 002 15a1.993 1.993 0 001-3.72V4.72c.59-.34 1-.98 1-1.72zm-.8 10c0 .66-.55 1.2-1.2 1.2-.65 0-1.2-.55-1.2-1.2 0-.65.55-1.2 1.2-1.2.65 0 1.2.55 1.2 1.2zM2 4.2C1.34 4.2.8 3.65.8 3c0-.65.55-1.2 1.2-1.2.65 0 1.2.55 1.2 1.2 0 .65-.55 1.2-1.2 1.2z"/></svg>
    Pull requests
    1
    <meta itemprop="position" content="3">

  <a data-hotkey="g b" class="js-selected-navigation-item reponav-item" data-selected-links="repo_projects new_repo_project repo_project /iVis-at-Bilkent/chilay/projects" href="/iVis-at-Bilkent/chilay/projects">
    <svg class="octicon octicon-project" viewBox="0 0 15 16" version="1.1" width="15" height="16" aria-hidden="true"><path fill-rule="evenodd" d="M10 12h3V2h-3v10zm-4-2h3V2H6v8zm-4 4h3V2H2v12zm-1 1h13V1H1v14zM14 0H1a1 1 0 00-1 1v14a1 1 0 001 1h13a1 1 0 001-1V1a1 1 0 00-1-1z"/></svg>
    Projects
    0

  <a data-skip-pjax="true" class="js-selected-navigation-item reponav-item" data-selected-links="security alerts policy code_scanning /iVis-at-Bilkent/chilay/security/advisories" href="/iVis-at-Bilkent/chilay/security/advisories">
    <svg class="octicon octicon-shield" viewBox="0 0 14 16" version="1.1" width="14" height="16" aria-hidden="true"><path fill-rule="evenodd" d="M0 2l7-2 7 2v6.02C14 12.69 8.69 16 7 16c-1.69 0-7-3.31-7-7.98V2zm1 .75L7 1l6 1.75v5.268C13 12.104 8.449 15 7 15c-1.449 0-6-2.896-6-6.982V2.75zm1 .75L7 2v12c-1.207 0-5-2.482-5-5.985V3.5z"/></svg>
    Security

    <svg class="octicon octicon-graph" viewBox="0 0 16 16" version="1.1" width="16" height="16" aria-hidden="true"><path fill-rule="evenodd" d="M16 14v1H0V0h1v14h15zM5 13H3V8h2v5zm4 0H7V3h2v10zm4 0h-2V6h2v7zm4 0h-2V8h2v5z"/></svg>
    Insights

</nav>

 <nav class="reponav js-reponav text-center no-wrap"
      itemscope
      itemtype="http://schema.org/BreadcrumbList">

  <span itemscope itemtype="http://schema.org/ListItem" itemprop="itemListElement">
    <a class="js-selected-navigation-item selected reponav-item" itemprop="url" aria-current="page" data-selected-links="repo_source repo_downloads repo_commits repo_releases repo_tags repo_branches repo_packages /iVis-at-

```
Bilkent/chilay" href="/iVis-at-Bilkent/chilay">
      <span itemprop="name">Code</span>
      <meta itemprop="position" content="1">
</a>    </span>

    <span itemscope itemtype="http://schema.org/ListItem" itemprop="itemListElement">
      <a itemprop="url" class="js-selected-navigation-item reponav-item" data-selected-links="repo_issues
repo_labels repo_milestones /iVis-at-Bilkent/chilay/issues" href="/iVis-at-Bilkent/chilay/issues">
        <span itemprop="name">Issues</span>
        <span class="Counter">7</span>
        <meta itemprop="position" content="2">
</a>      </span>

  <span itemscope itemtype="http://schema.org/ListItem" itemprop="itemListElement">
    <a itemprop="url" class="js-selected-navigation-item reponav-item" data-selected-links="repo_pulls checks
/iVis-at-Bilkent/chilay/pulls" href="/iVis-at-Bilkent/chilay/pulls">
      <span itemprop="name">Pull requests</span>
      <span class="Counter">1</span>
      <meta itemprop="position" content="3">
</a>    </span>

    <span itemscope itemtype="http://schema.org/ListItem" itemprop="itemListElement">
      <a itemprop="url" class="js-selected-navigation-item reponav-item" data-selected-links="repo_projects
new_repo_project repo_project /iVis-at-Bilkent/chilay/projects" href="/iVis-at-Bilkent/chilay/projects">
        <span itemprop="name">Projects</span>
        <span class="Counter">0</span>
        <meta itemprop="position" content="4">
</a>      </span>


    <a itemprop="url" class="js-selected-navigation-item reponav-item" data-selected-links="security alerts policy
code_scanning /iVis-at-Bilkent/chilay/security/advisories" href="/iVis-at-Bilkent/chilay/security/advisories">
      <span itemprop="name">Security</span>
      <meta itemprop="position" content="6">
</a>
    <a class="js-selected-navigation-item reponav-item" data-selected-links="pulse /iVis-at-Bilkent/chilay/pulse"
href="/iVis-at-Bilkent/chilay/pulse">
      Pulse
</a>

 </nav>
</div>


 </div>
<div class="container-lg clearfix new-discussion-timeline experiment-repo-nav  p-responsive">
 <div class="repository-content ">
```

Permalink

<!-- blob contrib key: blob_contributors:v21:5469f70287390c48912afc5e78a64d47 -->

<!-- "` --><!-- </textarea></xmp> --></option></form><form action="/prompt_dismissals/signup" accept-charset="UTF-8" method="post"><input name="utf8" type="hidden" value="✓" /><input type="hidden" name="_method" value="put" /><input type="hidden" name="authenticity_token" value="7gdmLa9rRCxXz584UOLsCRX0BTE1HAIxdsv33UU/iG7dgg7bb7sA3D3bkAYaUlM/Ammc8F6wHGnYaVj49NjyUg==" />
<button type="submit" class="position-absolute top-0 right-0 btn-link link-gray" data-ga-click="(Logged out) Sign up prompt, clicked Dismiss, text:dismiss">
Dismiss
</button>
</form> <h3 class="pt-2">Join GitHub today</h3>
GitHub is home to over 40 million developers working together to host and review code, manage projects, and build software together.
Sign up

<details class="details-reset details-overlay select-menu branch-select-menu hx_rsm" id="branch-select-menu">
<summary class="btn btn-sm select-menu-button css-truncate"
data-hotkey="w"

```
        title="Switch branches or tags">
  <i>Branch:</i>
  <span class="css-truncate-target" data-menu-button>master</span>
 </summary>

 <details-menu class="select-menu-modal hx_rsm-modal position-absolute" style="z-index: 99;" src="/iVis-at-Bilkent/chilay/refs/master/LICENSE.md?source_action=show&amp;source_controller=blob" preload>
  <include-fragment class="select-menu-loading-overlay anim-pulse">
   <svg height="32" class="octicon octicon-octoface" viewBox="0 0 16 16" version="1.1" width="32" aria-hidden="true"><path fill-rule="evenodd" d="M14.7 5.34c.13-.32.55-1.59-.13-3.31 0 0-1.05-.33-3.44 1.3-1-.28-2.07-.32-3.13-.32s-2.13.04-3.13.32c-2.39-1.64-3.44-1.3-3.44-1.3-.68 1.72-.26 2.99-.13 3.31C.49 6.21 0 7.33 0 8.69 0 13.84 3.33 15 7.98 15S16 13.84 16 8.69c0-1.36-.49-2.48-1.3-3.35zM8 14.02c-3.3 0-5.98-.15-5.98-3.35 0-.76.38-1.48 1.02-2.07 1.07-.98 2.9-.46 4.96-.46 2.07 0 3.88-.52 4.96.46.65.59 1.02 1.3 1.02 2.07 0 3.19-2.68 3.35-5.98 3.35zM5.49 9.01c-.66 0-1.2.8-1.2 1.78s.54 1.79 1.2 1.79c.66 0 1.2-.8 1.2-1.79s-.54-1.78-1.2-1.78zm5.02 0c-.66 0-1.2.79-1.2 1.78s.54 1.79 1.2 1.79c.66 0 1.2-.8 1.2-1.79s-.53-1.78-1.2-1.78z"/></svg>
  </include-fragment>
 </details-menu>
</details>

    <div class="BtnGroup flex-shrink-0 d-md-none">
     <a href="/iVis-at-Bilkent/chilay/find/master"
        class="js-pjax-capture-input btn btn-sm BtnGroup-item"
        data-pjax
        data-hotkey="t">
      Find file
     </a>
     <clipboard-copy value="LICENSE.md" class="btn btn-sm BtnGroup-item">
      Copy path
     </clipboard-copy>
    </div>
   </span>
   <h2 id="blob-path" class="breadcrumb flex-auto min-width-0 text-normal flex-md-self-center ml-md-2 mr-md-3 my-2 my-md-0">
    <span class="js-repo-root text-bold"><span class="js-path-segment"><a data-pjax="true" href="/iVis-at-Bilkent/chilay"><span>chilay</span></a></span></span><span class="separator">/</span><strong class="final-path">LICENSE.md</strong>
   </h2>

   <div class="BtnGroup flex-shrink-0 d-none d-md-inline-block">
    <a href="/iVis-at-Bilkent/chilay/find/master"
       class="js-pjax-capture-input btn btn-sm BtnGroup-item"
       data-pjax
       data-hotkey="t">
     Find file
    </a>
    <clipboard-copy value="LICENSE.md" class="btn btn-sm BtnGroup-item">
     Copy path
    </clipboard-copy>
```

```
    </div>
  </div>



    <div class="Box mb-3 clearfix">
 <div class="d-flex flex-column flex-md-row">
  <div class="p-3 col-md-6">
    <svg height="32" class="octicon octicon-law text-gray-dark float-left mr-2" viewBox="0 0 14 16" version="1.1" width="28" aria-hidden="true"><path fill-rule="evenodd" d="M7 4c-.83 0-1.5-.67-1.5-1.5S6.17 1 7 1s1.5.67 1.5 1.5S7.83 4 7 4zm7 6c0 1.11-.89 2-2 2h-1c-1.11 0-2-.89-2-2l2-4h-1c-.55 0-1-.45-1-1H8v8c.42 0 1 .45 1 1h1c.42 0 1 .45 1 1H3c0-.55.58-1 1-1h1c0-.55.58-1 1-1h.03L6 5H5c0 .55-.45 1-1 1H3l2 4c0 1.11-.89 2-2 2H2c-1.11 0-2-.89-2-2l2-4H1V5h3c0-.55.45-1 1-1h4c.55 0 1 .45 1 1h3v1h-1l2 4zM2.5 7L1 10h3L2.5 7zM13 10l-1.5-3-1.5 3h3z"/></svg>
    <p class="text-small text-gray mb-0 lh-condensed-ultra">
      iVis-at-Bilkent/chilay is licensed under the
    </p>
    <h3 class="mt-0 mb-2 h4">MIT License</h3>
    <p class="mb-0 text-gray text-small pr-2">A short and simple permissive license with conditions only requiring preservation of copyright and license notices. Licensed works, modifications, and larger works may be distributed under different terms and without source code.</p>
  </div>

  <div class="d-flex px-3 col-md-6 flex-column flex-sm-row pb-sm-3">
    <div class="pb-3 col-sm-4 pt-md-2">
      <h4 class="mt-1 mb-2 h5">Permissions</h4>
      <ul class="list-style-none">
        <li class="text-small pl-3">
          <svg width="13" class="octicon octicon-check text-green ml-n3 v-align-middle" viewBox="0 0 12 16" version="1.1" height="17" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12 5z"/></svg>
          <span class="v-align-middle" title="This software and derivatives may be used for commercial purposes.">
            Commercial use
          </span>
        </li>
        <li class="text-small pl-3">
          <svg width="13" class="octicon octicon-check text-green ml-n3 v-align-middle" viewBox="0 0 12 16" version="1.1" height="17" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12 5z"/></svg>
          <span class="v-align-middle" title="This software may be modified.">
            Modification
          </span>
        </li>
        <li class="text-small pl-3">
          <svg width="13" class="octicon octicon-check text-green ml-n3 v-align-middle" viewBox="0 0 12 16" version="1.1" height="17" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12 5z"/></svg>
```

Distribution

<li class="text-small pl-3">
<svg width="13" class="octicon octicon-check text-green ml-n3 v-align-middle" viewBox="0 0 12 16" version="1.1" height="17" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5L12 5z"/></svg>

Private use

<h4 class="mt-1 mb-2 h5">Limitations</h4>
<ul class="list-style-none">
<li class="text-small pl-3">
<svg width="13" class="octicon octicon-x text-red ml-n3 v-align-middle" viewBox="0 0 12 16" version="1.1" height="17" aria-hidden="true"><path fill-rule="evenodd" d="M7.48 8l3.75 3.75-1.48 1.48L6 9.48l-3.75 3.75-1.48-1.48L4.52 8 .77 4.25l1.48-1.48L6 6.52l3.75-3.75 1.48 1.48L7.48 8z"/></svg>

Liability

<li class="text-small pl-3">
<svg width="13" class="octicon octicon-x text-red ml-n3 v-align-middle" viewBox="0 0 12 16" version="1.1" height="17" aria-hidden="true"><path fill-rule="evenodd" d="M7.48 8l3.75 3.75-1.48 1.48L6 9.48l-3.75 3.75-1.48-1.48L4.52 8 .77 4.25l1.48-1.48L6 6.52l3.75-3.75 1.48 1.48L7.48 8z"/></svg>

Warranty

<h4 class="mt-1 mb-2 h5">Conditions</h4>
<ul class="list-style-none">
<li class="text-small pl-3">
<svg width="13" class="octicon octicon-info text-blue ml-n3 v-align-middle" viewBox="0 0 14 16" version="1.1" height="14" aria-hidden="true"><path fill-rule="evenodd" d="M6.3 5.69a.942.942 0 01-.28-.7c0-.28.09-.52.28-.7.19-.18.42-.28.7-.28.28 0 .52.09.7.28.18.19.28.42.28.7 0 .28-.09.52-.28.7a1 1 0 01-.7.3c-.28 0-.52-.11-.7-.3zM8 7.99c-.02-.25-.11-.48-.31-.69-.2-.19-.42-.3-.69-.31H6c-.27.02-.48.13-.69.31-.2.2-.3.44-.31.69h1v3c.02.27.11.5.31.69.2.2.42.31.69.31h1c.27 0 .48-.11.69-.31.2-.19.3-.42.31-.69H8V7.98v.01zM7 2.3c-3.14 0-5.7 2.54-5.7 5.68 0 3.14 2.56 5.7 5.7 5.7s5.7-2.55 5.7-5.7c0-3.15-2.56-5.69-5.7-5.69v.01zM7 .98c3.86 0 7 3.14 7 7s-3.14 7-7 7-7-3.12-7-7 3.14-7 7-7z"/></svg>

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ugurdogrusoz

<a data-pjax="true" title="Create LICENSE.md" class="link-gray" href="/iVis-at-Bilkent/chilay/commit/b9d4ba2dc6d35a9fc64027a93f7d96b0519d42f5">Create LICENSE.md

b9d4ba2
<relative-time datetime="2019-09-04T10:53:30Z" class="no-wrap">Sep 4, 2019</relative-time>

<details class="details-reset details-overlay details-overlay-dark lh-default text-gray-dark float-left mr-2" id="blob_contributors_box">
<summary class="btn-link">
1 contributor
</summary>
<details-dialog

```
        class="Box Box--overlay d-flex flex-column anim-fade-in fast"
        aria-label="Users who have contributed to this file"
        src="/iVis-at-Bilkent/chilay/contributors-list/master/LICENSE.md" preload>
        <div class="Box-header">
          <button class="Box-btn-octicon btn-octicon float-right" type="button" aria-label="Close dialog" data-close-dialog>
            <svg class="octicon octicon-x" viewBox="0 0 12 16" version="1.1" width="12" height="16" aria-hidden="true"><path fill-rule="evenodd" d="M7.48 8l3.75 3.75-1.48 1.48L6 9.48l-3.75 3.75-1.48-1.48L4.52 8 .77 4.25l1.48-1.48L6 6.52l3.75-3.75 1.48 1.48L7.48 8z"/></svg>
          </button>
          <h3 class="Box-title">
            Users who have contributed to this file
          </h3>
        </div>
        <include-fragment class="octocat-spinner my-3" aria-label="Loading..."></include-fragment>
      </details-dialog>
    </details>
  </div>
</div>




  <div class="Box mt-3 position-relative">

<div class="Box-header py-2 d-flex flex-column flex-shrink-0 flex-md-row flex-md-items-center">
 <div class="text-mono f6 flex-auto pr-3 flex-order-2 flex-md-order-1 mt-2 mt-md-0">

    21 lines (17 sloc)
    <span class="file-info-divider"></span>
  1.05 KB
</div>

 <div class="d-flex py-1 py-md-0 flex-auto flex-order-1 flex-md-order-2 flex-sm-grow-0 flex-justify-between">

  <div class="BtnGroup">
    <a id="raw-url" class="btn btn-sm BtnGroup-item" href="/iVis-at-Bilkent/chilay/raw/master/LICENSE.md">Raw</a>
      <a class="btn btn-sm js-update-url-with-hash BtnGroup-item" data-hotkey="b" href="/iVis-at-Bilkent/chilay/blame/master/LICENSE.md">Blame</a>
    <a rel="nofollow" class="btn btn-sm BtnGroup-item" href="/iVis-at-Bilkent/chilay/commits/master/LICENSE.md">History</a>
  </div>


  <div>
        <a class="btn-octicon tooltipped tooltipped-nw"
```

```
          href="https://desktop.github.com"
          aria-label="Open this file in GitHub Desktop"
          data-ga-click="Repository, open with desktop, type:mac">
          <svg class="octicon octicon-device-desktop" viewBox="0 0 16 16" version="1.1" width="16" height="16"
aria-hidden="true"><path fill-rule="evenodd" d="M15 2H1c-.55 0-1 .45-1 1v9c0 .55.45 1 1 1h5.34c-.25.61-.86
1.39-2.34 2h8c-1.48-.61-2.09-1.39-2.34-2H15c.55 0 1-.45 1-1V3c0-.55-.45-1-1-1zm0 9H1V3h14v8z"/></svg>
        </a>

      <button type="button" class="btn-octicon disabled tooltipped tooltipped-nw"
        aria-label="You must be signed in to make or propose changes">
        <svg class="octicon octicon-pencil" viewBox="0 0 14 16" version="1.1" width="14" height="16" aria-
hidden="true"><path fill-rule="evenodd" d="M0 12v3h3l8-8-3-3-8 8zm3 2H1v-2h1v1h1v1zm10.3-9.3L12 6 9
3l1.3-1.3a.996.996 0 011.41 0l1.59 1.59c.39.39.39 1.02 0 1.41z"/></svg>
      </button>
      <button type="button" class="btn-octicon btn-octicon-danger disabled tooltipped tooltipped-nw"
        aria-label="You must be signed in to make or propose changes">
        <svg class="octicon octicon-trashcan" viewBox="0 0 12 16" version="1.1" width="12" height="16" aria-
hidden="true"><path fill-rule="evenodd" d="M11 2H9c0-.55-.45-1-1-1H5c-.55 0-1 .45-1 1H2c-.55 0-1 .45-1 1v1c0
.55.45 1 1 1v9c0 .55.45 1 1 1h7c.55 0 1-.45 1-1V5c.55 0 1-.45 1-1V3c0-.55-.45-1-1-1zm-1
12H3V5h1v8h1V5h1v8h1V5h1v8h1V5h1v9zm1-10H2V3h9v1z"/></svg>
      </button>
  </div>
 </div>
</div>
```



```
 <div id="readme" class="Box-body readme blob js-code-block-container">
  <article class="markdown-body entry-content p-3 p-md-6" itemprop="text"><p>MIT License</p>
<p>Copyright (c) 2019 iVis-at-Bilkent</p>
<p>Permission is hereby granted, free of charge, to any person obtaining a copy
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LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.</p>
</article>
```

```
</div>

  </div>



 <details class="details-reset details-overlay details-overlay-dark">
  <summary data-hotkey="l" aria-label="Jump to line"></summary>
  <details-dialog class="Box Box--overlay d-flex flex-column anim-fade-in fast linejump" aria-label="Jump to line">
    <!-- "` --><!-- </textarea></xmp> --></option></form><form class="js-jump-to-line-form Box-body d-flex" action="" accept-charset="UTF-8" method="get"><input name="utf8" type="hidden" value="&#x2713;" />
      <input class="form-control flex-auto mr-3 linejump-input js-jump-to-line-field" type="text" placeholder="Jump to line&hellip;" aria-label="Jump to line" autofocus>
      <button type="submit" class="btn" data-close-dialog>Go</button>
</form>    </details-dialog>
 </details>



 </div>
</div>

  </main>
 </div>


 </div>


<div class="footer container-lg width-full p-responsive" role="contentinfo">
 <div class="position-relative d-flex flex-row-reverse flex-lg-row flex-wrap flex-lg-nowrap flex-justify-center flex-lg-justify-between pt-6 pb-2 mt-6 f6 text-gray border-top border-gray-light ">
  <ul class="list-style-none d-flex flex-wrap col-12 col-lg-5 flex-justify-center flex-lg-justify-between mb-2 mb-lg-0">
    <li class="mr-3 mr-lg-0">&amp;copy; 2019 GitHub, Inc.</li>
      <li class="mr-3 mr-lg-0"><a data-ga-click="Footer, go to terms, text:terms" href="https://github.com/site/terms">Terms</a></li>
      <li class="mr-3 mr-lg-0"><a data-ga-click="Footer, go to privacy, text:privacy" href="https://github.com/site/privacy">Privacy</a></li>
      <li class="mr-3 mr-lg-0"><a data-ga-click="Footer, go to security, text:security" href="https://github.com/security">Security</a></li>
      <li class="mr-3 mr-lg-0"><a href="https://githubstatus.com/" data-ga-click="Footer, go to status, text:status">Status</a></li>
      <li><a data-ga-click="Footer, go to help, text:help" href="https://help.github.com">Help</a></li>
  </ul>

  <a aria-label="Homepage" title="GitHub" class="footer-octicon d-none d-lg-block mx-lg-4"
```

href="https://github.com">
<svg height="24" class="octicon octicon-mark-github" viewBox="0 0 16 16" version="1.1" width="24" aria-hidden="true"><path fill-rule="evenodd" d="M8 0C3.58 0 0 3.58 0 8c0 3.54 2.29 6.53 5.47 7.59.4.07.55-.17.55-.38 0-.19-.01-.82-.01-1.49-2.01.37-2.53-.49-2.69-.94-.09-.23-.48-.94-.82-1.13-.28-.15-.68-.52-.01-.53.63-.01 1.08.58 1.23.82.72 1.21 1.87.87 2.33.66.07-.52.28-.87.51-1.07-1.78-.2-3.64-.89-3.64-3.95 0-.87.31-1.59.82-2.15-.08-.2-.36-1.02.08-2.12 0 0 .67-.21 2.2.82.64-.18 1.32-.27 2-.27.68 0 1.36.09 2 .27 1.53-1.04 2.2-.82 2.2-.82.44 1.1.16 1.92.08 2.12.51.56.82 1.27.82 2.15 0 3.07-1.87 3.75-3.65 3.95.29.25.54.73.54 1.48 0 1.07-.01 1.93-.01 2.2 0 .21.15.46.55.38A8.013 8.013 0 0016 8c0-4.42-3.58-8-8-8z"/></svg>

<ul class="list-style-none d-flex flex-wrap col-12 col-lg-5 flex-justify-center flex-lg-justify-between mb-2 mb-lg-0">
<li class="mr-3 mr-lg-0"><a data-ga-click="Footer, go to contact, text:contact" href="https://github.com/contact">Contact GitHub
<li class="mr-3 mr-lg-0">Pricing
<li class="mr-3 mr-lg-0">API
<li class="mr-3 mr-lg-0">Training
<li class="mr-3 mr-lg-0">Blog
<a data-ga-click="Footer, go to about, text:about" href="https://github.com/about">About

<svg class="octicon octicon-alert" viewBox="0 0 16 16" version="1.1" width="16" height="16" aria-hidden="true"><path fill-rule="evenodd" d="M8.893 1.5c-.183-.31-.52-.5-.887-.5s-.703.19-.886.5L.138 13.499a.98.98 0 000 1.001c.193.31.53.501.886.501h13.964c.367 0 .704-.19.877-.5a1.03 1.03 0 00.01-1.002L8.893 1.5zm.133 11.497H6.987v-2.003h2.039v2.003zm0-3.004H6.987V5.987h2.039v4.006z"/></svg>
<button type="button" class="flash-close js-ajax-error-dismiss" aria-label="Dismiss error">
<svg class="octicon octicon-x" viewBox="0 0 12 16" version="1.1" width="12" height="16" aria-hidden="true"><path fill-rule="evenodd" d="M7.48 8l3.75 3.75-1.48 1.48L6 9.48l-3.75 3.75-1.48-1.48L4.52 8 .77 4.25l1.48-1.48L6 6.52l3.75-3.75 1.48 1.48L7.48 8z"/></svg>
</button>
You cant perform that action at this time.

<script crossorigin="anonymous" integrity="sha512-

70iNd/Gg+yLXPhfcelP5Zr8W3AA2fp2GsH2O/ZLbKoNOS51UGEKF/twbq+aS7x15R9F80cENGrgErdVG5frxqQ
==" type="application/javascript" src="https://github.githubassets.com/assets/frameworks-ef488d77.js"></script>

<script crossorigin="anonymous" async="async" integrity="sha512-
zfhpmK5/eY3WaaOaHic6RIaeUtntjJbHUILU6uv3gFglx3Tfeyu3Y880GgCNhblT3TT3+jbXVNBiVLoli3eq7Q==="
type="application/javascript" src="https://github.githubassets.com/assets/github-bootstrap-cdf86998.js"></script>

<div class="js-stale-session-flash flash flash-warn flash-banner" hidden
>
<svg class="octicon octicon-alert" viewBox="0 0 16 16" version="1.1" width="16" height="16" aria-
hidden="true"><path fill-rule="evenodd" d="M8.893 1.5c-.183-.31-.52-.5-.887-.5s-.703.19-.886.5L.138
13.499a.98.98 0 000 1.001c.193.31.53.501.886.501h13.964c.367 0 .704-.19.877-.5a1.03 1.03 0 00.01-1.002L8.893
1.5zm.133 11.497H6.987v-2.003h2.039v2.003zm0-3.004H6.987V5.987h2.039v4.006z"/></svg>
<span class="js-stale-session-flash-signed-in" hidden>You signed in with another tab or window. <a
href="">Reload to refresh your session.
<span class="js-stale-session-flash-signed-out" hidden>You signed out in another tab or window. <a
href="">Reload to refresh your session.

<template id="site-details-dialog">
<details class="details-reset details-overlay details-overlay-dark lh-default text-gray-dark hx_rsm" open>
<summary role="button" aria-label="Close dialog"></summary>
<details-dialog class="Box Box--overlay d-flex flex-column anim-fade-in fast hx_rsm-dialog hx_rsm-modal">
<button class="Box-btn-octicon m-0 btn-octicon position-absolute right-0 top-0" type="button" aria-
label="Close dialog" data-close-dialog>
<svg class="octicon octicon-x" viewBox="0 0 12 16" version="1.1" width="12" height="16" aria-
hidden="true"><path fill-rule="evenodd" d="M7.48 8l3.75 3.75-1.48 1.48L6 9.48l-3.75 3.75-1.48-1.48L4.52 8 .77
4.25l1.48-1.48L6 6.52l3.75-3.75 1.48 1.48L7.48 8z"/></svg>
</button>

</details-dialog>
</details>
</template>

<div class="Popover-message Popover-message--bottom-left Popover-message--large Box box-shadow-large"
style="width:360px;">

</body>
</html>

1.129 asm-analysis 6.2.1

1.130 jcifs 1.3.18

1.131 neko-htmlunit 2.33

1.132 lucene-backward-codecs 5.5.5

1.132.1 Available under license :

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See http://junit.sourceforge.net/cpl-v10.html

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g Package (jaspell): http://jaspell.sourceforge.net/
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The snowball stemmers in
 analysis/common/src/java/net/sf/snowball
were developed by Martin Porter and Richard Boulton.
The snowball stopword lists in
 analysis/common/src/resources/org/apache/lucene/analysis/snowball
were developed by Martin Porter and Richard Boulton.
The full snowball package is available from
 http://snowball.tartarus.org/

The KStem stemmer in
 analysis/common/src/org/apache/lucene/analysis/en
was developed by Bob Krovetz and Sergio Guzman-Lara (CIIR-UMass Amherst)
under the BSD-license.

The Arabic,Persian,Romanian,Bulgarian, and Hindi analyzers (common) come with a default
stopword list that is BSD-licensed created by Jacques Savoy. These files reside in:
analysis/common/src/resources/org/apache/lucene/analysis/ar/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/fa/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt
See http://members.unine.ch/jacques.savoy/clef/index.html.

The German,Spanish,Finnish,French,Hungarian,Italian,Portuguese,Russian and Swedish light stemmers
(common) are based on BSD-licensed reference implementations created by Jacques Savoy and
Ljiljana Dolamic. These files reside in:
analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java

analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

The Stempel analyzer (stempel) includes BSD-licensed software developed
by the Egothor project http://egothor.sf.net/, created by Leo Galambos, Martin Kvapil,
and Edmond Nolan.

The Polish analyzer (stempel) comes with a default
stopword list that is BSD-licensed created by the Carrot2 project. The file resides
in stempel/src/resources/org/apache/lucene/analysis/pl/stopwords.txt.
See http://project.carrot2.org/license.html.

The SmartChineseAnalyzer source code (smartcn) was
provided by Xiaoping Gao and copyright 2009 by www.imdict.net.

WordBreakTestUnicode_*.java (under modules/analysis/common/src/test/)
is derived from Unicode data such as the Unicode Character Database.
See http://unicode.org/copyright.html for more details.

The Morfologik analyzer (morfologik) includes BSD-licensed software
developed by Dawid Weiss and Marcin Mikowski (http://morfologik.blogspot.com/).

Morfologik uses data from Polish ispell/myspell dictionary
(http://www.sjp.pl/slownik/en/) licenced on the terms of (inter alia)
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Morfologic includes data from BSD-licensed dictionary of Polish (SGJP)
(http://sgjp.pl/morfeusz/)

Servlet-api.jar and javax.servlet-*.jar are under the CDDL license, the original
source code for this can be found at http://www.eclipse.org/jetty/downloads.php

==
Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration
==

This software includes a binary and/or source version of data from

mecab-ipadic-2.7.0-20070801

which can be obtained from

http://atilika.com/releases/mecab-ipadic/mecab-ipadic-2.7.0-20070801.tar.gz

or

http://jaist.dl.sourceforge.net/project/mecab/mecab-ipadic/2.7.0-20070801/mecab-ipadic-2.7.0-20070801.tar.gz

==

mecab-ipadic-2.7.0-20070801 Notice
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Last revised by Reagle $Date: 2005/06/03 22:49:13 $

1.140 hibernate-entitymanager 5.2.16

1.141 spring-messaging 5.1.5

1.142 snake-yaml 1.23

1.143 grizzly-http-server 2.3.25

1.144 commons-io 2.5

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1.145 apache-httpclient 4.5.7

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1.146 hibernate-validator 6.0.14

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```
<?xml version="1.0" encoding="UTF-8"?>
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 ~
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```

-->
<validation-config
  xmlns="http://jboss.org/xml/ns/javax/validation/configuration"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://jboss.org/xml/ns/javax/validation/configuration validation-configuration-1.1.xsd"
  version="1.1">

  <property
name="hibernate.validator.constraint_mapping_contributor">org.hibernate.validator.test.cfg.ConstraintMappingContributorConfiguredInValidationXmlTest$MyConstraintMappingContributor1</property>
  <property
name="hibernate.validator.constraint_mapping_contributors">org.hibernate.validator.test.cfg.ConstraintMappingContributorConfiguredInValidationXmlTest$MyConstraintMappingContributor2</property>
</validation-config>

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<?xml version="1.0" encoding="UTF-8"?>
<!--
 ~ Hibernate Validator, declare and validate application constraints
 ~
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 -->
<validation-config
  xmlns="http://jboss.org/xml/ns/javax/validation/configuration"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
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raintMappingContributorConfiguredInValidationXmlTest$MyConstraintMappingContributor2</property>
</validation-config>
<?xml version="1.0" encoding="UTF-8"?>
<!--
 ~ Hibernate Validator, declare and validate application constraints
 ~
 ~ License: Apache License, Version 2.0
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 -->
<validation-config
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  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://jboss.org/xml/ns/javax/validation/configuration validation-configuration-1.1.xsd"
  version="1.1">
```

<property
name="hibernate.validator.constraint_mapping_contributors">org.hibernate.validator.integration.wildfly.MyConstraintMappingContributor</property>
</validation-config>
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1.148 xml-commons-resolver 1.2

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It is a minimalist API: very easy to implement standalone or on top of existing parser. The API allows both fast high level iteration (using next() method) and low level tokenizing (using nextToken() token) and is designed for easy building on top of it SAX, XML pull parsers that uses iterators with event objects, or even DOM implementations. To to support J2ME and real small implementation parsing of DOCDECL is optional (but DOCDECL can be reported if requested).

The aim is to provide a similar but orthogonal pull parsing basis to widely successful push parsing SAX API. The XmlPull API is in public domain in hope that it will be embraced by Java developers (conformance tests are under LGPL license to minimize risk of incompatible implementations).

1.153 bcel 2.7.2

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1.154 spring-hateoas 0.25.1

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1.155 classworlds 1.1-alpha-2

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1.156 jetty-io 9.4.18.v20190429

1.157 byte-buddy 1.9.10

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1.159 javax-websocket-api 1.1

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1.160 tyrus-core 1.13

1.161 jetty-util 9.4.18.v20190429

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* java.sun.security.ssl

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org.ow2.asm:asm-commons
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 org.apache.tomcat:tomcat-jasper-el
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org.eclipse.jetty.toolchain:jetty-schemas

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* Source:
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* Source:
  https://github.com/apache/maven-resolver/tree/master/maven-resolver-transport-file

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* Source: http://sourceforge.net/project/showfiles.php?group_id=29449

testng (6.14.2)

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* Source: https://github.com/cbeust/testng

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1.166 querydsl-jpa 4.2.1

1.167 eclipse-compiler 3.9.1.v20130905 0837

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<p>March 17, 2005</p>
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1.170 threetenabp 1.0.5

1.171 hibernate-search-orm 5.9.0

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1.172 prettytime 4.0.1

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1.173 javassist 3.22.0

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1.174 querydsl-core 4.2.1

1.175 lo-dash 4.17.11

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1.178 jradius-client 1.1.5

1.179 beanutils 1.6

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1.180 bridge-method-annotation 1.13

1.181 ant 1.9.6

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2000-05-05

1.182 tyrus-container-grizzly-client 1.13

1.183 python 3.6.5

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Python was created in the early 1990s by Guido van Rossum at Stichting
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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
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0.9.0 thru 1.2		1991-1995	CWI	yes
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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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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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see https://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 https://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 (now Zope Corporation; see http://www.zope.com/). 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 is a sponsoring member of the PSF.

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2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
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Sockets

The :mod:`socket` module uses the functions, :func:`getaddrinfo`, and
:func:`getnameinfo`, which are coded in separate source files from the WIDE
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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion

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- Arguments more compliant with Python standard

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Original location:
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Solution inspired by code from:
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  djb (supercop/crypto_auth/siphash24/little2)
  Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)

strtod and dtoa

The file :file:`Python/dtoa.c`, which supplies C functions dtoa and
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* JRadiusSimulator
* JRadiusWiFiClient
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1.186 activation 1.1

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1.188 asm 5.0.4

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1.190 spring-expression 5.1.5

1.191 jackson-databind 2.9.8

1.191.1 Available under license :

Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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Jackson JSON processor

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1.192 xml-apis 1.4.01

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information and restrictions when using the lightweight library with the
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Breitenstrom Christian <C.Breitenstrom&#064t-systems.com> - compatibility patch to SignaturePacket, DetachedSignatureProcessor.
Zanotti Mirko <zanotti&#064cad.it> - patch to ordered equality test for X509Name.
Nicola Scendoni <nscendoni&#064babelps.it> - patch to add sorting to CertPath validation.
Ville Skyttä <ville.skytta&#064iki.fi> - patch to CRLDistPoint for cRLIssuer field. KeyStore compliance on add patches. DiffieHellman patch for provider compliance. Support for PEM object "TRUSTED

CERTIFICATE". Exception handling patch in PEMReader. JavaDoc clean up.
Bruce Gordon <bruce.gordon&#064savvis.net> - patch to secret key creation encoding NullPointerException in OpenPGP, speed up for BCPGInputStream.
Miles Whiteley <Miles.Whiteley&#064savvis.net> - "223" fix for BCPGInputStream new packets.
Albert Moliner <amoliner&#064evintia.com> - initial TSP implementation.
Carlos Lozano <carlos&#064evintia.com> - initial TSP implementation, patch to SignerInformation for supporting repeated signers, initial updates for supporting repeated attributes in CMS.
Javier Delgadillo <javi&#064javi.codewarp.org> - initial Mozilla PublicKeyAndChallenge classes.
Joni Hahkala <joni.hahkala&#064cern.ch> - initial implementations of VOMS Attribute Certificate Validation, IetfAttrSyntax, and ObjectDigestInfo. We also wish to thank the EGEE project for making the work available.
Rolf Schillinger<rolf&#064sir-wum.de> - initial implementation of Attribute Certificate generation.
Sergey Bahtin <Sergey_Bahtin&#064yahoo.com> - fix for recovering certificate aliases in BKS and UBER key stores. Initial implementations of GOST-28147, GOST-3410, EC GOST-3410, GOST OFB mode (GOFB) and GOST-3411.
Franck Leroy <Franck.Leroy&#064keynectis.com> - ANS.1 set sorting. Contributions to TSP implementation. Test vectors for Bleichenbacher's forgery attack.
Atsuhiko Yamanaka <ymnk&#064jcraft.com> - patch for improving use of Montgomery numbers in BigInteger library. Patch to use size of private exponent in DH parameters.
Nickolay Bolshackov <tyrex&#064reksoft.ru> - patch for class cast exception in AuthorityInformationAccess class.
Soren Hilmer <soren.hilmer&#064tietoenator.com> - patches for CertID with issuerSerial set in TSP implementation, additional compliance testing.
Steve Mitchell <mitchell&#064intertrust.com> - patch for stateful path validator fix. Patch to allow BigInteger class to create negative numbers from byte arrays. Additions to allow different providers to be used for asymmetric/symmetric encryption in OpenPGP.
Optimisation to avoid redundant verification in path validator. Suggestion to use PKIXParameters.getSigProvider() correctly.
Dirk Eisner <D.Eisner&#064seeburger.de> - initial implementation of ISO 78164-4 padding.
Julien Pasquier <julienpasquier&#064free.fr> - initial implementation of attribute classes from RFC 3126. Fix to KEKIdentifier, OtherKeyAttribute parsing. Initial ContentHints class.
Matteo <matartuso&#064libero.it> - sequence patch to ASN1Dump.
Andrew Paterson <andrew.paterson&#064burnsecs.com> - patches to PGP tools, isRevoked method on PGPPublicKey.
Vladimir Molotkov <vladimir.n.molotkov&#064intel.com> - extensive provider exception handling compliance testing.
Florin Kollan <adlocflo&#064web.de> - fix to ElGamalKeyParameters equality testing.
Pavel Vassiliev <paulvas&#064gmail.com> - Initial GOST28147Mac implementation.
Tom Pesman <tom&#064tnux.net> - addition of DES-EDE encryption for RSAPrivate keys to PEMWriter.
Lukasz Kowalczyk <lukasz.b.kowalczyk&#064gmail.com> - patch to fix parsing issue with OpenSSL PEM based certificate requests.
Arndt Hasch <Arndt.Hasch&#064maxence.de> - additional fix for partial reading with new style PGP packets.
Fix Bernd (KCDP 11) <bernd.fix&#064credit-suisse.com> - fix for 31 byte issue and exception throwing by Whirlpool.
David M. Lee <dmlee&#064Crossroads.com> - code for add and remove secret key in the PGPSecretKeyRing class. Additions to S/MIME and CMS unit tests.

Mike Dillon <md5&#064embody.org> - additional checks for PGP secret and public key construction, patches to copyWithNewPassword.
tu-vi cung <t2cung&#064hotmail.com> - patch for out of bounds problem in getDecoderStream method.
Chris Schultz <cschultz&#064gmail.com> - fix for InputStream constructor for X509V2AttributeCertificate.
David M. Lee <dmlee&#064Crossroads.com> - implementation assistance with streaming CMS classes.
Joel Rees <rees&#064ddcom.co.jp> - fix to correct getOID methods from returning same set on X.509 attribute certificates.
Francesc Sau <francesc.sau&#064partners.netfocus.es> - micro fix for tsp Accuracy class.
Larry Bugbee <bugbee&#064mac.com> - initial ECNR implementation.
Remi Blancher <Remi.Blancher&#064keynectis.com> - Contributions to TSP implementation. Initial implementation of RFC 3739 and ICAO ASN.1 classes.
Brian O'Rourke <brianorourke&#064gmail.com> - patch for signature creation time override in OpenPGP.
Andreas Schwier <andreas.schwier&#064cardcontact.de> - initial implementation of ISO9797 MAC Algorithm 3, addition of DES-EDE 64 MAC to the provider, fix to EC point encoding, addition of EC and RSA-PSS OIDs to CMS, addition of AES-CMAC and DESede-CMAC to JCE provider.
David Josse <david.josse&#064transacttools.net> - Patch for trailer function in version 2 signature packets.
Kishimoto Kazuhiko <kazu-k&#064hi-ho.ne.jp> - RFC 3280 updates to policy processing in the CertPath validator. Additional test data not covered by NIST.
Lawrence Tan <lwrnctan&#064gmail.com&gt - Large field OID sample test data. Missing key types in JDKKeyFactory.
Carlos Valiente <superdupont&#064gmail.com> - Addition of CRL writing to the PEMWriter class.
Keyon AG, Martin Christinat, http://www.keyon.ch - fixing incorrect ASN.1 encoding of field elements in X9FieldElement class.
Olaf Keller, <olaf.keller.bc&#064bluewin.ch> - initial implementation of the elliptic curves over binary fields F2m. Additional tests and modifications to elliptic curve support for both F2m and Fp. Performance improvements to F2m multiplication. Initial implementation of WNAF/WTNAF point multiplication. Improvement to k value generation in ECDSA.
Jörg Eichhorn <eichhorn&#064ponton-consulting.de> - patch to fix EOF read on SharedFileInputStream, support for F2m compression.
Karsten Ohme <widerstand&#064t-online.de> - initial check against for out of range data on non byte aligned RSA keys. Addition of equals/hashCode on ECCurve.Fp. Additional curve type support for Fp, contributions to F2m compression. F2m decoding for ECPointUtil. Infinity fix and prime192v2 fix for Fp. Extra validation for RSA key creation. Fix to name typos for some OpenSSL key generators. RFC-1779 table, improved RFC 2253 compliance for X509Name. Additional constructor validation for X.509/ESS ASN.1 classes. Validation for Printable, IA5, and Numeric Strings. Fix for RFC 5280 NameConstraint checking for RDNs.
Support for surrogate pairs in DERUTF8String, DER UTF8 test. Additional X.509 name attributes for ISIS-MTT, RFC 3039, addition of indirect CRL support, initial X509 LDAP CertStore implementation, CertificatePair class, and X509CertificatePair class. Contributions to X509Store/Parser infrastructure and design.
CertPath support for implicit DSA parameters and a range of NameConstraints. Addition of support for V1 attribute certificates and attribute certificate path validation. Initial classes for ASN.1 ISIS-MTT support. Enhancements for improving compliance with the NIST CertPath tests.
Carlos Lozano Ruiz <carlos&#064tradise.com> - patch for <ctrl><m> only handling in CRLFOutputStream.

John Alfred Prufrock <j.a.prufrock&#064gmail.com> - mods to GOST-3411 and MD2 to support ExtendedDigest.
Stefan Neusatz Guilhen <sneusatz&#064gmail.com> - initial version of RoleSyntax, improvements to AttributeCertificateHolder and AttributeCertificateIssuer.
Marzio Lo Giudice <marzio.logiudice&#064gmail.com> - fix to endianess in KDF2BytesGenerator, additional KDF2 tests.
Georg Lippold <georg.lippold&#064gmx.de> - initial implementation of NaccacheStern cipher.
Chris Viles <chris_viles&#064yahoo.com> - fix to SignatureSubpacket critical bit setting.
Pasi Eronen <Pasi.Eronen&#064nokia.com> - extra toString() support for ASN.1 library. Initial patch for large OID components.
Lijun Liao <https://github.com/xipki> performance enhancements for SHA family of digests. Bug report and patch for blank line handling in ArmoredInputStream. Addition of getSignatureAlgorithmID to BasicOCSPResp. Reset fix for SM2 signatures, performance improvements for SHA-3. Clean up of CMP EncryptedValueBuilder, additional functionality on PollReqContent. Bug fix for endianness issue in cSHAKE left encode method.
Maria Ivanova <maria.ivanova&#064gmail.com> - support for tags > 30 in ASN.1 parsing.
Armin Häberling <arminha&#064student.ethz.ch> - first cut of internationalisation, initial PKIX validation classes.
Marius Schilder <mschilder&#064google.com> - main set of test vectors for Bleichenbacher's forgery attack.
Xavier Le Vourch <xavier&#064brittanysoftware.com> - general code clean ups.
Erik Tews <e_tews&#064cdc.informatik.tu-darmstadt.de> - initial threaded random seed generator, constant-time PKCS#1.5 decoding
Thomas Dixon <reikomusha&#064gmail.com> - initial implementations of TEA/XTEA, Salsa20, ISAAC, and Noekeon. XTEA enhancements.
Frank Cornelis <info&#064frankcornelis.be>- addition of crlAccessMethod in X509ObjectIdentifiers.
Rui Joaquim <rjoaquim&#064cc.isel.ipl.pt> - initial implementation of RSA blinding for signatures.
David Stacey <DStacey&#064allantgroup.com> - addition of trust packet checking on revocation signatures in PGPSecretKeyRing.
Martijn Brinkers <list&#064mitm.nl> - better exception handling in CMS enveloping, "just in time" modifications for CRL and Sequence evaluation.
Julius Davies <juliusdavies&#064gmail.com> - additional modes and algorithm support in PEMReader
Matthias <g&#064rtner.de> - GnuPG compatibility changes for PBEFileProcessor.
Olga Käthler <olga.kaethler&#064hjp-consulting.com> - initial implementation of TeleTrusT EC curves, additional ISO 9797 MACs, contributions to EAC OIDs, addition of EAC algorithms to CMS Signing.
Germano Rizzo <germano.rizzo&#064gmail.com> - initial implementation of CMac, EAX, HC-128, and HC-256, optimisations for Salsa20.
Núria Marí <numaa&#064hotmail.com> - patch for alternate data type recoginition in CMSSignedDataParser.
Janis Schuller <js&#064tzi.de> - addition of NotationData packets for OpenPGP.
Michael Samblanet <mike&#064samblanet.com> - patches towards improved Sun/default provider support in CMS.
Mike StJohns <mstjohns&#064comcast.net> - patches for supporting empty subject in X.509 certificate generation, noneWithECDSA, updates to KeyPurposeId.
Ramon Keller <ramon.keller&#064gmx.ch> - patch to deal with null revocations return from other CRL in X509V2CRLGenerator.

Mark Nelson <mark&#064nbr.com> - correction to excluded DN in name constraints processing for PKIX processing.
Eugene Golushkov <eugene_gff&#064ukr.net> - mask fix to single byte read in TlsInputStream.
Julien Pasquier <julienpasquier&#064free.fr> - additional classes for supporting signature policy and signer certificates in the ASN.1 esf and ess libraries.
Peter Knopp <pknopp&#064mtg.de> - fix for named curve recognition in ECGOST key generation.
Jakub Gwozdz <gwozdziu&#064rpg.pl> - addition of getTsa() to TimeStampTokenInfo.
Bartosz Malkowski <bmalkow&#064tigase.org> - initial implementation of VMPC cipher, VMPCRandomGenerator, VMPCMac.
Tal Yacobi <tal.yacobi&#064octavian-tech.com> - fix for issue in OpenPGP examples [#BJA-55].
Massimiliano Ziccardi <massimiliano.ziccardi&#064gmail.comt> - support for counter signature reading in CMS API, update for multiple counter signature attributes, JCA compliance patch for PEM parsing in CertificateFactory.
Andrey Pavlenko <andrey.a.pavlenko&#064gmail.com> - security manager patch for PKCS1Encoding property check.
J Ross Nicoll <jrn&#064jrn.me.uk> - improved exception handling for getInstance() in ASN.1 library.
Matthew Stevenson <mavricknz&#064yahoo.com> - patch to construtor for CRMF CertSequence.
Gabriele Contini <gcontini&#064hotpop.com> - identified a bug in ASN.1 library with handling of unterminated NDEF's.
Roelof Naude <roelof.naude&#064epiuse.com> - patch for TLS client to send empty client certs in response to HP_CERTIFICATE_REQUEST.
Patrick Peck <peck&#064signaturen.at> - identified problem with DERApplicationSpecific and high tag numbers in ASN.1 library.
Michael LeMay <lemaymd&#064lemaymd.com> - identified problem with EAX [#BJA-93].
Alex Dupre <ale&#064FreeBSD.org> - fix to use of Signature rather than SignatureSpi in provider [#BJA-90]. Addition of null provider use to SignedPublicKeyAndChallenge and PKCS10CertificationRequest [#BJA-102]
Michael Schoene <michael&#064sigrid-und-michael.de> - fix of improper handling of null in ExtendedPKIXParameters.setTrustedACIssuers(), check for V2 signingCertificate attribute in TimeStampResponse.validate().
Ion Larrañaga <ilarra&#064s21sec.com> fix to default partial packet generation in BCPGOutputStream.
Bob Kerns <bob.kerns&#064positscience.com> fix to hashCode for X509CertificateObject.
Stefan Meyer <stefan.meyer&#064ewe.de> backport for PKIXCertPathValidotor and SMIMESignedMailReviewer.
Robert J. Moore <Robert.J.Moore&#064allanbank.com> speedups for OpenPGPCFB mode, clean room JCE patches.
Rui Hodai <rui&#064po.ntts.co.jp> speed ups for Camellia implementation, CamelliaLightEngine.
Emir Bucalovic <emir.bucalovic&#064mail.com> initial implementation of Grain-v1 and Grain-128.
Torbjorn Svensson <tobbe79&#064gmail.com> initial implementation of Grain-v1 and Grain-128.
Paul FitzPatrick <bouncycastle_pfitz&#064fitzpatrick.cc> error message fix to X509LDAPCertStoreSpi, comparison fix to BCStrictStyle.
Henrik Andersson <k.henrik.andersson&#064gmail.com> addition of UniqueIssuerID to certificate generation.
Cagdas Cirit <cagdascirit&#064gmail.com> subjectAlternativeName fix for x509CertStoreSelector.
Harakiri <harakiri_23&#064yahoo.com> datahandler patch for attached parts in SMIME signatures.
Pedro Henriques <pmahenriques&#064gmail.com> explicit bounds checking for DESKeyGenerator, code

simplification for OAEPEncoding.
Lothar Kimmeringer <job&#064kimmeringer.de> verbose mode for ASN1Dump, support for DERExternal, DNS performance fix for S/MIME API.
Richard Farr <rfarr.se&#064gmail.com> initial SRP-6a implementation.
Thomas Castiglione <castiglione&#064au.ibm.com> patch to encoding for CRMF OptionalValidity.
Elisabetta Romani <eromani&#064sogei.it> patch for recognising multiple counter signatures.
Robin Lundgren <r737lundgren&#064gmail.com> CMPCertificate constructor from X509CertificateStructure fix.
Petr Kadlec <mormegil&#064centrum.cz> fix to sign extension key and IV problem in HC-128, HC-256.
Andreas Antener <antener_a&#064gmx.ch> fix to buffer reset in AsymmetricBufferedBlockCipher.
Harendra Rawat <hsrawat&#064yahoo.com> fix for BERConstructedOctetString.
Rolf Lindemann <lindemann&#064trustcenter.de> patch for PKCS12 key store to support more flexible attribute specifications [#BMA-42].
Alex Artamonov <alexart.home&#064gmail.com> name look up patch for GOST-2001 parameters.
Mike Lyons <mlyons&#064layer7tech.com> work arounds for EC JDK bug 6738532 and JSSE EC naming conventions.
Chris Cole <chris_h_cole&#064yahoo.com> identified a problem handling null passwords when loading a BKS keystore.
Tomas Krivanek <tom&#064atack.cz> added checking of Sender header to SignedMailValidator.
Michael <emfau&#064t-online.de> correction of field error in getResponse method in CertRepMessage.
Trevor Perrin <trevor&#064cryptography.com> addition of constant time equals to avoid possible timing attacks.
Markus Kilås <markus&#064primekey.se> several enhancements to TimeStampResponseGenerator.
Dario Novakovic <darionis&#064yahoo.com> fix for NPE when checking revocation reason on CRL without extensions.
Michael Smith <msmith&#064cbnco.com> bug fixes and enhancements to the CMP and CRMF classes, initial Master List classes.
Andrea Zilio <andrea.zilio&#064gmail.com> fix for PEM password encryption of private keys.
Alex Birkett <alex&#064birkett.co.uk> added support for EC cipher suites in TLS client (RFC 4492) [#BJA-291].
Wayne Grant <waynedgrant&#064gmail.com> additional OIDs for PCKS10 and certificate generation support.
Frank Cornelis <info&#064frankcornelis.be> additional support classes for CAdES, enhancements to OCSP classes.
Jan Dittberner <jan&#064dittberner.info> addHeader patch for SMIME generator.
Bob McGowan <boab.mcgoo&#064btinternet.com> patch to support different object and mgf digests in PSS signing.
Ivo Matheis <i.matheis&#064seeburger.de> fix to padding verification in ISO-9796-1.
Marco Sandrini <nessche&#064gmail.com> patch to add IV to ISO9797Alg3Mac.
Alf Malf <alfilmalf&#064hotmail.com> removal of unnecessary limit in CMSContentInfoParser.
Alfonso Massa <alfonso.massa&#064insiel.it> contributions to CMS time stamp classes.
Giacomo Boccardo <gboccardo&#064unimaticaspa.it> initial work on CMSTimeStampedDataParser.
Arnis Tartu <arnis&#064ut.ee> patches for dealing with OIDs with specific key sizes associated in CMS.

Janusz Sikociski <J.Sikocinski&#064gdzie.pl> addition of Features subpacket support to OpenPGP API.
Juri Hudolejev <jhudolejev&#064gmail.com> JavaDoc fix to CMSSignedDataParser.
Liane Velten <liane.velten&#064hjp-consulting.com> fine tuning of code for DHParameters validation.
Shawn Willden <swillden&#064google.com> additional functionality to PGPKeyRing.
Atanas Krachev <akrachev&#064gmail.com> added support for revocation signatures in OpenPGP.
Mickael Laiking <mickael.laiking&#064keynectis.com> initial cut of EAC classes.
Tim Buktu <tbuktu&#064hotmail.com> Initial implementation of NTRU signing and encryption.
Bernd <rbernd&#064gmail.com> Fix for open of PGP literal data stream with UTF-8 naming.
Steing Inge Morisbak <stein.inge.morisbak&#064BEKK.no> Test code for lower case Hex data in PEM headers.
Andreas Schmid <andreas.schmid&#064tngtech.com> Additional expiry time check in PGPPublicKeys.
Phil Steitz <phil.steitz&#064gmail.com> Final patch eliminating JCE dependencies in the OpenPGP BC classes.
Ignat Korchagin <ignat.korchagin&#064gmail.com> Initial implementation of DSTU-4145-2002, long hash fix for DSTU-4145-2002.
Petar Petrov <p.petrov&#064bers-soft.com> Testing and debugging of UTF-8 OpenPGP passwords.
Daniel Fitzpatrick <daniel.f.nwr&#064gmail.com> Initial implementation of ephemeral key support for IES, initial implementions of RSA-KEM and ECIES-KEM, initial implementation of homogeneous projective coordinates for EC.
Andy Neilson <Andy.Neilson&#064quest.com>a further patches to deal with multiple providers and PEMReader.
Ted Shaw <xiao.xj&#064gmail.com> patch to MiscPEMGenerator for handling new PKCS10CeritcationRequests.
Eleriseth <Eleriseth&#064WPECGLtYbVi8Rl6Y7Vzl2Lvd2EUVW99v3yNV3IWROG8.fms> speed up for SIC/CTR mode. Provider compatibilty generalisations for EC operations.
Kenny Root <kenny&#064the-b.org> patch for issuerAltName, subjectAltName support in X509CertificateObject, BaseBlockCipher.getIV() patch for AEAD.
Maarten Bodewes <maarten.bodewes&#064gmail.com> initial implementation of HKDF and NIST SP 800-108 MAC based KDF functions.
Philip Clay <pilf_b&#064gyahoo.com> Initial implementation of J-PAKE.
Brian Carlstrom <bdc&#064carlstrom.com> compliance patches for some JCA/JCE keystore and cipher classes, miscellaneous code quality improvements, intial provider PBKDF2WithHmacSHA1 SecretKeyFactory.
Samuel Lidén Borell <samuel&#064primekey.se> patch to add DSTU-4145 to DefaultSignatureAlgorithmFinder
Sergio Demian Lerner <sergiolerner&#064certimix.com> pointing out isInfinity issue in ECDSASigner signature verification.
Tim Whittington <Tim.Whittington&#064orionhealth.com> patch to remove extra init call in CMac, additional of Memoable interface for Digest classes, initial implementation of GMAC, further correctness tests for IV and reset processing in OCB, CCM, and block cipher reset. Initial implementation of Skein, XSalsa20, ChaCha, reduced round Salsa20, Threefish, and the Poly1305 MAC. Documentation updates. Added OCB support to Noekeon and CAST6 in the provider, exception testing for CTS, optimisations for CCM, provider support for AAD cipher methods, safe CipherInput/OutputStream implementations for use with AAD and subsequent bug fixes, cleanup after IDEA patent expiry, work on JCE SipHash support, optimisations for AESFastEngine, further work on EncodableDigest for SHA-2 digests, contributions to BCrypt/OpenBSDBCrypt, PGP API documentation and code

quality work.
Marcus Lundblad <marcus.lundblad&#064primekey.se> patch for working arnound JDK jarsigner TSP bug, optional setting of IssuerSerial in TimeStampTokenGenerator, additional extensions enhancement for time stamp token generation.
Andrey Zhozhin <zhozhin&#064xrm.ru> patch for override of TSP SignerInfo attributes.
Sergey Tiunov <t5555d&#064gmail.com> initial cut of DVCS classes.
Damian Kolasa <fatfredyy&#064gmail.com> ASN1Sequence patch for class cast issue in X9Curve.
Ash Hughes <ashley.hughes&#064blueyonder.co.uk> patches for supporting PGPSecretKeyRing/PGPSecretKeys encodings with empty private keys, initial code for PGPSignatureSubpacketVector.getEmbeddedSignatures().
Daniel Hirscher <dev&#064daniel-hirscher.de> patch to support parsing of explicit EC parameters in PEM files.
Daniele Ricci <daniele.athome&#064gmail.com> initial implementation of EC keys for OpenpPGP and RFC6637 support.
Matti Aarnio <matti.aarnio&#064methics.fi> tweaks to any build to remove dependence on shell scripts. Initial SM3 digest implementation, some EC related code cleanups, JavaDoc improvements for ASN.1 classes, addition of NONEwithRSA to lightweight RSADigestSigner.
Babak Najafi <bnajafi&#064akamai.com> fixes to OpenPGP NotationData to prevent truncation problems.
Eric Müller <eric.mueller&#064sage.de> additional standard algorithm name lookups in JcaPEMKeyConverter.
Mathias Herberts <Mathias.Herberts&#064gmail.com> fix to inOff usage in RFC3394WrapEngine.
Daniil Ivanov <daniil.ivanov&#064gmail.com> addition of provider support for GOST HMAC SecretKeyFactory.
Daniele Grasso <daniele.grasso86&#064gmail.com> contributions to final Key calculation code for SRP6.
Andrey Utkin <cindrhc&#064gmail.com> patch to reconstruction of ECGOST keys from PrivateKeyInfo objects in provider classes.
Arnis Tartu <arnis&#064ut.ee> checker for generated key vs OID in JceCMSContentEncryptorBuilder.
AxelVDB <axel-vdb&#064riseup.net> initial implementation of Shacal2.
Roberto Tyley <> further work on completing gradle build.
Waldemar Dick <wdick&#064devmue.de> code improvement in x500 ASN.1 package.
Sid Steward <sid.steward&#064pdflabs.com> code improvements to ASN1Boolean.
Alex Klyubin <klyubin&#064google.com> AlgorithmParameters check for EC key agreement.
Jonathan Gillett <gsoc.student&#064gmail.com> Initial support for block cipher IVs in IESEngine, IES MAC length check bug fix.
Andreas Reiter <andreas.reiter&#064iaik.tugraz.at> Reported incomplete status of CertificateVerify processing in (D)TLS server, and provided fix.
Kieran Miller <kieran.miller&#064gmail.com> initial implementation for RFC 5649 key wrap with padding.
Oliver Ehli<ehli&#064arago.de> Additional support for BSI plain ECDSA in the provider.
Daniel Heldt<Daniel.Heldt&#064cryptovision.com> Initial support for encodable state message digests
Robert Bushman <bouncycastle&#064traxel.com> Clean up of DirectKeySignature example.
Maurice Aarts<aarts&#064riscure.com> updated to KDF generator to follow NIST SP 800-108.
Franziskus Kiefer<https://github.com/franziskuskiefer> initial implementation of Cramer-Shoup.
KB Sriram<mail_kb&#064yahoo.com> testing for odd encodings for PGP User Attribute

Subpackets.
Marco Schulze<marco&#064nightlabs.de> Reported verification bug in GenericSigner.
Martin Schaef<https://github.com/martinschaef> contributed a code-cleanup patch.
dstutz<https://github.com/dstutz> added iteration count setters to PKCS#12 PBE mac/key generator builders.
Tobias Wich<tobias.wich&#064ecsec.de> Provided patch for TLS to work around servers sending Supported Elliptic Curves extension unexpectedly.
Hauke Mehrtens<hauke&#064hauke-m.de> TLS patch to add ECDHE_ECDSA CCM ciphersuites from RFC 7251.
Daniel Zimmerman<dmz&#064galois.com> Further key quality improvements to RSAKeyPairGenerator.
Jens Kapitza&ltj.kapitza&#064schwarze-allianz.de> Iterable support in OpenPGP API, code cleanup in OpenPGP API.
Johan Eklund<johan&#064primekey.se> update to RFC 6960 for OCSPObjectIdentifiers.
nikosn<https://github.com/nikosn> Fix to encoding of EC private keys to ensure encoding matches order length.
Axel von dem Bruch <axel-vdb&#064riseup.net> Contributions to BCrypt/OpenBSDBCrypt, original version of Blake2bDigest.
Derek Atkins <derek&#064ihtfp.com> Documentation fixes to X9ObjectIdentifiers.
Peter Jr Halicky <peto&#064halicky.sk> Correction to notification/error message handling in SignedMailValidator.
lartiguePierre<https://github.com/lartiguePierre> Fix for counter signature SID in CMSSignedData.
Thomas Belot<thomas.belot+BC&#064gmail.com> initial CertPathLoopTest for demonstrating stack overflow issue.
Rich DiCroce<https://github.com/rdicroce> Initial implementation of server-side TLS-SRP support. TLS API extension to support non-blocking usage.
Björn Kautler<https://github.com/Vampire> Refinements to cert path validation (authority key addition, certificate order preservation).
Dominik Schürmann<https://github.com/dschuermann> method for returning signatures/verifications without user IDs on PGPPublicKey, method for exposing S2K in PGPSecretKey, constants for GNU protection modes in S2K classes, optional version header for armored output.
Michael <MSKnete&#064web.de> initial fix for bitStrength issue for OpenPGP EC keys, correction for generic type on RecipientInformationStore.
Tobias Wagner <tobias.wagner&#064n-design.de> Fix SecureRandom handling in BcAsymmetricKeyWrapper [#BJA-536].
Sergio Giro <sgiro&#064google.com> Fixed adding of additional stores from CRL distribution point [#BJA-537]. Fixed missing null check for CRL certificate issuer [#BJA-538], removal of risky zeroisation code in PBE.java, check for salt in PBEKeys that require it.
bschuette<https://github.com/bschuette> Fixed typo in DefaultSignatureAlgorithmIdentifierFinder, additional methods on CMSSignedDataParser.
Leonard Dallot<https://github.com/dallotTazTag> Fix to S2K usage of none on changing passwords on keys without passwords originally.
Jan Willem Janssen <j.w.janssen+bouncycastle&#064lxtreme.nl> Support for DSAParameters in lightweight SubjectPublicKeyInfoFactory, initial object signer verifier for BC lightweight EC.
Sebastian Oerding <sebastian.oerding@robotron.de> Fixes to toString() in x509.CertificatePolicies.
Kai Kramer <kai.kramer&#064gmail.com> Code to deal with orphaned chain certificates in the PKCS#12 KeyStore.
Benoit Charles <benoit.charles&#064opentrust.com> Fix for IES data length check on decryption.

Niko <nfink95&#064gmail.com> fix to cast issue in getOutputSize() for ECIES.
akwizgran<https://github.com/akwizgran> Fixed clone of key in Blake2bDgest copy constructor, blake2b reset issue for varient keys.
Matthias Edelhoff <Matthias.Edelhoff&#064cryptovision.com> BasicConstraintsValidation pathlen fix in PKIX certpath classes.
Lukasz Deputat <lukasz.deputat&#064gmail.com> Fixed bugs in TlsUtils read methods [#BJA-592].
Justin Ludwig <https://github.com/justinludwig> Iterator fix for PGPObjectFactory to handle stream packets at start of iterated data.
André Berenguel <https://github.com/aberenguel> Fix to include ECNamedCurveSpec in EC AlgorithmParameterSpi
Slawomir Jaranowski<https://github.com/slawekjaranowski> Patch to make cipher/hash/signature name methods in PGP internal API public.
Andrey Vasilyev<https://github.com/andrey-vasilyev> Initial implementation of GOST R 34.11-2012.
William Glanton <wglanton77&#064gmail.com> Fixed bug in Poly1305 [#BJA-620].
jdvorak001<https://github.com/jdvorak001> Speed improvements for ASN.1 ObjectIdentifier cache.
Joseph Naegele <jnaegele&#064grierforensics.com> Patch for handling multiple certificates in a DANE SMIMEA entry.
Andrew Bonventre<https://github.com/andybons> NullPointer patch for WNafUtil.
The Google Security Team (Project Wycheproof) <https://github.com/google/wycheproof> defect analysis and additional test cases for the provider.
Gorka Irazoqui <girazoki&#064wpi.edu> from Intel Security Center of Excellence <https://security-center.intel.com/> detection of the issue with AESFastEngine (CVE-2016-1000339), additional suggestions for improvement to hardening of AESEngine and finding cache sensitivities in EC key generation/signing.
Joerg Senekowitsch <joerg.senekowitsch&#064veridos.com> patch to deal with hard coded boolean in EAC ECDSAPublicKey.
Alexandr Krivoshta <wipe&#064ya.ru> N4 calculation fix to GOFB mode.
Artem Storozhuk <storojs72&#064gmail.com> N4 calculation fix to GOFB mode.
Na Yu <na.yu&#064samsung.com> Constructor patches to CMC PKIData.
Evangelos Karatsiolis <ekaratsiolis&#064mtg.de> Corrected use of explicit tagging in X.509 PolicyConstraints class.
VivleSoren <https://github.com/VivleSoren> additional constructor for McElieceCCA2PrivateKeyParameters.
mtausig <https://github.com/mtausig> JavaDoc fix for MCSEncryptedDataGenerator.
Anders Schack-Mulligen <https://github.com/aschackmull> code cleanups for CMSSignedDataParser, BrokenKDF2BytesGenerator.
Sebastian Wolfgang Roland <sebastianwolfgang.roland&#064stud.tu-darmstadt.de> Initial XMSS/XMSS-MT implementation.
didisoft <https://github.com/didisoft> test code for PGP signature removal involving user ids.
Mike Safonov<https://github.com/MikeSafonov> initial implementation of GOST3410-2012 for light weight provider and JCA, parameters patches for ECGOST keys, initial implementation of GOST3412-2015, addition of fromExtensions() for CRLDistPoint.
Artem Storozhuk <storojs72&#064gmail.com> initial implementation of DSTU7564 (digest) and DSTU7624 (cipher) and their associated modes.
Andreas Glaser <andreas.glaser&#064gi-de.com> patch to recognise ANSSI curves for PKCS#10 requests.
codeborne <https://github.com/cbxp> patch to correct OIDs used in public key digest parameters for ECGOST-2012.

FauxFaux <https://github.com/FauxFaux> patch for JDK 1.9 update to DRBG.java.
4garbage <https://github.com/4garbage> patch to allow GOST3410-94 private keys encoded as integers.
ekszz <https://github.com/ekszz> corrections to SM2 signer to include default identity value.
jminer <https://github.com/jminer> fix to Blake2b for hashes in range of 2**64-127 to 2**64.
str4d <https://github.com/str4d> initial implementation of Blake2s
Scott Woodward <scott&#064bit3consulting.com> performance fixes for CTRSP800DRBG.
David Strawn <https://github.com/isomarcte> fix for off by one error in SCRYPT bounds checking.
chris mccown <0xchrismccown&#064gmail.com> identification of serialisation issue with XMSS/XMSSMT private keys (see also CVE-2018-1000613).
ZZMarquis <https://github.com/ZZMarquis> offset patches for SM2 encryption and decryption, improvement to Array constant time comparison.
Andreas Kretschmer <https://github.com/Akretsch> NPE fix for CertTemplate.getVersion()
Armin Lunkeit, Michael Tautenhahn <> identification of M-R test issue on higher certainty values in RSA key pair generation.
Vincent Breitmoser <https://github.com/Valodim> fix to ignore unnecessary checksum calculator on PGP secret key encryption.
Adam Vartanian <https://github.com/flooey> use of ShortBuffer exception and buffer size pre-check in Cipher.doFinal().
Bernd <https://github.com/ecki> Fix to make PGPUtil.pipeFileContents use buffer and not leak file handle.
Shartung <https://github.com/shartung> Additional EC Key Agreement algorithms in support of German BSI TR-03111.
Paul Schaub <https://github.com/vanitasvitae> bringing PGPSecretKey.getUserIds() into line with PGPPublicKey.getUserIds(). Exception message fix in BcPublicKeyDataDecryptorFactory. Additional tests on PGP key ring generation.
Nick of Nexxar <https://github.com/nros> update to OpenPGP package to handle a broader range of EC curves.
catbref <https://github.com/catbref> sample implementation of RFC 7748/Ed25519 (incorporated work from github users Valodim and str4d as well).
gerlion <https://github.com/gerlion> detection of concurrency issue with pre-1.60 EC math library.
fgrieu <fgrieu&#064gmail.com> identification and suggested fixes for possible timing vulnerability in OAEPEncoding and RSACoreEngine.
MTG <https://github.com/mtgag> patch for decoding issues in PKIPublicationInfo and CertifiedKeyPair.
Andreas Gadermaier <up.gadermaier&#064gmail.com> initial version of Argon2 PBKDF algorithm.
Tony Washer <tony.washer@yahoo.co.uk> review of qTesla, Java 1.9 module code, additional test code and debugging for GOST, DSTU, and ECNR algorithms. Initial lightweight implementation of the ZUC ciphers and macs.
Vincent Bouckaert <https://github.com/veebee> initial version of RFC 4998 ASN.1 classes.
Tony Washer <https://github.com/tonywasher> ECIESKeyEncapsulation fix for use of OldCofactor mode. Submitted ChaCha20Poly1305 prototype.
Aurimas Liutikas <https://github.com/liutikas> JavaDoc patches to ReasonsMask.
Gabriel Sroka <https://github.com/gabrielsroka> corrected comments in RSA validation.
sarah-mdv <https://github.com/sarah-mdv> improvements to JceKeyTransRecipientInfoGenerator, tests for JournalingSecureRandom, initial implementation of JournaledAlgorithm.
Jesse Feinman <https://github.com/jessefeinman> performance optimisation in RSAKeyParameters.
Gilis95 <https://github.com/Gilis95> improved JSSE compatibility for setEnabledCipherSuites.

Haemin Yoo <https://github.com/yoohaemin> Javadoc fixes.
Antoine Toulme <https://github.com/atoulme> Initial implementation of EthereumIESEngine.
Golden Looly <https://github.com/looly> Patch for addition of C1C3C2 mode to SM2Engine.
Moses Palmér, TrueSec <Henrik.Palmer&#064truesec.se> Additional improvements to constant time comparisons.
René Korthaus<https://github.com/securitykernel> Update to XMSS/XMSS^MT OID values to bring them in line with RFC 8391.
THausherr<https://github.com/THausherr> Addition generic support for CMS/TSP functions.
Gaylor Bosson<https://github.com/Gilthoniel> Initial implementation of Blake2xs.
gaellalire<https://github.com/gaellalire> Patch for unprotected PGP private keys as SExpr.
im-scooter<https://github.com/im-scooter> Patch for case-insensitive behaviour of Param-Z.
Nick hitchan<https://github.com/hitchan> Fix for typo in engineInitSign() in EdEc SignatureSpi.
dbusche<https://github.com/dbusche> Argon2 optimisations.
Daniel Heldt<https://github.com/dheldt> Fixing encodings in unicode tests to allow a wider range of Java compilers to work. Tweak to inheritance in JceKeyAgreeRecipient.
Ugochukwu Mmaduekwe<https://github.com/Xor-el> Fix for initially bugged legacy Integers.numberOfLeadingZeros method.
Gsealy <https://github.com/Gsealy> addition of PBKDF2withHmacSM3 to the provider.
aphuang2013 <https://github.com/aphuang2013> update to path validation in EST service for ClearPath EST.
Kevin Herron <https://github.com/kevinherron> Initial ChaCha20Poly1305 prototype.
vkreml <https://github.com/svkreml> GOST compliance change for DefaultCMSSignatureEncryptionAlgorithmFinder.
Tobias Ospelt >tobias&#064pentagrid.ch< Identification of 1.63 regression in ASN.1 parsing.

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1.194 spring-orm 5.1.5

1.195 commons-http-client 3.1

1.196 log4j-over-slf4j 1.7.25

1.197 commons-text 1.2

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1.198 spring-security-crypto 5.1.4

1.199 spring-boot-starter-data-jpa 2.1.3

1.200 hibernate-search-engine 5.9.0

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1.201 websocket-common 9.4.18.v20190429

1.202 htmlunit-corejs 2.33

1.203 jcl-over-slf4j 1.7.25

1.204 flyway-core 5.2.4

1.205 websocket-api 9.4.18.v20190429

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The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

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* java.sun.security.ssl

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http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-impl

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 org.apache.tomcat:tomcat-juli
 org.apache.tomcat:tomcat-jsp-api
 org.apache.tomcat:tomcat-el-api
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-api
 org.apache.tomcat:tomcat-util-scan
 org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-el-api

Mortbay

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt
See http://members.unine.ch/jacques.savoy/clef/index.html.

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(common) are based on BSD-licensed reference implementations created by Jacques Savoy and
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analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
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analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java
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analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

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Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration
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1.210 maven-reporting-impl 2.1

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1.213 janino 3.0.6

1.214 javax-annotation-api 1.3.2

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1.216 core-module 1.2.3

1.217 jradius-extended 1.1.5

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1.222 doxia-decoration-model 1.1.2

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analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
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1.230 hamcrest 1.3

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1.232 jsch 0.1.50

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1.234 jackson 1.9.13

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1.242 ftplet-api 1.1.1

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*/
package org.apache.cxf.rs.security.oauth.data;

/**
* Base permission description which is visible to
* authorization handlers
* @see OAuthAuthorizationData
*/
public class Permission {
  private String permission;
  private String description;
  private boolean isDefault;

  public Permission() {

  }

  public Permission(String permission, String description) {
     this.description = description;
     this.permission = permission;
  }

  public String getDescription() {
     return description;
  }

  public void setDescription(String description) {
```

```
    this.description = description;
  }

  public String getPermission() {
    return permission;
  }

  public void setPermission(String permission) {
    this.permission = permission;
  }

  /**
   * Indicates that this permission has been allocated by default.
   * Authorization View handlers may use this property in order to restrict
   * the list of scopes which may be refused to non-default scopes only
   * @param isDefault
   */
  public void setDefault(boolean value) {
    this.isDefault = value;
  }

  public boolean isDefault() {
    return isDefault;
  }
}
```

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*/

package org.apache.cxf.io;

import java.io.IOException;
import java.io.InputStream;

/**
* Marker interface for OutputStreams that can directly support
* copying from an input stream.  OutputStreams that maintain their
* own byte buffer or similar may be able to optimize the copy
* instead of using the read/write into a temporary buffer that
* the normal IOUtils.copy method requires.
```

```
*/
public interface CopyingOutputStream {

  int copyFrom(InputStream in) throws IOException;

}
```

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1.244 byte-buddy-dep 1.9.10

1.245 bzip2 1.0.6

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1.246 spring-plugin-core 1.2.0

1.247 apache-commons-logging 1.2

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1.256 dtd-parser 1.4.1

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1.258 jcl-over-slf4j 1.7.25

1.259 commons-math 3.6.1

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The textbook (containing a proof that the shuffle is uniformly random) is
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and PowellOptimizer (package org.apache.commons.math3.optimization.general)
classes are based on the Python code in module "optimize.py" (version 0.5)
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1.260 logback-core 1.2.3

1.261 commons-pool 2.6.1

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1.262 ant 1.10.3

1.263 hikaricp-java7 2.4.13

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1.266 txw2 2.3.0

1.267 snake-yaml 1.12

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* javax.websocket:javax.websocket-api

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 org.apache.tomcat:tomcat-juli
 org.apache.tomcat:tomcat-jsp-api
 org.apache.tomcat:tomcat-el-api
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-api
 org.apache.tomcat:tomcat-util-scan
 org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-el-api

Mortbay

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org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.273 zlib 1.2.5

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*/

1.274 cxf-rt-bindings-soap 3.3.1

1.275 open-ssl 1.0.2p

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1.276 jacoco-maven-plugin 0.8.2

1.277 api-util 1.0.0

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1.279 springfox-swagger-common 2.2.2

1.280 requirejs 2.3.6

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1.282 spring-boot-starter-aop 2.1.3

1.283 spring-context 5.1.5

1.284 jackson 2.9.8

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1.285 spring-batch-core 4.1.2

1.286 unix4j-base 0.4

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1.288 aspectj-tools 1.9.2

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1.289 snmp-4j 2.4.2

1.290 doxia-site-renderer 1.1.2

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1.291 cglib-nodep 2.2.2

1.292 jaxb-runtime 2.3.1

1.293 accessors-smart 1.2

1.294 joda-time 2.10.1

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1.307 junit 4.12

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1.312 lucene-misc 5.5.5

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analysis/common/src/resources/org/apache/lucene/analysis/ar/stopwords.txt,
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analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt
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analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
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analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

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1.326 stateless4j 2.5.0

1.327 commons-beanutils-core 1.7.0

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1.328 css-parser 1.2.0

1.329 wagon-provider-api 1.0-beta 6

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1.330 curvesapi 1.06

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1.334 javax-transaction 1.1

1.335 jsdifflib 1.0

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1.337 unix4j-command 0.4

1.338 spring-framework 3.2.17

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analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java

analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java
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1.362 zlib 1.2.8

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1.363 maven-artifact 3.6.0

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1.366 apache-el 8.5.35.1

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1.370 reflections 0.9.9

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1.377 threetenbp 1.3.6

1.378 spring-integration-core 5.1.3

1.379 spring-jdbc 5.1.5

1.380 cxf-rt-transports-http 3.3.1

1.381 activation 1.2.0

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Specification: JSR-925 JavaBeans Activation Framework ("Specification")

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Release: July 2017

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1.383 httpcomponents-mime 4.5.7

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1.387 underscore-js 1.8.3

1.388 jdbc-starter 2.1.3

1.389 regexp 2.7.2

1.390 cglib 3.2.10

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1.396 libjpeg 6b

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==

README for release 6b of 27-Mar-1998
====================================

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This software is the work of Tom Lane, Philip Gladstone, Jim Boucher,
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DOCUMENTATION ROADMAP
=====================

This file contains the following sections:

OVERVIEW   General description of JPEG and the IJG software.
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REFERENCES   Where to learn more about JPEG.
ARCHIVE LOCATIONS   Where to find newer versions of this software.
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FILE FORMAT WARS   Software *not* to get.
TO DO   Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:
 install.doc How to configure and install the IJG software.
 usage.doc Usage instructions for cjpeg, djpeg, jpegtran,
  rdjpgcom, and wrjpgcom.
 *.1 Unix-style man pages for programs (same info as usage.doc).
 wizard.doc Advanced usage instructions for JPEG wizards only.
 change.log Version-to-version change highlights.
Programmer and internal documentation:
 libjpeg.doc How to use the JPEG library in your own programs.
 example.c Sample code for calling the JPEG library.
 structure.doc Overview of the JPEG library's internal structure.
 filelist.doc Road map of IJG files.
 coderules.doc Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW
========

This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images. JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files,
plus two sample applications "cjpeg" and "djpeg", which use the library to
perform conversion between JPEG and some other popular image file formats.
The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included
considerable functionality beyond the bare JPEG coding/decoding capability;
for example, the color quantization modules are not strictly part of JPEG
decoding, but they are essential for output to colormapped file formats or
colormapped displays. These extra functions can be compiled out of the
library if not required for a particular application. We have also included
"jpegtran", a utility for lossless transcoding between different JPEG
processes, and "rdjpgcom" and "wrjpgcom", two simple applications for
inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and
flexibility, while also making it fast enough to be useful. In particular,
the software is not intended to be read as a tutorial on JPEG. (See the
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of any program generated from the IJG code, this does not limit you more than
the foregoing paragraphs do.

The Unix configuration script "configure" was produced with GNU Autoconf.
It is copyright by the Free Software Foundation but is freely distributable.
The same holds for its supporting scripts (config.guess, config.sub,
ltconfig, ltmain.sh). Another support script, install-sh, is copyright
by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by
patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot
legally be used without obtaining one or more licenses. For this reason,
support for arithmetic coding has been removed from the free JPEG software.

(Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

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REFERENCES
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We highly recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is
Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44.
(Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

The best full description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US$59.95, 638 pp.

The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2). This is by far the most complete exposition of JPEG in existence, and we highly recommend it.

The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging $95 for Part 1 and $47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:
Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314
A PostScript version of this document is available by FTP at ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from ftp.sgi.com or from ftp://ftp.uu.net/graphics/jpeg/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note. libtiff is available from ftp://ftp.sgi.com/graphics/tiff/.

ARCHIVE LOCATIONS
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The "official" archive site for this software is ftp.uu.net (Internet address 192.48.96.9). The most recent released version can always be found there in directory graphics/jpeg. This particular version will be archived as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only ftp.uu.net is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups. It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/. If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body

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RELATED SOFTWARE
==========

Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBMPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites, notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/.

Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is;
you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford,
is available from ftp://havefun.stanford.edu/pub/jpeg/. This program
is designed for research and experimentation rather than production use;
it is slower, harder to use, and less portable than the IJG code, but it
is easier to read and modify. Also, the PVRG code supports lossless JPEG,
which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS

Some JPEG programs produce files that are not compatible with our library.
The root of the problem is that the ISO JPEG committee failed to specify a
concrete file format. Some vendors "filled in the blanks" on their own,
creating proprietary formats that no one else could read. (For example, none
of the early commercial JPEG implementations for the Macintosh were able to
exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format
has been agreed to by a number of major commercial JPEG vendors, and it has
become the de facto standard. JFIF is a minimal or "low end" representation.
We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF
Technical Note #2) for "high end" applications that need to record a lot of
additional data about an image. TIFF/JPEG is fairly new and not yet widely
supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF.
SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should
be able to read the most common variant of SPIFF. SPIFF has some technical
advantages over JFIF, but its major claim to fame is simply that it is an
official standard rather than an informal one. At this point it is unclear
whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto
standard. IJG intends to support SPIFF once the standard is frozen, but we
have not decided whether it should become our default output format or not.
(In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist.
We have little or no sympathy for the existence of these formats. Indeed,
one of the original reasons for developing this free software was to help
force convergence on common, open format standards for JPEG files. Don't
use a proprietary file format!

TO DO

The major thrust for v7 will probably be improvement of visual quality.
The current method for scaling the quantization tables is known not to be
very good at low Q values. We also intend to investigate block boundary
smoothing, "poor man's variable quantization", and other means of improving
quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG
Part 3 extensions --- principally, variable quantization and the SPIFF file
format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.

1.397 codegen 0.6.8

1.398 easymock 3.1

1.398.1 Available under license :

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1.405 jlibmodbus 1.2.8.4

1.406 json-simple 1.1.1

1.407 stax 3.1.4

1.407.1 Available under license :

Jackson JSON processor

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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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1.408 swagger 1.5.3

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```
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public class License {
  private String name;
  private String url;

  public License name(String name) {
    setName(name);
    return this;
  }

  public License url(String url) {
```

```
    setUrl(url);
    return this;
}

public String getName() {
    return name;
}

public void setName(String name) {
    this.name = name;
}

public String getUrl() {
    return url;
}

public void setUrl(String url) {
    this.url = url;
}

@Override
public int hashCode() {
    final int prime = 31;
    int result = 1;
    result = prime * result + ((name == null) ? 0 : name.hashCode());
    result = prime * result + ((url == null) ? 0 : url.hashCode());
    return result;
}

@Override
public boolean equals(Object obj) {
    if (this == obj) {
        return true;
    }
    if (obj == null) {
        return false;
    }
    if (getClass() != obj.getClass()) {
        return false;
    }
    License other = (License) obj;
    if (name == null) {
        if (other.name != null) {
            return false;
        }
    } else if (!name.equals(other.name)) {
        return false;
    }
```

```
        if (url == null) {
            if (other.url != null) {
                return false;
            }
        } else if (!url.equals(other.url)) {
            return false;
        }
        return true;
    }
}
```

1.409 bean-validation-api 2.0.1

1.409.1 Available under license :

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1.410 jackson-databind 2.10.0

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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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1.411 cxf-rt-wsdl 3.3.1

1.412 velocity 2.0

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1.413 guava 25.1

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1.414 sqlite 3.21.0

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1.415 postgre-sql 42.2.5

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1.416 postgresql-jdbc 42.2.5

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```
---
layout: default
title: PostgreSQL JDBC Contributors
resource: ../media
nav: ../
---

{% include submenu_community.html %}

  <div id="pgContentWrap">
   <h1>Contributors</h1>
   <hr />
   <div>
    <ul>
     <li><a href="#maintainers">Maintainers</a></li>
     <li><a href="#authors">Previous Maintainers</a></li>
     <li><a href="#developers">Developers</a></li>
     <li><a href="#translators">Translators</a></li>
    </ul>
   </div>
   <hr />

   <a name="maintainers"></a>
   <h2 class="underlined_10">Maintainers</h2>
   <div>
    <p>
     Please do not contact the maintainers directly unless you have
     a specific need to contact just them.  Please use the
     <a href="mailinglist.html#general">pgsql-jdbc@postgresql.org</a>
     mailing list if at all possible.
    </p>
    <ul>
     <li>[davec] - Dave Cramer (pg.at.fastcrypt.com)</li>
     <li>[jurka] - Kris Jurka (jurka.at.ejurka.com)</li>
     <li>[oliver] - Oliver Jowett (oliver.at.opencloud.com)</li>
    </ul>
   </div>
   <hr />

   <a name="authors"></a>
   <h2 class="underlined_10">Previous Maintainers</h2>
   <div>
    <p>
     The original JDBC driver was written by Adrian Hall.  Peter Mount
     and Barry Lind have maintained it in the past, but have
     since moved on to other things.
    </p>
```

```
</div>
<hr />

<a name="developers"></a>
<h2 class="underlined_10">Developers</h2>
<div>
 <p>
  People who have contributed significant code to the project since
  the 7.4 release.  A careful historical study has not been
  commissioned, but if you've done something valuable, we'd
  be happy to recognize you for it.  Just let us know.
 </p>
 <ul>
  <li>Jan Andre le Roux
   <ul>
    <li>ResultSetMetaData information based on the V3 protocol</li>
   </ul>
  </li>
  <li>Jaroslaw J. Pyszny
   <ul>
    <li>Improve MetaData regarding the serial datatype</li>
   </ul>
  </li>
  <li>Ulrich Meis
   <ul>
    <li>Allow users to customize the SSL connection</li>
   </ul>
  </li>
  <li>Xavier Poinsard
   <ul>
    <li>Standard escaped functions {fn ...() }</li>
   </ul>
  </li>
  <li>Oliver Siegmar
   <ul>
    <li>Support for infinity in the timestamp datatype</li>
    <li>Make PGInterval able to decode and manipulate interval data</li>
   </ul>
  </li>
  <li>Michael Barker
   <ul>
    <li>Blob write and position methods.</li>
   </ul>
  </li>
  <li>Andras Kadinger
   <ul>
    <li>Support asynchronous notification retrieval.</li>
   </ul>
```

```
 </li>
 <li>Heikki Linnakangas
  <ul>
   <li>XADataSource implementation.</li>
  </ul>
 </li>
 <li>Luis Vilar Flores
  <ul>
   <li>Reduce memory usage retrieving bytea data.</li>
  </ul>
 </li>
 <li>Michael Paesold
  <ul>
   <li>Correctly parse dollar quotes and comments.</li>
   <li>Work with standard_conforming_strings = on.</li>
  </ul>
 </li>
 <li>Mikko Tiihonen
  <ul>
   <li>Improve speed of parsing ResultSet data.</li>
  </ul>
 </li>
 <li>Marek Lewczuk
  <ul>
   <li>Support multi-dimensional arrays and NULL array elements.</li>
  </ul>
 </li>
</ul>
</div>
<hr />

<a name="translators"></a>
<h2 class="underlined_10">Translators</h2>
<div>
 <ul>
  <li>cs - Czech
   <ul>
    <li>Petr Dittrich</li>
   </ul>
  </li>
  <li>de - German
   <ul>
    <li>Andre Bialojahn</li>
   </ul>
  </li>
  <li>es - Spanish
   <ul>
    <li>Diego A. Gil</li>
```

```
 </ul>
</li>
<li>fr - French
 <ul>
  <li>Xavier Poinsard</li>
 </ul>
</li>
<li>it - Italian
 <ul>
  <li>Giuseppe Sacco</li>
 </ul>
</li>
<li>pl - Polish
 <ul>
  <li>Jaroslaw Pyszny</li>
 </ul>
</li>
<li>pt_BR - Brazilian Portuguese
 <ul>
  <li>Euler Taveira de Oliveira</li>
 </ul>
</li>
<li>ru - Russian
 <ul>
  <li>Serguei Mokhov</li>
 </ul>
</li>
<li>sr - Serbian
 <ul>
  <li>Bojan Skaljac</li>
 </ul>
</li>
<li>tr - Turkish
 <ul>
  <li>Devrim Gunduz</li>
  <li>Nicolai Tufar</li>
 </ul>
</li>
<li>zh_CN - Simplified Chinese
 <ul>
  <li>Weiping</li>
  <li>Kuo ChaoYi</li>
 </ul>
</li>
<li>zh_TW - Traditional Chinese
 <ul>
  <li>Zhenbang Wei</li>
  <li>Kuo ChaoYi</li>
```

```
      </ul>
     </li>
    </ul>
   </div>
  </div> <!-- pgContentWrap -->
```

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title: PostgreSQL JDBC License
resource: ../media
nav: ../
---

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   </p>
   <hr />
```

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POSSIBILITY OF SUCH DAMAGE.</pre>
    <!-- pgContentWrap -->
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 "Alexander Kjll" : "https://github.com/alexanderkjall",
 "Barnabas Bodnar" : "https://github.com/bbodnar",
 "Brett Okken" : "https://github.com/bokken",
 "Brett Wooldridge" : "https://github.com/brettwooldridge",
 "Chen Huajun" : "https://github.com/ChenHuajun",
 "Christian Kotzbauer" : "https://github.com/code-chris",
 "Christian Ullrich" : "https://github.com/chrullrich",
 "Christoph Berg" : "https://github.com/ChristophBerg",
 "Christopher Deckers" : "https://github.com/Chrriis",
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 "Jacques Fuentes" : "https://github.com/jpfuentes2",
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"Jamie Pullar" : "https://github.com/JamiePullar",
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"Joe Kutner" : "https://github.com/jkutner",
"Jordan Lewis" : "https://github.com/jordanlewis",
"Jorge Solorzano" : "https://github.com/jorsol",
"Kazuhiro Sera" : "https://github.com/seratch",
"KimBisgaardDmi" : "https://github.com/KimBisgaardDmi",
"Kyotaro Horiguchi" : "https://github.com/horiguti",
"Laurenz Albe" : "https://github.com/laurenz",
"Magnus" : "https://github.com/magJ",
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"Marc Petzold" : "https://github.com/dosimeta",
"Marc Slemko" : "https://github.com/znep",
"Marios Trivyzas" : "https://github.com/matriv",
"Mathias Fuenegger" : "https://github.com/mfussenegger",
"Michael Glaesemann" : "https://github.com/grzm",
"MichaelZg" : "https://github.com/michaelzg",
"Michele Mancioppi" : "https://github.com/michele-mancioppi",
"Minglei Tu" : "https://github.com/tminglei",
"Pavel Raiskup" : "https://github.com/praiskup",
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"Robert Zenz" : "https://github.com/RobertZenz",
"Roman Ivanov" : "https://github.com/romani",
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"Sehrope Sarkuni" : "https://github.com/sehrope",
"Selene Feigl" : "https://github.com/sfeigl",
"Sidi Mohamed EL AATIFI" : "https://github.com/elaatifi",
"Simon Stelling" : "https://github.com/stellingsimon",
"Stephen Nelson" : "https://github.com/lordnelson",
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"Vladimir Sitnikov" : "https://github.com/vlsi",
"Zemian Deng" : "https://github.com/zemian",
"aryabukhin" : "https://github.com/aryabukhin",
"bazzargh" : "https://github.com/bazzargh",
"bd-infor" : "https://github.com/bd-infor",
"benbenw" : "https://github.com/benbenw",

"benoit" : "https://github.com/benbenw",
"bpd0018" : "https://github.com/bpd0018",
"chalda" : "https://github.com/ochaloup",
"djydewang" : "https://github.com/djydewang",
"eperez" : "https://github.com/eperez",
"goeland86" : "https://github.com/goeland86",
"mjanczykowski" : "https://github.com/mjanczykowski",
"rnveach" : "https://github.com/rnveach",
"slmsbrhgn" : "https://github.com/slmsbrhgn",
"trtrmitya" : "https://github.com/trtrmitya",
"zapov" : "https://github.com/zapov",
"lvaro Hernndez Tortosa" : "https://github.com/ahachete",
"tienne BERSAC" : "https://github.com/bersace"
}

1.417 threetenbp 1.3.3

1.418 json-java 20180130

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1.419 byte-buddy 1.9.10

1.420 codegen 0.6.8

1.421 commons-lang 2.3

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1.422 swagger-ui 3.24.0

1.423 tomcat-juli 9.0.16

1.424 plexus-container-default 1.0-alpha-9-stable-1

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1.425 mysema-commons-lang 0.2.4

1.426 maven-settings 2.2.1

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