

JAVA VERSIONS

JAVA 8 :

- LAMBDA EXPRESSION
- STREAM API
- JAVA.UTIL.FUNCTION
- DATE AND TIME API

JAVA 9 :

Introduced JPM (JAVA PLATFORM MODULE SYSTEM) as architectural change enabling better encapsulation, scalable builds, stronger access ctrl.

JAVA 10 :

Local variable interface using VAR

JAVA 11 (LTS) :

Introduced std HTTP client API removing deprecated APIs like JavaFX and Applets

JAVA 12 - 16 :

- switch expression
- text blocks
- pattern matching for instance of
- records
- sealed classes

JAVA 17 (LTS) :

It finalized lots of previous features, offering a robust foundation for modern app design, making it the most adopted LTS release in prod env!

JAVA 18 - 19 :

Included preview and incubator features such :

- Vector API
- Structured Concurrency
- Foreign Function
- Memory API

JAVA 21 (LTS):

- virtual threads
- pattern matching for switch
- record patterns
- sequential collection
- string templates

With virtual threads and structured concurrency made writing scalable multithreaded app much easier.

JAVA 22:

- multi-file source launch
- gatherers

JAVA 23:

- primitive patterns in INSTANCEOF/switch
- module import declarations
- ZGC generational by default

JAVA 24:

- Class-File API
- compact object headers
- virtual-thread sync w/out pinning