

**New features in Java SE 7**

* Strings in switch Statement
* Type Inference for Generic Instance Creation
* Multiple Exception Handling
* Support for Dynamic Languages
* Try with Resources
* Java nio Package
* Binary Literals, underscore in literals
* Diamond Syntax
* Automatic null Handling

**New features in Java SE 8**

* Lambda Expressions
* Pipelines and Streams
* Date and Time API
* Default Methods
* Type Annotations
* Nashhorn JavaScript Engine
* Concurrent Accumulators
* Parallel operations
* PermGen Error Removed
* TLS SNI
* **New features in Java SE 9**
* Modularization of the JDK under Project Jigsaw.
* Provided Money and Currency API.
* Tight integration with JavaFX.
* Java implementation of reactive streams.
* More Concurrency Updates.
* Provided Java Linker.
* Automatic scaling and sizing.
* **New features in Java SE 10**
* Local-Variable Type Inference
* Experimental Java-Based JIT Compiler This is the integration of the Graal dynamic compiler for the Linux x64 platform
* Application Class-Data Sharing This allows application classes to be placed in the shared archive to reduce startup and footprint for Java applications
* Time-Based Release Versioning
* Parallel Full GC for G1
* Garbage-Collector Interface
* Additional Unicode Language-Tag Extensions
* Root Certificates
* Thread-Local Handshakes
* Heap Allocation on Alternative Memory Devices
* Remove the Native-Header Generation Tool - javah
* Consolidate the JDK Forest into a Single Repository
* **New features in Java SE 11**
* Running Java File with single command
* New utility methods in String class
* Local-Variable Syntax for Lambda Parameters
* Nested Based Access Control
* JEP 321: HTTP Client
* Reading/Writing Strings to and from the Files
* JEP 328: Flight Recorder
* **New features in Java SE 12**

1. JVM Changes – JEP 189, JEP 346, JEP 344, and JEP 230.
2. Switch Expressions
3. File mismatch() Method
4. Compact Number Formatting
5. Teeing Collectors in Stream API
6. Java Strings New Methods – indent(), transform(), describeConstable(), and resolveConstantDesc().
7. JEP 334: JVM Constants API
8. JEP 305: Pattern Matching for instanceof
9. Raw String Literals is Removed From JDK 12.
10. **New features in Java SE 13**

* Text Blocks – JEP 355
* New Methods in String Class for Text Blocks
* Switch Expressions Enhancements – JEP 354
* Reimplement the Legacy Socket API – JEP 353
* Dynamic CDS Archive – JEP 350
* ZGC: Uncommit Unused Memory – JEP 351
* FileSystems.newFileSystem() Method
* Support for Unicode 12.1
* DOM and SAX Factories with Namespace Support
* **New features in Java SE 14**
* Switch Expressions (Standard) – JEP 361
* Pattern Matching for [instanceof](https://www.journaldev.com/17136/instanceof-java) (Preview) – JEP 305
* Helpful [NullPointerExceptions](https://www.journaldev.com/14544/java-lang-nullpointerexception) – JEP 358
* Records (Preview) – JEP 359
* Text Blocks (Second Preview) – JEP 368
* Packaging Tool (Incubator) – JEP 343
* NUMA-Aware Memory Allocation for G1 – JEP 345
* JFR Event Streaming – JEP 349
* Non-Volatile Mapped Byte Buffers – JEP 352
* ZGC on macOS – JEP 364
* ZGC on Windows – JEP 365
* Foreign-Memory Access API (Incubator) – JEP 370