Java Community Process Executive Committee Meeting

December 11, 2024

Heather VanCura

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Public Meeting today at 9 am pacific time

Java SE Platform Updates

Iris Clark

Please register in advance for this meeting:
https://oracle.zoom.us/meeting/register/tJUpfu-sqzMjGtPmtPdRZRlyQAlGgwjecOqn

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Roll Call

PMO		
Alibaba	Amazon	ARM
Azul Systems	BNY	Bellsoft
Deep Netts	Eclipse Foundation	Fujitsu
IBM	Intel	Japan JUG
JetBrains	MicroDoc	Microsoft
Oracle	SAP	SouJava

Members listed in blue have lost their voting privileges due to non-attendance

Members listed in red will lose their voting privileges if they do not attend this meeting

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EC Meeting Attendance

- EC members who miss two meetings in a row lose their voting privileges until they have attended one meeting.
- EC members who miss five meetings in a row or who miss two-thirds of the meetings in any 12-month period forfeit their seats.
  - NOTE: members who participate in face-to-face meetings by phone are officially counted as absent.
- See https://jcp.org/en/participation/attendance.

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Agenda

- PMO Updates & Topics
- EC Stats
- EC Elections
- Java Ecosystem
- Arm & Java Ports
- Java in Education
- 2025 Calendar

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Personnel Changes

- Please check the EC-private and the public contact pages and report any necessary updates to the PMO.
- New EC Member, Deep Netts, Zoran Sevarac; Alternate for Amazon, Paul Hohensee; additional Alternate for Intel, Derek White; additional alternate for Eclipse, Tanja Obradovic
- http://www2.jcp.org/aboutJava/communityprocess/ec-private/ECContact.html
  - http://jcp.org/en/participation/committee#membership

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EC Elections 2024

- EC Members
- https://jcp.org/en/whatsnew/elections
- Ratified: Alibaba, BellSoft, BNY, JetBrains, MicroDoc, SAP
- Elected: Eclipse Foundation, Microsoft
- Associate: Deep Netts

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Java Community Process (JCP) Program

Supplemental Statistics
16 October – 8 December 2024
Prepared for 10 December 2024

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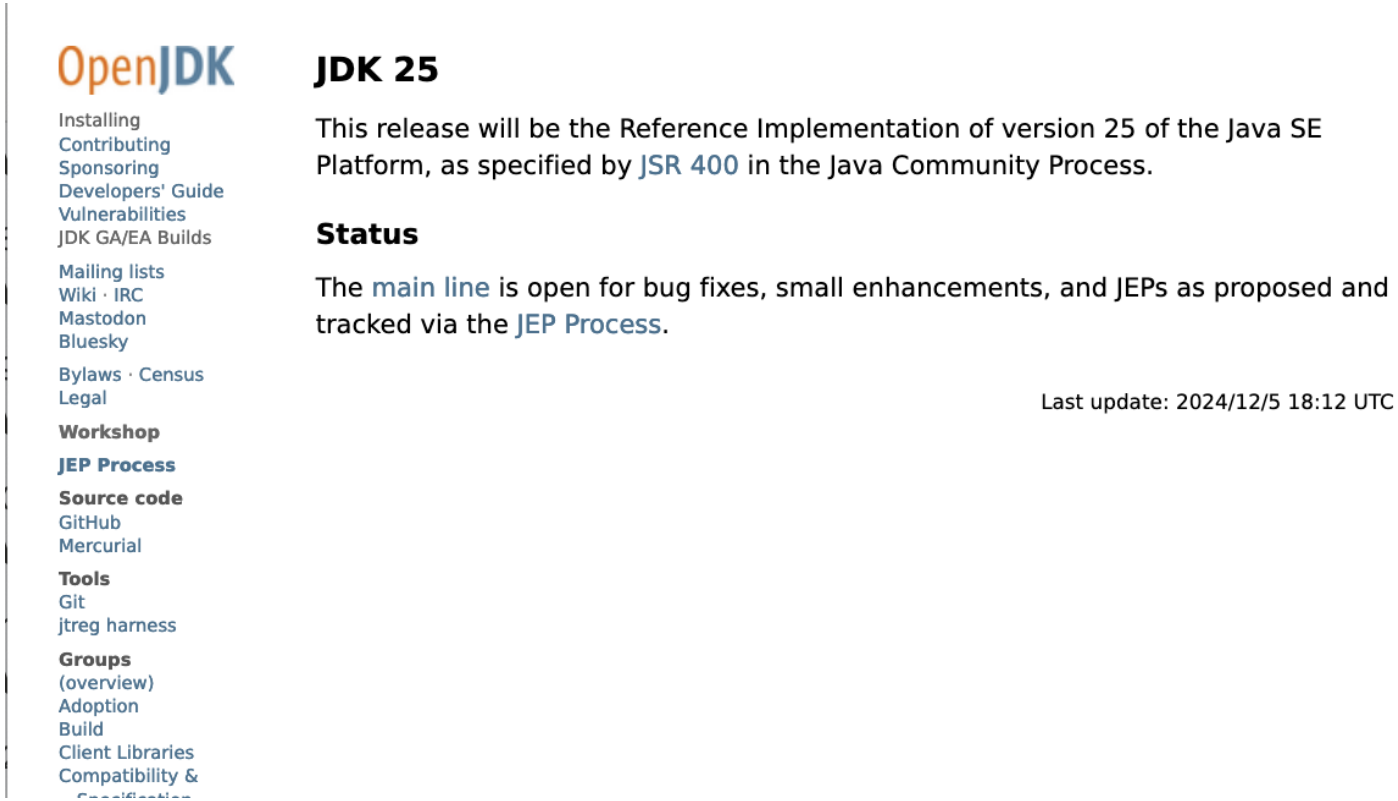
JSR Updates

- JSR 400: JSR Iteration— Java SE 25; Oracle



OpenJDK

Installing
Contributing
Sponsoring
Developers' Guide
Vulnerabilities
JDK GA/EA Builds

Mailing lists
Wiki · IRC
Mastodon
Bluesky

Bylaws · Census
Legal

Workshop

JEP Process

Source code
GitHub
Mercurial

Tools
Git
jtreg harness

Groups
(overview)
Adoption
Build
Client Libraries
Compatibility &

JDK 25

This release will be the Reference Implementation of version 25 of the Java SE Platform, as specified by JSR 400 in the Java Community Process.

Status

The main line is open for bug fixes, small enhancements, and JEPs as proposed and tracked via the JEP Process.

Last update: 2024/12/5 18:12 UTC

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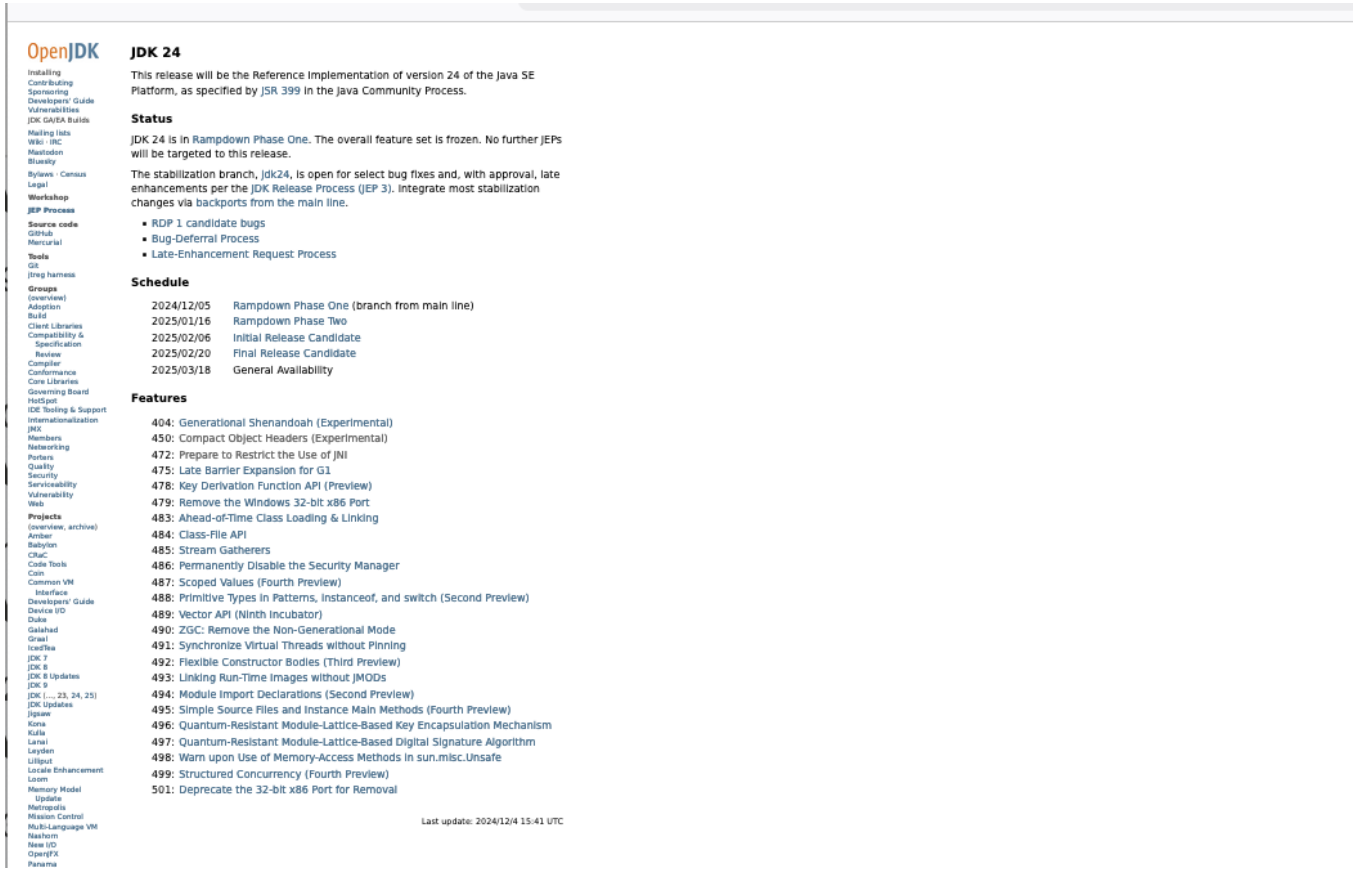
JSR Updates

- JSR 399: Expert Group Formation — Java SE 24; Oracle



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Compatibility & Specification Review
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Core Libraries
Governing Board
HotSpot
IDE Tooling & Support
Internationalization
JMX
Members
Networking
Porters
Quality
Security
Serviceability
Vulnerability
Web

Projects
(overview, archive)
Amber
Babylon
CRaC
Code Tools
Coin
Common VM Interface
Developers' Guide
Device I/O
Duke
Galahad
Graal
IcedTea
JDK 7
JDK 8
JDK 8 Updates
JDK 9
JDK (..., 23, 24, 25)
JDK Updates
Jigsaw
Kona
Kulla
Lanai
Leyden
Lilliput
Locale Enhancement
Loom
Memory Model Update
Metropolis
Mission Control
Multi-Language VM
Nashorn
New I/O
OpenJFX
Panama

JDK 24

This release will be the Reference Implementation of version 24 of the Java SE Platform, as specified by JSR 399 in the Java Community Process.

Status

JDK 24 is in Rampdown Phase One. The overall feature set is frozen. No further JEPs will be targeted to this release.

The stabilization branch, jdk24, is open for select bug fixes and, with approval, late enhancements per the JDK Release Process (JEP 3). Integrate most stabilization changes via backports from the main line.

- RDP 1 candidate bugs
- Bug-Deferral Process
- Late-Enhancement Request Process

Schedule

2024/12/05	Rampdown Phase One (branch from main line)
2025/01/16	Rampdown Phase Two
2025/02/06	Initial Release Candidate
2025/02/20	Final Release Candidate
2025/03/18	General Availability

Features

404: Generational Shenandoah (Experimental)
450: Compact Object Headers (Experimental)
472: Prepare to Restrict the Use of JNI
475: Late Barrier Expansion for G1
478: Key Derivation Function API (Preview)
479: Remove the Windows 32-bit x86 Port
483: Ahead-of-Time Class Loading & Linking
484: Class-File API
485: Stream Gatherers
486: Permanently Disable the Security Manager
487: Scoped Values (Fourth Preview)
488: Primitive Types in Patterns, instanceof, and switch (Second Preview)
489: Vector API (Ninth Incubator)
490: ZGC: Remove the Non-Generational Mode
491: Synchronize Virtual Threads without Pinning
492: Flexible Constructor Bodies (Third Preview)
493: Linking Run-Time Images without JMODs
494: Module Import Declarations (Second Preview)
495: Simple Source Files and Instance Main Methods (Fourth Preview)
496: Quantum-Resistant Module-Lattice-Based Key Encapsulation Mechanism
497: Quantum-Resistant Module-Lattice-Based Digital Signature Algorithm
498: Warn upon Use of Memory-Access Methods in sun.misc.Unsafe
499: Structured Concurrency (Fourth Preview)
501: Deprecate the 32-bit x86 Port for Removal

Last update: 2024/12/4 15:41 UTC

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Arm & Java Ports

Stuart Monteith

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Java Ecosystem Working Group

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Java Ecosystem Working Group – 3rd Party Tools/Libraries

Starting in April 2023 EC Meeting, discussion of Java Ecosystem
https://jcp.org/aboutJava/communityprocess/ec-public/materials/2023-04-12/JCP_Java_SE_Update_April_2023.pdf

Working Group discussions

https://github.com/jcp-org/Java-Ecosystem-JCP-Working-Group/wiki/Java-Ecosystem-JCP-Working-Group

The world is ready for the ecosystem of Java libraries, frameworks, and tools to embrace a delivery model similar to that of the JDK. Tip development, with LTS offerings. By making this shift, library vendors can realize exactly the same kind of benefits that we have achieved for the Java platform itself. What's more, this will further strength and extend the viability of Java overall.

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Next Steps and Action Items

- Outreach to community, promote importance of adoption in your company, educate/assist maintainers
- Spread the word about Java Ecosystem, adoption and tip & tail
  - Next discussion December 17 (Tuesday) at 9 am PDT (Apache, Gradle, Spring others share experiences)

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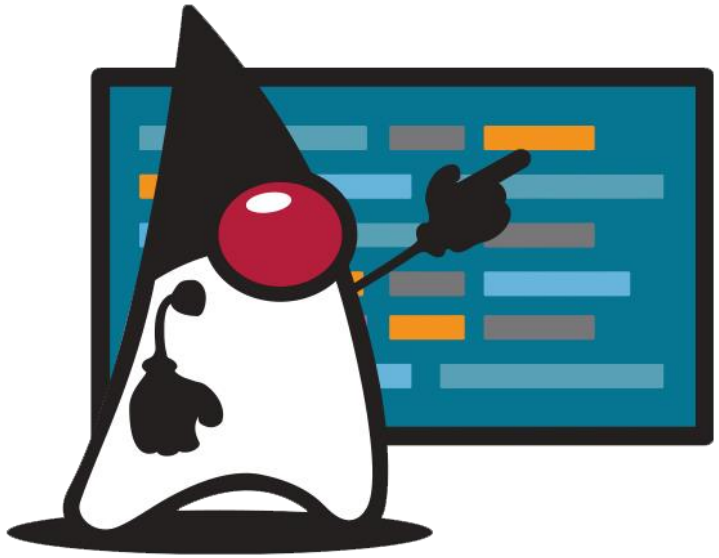
Java in Education



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Use Images

https://jcp.org/en/ec/my#jcp_ec_logo

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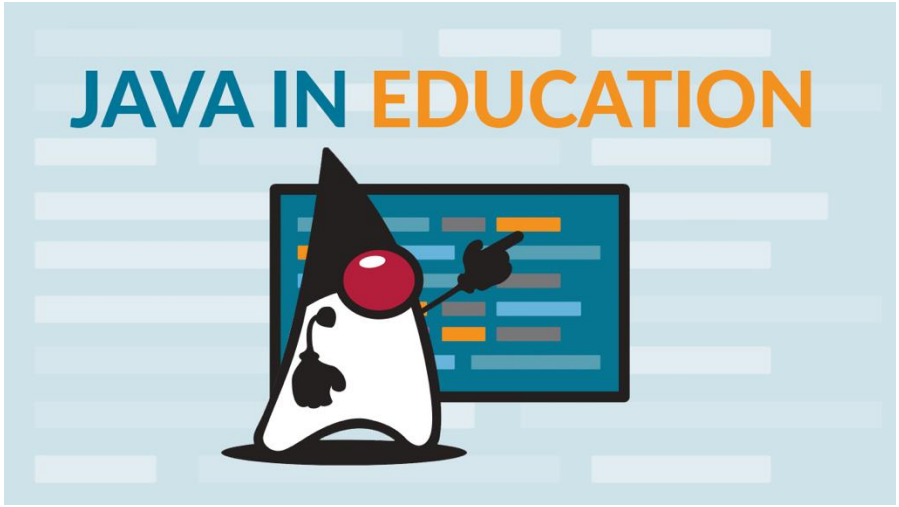
JUG Leader Initiative Component

JUG leader resources and sharing experiences

Ongoing discussions with JUG Leaders

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



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Updated materials

- How & Why to Learn Java - updated for Java SE 23
- Modern Java Features - updated for Java SE 24
- Workshop for students - How to use Java with ML/AI w/Visual Rec/ChatGPT (JSR 381)
- Day in the Life examples - IBM, Oracle

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Next Steps and Action Items

- EC Members - use new social media template to promote importance and need for Java developers
- Spread the word about Java in Education for JUG leaders
- groups.io list: https://groups.io/g/EducationInJava
  - Next discussion w/ JUGs Dec 17 (Tuesday) at 8:30 am PDT

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March 17-20, 2025
Redwood Shores, CA

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2025 EC Meeting Dates

- February 11 (Teleconference) 8 - 10 am PST
- March 21 (Face to Face Bay Area)
- June 10 (Teleconference - public) 8 am - 10 am PDT
- August 12 (Teleconference) 8 am - 10 am PDT
- October 10 (Face to Face Cambridge)
- December 9 (Teleconference - public) 8 -10 am PST

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Next Meeting

11 February 8-10 am Pacific Time

Online Only

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Thank you!

http://jcp.org

https://twitter.com/jcp_org

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