History of JAVA

1995
JDK Beta

1996
JDK 1.0

Codenamed Oak

1997
JDK 1.1

Reflection (introspection only)

RMI (Remote Method Invocation)

Java Beans

Inner Classes

JDBC (Java Database Connectivity)

1998
J2SE 1.2

Collections framework

Java String memory map for constants

Just In Time (JIT) compiler

Jar Signer for signing Java ARchive (JAR) files

Policy Tool for granting access to system resources

Java Foundation Classes (JFC) which consists of Swing 1.0, Drag and Drop, and Java 2D class libraries

Java Plug-in

Scrollable result sets, BLOB, CLOB, batch update, user-defined types in JDBC

Audio support in Applets

2000
J2SE 1.3

Enhancements in almost all the java area

Jar Indexing

Java Sound

2002
J2SE 1.4

XML Processing

Java Print Service

Logging API

Java Web Start

JDBC 3.0 API

Assertions

Preferences API

Chained Exception

IPv6 Support

Regular Expressions

Image I/O API

2004
J2SE 5

Instrumentation

Metadata (Annotations)

Static Import

Varargs

Typesafe Enums

Autoboxing/Unboxing

Enhanced for Loop

Generics

2006 JAVA SE 6

- Scripting Language Support
- **JDBC 4.0 API**
- Java Compiler API
- Pluggable Annotations
- Native PKI, Java GSS, Kerberos and LDAP support
- Integrated Web Services
- Lot more enhancements

2011 JAVA SE 7

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

2014 JAVA SE 8

- **Lambda Expressions**
- **Pipelines and Streams**
- Date and Time API
- **Default Methods**
- Type Annotations
- **Collection API Enhancements**
- Nashhorn JavaScript Engine
- Concurrent Accumulators
- **Parallel operations**
- **PermGen Memory area removed**
- TLS SNI

2017 JAVA SE 9

- **Java Platform Module System (JPMS) – Jigsaw Project (JDK is itself modularized)**
- jlink tool
- Collection factory methods - List.of(...), Set.of(...), etc
- Streams API improvements - support Optional, support iteration, take-drop functionality
- **Java REPL JShell**
- Small language modifications - Try-With-Resources, Diamond operator extension for anonymous classes, Private methods in Interface, Process API improvements
- Multi-release
- New HTTP Client and HTTP/2 support

March, 2018 JAVA SE 10

- **Local Variable Type Inference (usage of var instead of strong typing at language level)**
- **Graal - Java based JIT compiler and polygot runtime**
- Docker awareness
- Parallelization of full gc of G1 Garbage Collector
- Thread-Local Handshakes
- Cleaner Garbage Collection Interface
- **Application class-data sharing**
- Consolidation of JDK Repositories
- **New APIs for creation of un-modifiable collections**
- Ability to allocate heap on an alternative memory device

September, 2018 JAVA SE 11

- Eplison GC
- Dynamic Class-File Constants
- Java EE and CORBA modules will be removed
- Local-variable syntax (var) allowed for declaring formal lambda parameters