

JAVA Features

Overview

JAVA Features - 5, 7 TO 13

JAVA 5 (SOURCE – JAVATPOINT)

For-each loop

Variable Argument (Varargs)

Static Import

Autoboxing and Unboxing

Enum

Covariant Return Type

Annotation

Generics

JAVA 7 (SOURCE - JAVAREVISITED)

Type inference

Automatic Resource Management (try-with-resources)

Underscore in Numeric literals

Catching Multiple Exception Type in Single Catch Block

Binary Literals with prefix "0b"

Java NIO 2.0

G1 Garbage Collector

Precise Rethrowing of Exception

JAVA 8 (SOURCE – JAVATPOINT | JOURNALDEV)

JAVA Features - 5, 7 TO 13

Java 8 Date/Time API

Lambda Expressions

Java Method References

Java Functional Interfaces , Static and Default methods

Java 8 Stream

Java Base64 Encode and Decode

forEach() method in Iterable interface

Optional Class

Collection API improvements

Concurrency API

Java IO improvements

JAVA 9 (SOURCE – JOURNALDEV)

Factory Methods for Immutable List, Set, Map and Map.Entry

Private methods in Interfaces

Java 9 REPL (JShell)

Module System

Process API Improvements

Try With Resources Improvement

Optional Class Improvements

Stream API Improvements

Reactive Streams

Enhanced @Deprecated annotation

HTTP Client

JAVA 10 (SOURCE – HOWTODOINJAVA)

JEP 286: Local Variable Type Inference

JAVA Features - 5, 7 TO13

JEP 322: Time-Based Release Versioning

JEP 304: Garbage-Collector Interface

JEP 307: Parallel Full GC for G1

JEP 316: Heap Allocation on Alternative Memory Devices

JEP 296: Consolidate the JDK Forest into a Single Repository

JEP 314: Additional Unicode Language-Tag Extensions

JEP 319: Root Certificates

JEP 317: Experimental Java-Based JIT Compiler

JEP 312: Thread-Local Handshakes

JEP 313: Remove the Native-Header Generation Tool

JEP 310: Application Class-Data Sharing

JAVA 11 (SOURCE – JOURNALDEV)

JEP 330 - Running Java File with single command

Local-Variable Syntax for Lambda Parameters

Java String Methods

Nested Based Access Control

Reading/Writing Strings to and from the Files

JEP 329: ChaCha20 and Poly1305 Cryptographic Algorithms

JEP 315: Improve Aarch64 Intrinsics

JEP 333: ZGC: A Scalable Low-Latency Garbage Collector (Experimental)

JEP 335: Deprecate the Nashorn JavaScript Engine

JEP 309: Dynamic Class-File Constants

JEP 318: Epsilon: A No-Op Garbage Collector

JEP 320: Remove the Java EE and CORBA Modules

JEP 328: Flight Recorder

JEP 321: HTTP Client

JAVA Features - 5, 7 TO 13

JAVA 12 (SOURCE – JOURNALDEV)

Switch Expressions

File mismatch() Method

Teeing Collectors in Stream API

Java Strings New Methods

JEP 305: Pattern Matching for instanceof

Raw String Literals is Removed From JDK 12.

JEP 334: JVM Constants API

Compact Number Formatting

JVM Changes – JEP 189, JEP 346, JEP 344, and JEP 230.

JAVA 13 (SOURCE – JOURNALDEV)

Text Blocks – JEP 355

New Methods in String Class for Text Blocks

Switch Expressions Enhancements – JEP 354

FileSystems.newFileSystem() Method

DOM and SAX Factories with Namespace Support

Reimplement the Legacy Socket API – JEP 353

Dynamic CDS Archive – JEP 350

ZGC: Uncommit Unused Memory – JEP 351

Support for Unicode 12.1