

# Quality Outreach

- [Quality Outreach](#)
- [Introduction](#)
- [How to join the Quality Outreach Program](#)
- [Status indicators](#)

## Quality Outreach

### Introduction

The Quality Group is promoting the testing of Free Open Source Software (FOSS) projects with OpenJDK builds, whether their own, or from someone else. We want to acknowledge projects who are actively testing, providing feedback and list any issues they have found during their testing. This is a great way to improve the quality of the various releases, adding new projects to the list is highly desirable.

### How to join the Quality Outreach Program

If you would like to have your Project added to the list below please send an email to [quality-discuss](#) mailing lists including:

- Project name
- Project Contact
- Actively Tested on: JDK version
- Previously tested on and actively using features from JDK version

If you haven't already subscribed to these lists then please do so first, otherwise your message will be discarded.

### Status indicators

★ - Indicates we have active testing, feedback & bug reporting on some or all JDKs around the timeframe of the related release - doesn't necessarily mean that the related release is already supported

★ - Indicates we have intermittent communication on some or all JDKs - doesn't necessarily mean that the related release is already supported

★ - Indicates will start testing in the near future








FOSS	Contact	OpenJDK 11.0.6	OpenJDK 17 GA	OpenJDK 21 GA	OpenJDK 24 EA	Comments	
Akka, Lightbend	Patrik Nordwall	★	★				
Angel-ML	Brucetao	★	★				
Apache ActiveMQ					★		
Apache Ant	Stefan Bodewig & Jaikiran Pai	★	★	★	★		
Apache Aries CDI	Raymond Auge	★	★			<a href="https://github.com/apache/aries-cdi/actions/runs/125540570">https://github.com/apache/aries-cdi/actions/runs/125540570</a>	
Apache Aries JAX-RS	Raymond Auge	★	★			<a href="https://github.com/apache/aries-jax-rs-whiteboard/actions/runs/125109158">https://github.com/apache/aries-jax-rs-whiteboard/actions/runs/125109158</a>	
Apache Aries Spi Fly	Raymond Auge	★	★			<a href="https://github.com/apache/aries/actions/runs/723194437">https://github.com/apache/aries/actions/runs/723194437</a>	
Apache Camel	Andrea Cosentino	★	★				
Apache Chemistry	Florian Muller	★	★				
Apache CloudStack	Gabriel Bräscher	★	★			#WorksLikeHeavenOnJDK11	
Apache Commons	Benedikt Ritter	★	★	★			
Apache CXF	Andriy Redko	★	★	★	★	Oct.23: JDK 21 is fully supported	
Apache DataSketches	Lee Rhodes	★	★				
Apache Derby	Rick Hillegas	★	★	★	★		
Apache Hadoop	Akira Ajisaka	★	★				
Apache HttpComponents	Gary Gregory	★	★				
Apache Causeway	Dan Haywood	★	★	★		Formerly known as <a href="#">Apache Isis</a>	

Apache JMeter	Philippe Mouawad	★	★			
Apache Johnzon	Romain Manni-Bucau	★	★	★	★	
Apache Kafka	Ismael Juma	★	★	★	★	Oct.23: Java 21 is supported in trunk and will be part of the upcoming 3.7.0 release.
Apache Karaf	Guillaume Nodet	★				
<b>FOSS</b>	<b>Contact</b>	<b>OpenJDK 11.0.6</b>	<b>OpenJDK 17 GA</b>	<b>OpenJDK 21 GA</b>	<b>OpenJDK 24 EA</b>	
Apache Log4j	Gary Gregory	★	★	★		
Apache Lucene & SOLR	Uwe Schindler Dawid Weiss	★	★	★	★	#WorksLikeHeavenOnJDK11
Apache Maven	Robert Scholte	★	★	★		#WorksLikeHeavenOnJDK11
Apache MetaModel	Kasper Sorensen	★	★			
Apache Netbeans	Ken Fogel	★	★			
Apache PDFBox	Tilman Hausherr	★	★			builds.apache.org/job/PDFBox-Trunk-jdk9/
Apache POI	Apache POI PMC	★	★	★		
Apache Syncope	Francesco Chicchiriccò	★	★	★	★	Syncop master branch is now requiring JDK 21 to build. JDK 22-ea is tested
Apache Tika	Tim Allison	★	★	★		#WorksLikeHeavenOnJDK11
Apache Tomcat	Mark Thomas	★	★	★	★	
Apache Wicket	Martin Grigorov	★	★	★		
Apache Zookeeper	Enrico Olivelli	★	★	★		CI Links - <a href="#">Link</a>
Apereo CAS	Misagh Moayyed	★	★	★	★	Support 21! Waiting for Gradle to test with 22-EA
ApprovalTests.Java	Llewellyn Falco Lars Eckart	★	★	★	★	
Arquillian	Aslak Knutsen	★	★			
AsciidoctorJ	Guillaume Grossetie	★	★			
<b>FOSS</b>	<b>Contact</b>	<b>OpenJDK 11.0.6</b>	<b>OpenJDK 17 GA</b>	<b>OpenJDK 21 GA</b>	<b>OpenJDK 24 EA</b>	
ASM	Remi Forax	★	★	★		
AssertJ	Joel Costigliola, Stefano Cordio	★	★	★	★	JDK 21 supported, next major version (post 3.25.0) will baseline on JDK 17.
Avaje	Josiah Noel Robin Bygrave	★	★	★	★	JDK 21 supported, working on JDK 22-EA support
BlueJ	Michael Kölling	★	★			
Bnd	Raymond Auge	★	★			<a href="https://github.com/bndtools/bnd/actions/runs/114089797">https://github.com/bndtools/bnd/actions/runs/114089797</a> <a href="https://bnd.bndtools.org/">https://bnd.bndtools.org/</a>
BNY Mellon Spring Training	Emilie Robichaud Aqsa Malik	★	★	★	★	Build: <a href="https://github.com/BNYMellon/spring-kata/actions">https://github.com/BNYMellon/spring-kata/actions</a>
BNY Mellon Code Katas	Emilie Robichaud Aqsa Malik	★	★	★	★	Repo: <a href="https://github.com/BNYMellon/CodeKatas">https://github.com/BNYMellon/CodeKatas</a>
BootstrapFX	Andres Almiray	★	★			#WorksLikeHeavenOnJDK11
Burningwave	Roberto Gentili Alessio Perrotta	★	★	★	★	JDK 21 supported
bt	Andrei Tomashpolskiy	★	★			
Byte Buddy	Rafael Winterhalter	★	★	★	★	#WorksLikeHeavenOnJDK11
Byteman	Andrew Dinn	★	★			
CheckStyle	Roman Ivanov	★	★			
Classworlds	Robert Scholte	★	★			
Clojure	Alex Miller	★	★			

CruiseControl	Kent Spillner	★	★			
Cryptomator	Sebastian Stenzel	-	★			Support only for latest GA release, testing with EA releases.
DataCleaner	Kasper Sorensen	★	★			
Debezium	Jiri Pechanec	★	★	★		NB: Cassandra 3 and Spanner connector not passing for JDK 20 due to issues caused by their dependencies
DesktopPaneFX	Andres Almiray	★	★			#WorksLikeHeavenOnJDK11
EasyMock	Henri Tremblay	★	★			
<b>FOSS</b>	<b>Contact</b>	<b>OpenJDK 11.0.6</b>	<b>OpenJDK 17 GA</b>	<b>OpenJDK 21 GA</b>	<b>OpenJDK 24 EA</b>	
Eclipse AspectJ	Andy Clement	★	★			
Eclipse Collections	Nikhil J. Nanivadekar	★	★	★	★	#WorksLikeHeavenOnJDK11
Eclipse GEF	Alexander Nyssen	★	★			
Eclipse Jetty	Simone Bordet	★	★	★	★	JDK 21 is fully supported, will soon start to test using 22-EA Builds.
Eclipse Jifa	Denghui Dong					
Eclipse Vert.x	Paulo Lopes	★	★			
Ehcache	Louis Jacomet	★	★			
EJBCA	info dot primekey dot se	★	★			
ElasticSearch	Ryan Ernst	★	★			#WorksLikeHeavenOnJDK11
eo-yaml	Mihai Andronache	★	★			CI
EqualsVerifier	Jan Ouwens	★	★	★	★	Tested on JDK 21
FXGL	Almas Baimagambetov	★	★			FXGL CI <a href="https://github.com/AlmasB/FXGL/actions">https://github.com/AlmasB/FXGL/actions</a>
FXGraphics2D	David Gilbert	★	★	★		
FXyz	Sean Phillips Jose Pereda	★	★			#WorksLikeHeavenOnJDK11
Gradle	Sterling Greene	★	★			
GraphHopper	Peter Karich	★	★			
<b>FOSS</b>	<b>Contact</b>	<b>OpenJDK 11.0.6</b>	<b>OpenJDK 17 GA</b>	<b>OpenJDK 21 GA</b>	<b>OpenJDK 24 EA</b>	<b>Comments</b>
Greenfoot	Michael Kölling	★	★			
Griffon	Andres Almiray	★	★			
Groovy	Cedric Champeau	★	★			
guice-async-extension	Simon Taddiken	★	★			#WorksLikeHeavenOnJDK11
Hazelcast	Frantisek Hartman	★	★			
HdrHistogram	Gil Tene	★	★			#WorksLikeHeavenOnJDK11
Helidon	Joe Di Pol	★	★	★	★	
Hibernate ORM	Yoann Rodiere Sanne Grinovero	★	★	★	★	Tested on JDK 21, and JDK 22-EA (b20)
Hibernate Validator	Yoann Rodiere Sanne Grinovero	★	★	★	★	
Hibernate Search	Yoann Rodiere Sanne Grinovero	★	★	★	★	
Hibernate Reactive	Yoann Rodiere Sanne Grinovero	★	★	★	★	
HyperSQL Database (HSQLDB)	Fred Toussi	★	★			
Ikonli	Andres Almiray	★	★			#WorksLikeHeavenOnJDK11
JabRef	Christoph Schwentker	★	★			
Jackson	Tatu Saloranta	★	★			

JaCoCo	Evgeny Mandrikov	★	★			#WorksLikeHeavenOnJDK11
JaCoLine	Chris Newland	★	★			JaCoLine
Javassist	Shigeru Chiba	★	★			
JavaEWAH	Daniel Lemire	★	★			
Java Katas	Chandra Guntur	★	★			<a href="https://travis-ci.org/github/c-guntur/java-katas">https://travis-ci.org/github/c-guntur/java-katas</a> <b>JDK 17</b> <a href="https://github.com/c-guntur/java-katas/runs/2812711581?check_suite_focus=true">https://github.com/c-guntur/java-katas/runs/2812711581?check_suite_focus=true</a> Link to <b>ALL</b> : <a href="https://github.com/c-guntur/java-katas/actions/runs/854091621">https://github.com/c-guntur/java-katas/actions/runs/854091621</a>
FOSS	Contact	OpenJDK 11.0.6	OpenJDK 17 GA	OpenJDK 21 GA	OpenJDK 24 EA	Comments
JavaLite	Igor Polevoy	★	★			
Java Native Access JNA	Matthias Blasing	★	★			
JBoss-Forge	Ivan St Ivanov	★	★			
JBoss Tools	Josef Kopriva	★	★			
Jenkins	Alexander Brandes	★	★	★		
JFreeChart	David Gilbert	★	★			
JFreeSVG	David Gilbert	★	★			
JFreePDF	David Gilbert	★	★			
JHipster	Matt Raible	★	★	★		
JITWatch	Chris Newland	★	★			
JLine	Guillaume Nodet	★	★			
JMetro	Pedro Duque Vieira	★	★			
JobRunr	Ronald Dehuysser	★	★	★		
JOGL/JogAmp	Sven Gothel	★	★			
Jooby	Edgar Espina	★	★			
jOOQ	Lukas Eder	★	★	★		
jqwik	Johannes Link	★	★			
JReleaser	Andres Almiray	★	★			
JSilhouette	Andres Almiray	★	★			#WorksLikeHeavenOnJDK11
FOSS	Contact	OpenJDK 11.0.6	OpenJDK 17 GA	OpenJDK 21 GA	OpenJDK 24 EA	Comments
JUnit 5	Marc Philipp	★	★	★	★	#WorksLikeHeavenOnJDK11
Karate	Peter Thomas	★	★			
Kotlin	Alexander Udalov	★	★	★	★	Oct. 23: Working on 4 remaining issues related to JDK 21 support
Lillith	Jörn Ruxhorn	★	★			
Logback	Ceki Gülcü	★	★			
LWJGL	Ioannis Tsakpinis	★	★			#WorksLikeHeavenOnJDK11
MapStruct	Filip Hrisafov	★	★			
Micrometer	Tommy Ludwig	★	★			
Micronaut	Graeme Rocher	★	★	★	★	
Mockito	Rafael Winterhalter	★	★			#WorksLikeHeavenOnJDK11
MyBatis	Iwao Ave	★	★	★	★	Tested on JDK 21 and JDK 22-EA
Netty	Norman Maurer	★	★	★		#WorksLikeHeavenOnJDK11
Objenesis	Henri Tremblay	★	★			
OkHttp	Jesse Wilson	★	★			

OpenNMS	Ben Reed	★	★			
Orson Charts	David Gilbert	★	★			
oVirt	Roy Golan	★	★			
Parallel Collectors	Grzegorz Piwowarek	★	★	★	★	Actively testing using GitHub actions against a few versions of JDK <a href="#">here</a>
PDFsam	Andrea Vacondio	★	★			<a href="https://travis-ci.org/torakiki/pdfsam">https://travis-ci.org/torakiki/pdfsam</a>
<b>FOSS</b>	<b>Contact</b>	<b>OpenJDK 11.0.6</b>	<b>OpenJDK 17 GA</b>	<b>OpenJDK 21 GA</b>	<b>OpenJDK 24 EA</b>	
PicoCLI	Remko Popma	★	★			#WorksLikeHeavenOnJDK11
Piranha Cloud	Thiago Henrique Hüpner	★	★			Github link: <a href="https://github.com/piranhacloud/piranha/">https://github.com/piranhacloud/piranha/</a>
PMD	Andreas Dangel	★	★			
ProGuard	Eric Lafortune	★	★			
QDox	Robert Scholte	★	★			
RabbitMQ	Arnaud Cogoluègnes	★	★			
Rapidoid	Nikolche Mihajlovski	★	★			
Ratpack	Luke Daley	★	★			
RedHat Infinispan	Galder Zamerreno	★	★			
RedHat Wildfly		★	★			#WorksLikeHeavenOnJDK11
Reflections	Ron Mamo	★	★			
Renaissance Suite	Lubomir Bulej	★	★			
restrict-imports-enforcer-rule	Simon Taddiken	★	★			#WorksLikeHeavenOnJDK11
Roaring	Daniel Lemire	★	★			
RxJava	David Karnok	★	★	★	★	Compile OK, Tests OK on JDK 21
Scala Team, Lightbend	Jason Zaugg	★	★			
semantic-version	Simon Taddiken	★	★			#WorksLikeHeavenOnJDK11
<b>FOSS</b>	<b>Contact</b>	<b>OpenJDK 11.0.6</b>	<b>OpenJDK 17 GA</b>	<b>OpenJDK 21 GA</b>	<b>OpenJDK 24 EA</b>	<b>Comments</b>
SLF4J	Ceki Gülcü	★	★			
Sejda	Andrea Vacondio	★	★			<a href="https://travis-ci.org/torakiki/sejda">https://travis-ci.org/torakiki/sejda</a>
Selenide	Andrei Soltsev	★	★			
SonarQube	Nicolas Peru	★	★			
Spoon	Martin Wittlinger Martin Monperrus	★	★	★		
Spotbugs	Andrey Loskutov	★	★			
Spring Framework	Juergen Hoeller	★	★			#WorksLikeHeavenOnJDK11
Susel	Uday Tatiraju	★	★			#WorksLikeHeavenOnJDK11
Thermostat	Severin Gehwolf	★	★			
Travis CI	Mathias Meyer	★	★			
Trino	Mateusz Gajewski				★	
Vaadin	Matti Tahvonen	★	★		★	
VAVR	Grzegorz Piwowarek	★	★		★	
VMOptionsExplorer	Chris Newland	★	★			
Woodstox	Tatu Saloranta	★	★			
XStream	Jörg Schaible	★	★			

Xtext	Sven Efftinge						
Xtend	Sven Efftinge						
Yupiiik Batch	Romain Manni-Bucau						
Yupiiik uShip	Romain Manni-Bucau						
ZXing	Sean Owen	