

Java Is A Programming Environment

- Java is not just a programming language, it is a programming environment.
- C/C++ are programming languages, not programming environments.
- There are really two parts to learning Java: (Dr. Nels Vander Zanden)
 - The Language
 - similar to C++ but with many improved features
 - The Class Libraries that are part of the Java Development Toolkit(JDK)
 - A very extensive set of classes that allow a programmer to reuse code and quickly develop new applications

Notes:

- The Java Development Toolkit can be downloaded from the Sunwebsite. A different toolkit is needed for each platform because the Java Virtual Machine is platform-specific. (Dr. Nels Vander Zanden)
 - In addition to classes it contains a number of tools such as:1. (Dr. Nels Vander Zanden)
 - Java Compiler (converts Java to bytecodes)
 - Java Virtual Machine (interprets compiled code)
 - Applet Viewer
 - Java (with a capital J) is not just a programming language, it is a programming environment.
 - A programming language consists of a set of constants, data types and programming syntax defined by the language. Examples of programming languages are C, C++, COBOL, FORTRAN, Pascal, etc.
 - A platform consists of a programming language and a set of tools and utilities which will enable a user of the environment to develop applications easily / efficiently. Examples of Programming Environments are Smalltalk, Java, TCL/TK.
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