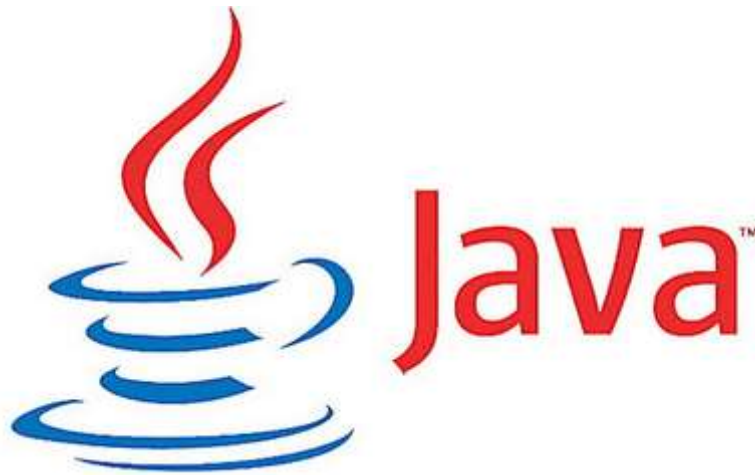


Java Tutorial

Welcome to Net-informations **Java Tutorial** . This tutorial is directed mainly towards beginning Java programmers, although it might also be useful for experienced Java programmers who want to learn something more about **Java Language** .



Java is an **object-oriented language** derived from C++ with strong support for networking, multithreading, and component-oriented development. The first version of JDK (**Java Development Kit**) 1.0, released in 1995, established the first major public Java standard, with a C++ like syntax and a hierarchy of classes including support for networking, streams, event handling, exception handling, multithreading, and GUI development with the Abstract Windowing Toolkit (AWT). Soon afterwards the Java Database Connectivity(JDBC) classes were introduced as a means of communicating with databases. Unlike other programming languages like **C** or **C++** , though, Java programs are not compiled into machine code; instead, they are converted into an architecture-neutral bytecode format. This collection of bytes represents the code for an abstract **Java virtual machine** (JVM). In order for these bytes to execute on a physical machine, a Java interpreter running on that physical machine must translate those bytes into local actions, such as printing a string or drawing a button.



I hope this Java tutorial helps you overcome some of the problems you are likely to hit when you first start developing in Java. If you have any suggestions or advice for how this page could be improved, feel free to contact me.

Java Tutorial for Beginners

[What is Java](#)

Why Choose Java

Java is Platform neutral

What is Java virtual machine?

First java Program

Java Fundamentals

Java Path and Java ClassPath

Java Basic Datatypes

Type Casting in Java

Java Autoboxing and Unboxing

Access modifiers in java

What are Java enums and why are they useful?

Java Control Structures

Java if-else statement

Java for loop

How to while loop and do..while loop in Java

How to Java Switch Statement

Java break and continue statement

Exceptions in Java

Java Programming for Beginners

Java Collections

Java ArrayList Operations

HashMap in Java

Hashtable in Java

TreeMap in Java

Java LinkedList Operations

[Vector in Java](#)[Java HashSet Class](#)[TreeSet in Java](#)

Java String Class

[How to Get the Length of a String](#)[Java String charAt\(\) Method](#)[String indexOf\(\) method](#)[Java String replace\(\)](#)[Java String contains\(\)](#)[String Comparison in Java](#)[Java String substring\(\)](#)[Java String concat\(\) Method](#)[Java String split\(\) method](#)[Convert String to int](#)[Java StringBuilder Class](#)[StringTokenizer in Java](#)

Java File Class

[How to create a file in Java](#)[InputStreamReader Class](#)[OutPutStreamWriter Class](#)[BufferedReader Class](#)[BufferedWriter Class](#)[FileReader Class](#)[FileWriter Class](#)[RandomAccessFile in Java](#)[Reading/Writing Objects](#)

Java Scanner class

List all files in a folder

Java Network Programming

How to find your IP address and computer/host name

How to open and read from a URL in Java

Java Socket Programming

Multithreaded Socket Programming in Java?

Java Errors and Exceptions

Reached end of file while parsing

Unreachable statement error in Java

Int Cannot Be Dereferenced Error - Java

How to fix java.lang.classcastexception

How to fix java.util.NoSuchElementException

Java Interview Questions

Java Interview Questions-Core Faq - 1

Java Interview Questions-Core Faq - 2

Java Interview Questions-Core Faq - 3

Important features of Java

Difference between Java and JavaScript?

What is the difference between JDK and JRE?

What gives Java its 'write once and run anywhere' nature?

What is JVM and is it platform independent?

What is Just-In-Time (JIT) compiler?

What is the garbage collector in Java?

What is NullPointerException in Java

Difference between Stack and Heap memory in Java

How to set the maximum memory usage for JVM?

What is numeric promotion?

Why do we need Generic Types in Java?

What does it mean to be static in Java?

What are final variables in Java?

How Do Annotations Work in Java?

How do I use the ternary operator in Java?

What is instanceof keyword in Java?

How ClassLoader Works in Java?

What are fail-safe and fail-fast Iterators in Java

What are method references?

"Cannot Find Symbol" compile error

Difference between `system.gc()` and `runtime.gc()`

How to convert TimeStamp to Date in Java?

Does garbage collection guarantee that a program will not run out of memory?

How setting an Object to null help Garbage Collection?

How do objects become eligible for garbage collection?

How to calculate date difference in Java

Difference between Path and Classpath

Is Java "pass-by-reference" or "pass-by-value"?

Difference between static and nonstatic methods java

Why Java does not support pointers?

What is package in Java?

What are wrapper classes?

What is singleton class in Java?

Difference between Java Local Variable, Instance Variable and a Class Variable?

Can a top level class be private or protected in java

Are Polymorphism , Overloading and Overriding similar concepts?

How to Use Locks in Java

Why Multiple Inheritance is Not Supported in Java

Why Java is not a pure Object Oriented language?

Why can't a Java class be declared as static?

Difference between Abstract class and Interface in Java

Why do I need to override the equals and hashCode methods in Java?

Why does Java not support operator overloading?

What's meant by anonymous class in Java?

Static Vs Dynamic class loading in Java

Why am I getting a NoClassDefFoundError in Java?

How to generate random integers within a specific range in Java

What's the meaning of System.out.println in Java?

What is the purpose of Runtime and System class?

What is finally block in Java?

What is difference between final, finally and finalize?

What is try-with-resources in java?

What is a stacktrace?

What is the meaning of immutable in terms of String?

What are different ways to create a string object in Java?

Difference between String and StringBuffer/StringBuilder in Java

What is the difference between creating String as new() and literal?

How do I convert String to Date object in Java?

How do I create a Java string from the contents of a file?

What actually causes a StackOverflow error in Java?

Why is char[] preferred over String for storage of password in Java

What is I/O Filter and how do I use it in Java?

Serialization and Deserialization in Java

Understanding transient variables in Java

What is Externalizable in Java?

What is the purpose of serialization/deserialization in Java?

What is the Difference between byte stream and Character streams

How to append text to an existing file in Java

Read/convert an InputStream to a String in Java

What is the difference between Reader and InputStream in Java

Introduction to Java threads

What is synchronization Java?

Static synchronization Vs non static synchronization in Java

Java Thread Deadlock Tutorial

What is Daemon thread in Java

Difference between implements Runnable and extends Thread in Java

What is the volatile keyword in Java

What are the basic interfaces of Java Collections Framework

What are the differences between ArrayList and Vector in Java

What is the difference between ArrayList and LinkedList?

What is the difference between List and Set in Java

Difference between HashSet and HashMap in Java

Difference between HashMap and Hashtable in Java?

How does the hashCode() method of java works?

Difference between capacity() and size() of Vector in Java

What is a Java ClassNotFoundException?

How to fix java.lang.UnsupportedClassVersionError