

What's New in Java 11: Long-term Support

JAVA 11 INTRODUCTION



Sander Mak

FELLOW & SOFTWARE ARCHITECT

@Sander_Mak

Course Overview

**Java 11
Introduction**

**Deprecations
& Removals**

**Language &
Library
Improvements**

**Performance &
Security
Improvements**

Follow Along

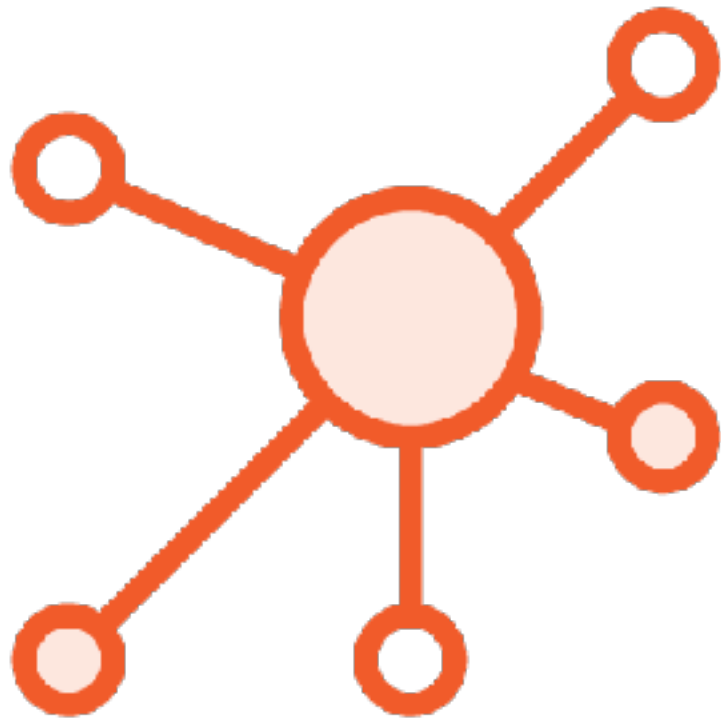
Download JDK 11



jdk.java.net/11/

GA: September 25th 2018

Catching Up: Java 9



Module system


What's New in Java 9

by Sander Mak

It is time to get up to speed with the release of Java 9 and its developments. In this course, you'll learn about the new features, such as the module system, newly introduced APIs, and changes to the language.

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Course author

 **Sander Mak**

Sander is a Fellow at Luminis in The Netherlands, where he crafts modular and scalable software, most often on the JVM, but with a touch of TypeScript when needed. He also is a Java Champion and...

Course info

Level	Intermediate
Rating	★★★★★ (27)
My rating	★★★★★
Duration	3h 33m
Released	14 Sep 2017

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Description Transcript Exercise files Discussion Learning Check

Recommended

▶ Course Overview	✓	🔖	1m 35s	▼
▶ The Java Platform Module System		🔖	39m 45s	▼
▶ Introducing JShell		🔖	24m 41s	▼

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Catching Up: Java 10



var

Java 10 in Perspective

What's New in Java 10: Local-variable Type Inference

by Sander Mak

Improved Container Awareness

This course provides an overview of the most important features that are part of Java 10.

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Course info

Level	Intermediate
Rating	★★★★★ (15)
My rating	★★★★★
Duration	1h 0m
Released	10 Mar 2018

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- Course Overview ✓ 1m 36s
- Java 10 Introduction 22m 4s
- Local-variable Type Inference 23m 19s
- Performance Improvements 13m 29s

This course is part of: [Java Path](#)

[Expand all](#)

Oracle JDK & OpenJDK

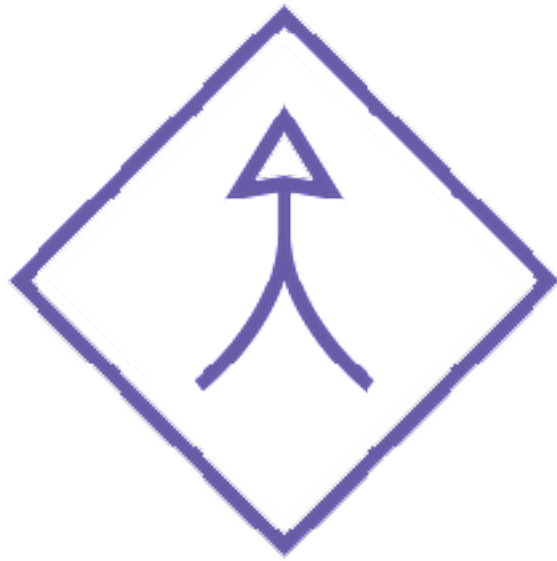


Oracle JDK

The diagram consists of a large orange rectangle representing Oracle JDK. Inside this rectangle, centered, is a smaller blue rectangle representing OpenJDK. The text 'Oracle JDK' is written in white inside the orange rectangle, and 'OpenJDK' is written in white inside the blue rectangle.

OpenJDK

Oracle JDK & OpenJDK



Goal: convergence of
Oracle & OpenJDK
codebases

Open-source commercial features

Oracle JDK & OpenJDK

Java Flight Recorder

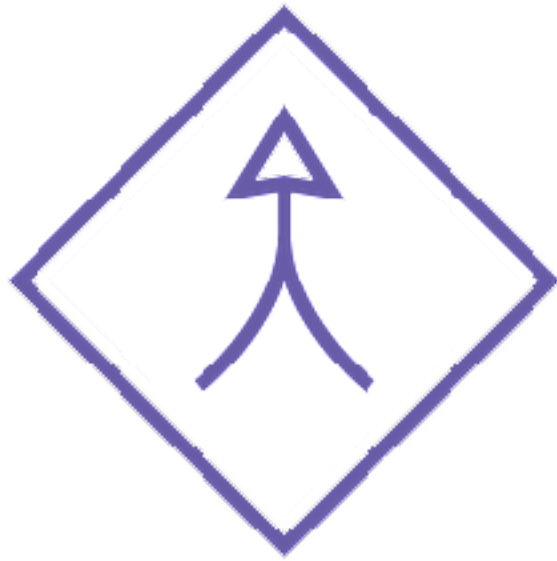
Always-on, low-overhead data collection framework

Bounded circular buffer

Java Mission Control



Oracle JDK & OpenJDK

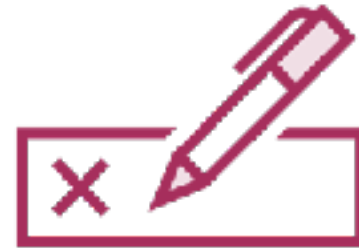


Goal: convergence of
Oracle & OpenJDK
codebases

Removed: `-XX:+UnlockCommercialFeatures`

Licensing

OpenJDK



GPL 2

Oracle JDK



**Oracle Binary Code
License Agreement**

bit.ly/javasubscription

New Java Release Schedule

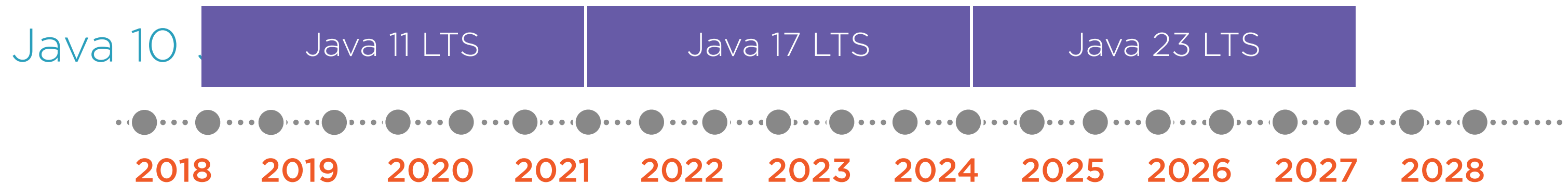
Java 10 Java 11

Java 31



What about **support**?

New Java Release Schedule



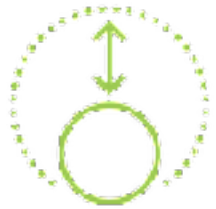
Long-term support (**LTS**) release every 3 years

Oracle JDK only

New Java Release Schedule



Increased frequency



Smaller & incremental



Non-LTS releases are **not** experimental



Deprecations/removals between LTS

New Java Release Schedule

OpenJDK: Adopt release every 6 months

Oracle JDK: Adopt LTS every 3 years (minimum) with subscription

Others: AdoptOpenJDK, Azul

Launching Single-file Source-code



Hello.java

```
$ javac Hello.java
```

→ Hello.class

```
$ java Hello  
Hello Pluralsight!
```

Launching Single-file Source-code



Hello.java

```
$ java Hello.java  
Hello Pluralsight!
```

--source <version>

Scripting

./listfiles



shebang

```
#!/usr/bin/java --source 11
import java.nio.file.*;

public class ListFiles {
    public static void main(String[] args)
        throws Exception {
        Files.walk(Paths.get(args[0]))
            .forEach(System.out::println);
    }
}
```

Demo

[Launch Single-file Source-code](#)

Summary



Oracle JDK & OpenJDK
convergence



Rapid releases: LTS



Launch source-code