

Primavera Cloud

Licensing Information User Manual



G53929-01
April 2026



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angus-activation

Provider: Eclipse Foundation

Component(s): angus-activation

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angus-mail

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Component(s): classgraph

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Provider: FasterXML,LLC

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Other developers who have contributed code are:

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dropwizard metrics-core

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Component(s): dropwizard metrics-core

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Guava 33.5.0-jre

Provider: The Guava Authors

Component(s): Guava 33.5.0-jre

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* [The specification repository](https://github.com/jakartaee/validation-spec)
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jackson-dataformat-yaml

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Component(s): jackson-dataformat-yaml

jackson-dataformat-yaml

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Provider: FasterXML, LLC

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jackson-jakarta-rs-base

Provider: FasterXML, LLC

Component(s): jackson-jakarta-rs-base

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```

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Provider: FasterXML, LLC

Component(s): jackson-jakarta-rs-json-provider

pkg:maven/com.fasterxml.jackson.jakarta.rs/jackson-jakarta-rs-json-provider

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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 been in development since 2007.

It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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This is a Java port of Daniel Lemire's fast_float project.

This project provides parsers for double, float, BigDecimal and BigInteger values.

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jackson-module-kotlin

Provider: FasterXML, LLC

Component(s): jackson-module-kotlin

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jersey-client

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Component(s): jersey-client

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```

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Source Code

The project maintains the following source code repositories:

<https://github.com/eclipse-ee4j/glassfish-ha-api>

<https://github.com/eclipse-ee4j/glassfish-logging-annotation-processor>

<https://github.com/eclipse-ee4j/glassfish-shoal>

<https://github.com/eclipse-ee4j/glassfish-cdi-porting-tck>

<https://github.com/eclipse-ee4j/glassfish-jsftemplating>

<https://github.com/eclipse-ee4j/glassfish-hk2-extra>

Third-party Content

jersey-declarative-linking

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Component(s): jersey-declarative-linking

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* <https://github.com/eclipse-ee4j/jersey>

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Jackson JAX-RS Providers version 2.17.2

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https://github.com/lemire/fast_double_parser/blob/07d9189a8fb815fe800cb15ca022e7a07093236e/LICENSE.BSL

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This is a Java port of Daniel Lemire's fast_float project.
This project provides parsers for double, float, BigDecimal and BigInteger values.

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Jackson is a high-performance, Free/Open Source JSON processing library.

It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.
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- * Source: <https://github.com/apache/maven-plugin-tools/tree/maven-plugin-tools-3.5.1/maven-plugin-annotations>

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mex.xsd Version: 2004/09 (n/a)

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* Project: <https://www.w3.org/Submission/WS-MetadataExchange/#appendix-II>

* Source: <http://schemas.xmlsoap.org/ws/2004/09/mex/MetadataExchange.xsd>

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stax2-api (4.1)

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* Project: <https://github.com/FasterXML/stax2-api>

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<http://central.maven.org/maven2/org/codehaus/woodstox/stax2-api/4.1/stax2-api-4.1-sources.jar>

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woodstox-core-asl (4.4.1)

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wsat.xsd Version: 2004/10 (n/a)

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wsrm Version: 2005/02 (n/a)

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* Source:
  http://schemas.xmlsoap.org/ws/2005/02/rm/wsrm.xsd;%20http://schemas.xmlsoap.org/ws/
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jersey-server

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Component(s): jersey-server

jersey-core-server (org.glassfish.jersey.core:jersey-server)
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Source Code

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* <https://github.com/eclipse-ee4j/jersey>

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== Name of dependency

pkg:maven/jakarta.annotation/jakarta.annotation-api

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== Name of dependency

pkg:maven/jakarta.inject/jakarta.inject-api

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pkg:maven/jakarta.validation/jakarta.validation-api

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```

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------(separator)-----

== Name of dependency

pkg:maven/org.glassfish.hk2/class-model

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* https://github.com/eclipse-ee4j/glassfish-ha-api
* https://github.com/eclipse-ee4j/glassfish-logging-annotation-processor
* https://github.com/eclipse-ee4j/glassfish-shoal
* https://github.com/eclipse-ee4j/glassfish-cdi-porting-tck
* https://github.com/eclipse-ee4j/glassfish-jsftemplating
* https://github.com/eclipse-ee4j/glassfish-hk2-extra
* https://github.com/eclipse-ee4j/glassfish-hk2
* https://github.com/eclipse-ee4j/glassfish-fighterfish

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== Name of dependency

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------(separator)-----

== Name of dependency

pkg:maven/org.glassfish.hk2/osgi-resource-locator

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== Name of dependency

pkg:maven/org.glassfish.hk2/spring-bridge

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org.glassfish.jersey.ext/jersey-spring6)
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<HEAD>
<TITLE>Javassist License</TITLE>
<META http-equiv=Content-Type content="text/html; charset=iso-8859-1">
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- * org.apache.tomcat:tomcat-api

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- * Providing benchmark suite
- * Alec Wysoker
- * Performance and memory usage improvement

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The following provides more details on the included cryptographic software:

This software uses the SSL libraries from the Jetty project written by mortbay.org.

Hadoop Yarn Server Web Proxy uses the BouncyCastle Java cryptography APIs written by the Legion of the Bouncy Castle Inc.

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17) io.opentelemetry.proto:opentelemetry-proto

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21) com.fasterxml.jackson.core:jackson-databind
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24) com.fasterxml.jackson.dataformat:jackson-dataformat-csv
25) com.fasterxml.jackson.dataformat:jackson-dataformat-yaml
26) com.fasterxml.jackson.datatype:jackson-datatype-jdk8
27) com.fasterxml.jackson:jackson-bom

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22) org.pcollections:pcollections

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29) com.yammer.metrics:metrics-core

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R & S values of the signature to and from DER, which was originally
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34) org.slf4j:slf4j-api

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35) org.hdrhistogram:HdrHistogram

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log4j-over-slf4j

Provider: QOS.ch

Component(s): log4j-over-slf4j

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```

```
-----
-
4th party dependency
-----
-
org.jstestrunner:jstestrunner
```

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 */
```

micrometer-observation

Provider: VMware, Inc.

Component(s): micrometer-observation

micrometer-observation

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-
4th party dependency

-
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micrometer-observation

Provider: VMware, Inc.

Component(s): micrometer-observation

micrometer-observation

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-
4th party dependency

-
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Provider: Mike Samuel

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OSXAdapter

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Java UUID generator library has been written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

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import sbtlicensereport.SbtLicenseReport
import sbtlicensereport.SbtLicenseReport.autoImportImpl._
import sbtlicensereport.license.{ DepModuleInfo, MarkDown }

object LicenseReport extends AutoPlugin {

  override lazy val projectSettings = Seq(
    licenseReportTypes := Seq(MarkDown),
    licenseReportMakeHeader := (language => language.header1("License Report")),
    licenseConfigurations := Set("compile", "test", "provided"),
    licenseDepExclusions := {
      case DepModuleInfo("org.apache.pekko", _, _) => true // Inter pekko project
dependencies are pointless
      case DepModuleInfo(_, "scala-library", _)    => true // Scala library is part of
Scala language
    },
    licenseReportColumns := Seq(
      Column.Category,
      Column.License,
      Column.Dependency,
      Column.OriginatingArtifactName,
      Column.Configuration))

  override lazy val requires = plugins.JvmPlugin && SbtLicenseReport

  override lazy val trigger = allRequirements
}

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in `org.apache.pekko.util.UUIDComparator.scala` which was released under an Apache 2.0 license.

Java UUID generator library has been written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

* Eric Bie contributed extensive unit test suite which has helped ensure high
implementation
quality

pekko-remote contains CountMinSketch.java which was developed under an Apache 2.0 license.

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The dotty compiler frontend has been developed since November 2012 by Martin Odersky. It is expected and hoped for that the list of contributors to the codebase will grow quickly. Dotty draws inspiration and code from the original Scala compiler "nsc", which is developed at `scala/scala` [1].

The majority of the dotty codebase is new code, with the exception of the components mentioned below. We have for each component tried to come up with a list of the original authors in the `scala/scala` [1] codebase. Apologies if some major authors were omitted by oversight.

- * `dotty.tools.dotc.ast`: The syntax tree handling is mostly new, but some elements, such as the idea of tree copiers and the `TreeInfo`` module, were adopted from `scala/scala` [1]. The original authors of these parts include Martin Odersky, Paul Phillips, Adriaan Moors, and Matthias Zenger.
- * `dotty.tools.dotc.classpath`: The classpath handling is taken mostly as is from `scala/scala` [1]. The original authors were Grzegorz Kossakowski, Michał Pocięcha, Łukasz Rytz, Jason Zaugg and others.
- * `dotty.tools.dotc.config`: The configuration components were adapted and extended from `scala/scala` [1]. The original sources were authored by Paul Phillips with contributions from Martin Odersky, Miguel Garcia and others.
- * `dotty.tools.dotc.core`: The core data structures and operations are mostly new. Some parts (e.g. those dealing with names) were adapted from `scala/scala` [1]. These were originally authored by Martin Odersky, Adriaan Moors, Jason Zaugg, Paul Phillips, Eugene Burmako and others.
- * `dotty.tools.dotc.core.pickling`: The classfile readers were adapted from the current Scala compiler. Original authors were Martin Odersky, Iulian Dragos, Matthias Zenger and others.
- * `dotty.tools.dotc.parsing`: The lexical and syntactic analysis components were adapted from the current Scala compiler. They were originally authored by Martin Odersky, Burak Emir, Paul Phillips, Lex Spoon, Sean McDermid and

others.

- * `dotty.tools.dotc.profile`: The per-phase profiling support is taken mostly as is from `scala/scala`. The original author was Mike Skells.
- * `dotty.tools.dotc.reporting`: Adapted from `scala/scala` [1] with some heavy modifications. They were originally authored by Matthias Zenger, Martin Odersky, and others.
- * `dotty.tools.dotc typer`: This is new code except for some minor components (e.g. the `ConstantFolder`). It uses however many solution details that have been developed over time by many people, including Jason Zaugg, Adriaan Moors, Lukas Rytz, Paul Phillips, Grzegorz Kossakowski, and others.
- * `dotty.tools.dotc.util`: The utilities package is a mix of new and adapted components. The files in `scala/scala` [1] were originally authored by many people, including Paul Phillips, Martin Odersky, Sean McDirmid, and others.
- * `dotty.tools.io`: The I/O support library was adapted from current Scala compiler. Original authors were Paul Phillips and others.
- * `dotty.test.DottyBytecodeTest`: Is an adaptation of the bytecode testing from `scala/scala` [1]. It has been reworked to fit the needs of `dotty`. Original authors include: Adrian Moors, Lukas Rytz, Grzegorz Kossakowski, Paul Phillips.
- * `dotty.tools.dotc.sbt` and everything in `sbt-bridge`: The sbt compiler phases are based on [2] which attempts to integrate the sbt phases into scalac and is itself based on the compiler bridge in sbt 0.13 [3], but has been heavily adapted and refactored. Original authors were Mark Harrah, Grzegorz Kossakowski, Martin Duhemm, Adriaan Moors and others.
- * `dotty.tools.dotc.plugins`: Adapted from `scala/scala` [1] with some modifications. They were originally authored by Lex Spoon, Som Snytt, Adriaan Moors, Paul Phillips and others.
- * `dotty.tools.scaladoc`: The Scaladoc documentation utility ships some third-party JavaScript and CSS libraries which are located under `scaladoc/resources/dotty_res/styles/`, `scaladoc/resources/dotty_res/scripts/`, `docs/css/` and `docs/js/`. Please refer to the license header of the concerned files for details.
- * `dotty.tools.dotc.coverage`: Coverage instrumentation utilities have been adapted from the `scoverage` plugin for scala 2 [4], which is under the Apache 2.0 license.
- * `dotty.tools.pc`: Presentation compiler implementation adapted from `scalameta/metals` [5] `mtags` module, which is under the Apache 2.0 license.
- * The Dotty codebase contains parts which are derived from the ScalaPB protobuf library [6], which is under the Apache 2.0 license.

[1] <https://github.com/scala/scala>

[2] <https://github.com/adriaanm/scala/tree/sbt-api-consolidate/src/compiler/scala/tools/sbt>

[3] <https://github.com/sbt/sbt/tree/0.13/compile/interface/src/main/scala/xsbt>

[4] <https://github.com/scoverage/scalac-scoverage-plugin>

[5] <https://github.com/scalameta/metals>

[6] <https://github.com/lampepfl/dotty/pull/5783/files>

```

------(separator)-----
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- actor/src/main/scala-2.12/org/apache/pekko/util/ccompat/package.scala
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```
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- distributed-data/src/main/scala/org/apache/pekko/cluster/ddata/ORSet.scala
- persistence-typed/src/main/scala/org/apache/pekko/persistence/typed/crdt/ORSet.scala

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- ./remote/src/test/java/org/apache/pekko/remote/artery/aeron/AeronStat.java
- ./remote/src/test/java/org/apache/pekko/remote/artery/RateReporter.java
- ./remote/src/main/java/org/apache/pekko/remote/artery/aeron/AeronErrorLog.java

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remote/src/test/resources/ssl/ contains shell scripts that are based on some in Play Samples <<https://github.com/playframework/play-samples/>>. The original scripts were released under a CC0 1.0 Universal license.

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*/

import sbt._
import sbtlicensereport.SbtLicenseReport
import sbtlicensereport.SbtLicenseReport.autoImportImpl._
import sbtlicensereport.license.{ DepModuleInfo, MarkDown }

object LicenseReport extends AutoPlugin {

  override lazy val projectSettings = Seq(
    licenseReportTypes := Seq(MarkDown),
    licenseReportMakeHeader := (language => language.header1("License Report")),
    licenseConfigurations := Set("compile", "test", "provided"),
    licenseDepExclusions := {
      case DepModuleInfo("org.apache.pekko", _, _) => true // Inter pekko project
dependencies are pointless
      case DepModuleInfo(_, "scala-library", _)    => true // Scala library is part of
Scala language
    },
    licenseReportColumns := Seq(
      Column.Category,
      Column.License,
      Column.Dependency,
      Column.OriginatingArtifactName,
      Column.Configuration))

  override lazy val requires = plugins.JvmPlugin && SbtLicenseReport

  override lazy val trigger = allRequirements
}

----- Separator -----

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Java UUID generator library has been written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

* Eric Bie contributed extensive unit test suite which has helped ensure high implementation quality

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*/

import sbt._
import sbtlicensereport.SbtLicenseReport
import sbtlicensereport.SbtLicenseReport.autoImportImpl._
import sbtlicensereport.license.{ DepModuleInfo, Markdown }

object LicenseReport extends AutoPlugin {

  override lazy val projectSettings = Seq(
    licenseReportTypes := Seq(MarkDown),
    licenseReportMakeHeader := (language => language.header1("License Report")),
    licenseConfigurations := Set("compile", "test", "provided"),
    licenseDepExclusions := {
      case DepModuleInfo("org.apache.pekko", _, _) => true // Inter pekko project
dependencies are pointless
      case DepModuleInfo(_, "scala-library", _)    => true // Scala library is part of
Scala language
    },
    licenseReportColumns := Seq(
      Column.Category,
      Column.License,
      Column.Dependency,
      Column.OriginatingArtifactName,
      Column.Configuration))

  override lazy val requires = plugins.JvmPlugin && SbtLicenseReport

  override lazy val trigger = allRequirements

}

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Java UUID generator library has been written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

* Eric Bie contributed extensive unit test suite which has helped ensure high
implementation
quality

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pekko-cluster-tools_3

Provider: The Apache Software Foundation

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 */

import sbt._
import sbtlicensereport.SbtLicenseReport
import sbtlicensereport.SbtLicenseReport.autoImportImpl._
import sbtlicensereport.license.{ DepModuleInfo, Markdown }

object LicenseReport extends AutoPlugin {

  override lazy val projectSettings = Seq(
    licenseReportTypes := Seq(MarkDown),
    licenseReportMakeHeader := (language => language.header1("License Report")),
    licenseConfigurations := Set("compile", "test", "provided"),
    licenseDepExclusions := {
      case DepModuleInfo("org.apache.pekko", _, _) => true // Inter pekko project
    }
  )
}
```

```
dependencies are pointless
    case DepModuleInfo(_, "scala-library", _) => true // Scala library is part of
Scala language
  },
  licenseReportColumns := Seq(
    Column.Category,
    Column.License,
    Column.Dependency,
    Column.OriginatingArtifactName,
    Column.Configuration))

override lazy val requires = plugins.JvmPlugin && SbtLicenseReport

override lazy val trigger = allRequirements
}

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Java UUID generator library has been written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

* Eric Bie contributed extensive unit test suite which has helped ensure high
implementation
quality

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```
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./remote/src/test/java/org/apache/pekko/remote/artery/RateReporter.java
./remote/src/main/java/org/apache/pekko/remote/artery/aeron/AeronErrorLog.java
```

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 */

import sbt._
import sbtlicensereport.SbtLicenseReport
import sbtlicensereport.SbtLicenseReport.autoImportImpl._
import sbtlicensereport.license.{ DepModuleInfo, MarkDown }

object LicenseReport extends AutoPlugin {

  override lazy val projectSettings = Seq(
    licenseReportTypes := Seq(MarkDown),
    licenseReportMakeHeader := (language => language.header1("License Report")),
    licenseConfigurations := Set("compile", "test", "provided"),
    licenseDepExclusions := {
      case DepModuleInfo("org.apache.pekko", _, _) => true // Inter pekko project
dependencies are pointless
      case DepModuleInfo(_, "scala-library", _)    => true // Scala library is part of
Scala language
    },
  )
}
```

```

        licenseReportColumns := Seq(
            Column.Category,
            Column.License,
            Column.Dependency,
            Column.OriginatingArtifactName,
            Column.Configuration))

    override lazy val requires = plugins.JvmPlugin && SbtLicenseReport

    override lazy val trigger = allRequirements
}

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Java UUID generator library has been written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

* Eric Bie contributed extensive unit test suite which has helped ensure high
implementation
quality

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Other developers who have contributed code are:

* Eric Bie contributed extensive unit test suite which has helped ensure high implementation quality

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Java UUID generator library has been written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

* Eric Bie contributed extensive unit test suite which has helped ensure high
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Java UUID generator library has been written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

* Eric Bie contributed extensive unit test suite which has helped ensure high
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Java UUID generator library has been written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

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```
ServerSentEventTest.java
- http-core/src/main/java/org/apache/pekko/http/javadsl/model/sse/ServerSentEvent.java
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```
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  AsciiTreeLayout.scala
```

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- http-tests/src/test/java/org/apache/pekko/http/javadsl/unmarshalling/sse/EventStreamUnmarshallingTest.java
- http-core/src/test/java/org/apache/pekko/http/javadsl/model/sse/ServerSentEventTest.java
- http-core/src/main/java/org/apache/pekko/http/javadsl/model/sse/ServerSentEvent.java
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- http-core/src/main/scala/org/apache/pekko/http/impl/engine/http2/util/AsciiTreeLayout.scala

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```

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  EventStreamUnmarshallingTest.java
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  ServerSentEventTest.java
- http-core/src/main/java/org/apache/pekko/http/javadsl/model/sse/ServerSentEvent.java
- http-core/src/main/java/org/apache/pekko/http/javadsl/model/headers/LastEventId.java

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- http-core/src/main/scala/org/apache/pekko/http/impl/engine/http2/util/
  AsciiTreeLayout.scala

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- `http-core/src/main/scala-2.13-/org/apache/pekko/http/ccompat/package.scala`
- `http-core/src/main/scala-2.13-/org/apache/pekko/http/ccompat/CompatImpl.scala`

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- `http-core/src/test/scala/org/apache/pekko/http/HashCodeCollider.scala`
- `http-tests/src/test/scala/org/apache/pekko/http/HashCodeCollider.scala`

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- http-core/src/main/scala/org/apache/pekko/http/scaladsl/model/DateTime.scala

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- http-tests/src/test/java/org/apache/pekko/http/javadsl/marshalling/sse/EventStreamMarshallingTest.java
- http-tests/src/test/java/org/apache/pekko/http/javadsl/unmarshalling/sse/EventStreamUnmarshallingTest.java
- http-core/src/test/java/org/apache/pekko/http/javadsl/model/sse/ServerSentEventTest.java
- http-core/src/main/java/org/apache/pekko/http/javadsl/model/sse/ServerSentEvent.java
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- http-core/src/main/scala/org/apache/pekko/http/impl/engine/http2/util/AsciiTreeLayout.scala

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- http-tests/src/test/java/org/apache/pekko/http/javadsl/unmarshalling/sse/EventStreamUnmarshallingTest.java
- http-core/src/test/java/org/apache/pekko/http/javadsl/model/sse/ServerSentEventTest.java
- http-core/src/main/java/org/apache/pekko/http/javadsl/model/sse/ServerSentEvent.java
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- http-core/src/main/scala/org/apache/pekko/http/impl/engine/http2/util/AsciiTreeLayout.scala

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The dotty compiler frontend has been developed since November 2012 by Martin Odersky. It is expected and hoped for that the list of contributors to the codebase will grow quickly. Dotty draws inspiration and code from the original Scala compiler "nsc", which is developed at scala/scala [1].

The majority of the dotty codebase is new code, with the exception of the components mentioned below. We have for each component tried to come up with a list of the original authors in the scala/scala [1] codebase. Apologies if some major authors were omitted by oversight.

- * dotty.tools.dotc.ast: The syntax tree handling is mostly new, but some elements, such as the idea of tree copiers and the `TreeInfo` module, were adopted from scala/scala [1]. The original authors of these parts include Martin Odersky, Paul Phillips, Adriaan Moors, and Matthias Zenger.
- * dotty.tools.dotc.classpath: The classpath handling is taken mostly as is from scala/scala [1]. The original authors were Grzegorz Kossakowski, Michał Pocięcha, Łukasz Rytz, Jason Zaugg and others.
- * dotty.tools.dotc.config: The configuration components were adapted and extended from scala/scala [1]. The original sources were authored by Paul Phillips with contributions from Martin Odersky, Miguel Garcia and others.
- * dotty.tools.dotc.core: The core data structures and operations are mostly new. Some parts (e.g. those dealing with names) were adapted from scala/scala [1]. These were originally authored by Martin Odersky, Adriaan

Moors, Jason Zaugg, Paul Phillips, Eugene Burmako and others.

- * `dotty.tools.dotc.core.pickling`: The classfile readers were adapted from the current Scala compiler. Original authors were Martin Odersky, Iulian Dragos, Matthias Zenger and others.
- * `dotty.tools.dotc.parsing`: The lexical and syntactic analysis components were adapted from the current Scala compiler. They were originally authored by Martin Odersky, Burak Emir, Paul Phillips, Lex Spoon, Sean McDirmid and others.
- * `dotty.tools.dotc.profile`: The per-phase profiling support is taken mostly as is from `scala/scala`. The original author was Mike Skells.
- * `dotty.tools.dotc.reporting`: Adapted from `scala/scala` [1] with some heavy modifications. They were originally authored by Matthias Zenger, Martin Odersky, and others.
- * `dotty.tools.dotc typer`: This is new code except for some minor components (e.g. the `ConstantFolder`). It uses however many solution details that have been developed over time by many people, including Jason Zaugg, Adriaan Moors, Lukas Rytz, Paul Phillips, Grzegorz Kossakowski, and others.
- * `dotty.tools.dotc.util`: The utilities package is a mix of new and adapted components. The files in `scala/scala` [1] were originally authored by many people, including Paul Phillips, Martin Odersky, Sean McDirmid, and others.
- * `dotty.tools.io`: The I/O support library was adapted from current Scala compiler. Original authors were Paul Phillips and others.
- * `dotty.test.DottyBytecodeTest`: Is an adaptation of the bytecode testing from `scala/scala` [1]. It has been reworked to fit the needs of `dotty`. Original authors include: Adrian Moors, Lukas Rytz, Grzegorz Kossakowski, Paul Phillips.
- * `dotty.tools.dotc.sbt` and everything in `sbt-bridge`: The sbt compiler phases are based on [2] which attempts to integrate the sbt phases into `scalac` and is itself based on the compiler bridge in `sbt 0.13` [3], but has been heavily adapted and refactored. Original authors were Mark Harrah, Grzegorz Kossakowski, Martin Duhemm, Adriaan Moors and others.
- * `dotty.tools.dotc.plugins`: Adapted from `scala/scala` [1] with some modifications. They were originally authored by Lex Spoon, Som Snytt, Adriaan Moors, Paul Phillips and others.
- * `dotty.tools.scaladoc`: The Scaladoc documentation utility ships some third-party JavaScript and CSS libraries which are located under `scaladoc/resources/dotty_res/styles/`, `scaladoc/resources/dotty_res/scripts/`, `docs/css/` and `docs/js/`. Please refer to the license header of the concerned files for details.
- * `dotty.tools.dotc.coverage`: Coverage instrumentation utilities have been adapted from the `scoverage` plugin for `scala 2` [4], which is under the Apache 2.0 license.
- * `dotty.tools.pc`: Presentation compiler implementation adapted from `scalameta/metals` [5] `mtags` module, which is under the Apache 2.0 license.
- * The Dotty codebase contains parts which are derived from the `ScalaPB` `protobuf` library [6], which is under the Apache 2.0 license.

```
[1] https://github.com/scala/scala
[2] https://github.com/adriaanm/scala/tree/sbt-api-consolidate/src/compiler/scala/
tools/sbt
[3] https://github.com/sbt/sbt/tree/0.13/compile/interface/src/main/scala/xsbt
[4] https://github.com/scoverage/scalac-scoverage-plugin
[5] https://github.com/scalameta/metals
[6] https://github.com/lampepfl/dotty/pull/5783/files
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Java UUID generator library has been written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

* Eric Bie contributed extensive unit test suite which has helped ensure high implementation quality

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pekko-remote_3

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inspired from the algorithm description provided in
"Algorithms", by Ian Craw and John Pulham (University of Aberdeen 1999).
The textbook (containing a proof that the shuffle is uniformly random) is
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The initial commit of package "org.apache.commons.math3.ml.neuralnet" is
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The BracketFinder (package org.apache.commons.math3.optimization.univariate)
and PowellOptimizer (package org.apache.commons.math3.optimization.general)
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 * This class implements a set of bits that grows as needed. Each bit of the
```

* bit set represents a `boolean` value. The values of a
 * `SparseBitSet` are indexed by non-negative integers.
 * Individual indexed values may be examined, set, cleared, or modified by
 * logical operations. One `SparseBitSet` or logical value may be
 * used to modify the contents of (another) `SparseBitSet` through
 * logical **AND**, logical **inclusive OR**, logical **exclusive**
 * **OR**, and **And NOT** operations over all or part of the bit sets.
 * `<p>`
 * All values in a bit set initially have the value `false`.
 * `<p>`
 * Every bit set has a current size, which is the number of bits of space
 * *nominally* in use by the bit set from the first set bit to just after
 * the last set bit. The length of the bit set effectively tells the position
 * available after the last bit of the `SparseBitSet`.
 * `<p>`
 * The maximum cardinality of a `SparseBitSet` is
 * `Integer.MAX_VALUE`, which means the bits of a
 * `SparseBitSet` are labelled
 * `0` .. `Integer.MAX_VALUE` - 1.
 * After the last set bit of a `SparseBitSet`, any attempt to find
 * a subsequent bit (*nextSetBit*()), will return an value of -1.
 * If an attempt is made to use *nextClearBit*(), and all the bits are
 * set from the starting position of the search to the bit labelled
 * `Integer.MAX_VALUE` - 1, then similarly -1
 * will be returned.
 * `<p>`
 * Unless otherwise noted, passing a null parameter to any of the methods in
 * a `SparseBitSet` will result in a
 * `NullPointerException`.
 * `<p>`
 * A `SparseBitSet` is not safe for multi-threaded use without
 * external synchronization.
 *

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The initial code for shuffling an array (originally in class "org.apache.commons.math3.random.RandomDataGenerator", now replaced by a method in class "org.apache.commons.math3.util.MathArrays") was inspired from the algorithm description provided in "Algorithms", by Ian Craw and John Pulham (University of Aberdeen 1999). The textbook (containing a proof that the shuffle is uniformly random) is available here:
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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, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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

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the verbatim comments from the original code::

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)`
or `init_by_array(init_key, key_length)`.

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Sockets

The `:mod:`socket`` module uses the functions, `:c:func:`!getaddrinfo``, and `:c:func:`!getnameinfo``, which are coded in separate source files from the WIDE Project, <https://www.wide.ad.jp/>. ::

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UUencode and UUdecode functions

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Modified by Jack Jansen, CWI, July 1995:

- Use binascii module to do the actual line-by-line conversion
between ascii and binary. This results in a 1000-fold speedup. The C
version is still 5 times faster, though.

- Arguments more compliant with Python standard

XML Remote Procedure Calls

The `:mod:`xmlrpc.client`` module contains the following notice::

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test_epoll

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Select kqueue

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SipHash24

The file `:file:`Python/pyhash.c`` contains Marek Majkowski's implementation of Dan Bernstein's SipHash24 algorithm. It contains the following note::

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Original location:

<https://github.com/majek/csiphash/>

Solution inspired by code from:

Samuel Neves (supercop/crypto_auth/siphhash24/little)

djb (supercop/crypto_auth/siphhash24/little2)

Jean-Philippe Aumasson (<https://131002.net/siphhash/siphhash24.c>)

strtod and dtoa

The file :file:`Python/dtoa.c`, which supplies C functions dtoa and strtod for conversion of C doubles to and from strings, is derived from the file of the same name by David M. Gay, currently available from <https://web.archive.org/web/20220517033456/http://www.netlib.org/fp/dtoa.c>. The original file, as retrieved on March 16, 2009, contains the following copyright and licensing notice::

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```

OpenSSL

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Jean-loup Gailly
jloup@gzip.org

Mark Adler
madler@alumni.caltech.edu

cfuhash

The implementation of the hash table used by the `:mod:`tracemalloc`` is based on the `cfuhash` project::

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`libmpdec`

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W3C C14N test suite

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Audioop

The audioop module uses the code base in g771.c file of the SoX project. <https://sourceforge.net/projects/sox/files/sox/12.17.7/sox-12.17.7.tar.gz>

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asyncio

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scala3-library_3

Provider: École Polytechnique Fédérale de Lausanne (EPFL)

Component(s): scala3-library_3

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The Scala 3 compiler is also known as Dotty. The Dotty compiler frontend has been developed since November 2012 by Martin Odersky. It is expected and hoped for that the list of contributors to the codebase will grow quickly. Dotty draws inspiration and code from the original Scala 2 compiler "nsc", which is still developed at [scala/scala](https://scala-lang.org) [1].

The majority of the Dotty codebase is new code, with the exception of the components mentioned below. We have for each component tried to come up with a list of the original authors in the scala/scala [1] codebase. Apologies if some major authors were omitted by oversight.

- * `dotty.tools.dotc.ast`: The syntax tree handling is mostly new, but some elements, such as the idea of tree copiers and the `TreeInfo` module, were adopted from scala/scala [1]. The original authors of these parts include Martin Odersky, Paul Phillips, Adriaan Moors, and Matthias Zenger.
- * `dotty.tools.dotc.classpath`: The classpath handling is taken mostly as is from scala/scala [1]. The original authors were Grzegorz Kossakowski, Michał Pocięcha, Łukasz Rytz, Jason Zaugg and others.
- * `dotty.tools.dotc.config`: The configuration components were adapted and extended from scala/scala [1]. The original sources were authored by Paul Phillips with contributions from Martin Odersky, Miguel Garcia and others.
- * `dotty.tools.dotc.core`: The core data structures and operations are mostly new. Some parts (e.g. those dealing with names) were adapted from scala/scala [1]. These were originally authored by Martin Odersky, Adriaan Moors, Jason Zaugg, Paul Phillips, Eugene Burmako and others.
- * `dotty.tools.dotc.core.pickling`: The classfile readers were adapted from the current Scala compiler. Original authors were Martin Odersky, Iulian Dragos, Matthias Zenger and others.
- * `dotty.tools.dotc.parsing`: The lexical and syntactic analysis components were adapted from the current Scala compiler. They were originally authored by Martin Odersky, Burak Emir, Paul Phillips, Lex Spoon, Sean McDermid and others.
- * `dotty.tools.dotc.profile`: The per-phase profiling support is taken mostly as is from scala/scala. The original author was Mike Skells.
- * `dotty.tools.dotc.reporting`: Adapted from scala/scala [1] with some heavy modifications. They were originally authored by Matthias Zenger, Martin Odersky, and others.
- * `dotty.tools.dotc typer`: This is new code except for some minor components (e.g. the `ConstantFolder`). It uses however many solution details that have been developed over time by many people, including Jason Zaugg, Adriaan Moors, Łukasz Rytz, Paul Phillips, Grzegorz Kossakowski, and others.
- * `dotty.tools.dotc.util`: The utilities package is a mix of new and adapted components. The files in scala/scala [1] were originally authored by many people, including Paul Phillips, Martin Odersky, Sean McDermid, and others.
- * `dotty.tools.io`: The I/O support library was adapted from current Scala compiler. Original authors were Paul Phillips and others.
- * `dotty.test.DottyBytecodeTest`: Is an adaptation of the bytecode testing from scala/scala [1]. It has been reworked to fit the needs of dotty. Original authors include: Adrian Moors, Łukasz Rytz, Grzegorz Kossakowski, Paul Phillips.
- * `dotty.tools.dotc.sbt` and everything in `sbt-bridge`: The sbt compiler phases are based on [2] which attempts to integrate the sbt phases into scalac and is itself based on the compiler bridge in sbt 0.13 [3], but has been heavily adapted and refactored. Original authors were Mark Harrah, Grzegorz Kossakowski, Martin Duhem, Adriaan Moors and others.

- * `dotty.tools.dotc.plugins`: Adapted from `scala/scala` [1] with some modifications. They were originally authored by Lex Spoon, Som Snytt, Adriaan Moors, Paul Phillips and others.
- * `dotty.tools.scaladoc`: The Scaladoc documentation utility ships some third-party JavaScript and CSS libraries which are located under `scaladoc/resources/dotty_res/styles/`, `scaladoc/resources/dotty_res/scripts/`, `docs/css/` and `docs/js/`. Please refer to the license header of the concerned files for details.
- * `dotty.tools.dotc.coverage`: Coverage instrumentation utilities have been adapted from the `scoverage` plugin for `scala 2` [4], which is under the Apache 2.0 license.
- * `dotty.tools.pc`: Presentation compiler implementation adapted from `scalameta/metals` [5] `mtags` module, which is under the Apache 2.0 license.
- * The Dotty codebase contains parts which are derived from the `ScalaPB` `protobuf` library [6], which is under the Apache 2.0 license.

[1] <https://github.com/scala/scala>

[2] <https://github.com/adriaanm/scala/tree/sbt-api-consolidate/src/compiler/scala/tools/sbt>

[3] <https://github.com/sbt/sbt/tree/0.13/compile/interface/src/main/scala/xsbt>

[4] <https://github.com/scoverage/scalac-scoverage-plugin>

[5] <https://github.com/scalameta/metals>

[6] <https://github.com/scala/scala3/pull/5783/files>

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Provider: QOS.ch

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Provider: SnakeYAML.org

Component(s): SnakeYAML

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spring-beans

Provider: Pivotal, Inc.

Component(s): spring-beans

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spring-context

Provider: Pivotal, Inc.

Component(s): spring-context

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spring-context-support

Provider: Pivotal, Inc.

Component(s): spring-context-support

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Component(s): spring-core

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spring-jdbc

Provider: Pivotal Software, Inc

Component(s): spring-jdbc

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spring-messaging

Provider: Pivotal, Inc.

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Provider: Pivotal Inc.

Component(s): spring-test

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spring-tx

Provider: OW2 Consortium

Component(s): spring-tx

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spring-web

Provider: Pivotal, Inc.

Component(s): spring-web

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spring-webmvc

Provider: Pivotal, Inc.

Component(s): spring-webmvc

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StAX-ex

Provider: Oracle

Component(s): StAX-ex

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Component(s): stax2-api

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src/main/java/org/codehaus/stax2/typed/Base64Variant.java:

```
/* Stax2 extension for basic Stax API (JSR-173).
```

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*
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*/
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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has

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* https://github.com/jakartaee/jaxb-api

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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

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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 been in development since 2007. It is currently developed by a community of developers.

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Dependency - jakarta.activation-api

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Source Code

The project maintains the following source code repositories:

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Jackson is a high-performance, Free/Open Source JSON processing library.

It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.
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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 been in development since 2007. It is currently developed by a community of developers.

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"use strict";

exports.__esModule = true;

exports.default = void 0;

var _apidomCore = require("@swagger-api/apidom-core");

/**

```

    * @public
    */
    class License extends _apidomCore.ObjectElement {
        constructor(content, meta, attributes) {
            super(content, meta, attributes);
            this.element = 'license';
        }
        get name() {
            return this.get('name');
        }
        set name(name) {
            this.set('name', name);
        }
        get url() {
            return this.get('url');
        }
        set url(url) {
            this.set('url', url);
        }
    }
    var _default = exports.default = License;

```

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"use strict";

```
exports.__esModule = true;
exports.default = void 0;
var _apidomNsAsyncapi = require("@swagger-api/apidom-ns-asyncapi-2");
/**
 * @public
 */
class License extends _apidomNsAsyncapi.LicenseElement {}
var _default = exports.default = License;
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```
"use strict";

exports.__esModule = true;
exports.default = void 0;
var _apidomNsOpenapi = require("@swagger-api/apidom-ns-openapi-3-0");
/**
 * @public
 */
class License extends _apidomNsOpenapi.LicenseElement {
  get identifier() {
    return this.get('identifier');
  }
  set identifier(name) {
    this.set('identifier', name);
  }
}
var _default = exports.default = License;

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

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

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Release	Derived from	Year	Owner	GPL-compatible? (1)
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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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<https://gist.github.com/imneme/f1f7821f07cf76504a97f6537c818083>

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pycparser -- A C parser in Python

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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, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
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| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
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* Project: https://maven.apache.org/resolver/maven-resolver-transport-file/
* Source:
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Component(s): Zstd-jni

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```

```
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Ty Coon, President of Vice
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Component(s): Zstd-jni

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```

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```

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