



# Java 8 vs Java 11

Java 8	JAVA 11
<b>Release Date &amp; LTS</b> Released in March 2014, Long-Term Support (LTS) until 2030.	<b>Release Date &amp; LTS</b> Released in September 2018, the first LTS release after Java 8.
<b>Key Features</b> Introduced Lambda Expressions, Streams API, and New Date/Time API.	<b>Key Features</b> Enhanced Lambda expressions, added HTTP client API, and removed deprecated APIs.
<b>Performance Improvements</b> Solid performance, but no major JVM improvements.	<b>Performance Improvements</b> Improved JVM performance, Garbage Collection, and JIT compiler optimizations.
<b>Deprecation &amp; Removal</b> No major removals.	<b>Deprecation &amp; Removal</b> Removed Java EE, CORBA, Nashorn JavaScript engine, and JavaFX.

[Java](#) is a widely used language among developers around the globe. Its numerous updates and upgrades over time have made it endure in different industries. Between two of the most significant versions compared, developers frequently debate between Java 8 and Java 11. If you are a novice Java developer or looking to increase your knowledge, knowing how both compare is essential. At TCCI Computer Coaching Institute, we help you stay updated with the latest technologies, including Java development.

## Key Features of Java 8

Released in March 2014, Java 8 brought revolutionary changes that redefined how developers write code. Here are some of its standout features:

- 1. Lambda Expressions:** Introduced functional programming, allowing developers to write cleaner and more efficient code.
- 2. Stream API:** Simplified data processing tasks by enabling functional-style operations on collections.

3. **Default Methods:** Made it possible for interfaces to have default implementations, thus increasing flexibility.
4. **Date and Time API:** Replaced the older `java.util.Date` and `Calendar` with a more intuitive `java.time` package.
5. **Optional Class:** Helped developers handle null values more effectively, thus reducing `NullPointerException` errors.

## Key Features of Java 11

Java 11 was released in September 2018. It built on the foundation of Java 8 and introduced several performance improvements, security enhancements, and new features:

1. **Local Variable Syntax for Lambda Parameters:** Easier coding with improved type inference.
2. **String Methods:** There are many new methods like `isBlank()`, `lines()`, `repeat()` and many more, which made string manipulation easier.
3. **HTTP Client API:** A new standard API to send HTTP requests and receive responses, where `URLConnection` is replaced.
4. **Garbage Collection Enhancements:** ZGC and other garbage collectors are improved for memory management.
5. **Java Flight Recorder:** A lightweight tool for profiling and diagnosing performance issues in Java applications.

## Why Learn Java 11 Over Java 8?

Although Java 8 is still widely used, most enterprises have started migrating to Java 11 due to improved performance, security, and support for modern development practices. Learning Java 11 makes you well-prepared to work on current and future projects.

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Beginner to the Java 8 or Upgrade your skills to the latest Java 11, we support you in perfecting your java skills.

There are individual strengths of Java 8 and Java 11. While Java 8 implemented the extremely impacting features Lambda Expressions and Stream API, Java 11 polished this feature set, adding yet more instruments to boost your productivity as a developer. Choose between them based on the requirements of your project and your career goals.

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