

Celebrating 25 Year Anniversary of the JCP Program

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VP Community Engagement and Chair & Director of the JCP





Safe harbor statement

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Celebrating 25 years of JCP this year



Working Together – We Achieve More







28 years of Java25 years of JCP Program

Java continues to be an important choice for enterprises and developers

The Java technology innovation pipeline has never been richer

Java 21 available now



Performance

Stability

Security

Compatibility

Maintainability

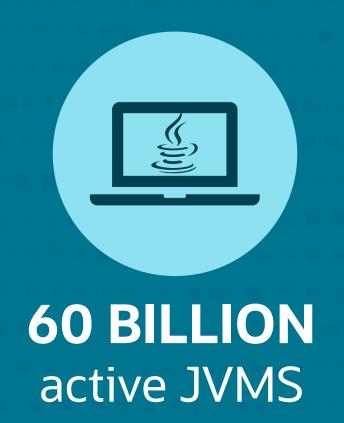
Moving Java forward



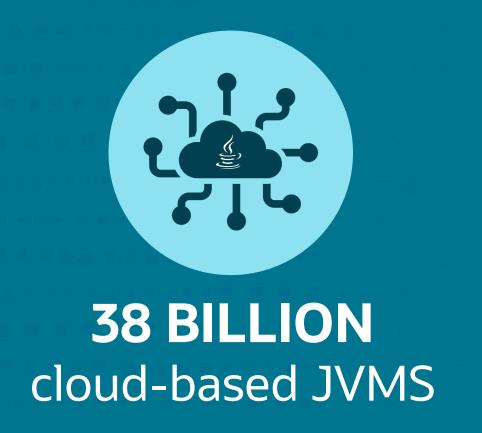


Predictability









* Source: VDC Research



Moving Java forward



Investing in long term innovation



Delivering a rich pipeline of features



Maintain the feeling of Java



AMBER
Improve developer productivity



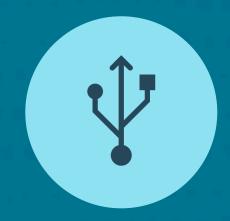
LEYDEN

Reduce start-up time,
warm-up time, and
footprint



LOOM

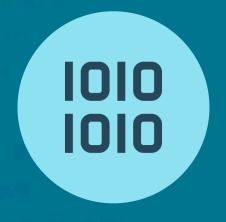
Massively scale
lightweight threads



PANAMA
Connecting JVM
and
native code



Better memory density and performance through value types



ZGCLow latency garbage collector on large heaps



Java 21 available now

15 JDK Enhancement Proposals (JEPs)

Updates to Project Amber, Project Panama and Project Loom Thousands of performance, stability and security improvements JavaFX 21





JDK 21 – 2023/09/19

Language Features

- Record Patterns [440]
- Pattern Matching for switch [441]

Language Features Previews

- String Templates Preview [430]
- Unnamed Patterns and Variables Preview [443]
- Unnamed Classes and Instance Main Methods Preview [445]

Performance Improvement

Generational ZGC [439]

Library Improvements

- Virtual Threads [444]
- Sequenced Collections [431]
- Key Encapsulation Mechanism API [452]

Library Improvements Previews and Incubator

- Foreign Function & Memory API 3rd Preview [442]
- Structured Concurrency Preview [453]
- Scoped Values Preview [446]
 Vector API 6th Incubator [448]

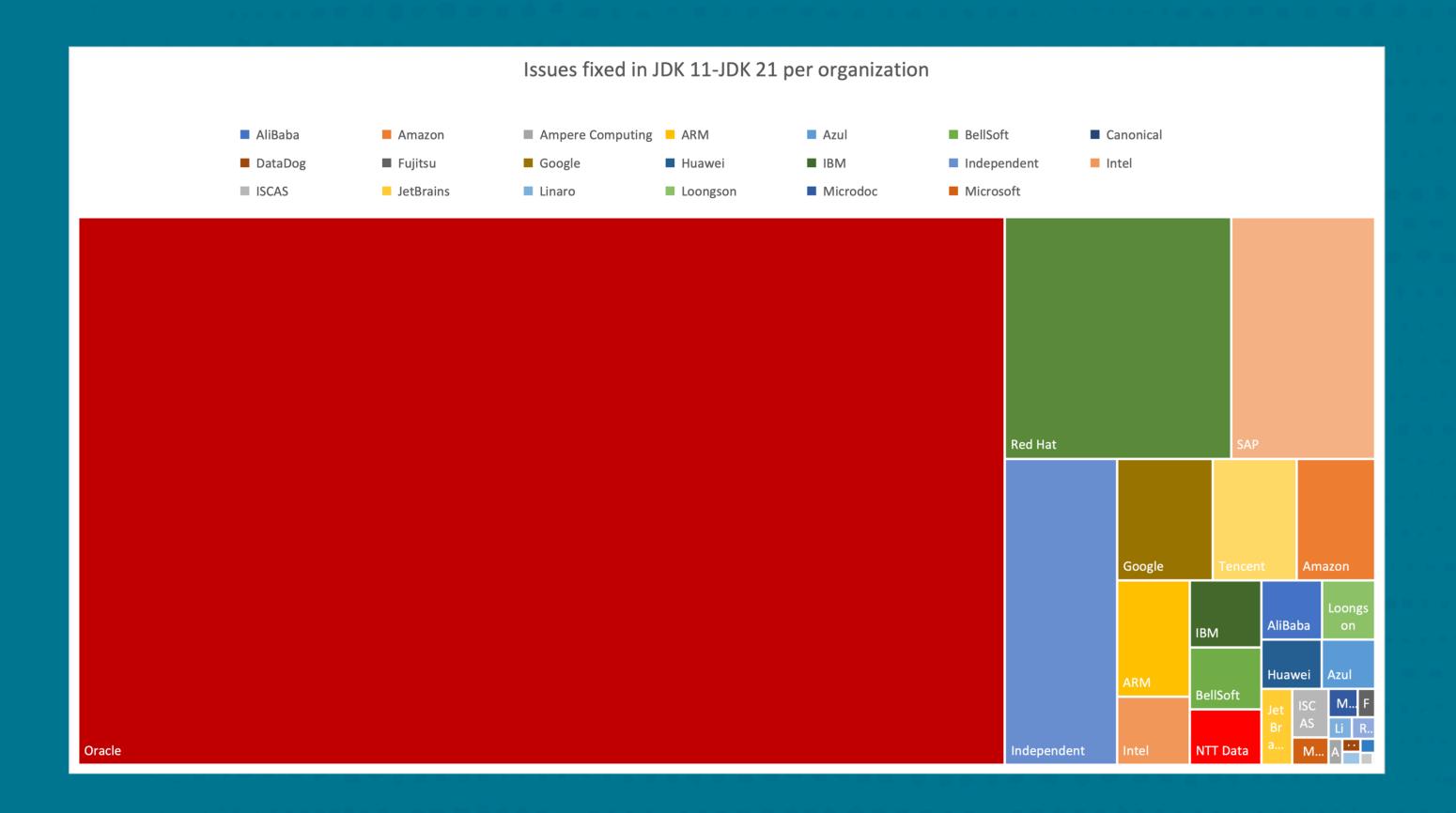
Stewardship

- Prepare to Disallow the Dynamic Loading of Agents [451]
- Deprecate the Windows 32-bit x86 Port for Removal [449]



OpenJDK

Issues fixed in JDK 21 per organization





Strength in numbers



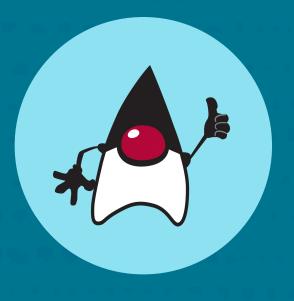
Trust



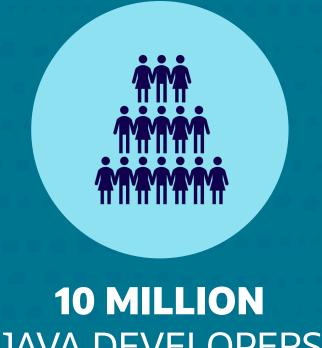
Innovation



Predictability



28 YEARS SINCE LAUNCH











360+ JAVA USER GROUPS



365 JAVA CHAMPIONS



1 MILLION JAVA CERTIFICATIONS COMPLETED





OpenJDK







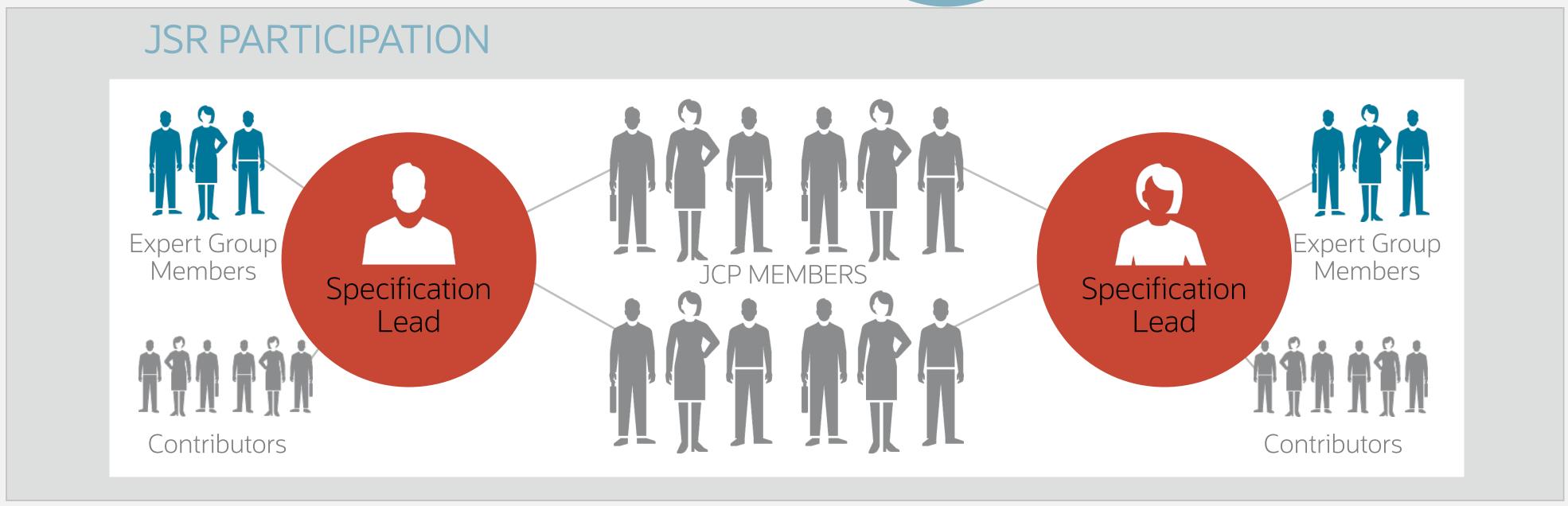






The JCP Organization



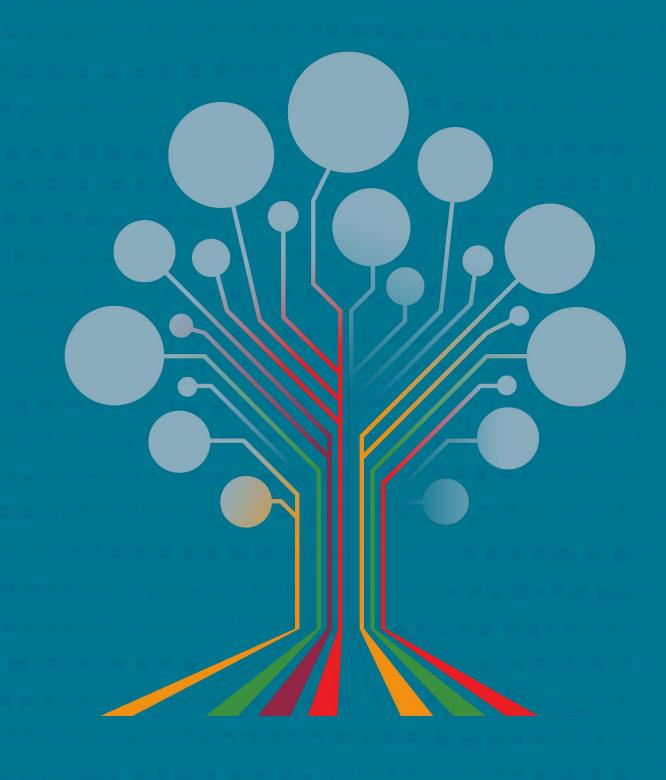


JCP Membership Levels

Associate Members are individuals who can be listed as contributors to JSRs and vote for the Executive Committee.

Partner Members are Java User Groups and other non-profit organizations that can serve on and vote for the Executive Committee.

Full Members can serve on Expert Groups, lead JSRs, serve on and vote for the **Executive Committee**





Who Are The Members of the JCP?



Corporations Non-Profit & Open Source Java User Groups (JUG) Individual Developers



JCP Executive Committee





Collaborative Development - How does is work?

JCP Members

- Collaborate on Experts Groups
- Contribute to JSRs
- Vote in Elections
- Comment and review

Java Specification Requests (JSRs)

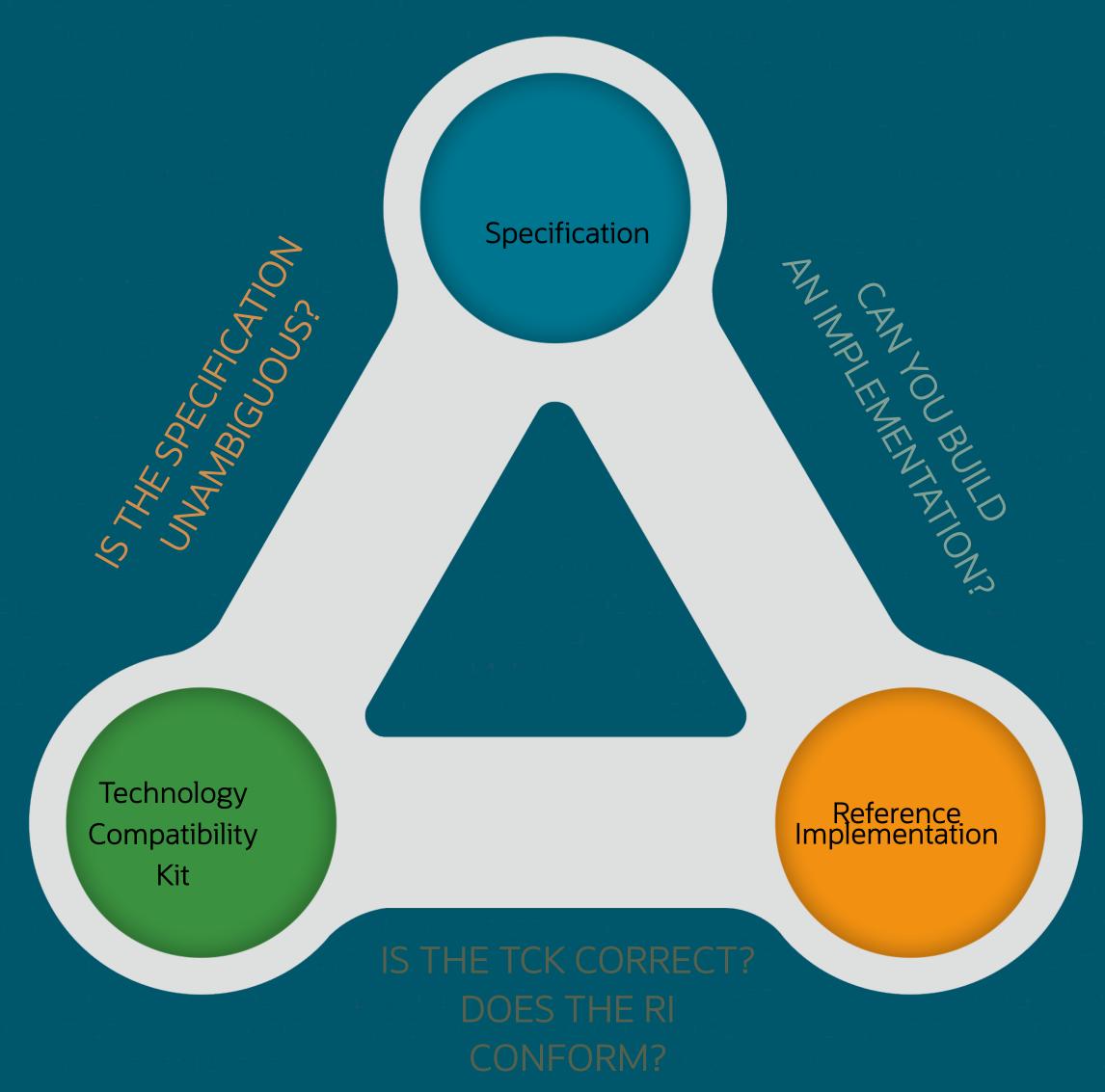
- JSRs are led by a community member (the Spec Lead), with a group of interested members (the Expert Group) helping with the day-to-day decisions and work.
- Any JCP member can submit and lead a JSR

Each Expert Group must deliver:

- The Specification
- A Reference Implementation
- A Technology Compatibility Kit



Compatibility Triangle





The JSR Development Cycle

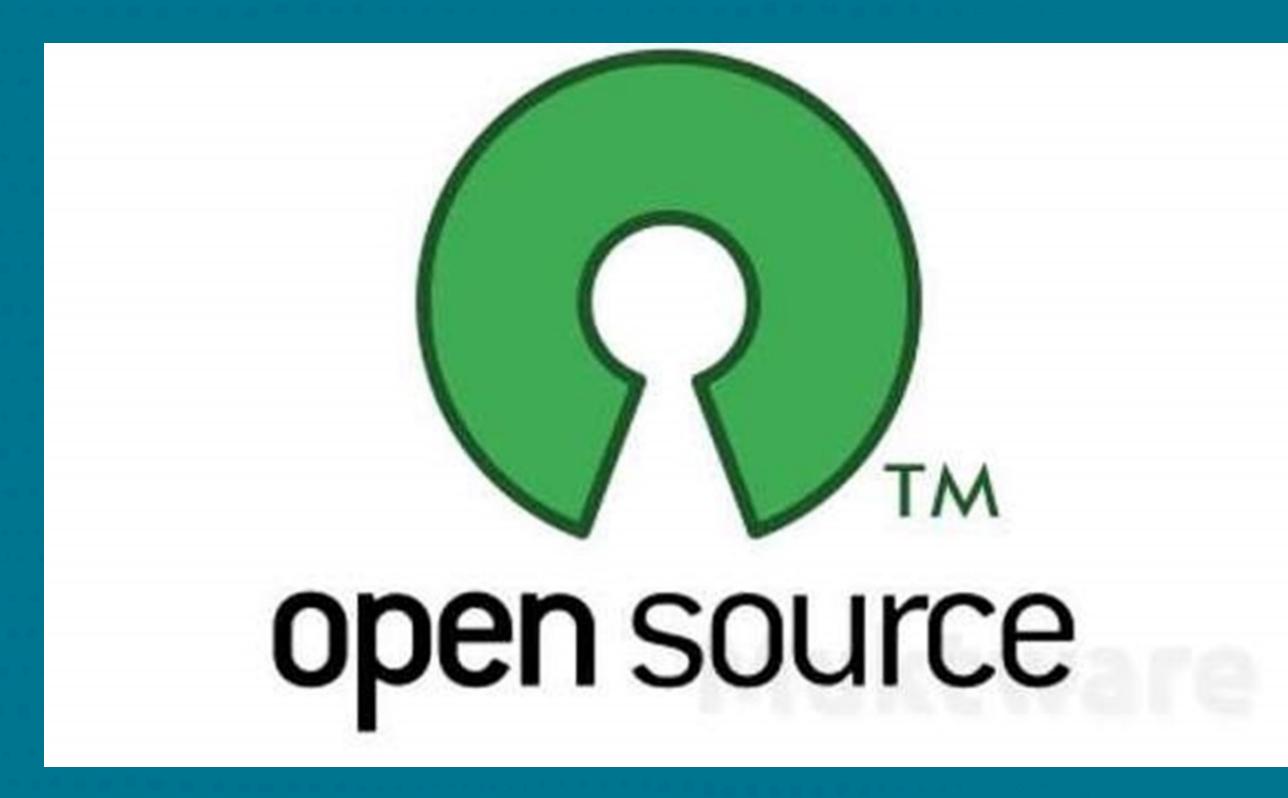
Every project developed through the JCP follows the JSR lifecycle It Includes formal public reviews and votes by the Executive Committee. Full Members can submit & lead JSRs, serve as Expert Group members on JSRs.

Associate Members can participate as Contributors on JSRs.



How: Open Standards & Open Source

We need both!





Open Source Implementations

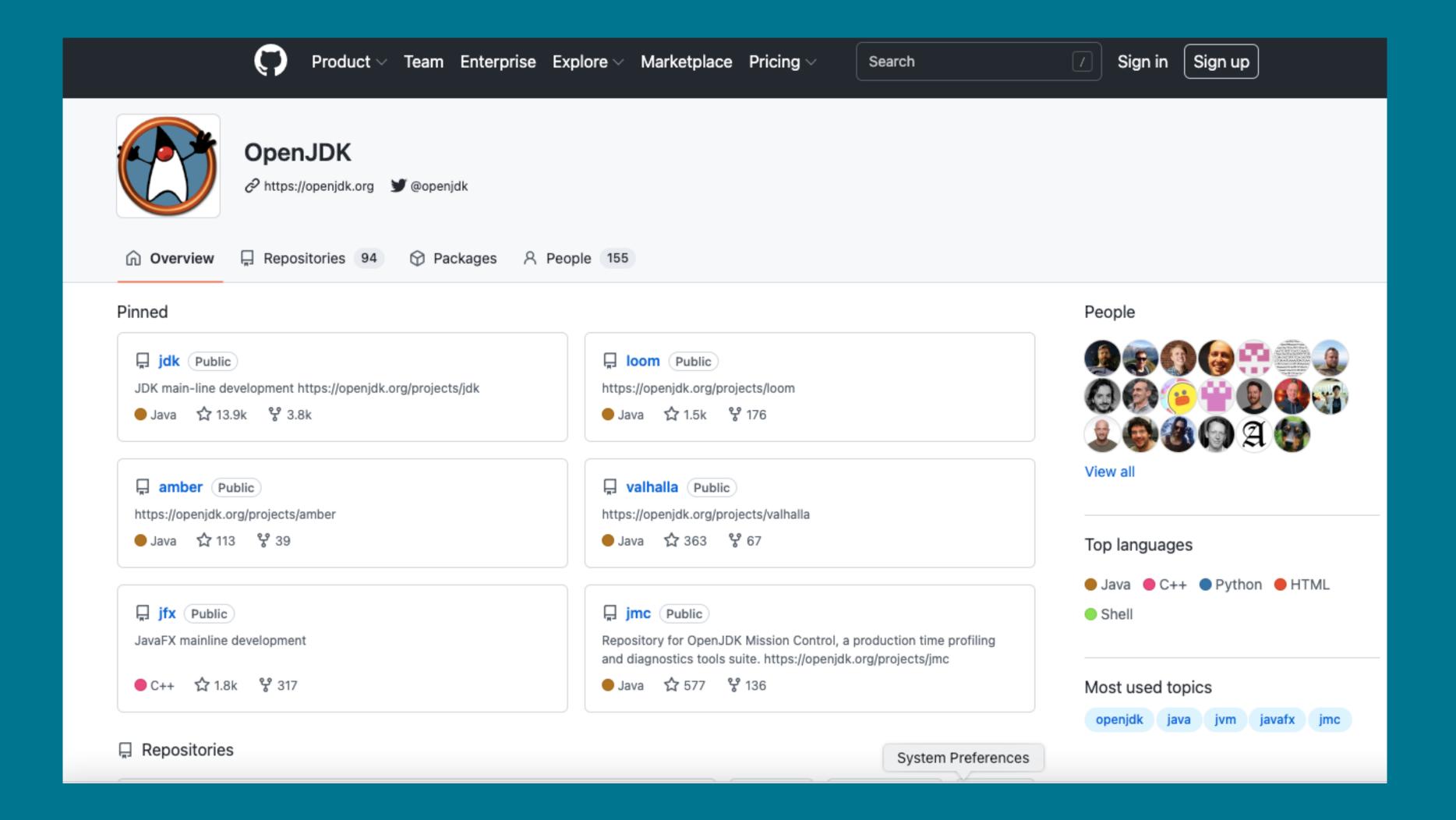
The Reference Implementations of the Java platform are developed collaboratively and released under open-source license

Java SE: OpenJDK





Now on GitHub as well...





Early Access Builds

- Every 2 weeks
- Download and test your applications
- Provide Feedback
- Make adjustments

jdk.java.net

Production and Early-Access OpenJDK Builds, from Oracle

Ready for use: JDK 21, JavaFX 21, JMC 8

Early access: JDK 23, JDK 22, JavaFX 23, JavaFX 22, Jextract, Loom, & Valhalla

Looking to learn more about Java? Visit dev.java for the latest Java developer news and resources.

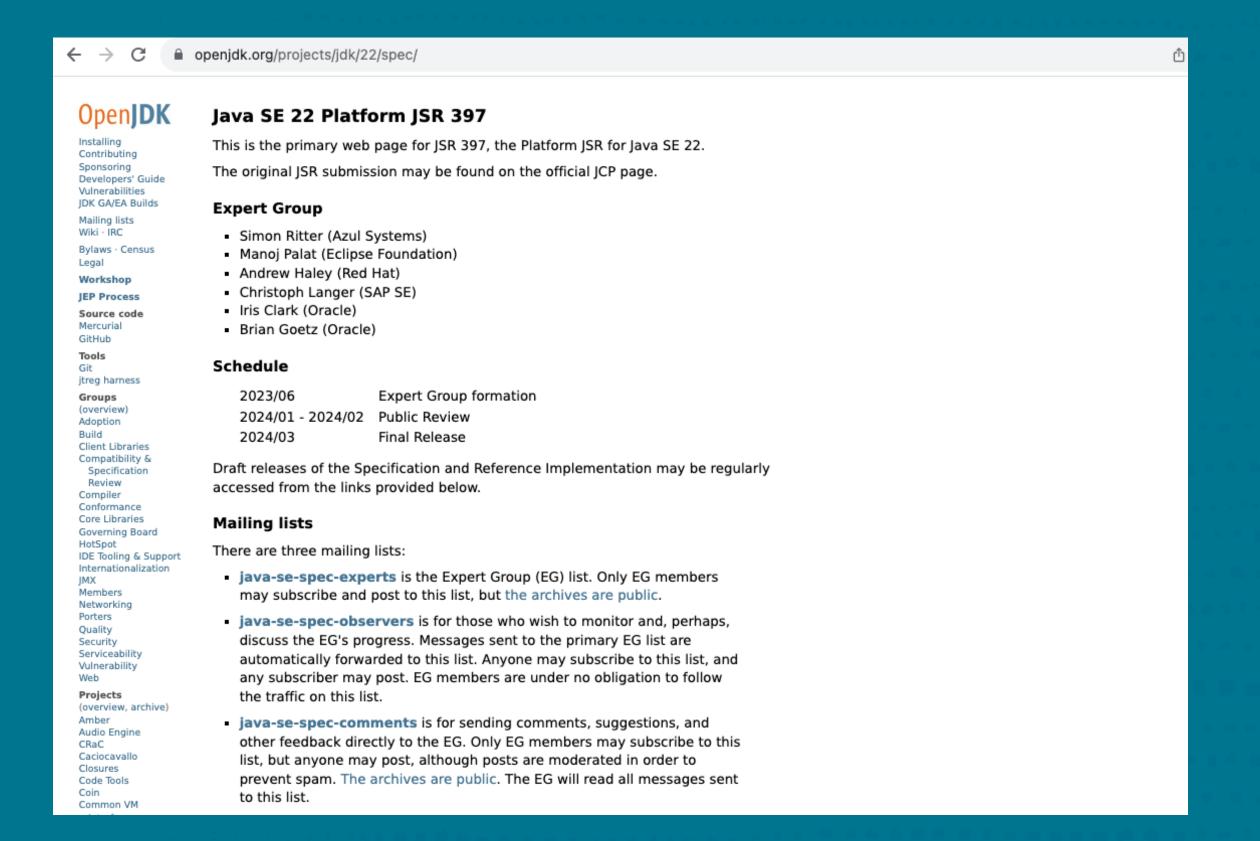
Looking for Oracle JDK builds and information about Oracle's enterprise Java products and services? Visit the Oracle JDK Download page.



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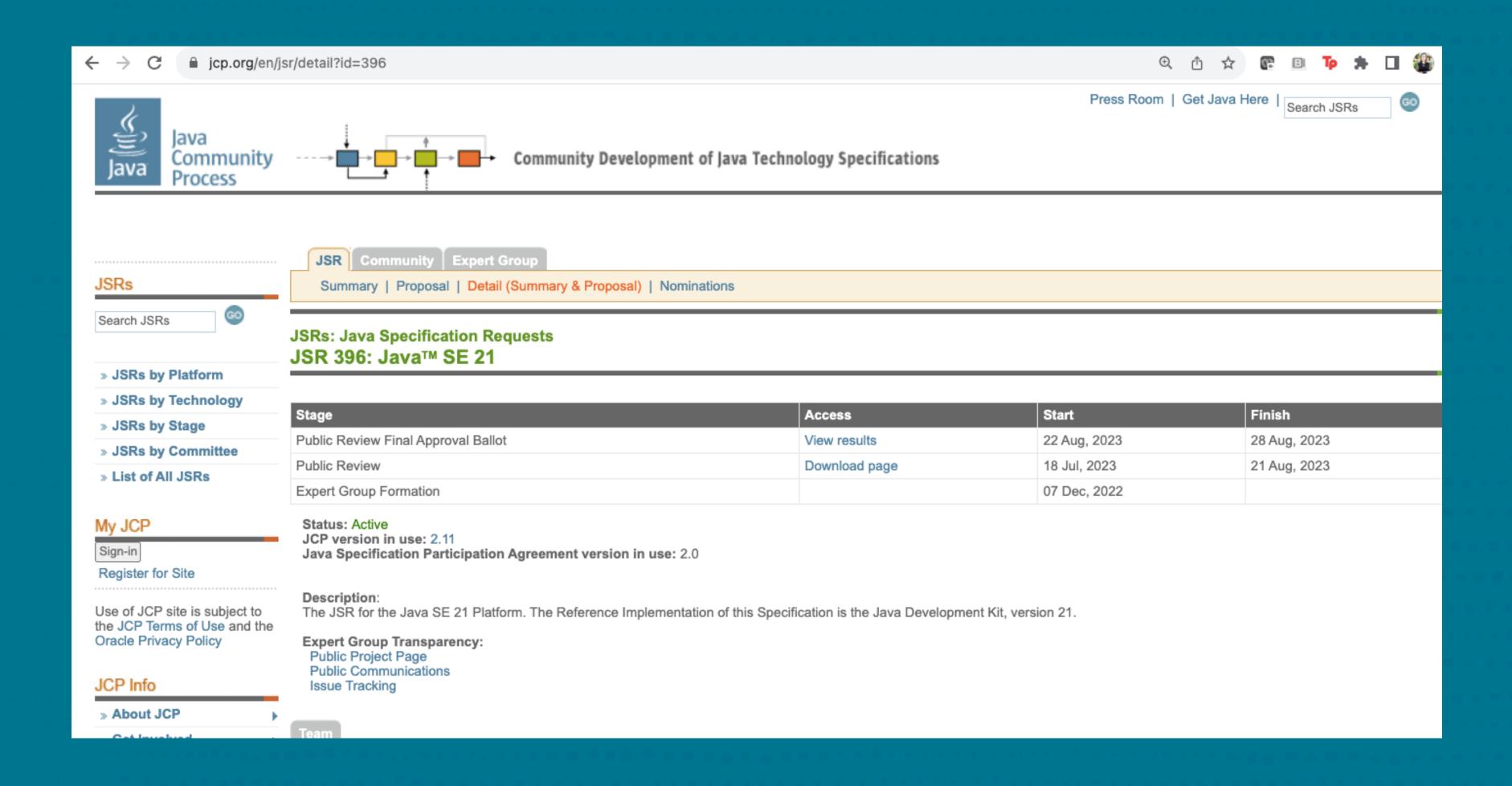


Java SE 22 – JSR 397



Early Access builds-available now https://jdk.java.net/22 March 2024 planned release http://openjdk.java.net/projects/jdk/

JSR example page





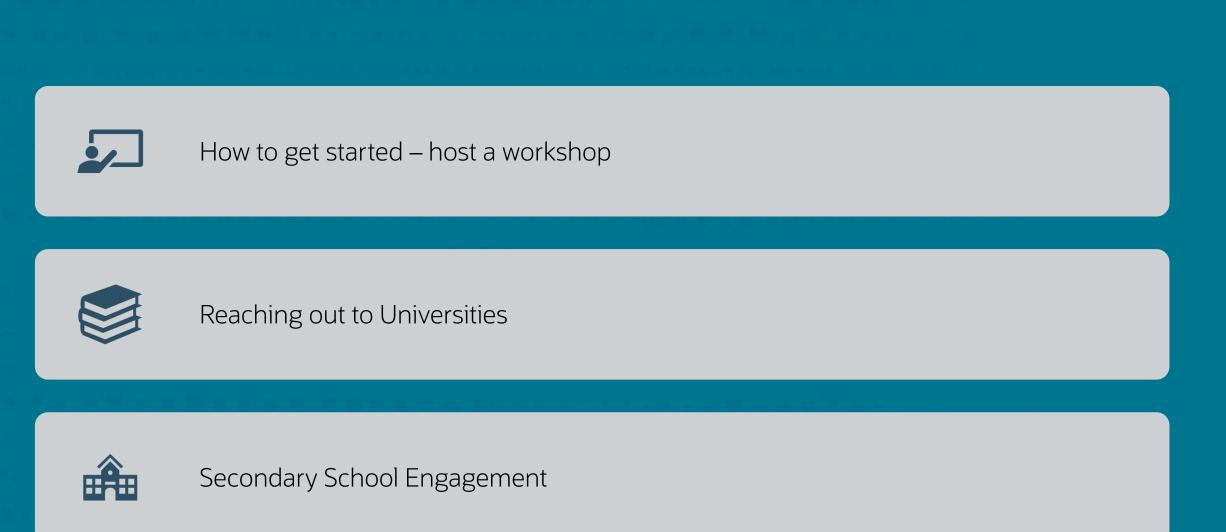
Java in Education



Bring Java to the next generation of developers

https://jcp.org/java-in-education







Success stories from other JUG Leaders

Best practices & tips for teaching/mentoring/reaching out



Mailing List



Get Involved

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mail.openjdk.org Mailing Lists

Welcome!

Below is a listing of all the public mailing lists on mail.openjdk.org. Click on a list name to get more information about the list, or to subscribe, unsubscribe, and change the preference general information page for an unadvertised list, open a URL similar to this one, but with a '/' and the list name appended.

List administrators, you can visit the list admin overview page to find the management interface for your list.

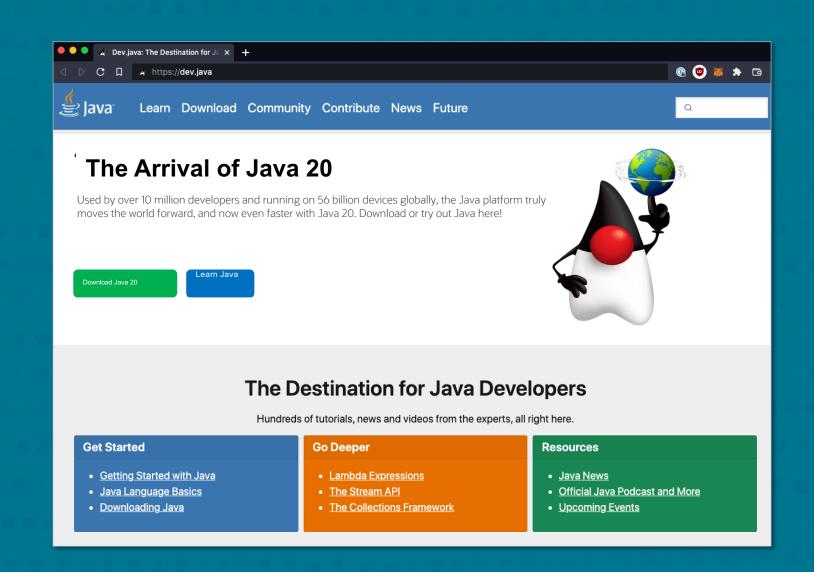
If you are having trouble using the lists, please contact mailman@openjdk.org.

List	Description
2d-dev	[ARCHIVED] Technical discussion about the Java 2D API and its implementation
aarch32-port-dev	Technical discussion about the AArch32 Port Project
aarch64-port-dev	Technical discussion about the AArch64 Port Project
adoption-discuss	General discussion about bundling and aiding OpenJDK collaboration
amber-dev	Technical discussion related to Project Amber
amber-spec-comments	Amber Expert Group Comments
amber-spec-experts	Amber Expert Group (moderated)
amber-spec-observers	Amber Expert Group Observers
anno-pipeline-dev	[ARCHIVED] Technical discussion about improving annotation handling in the javac compilation pipeline
announce	General project announcements, very low traffic, tightly moderated
asmtools-dev	Technical discussion related to Assembler Tools (JAsm/JDis and JCod/JDec) [Code Tools]
audio-engine-dev	[ARCHIVED] Technical discussion about the development of audio synthesis
awt-dev	[ARCHIVED] Technical discussion about the development of the AWT (Abstract Window Toolkit)
beans-dev	[ARCHIVED] Technical discussion about the development of the JavaBeans API and its implementation
bsd-port-dev	Technical discussion about the BSD Port Project
btrace-dev	Technical discussion related to BTrace [Code Tools]
build-dev	Technical discussion about building the JDK
build-infra-dev	[ARCHIVED] Technical discussion related to the Build Infrastructure Project
bylaws-ratification	[ARCHIVED] Vote to ratify the OpenJDK Community Bylaws (2011)
caciocavallo-dev	Technical discussion about the Caciocavallo Project





High-quality information from the source





Dev.java

Inside.java



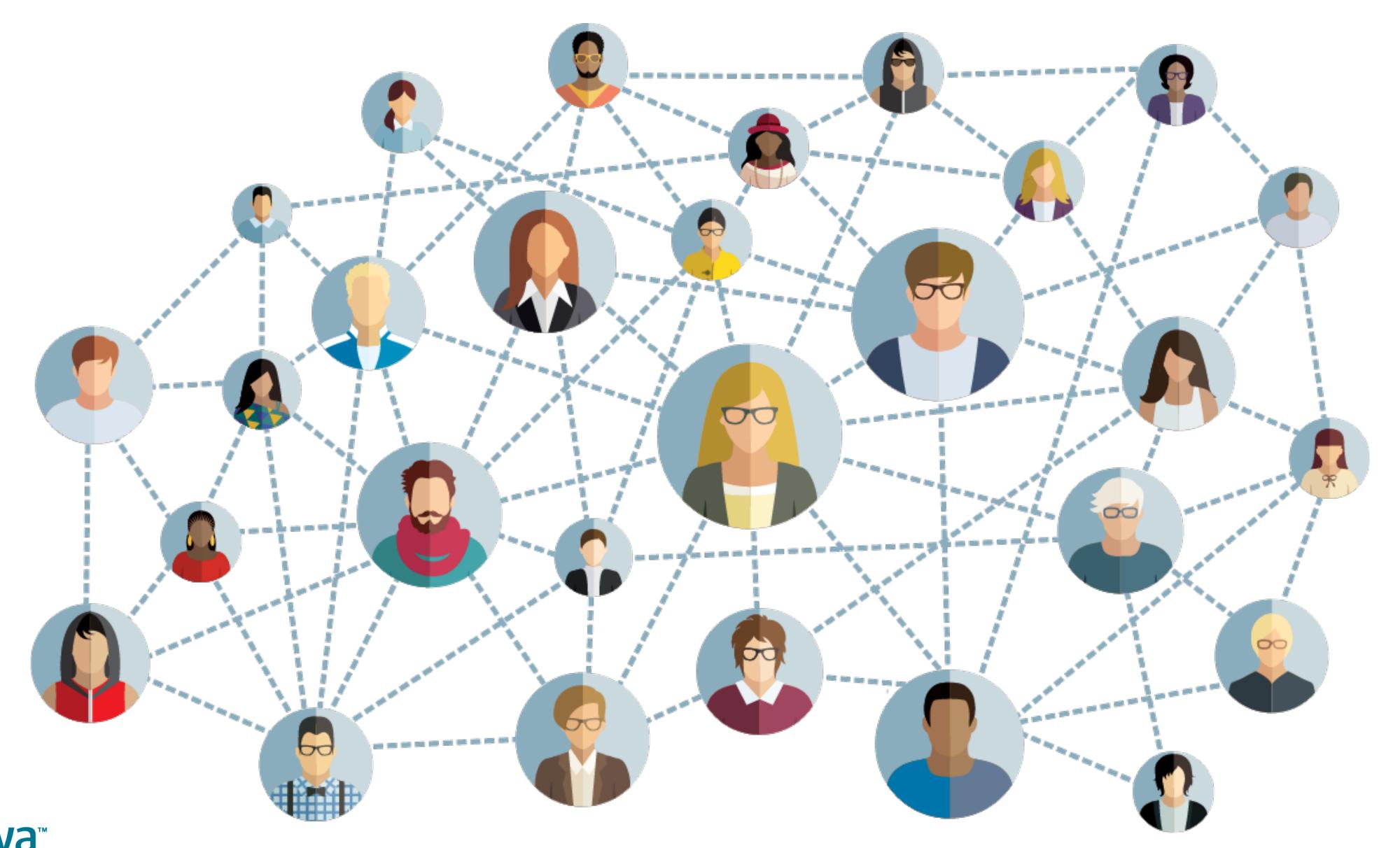
We need you!

Follow the JCP online:

- Join the JCP: https://jcp.org/en/participation/me mbership
- Twitter @jcp_org #JCP,
- Facebook: Java Community Process
- Join Public EC Meetings









thank you, ευχαριστώ, shukriya, dziekuje , நன்றி, tak, tack, grazie, gracias, danke, Благодаря, teşekkür ederim Shukran, merci, obrigado, bedankt, kiitos, xie xie,ありがとう.

Questions?

