



CS260 Intro to Java & Android

01.JDK Intro

Fall 2011

Java Tutorials

- The main source of Java documentation will be the Java Tutorials
 - <http://download.oracle.com/javase/tutorial/>
- Read Trails Covering the Basics
 - Getting Started
 - Learning the Java Language
 - Essential Java Classes
 - Collections

Hello World Using Geany

The screenshot shows the Geany IDE interface. The title bar reads "HelloWorld.java - C:\Users\ryandj\Documents\CS260 - Geany". The menu bar includes File, Edit, Search, View, Document, Project, Build, Tools, and Help. The toolbar contains icons for New, Open, Save, Save All, Revert, Close, Back, Forward, Compile, Build, and Execute. A symbols sidebar on the left shows "Classes" and "HelloWorld [1]" with "main [3]" under it. The main editor window displays the following Java code:

```
1 class HelloWorld
2 {
3     public static void main(String[] args)
4     {
5         System.out.println("Hello World");
6     }
7 }
```

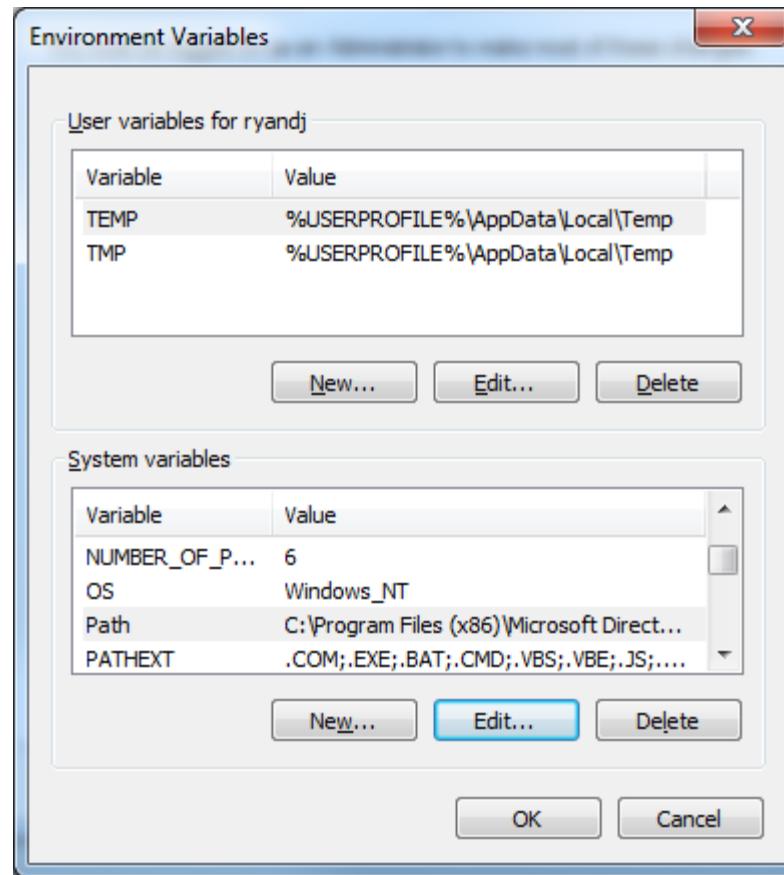
Java Development Environment

- JRE (Java Runtime Environment)
- JDK (Java Development Kit)
- Text Editor (e.g. NotePad or Geany)
- JRE & JDK can be found at
<http://www.oracle.com/technetwork/java/javase/downloads/index.html>

Java Development Environment

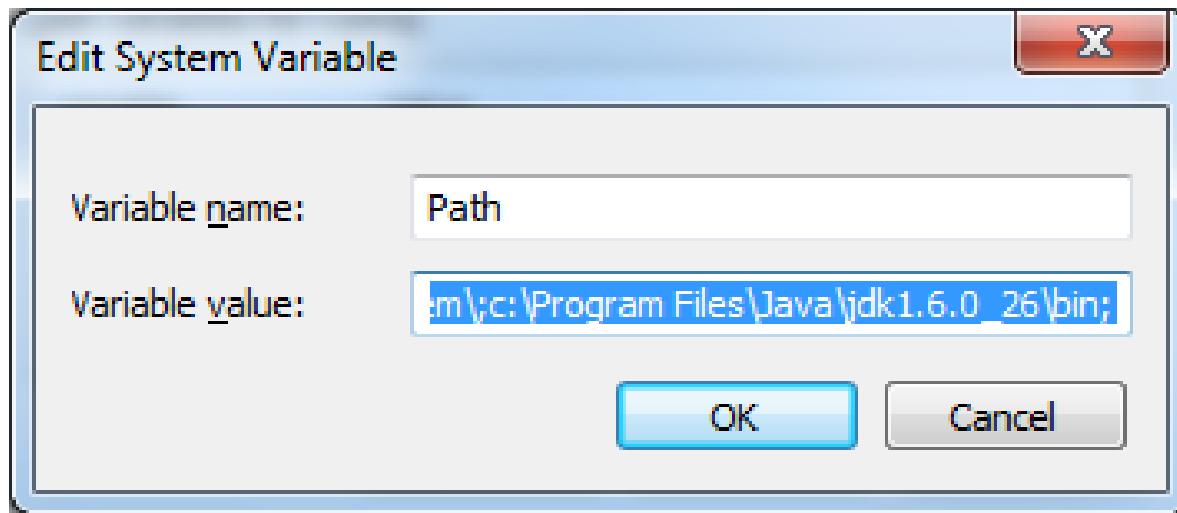
- After installing the JRE & JDK, add the path of the compiler (javac) & interpreter (java) to your PATH
- Control Panel->System & Security->Change Settings->Advanced->Environment Variables

Environment Variables

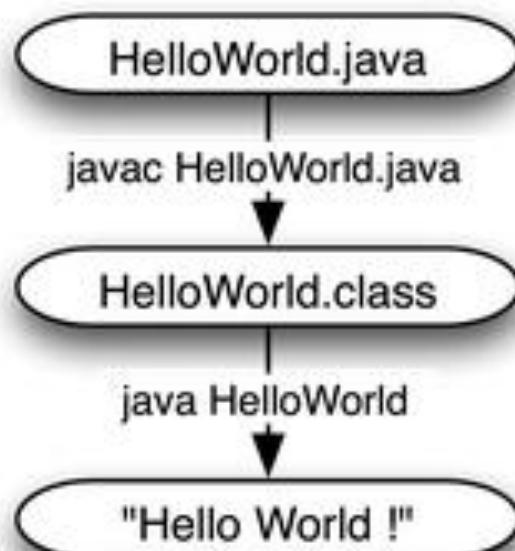


PATH Variable

- 64-bit version is Program Files
- 32-bit version is Program Files (x86)



Compile & Execute HelloWorld



HelloWorld

- Problem #1:
 - Using Geany type in the HelloWorld program
 - Select Compile
 - Select Execute
- Problem #2:
 - Change Hello World to Hello Yourname
 - Open a command window
 - Change directory to HelloWorld.java
 - Type javac HelloWorld.java
 - Type java HelloWorld

Rational

- Let's take a look at the Java coding standards
- Problem #3
 - Grab the two files Rational.java and RationalDriver.java from the CS260-01 Public folder on Turing
 - Compile Rational.java
 - Compile and execute RationalDriver.java
 - Let's go over the Java code
 - Discuss Javadoc tags
 - You can create Java Documentation for both classes using the Javadoc tool