



JCP Executive Committee Quality Group & Java Playground

David Delabassee Java Developer Relations

June 2024

Agenda

- 1. OpenJDK Quality Group
- 2. Java Playground



OpenJDK Quality Group

Quality Outreach Program

- Promote the testing of FOSS projects with the latest early-access OpenJDK JDK builds
- Raise awareness on upcoming changes





Quality Outreach Program

- Promote the testing of FOSS projects with the latest early-access OpenJDK JDK builds
 - Identify and address potential issues as early as possible
 - Bandwidth & knowledge
- Raise awareness on upcoming changes
 - Anticipate potential issues as early as possible
- ⇒ Improve the Java platform quality
- ⇒ Evolve mindsets from Reactive to Proactive





How?

- Recruit FOSS projects
- Mail Blast ⇒ Feedback ⇒ Bugs
- Regular QO mail blast
 - News & builds updates
 - Heads-ups & call-to-action
 - https://inside.java/headsup/
 - Latest blast
 - https://mail.openjdk.org/pipermail/quality-discuss/2024-June/001135.html
- JBS
 - https://bugs.openjdk.org/browse/JDK-8319782?jql=labels=apache-lucene-found



Awareness

- July 2023 JDK 21 & JDK 22
 - Note if implicit annotation processing is being used
- October 2023 JDK 22
 - No note is emitted, and annotation processors are not run, restore the previous behavior with `-proc:full java`
 - Backed out!
- June 2024 JDK 23
 - Changes Default Annotation Processing Policy
 - javac requires an additional command-line option to enable annotation processing
 - Backported

... besides that annotation processor change tripping us up, we're green on JDK23EA. Though I had hoped to see ... so that the annotation processor behavior change would be more visible...



~180 Participating Projects

- Apache Ant
- Apache Derby
 - https://lists.apache.org/thread/7v9r3gmcjsqr78v99xdvvp2q7h892odq
- Apache Lucene
 - https://www.elastic.co/jp/blog/lucene-jvm-bugs
- Apache Tomcat
- Eclipse Collections
 - https://donraab.medium.com/the-benefits-of-participating-in-the-openjdk-quality-outreach-program-590b86382f20
- Eclipse Hibernate
- Junit 5
- MyBatis
- •





Inside Java

News and views from members of the Java team at Oracle

Newscast | Podcast | JEP Café | Sip of Java

dev.java | Newsletter | About | Jobs

Sort by: Date | Author | Tag

The Arrival of Java 22!

Sharat Chander on March 19, 2024

JDK 22 is Now Available!

Additionally, through the OpenJDK Quality Outreach program we would like to thank the following FOSS projects that provided excellent feedback on testing Java 22 early access builds to help improve the quality of the release:

- Apache Syncope (Francesco Chicchiriccò)
- Apache Tomcat (Mark Thomas)
- ApprovalTests.Java (Lars Eckart)
- AssertJ (Stefano Cordio)
- Avaje (Josiah Noel)
- Jetty (Simone Bordet)
- MyBatis (Iwao Ave)
- Parallel Collectors (Grzegorz Piwowarek)
- RxJava (David Karnok)



Benefits

- Recognition
- Improved projects quality
- Improved OpenJDK quality
- OpenJDK author role (*)



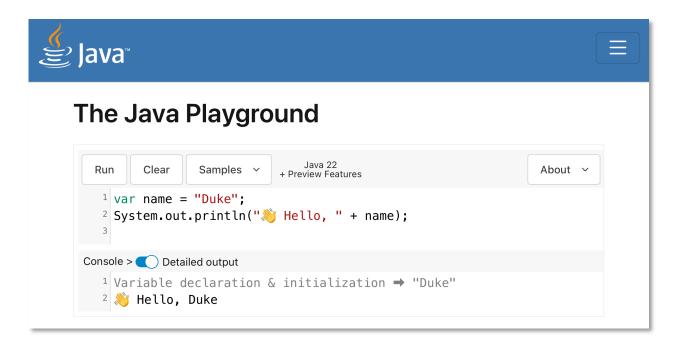
Resources

- Quality Outreach
 - https://wiki.openjdk.org/display/quality/Quality+Outreach (*)
- Heads-up
 - https://inside.java/headsup/
- Mailing list
 - https://mail.openjdk.org/pipermail/quality-discuss/
- Oracle setup-java GitHub action
 - https://github.com/oracle-actions/setup-java



Java Playground

- Simple online tool that helps exploring Java Language features
 - https://dev.java/playground/
- "No setup required, just type your Java snippet and run it!"







- Java: Java 22, jshell API and Classfile API
- Infra : OCI Functions
- UI : Javascript and Web Component
- Restrictions
 - APIs ⇒ Amber, Collections, ...
 - Runtime
- Not a development tool!





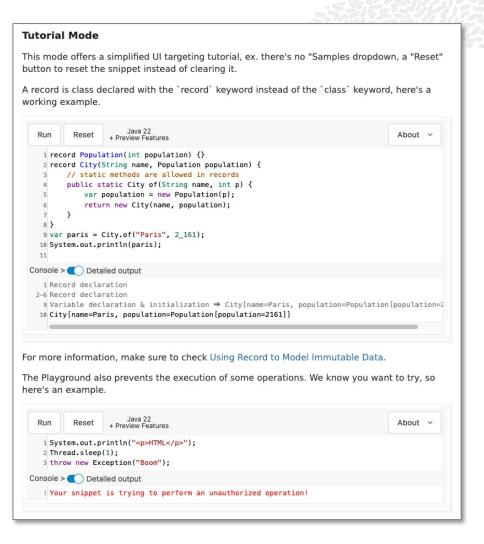






```
<java-playground id="A test" gist="48393e32...ce7faacb">
</java-playground>
```

Demo





Roadmap

- Summer
 - JDK 23
 - Dev.java tutorials
 - A11Y
 - · ...
- TBC
 - Prefix
 - **-** ...



Thank you

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Developer Relations Java Platform Group @delabassee