

Java Programming Tutorial

Getting Started with Java

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1. First Java Program using JDK and a IDE

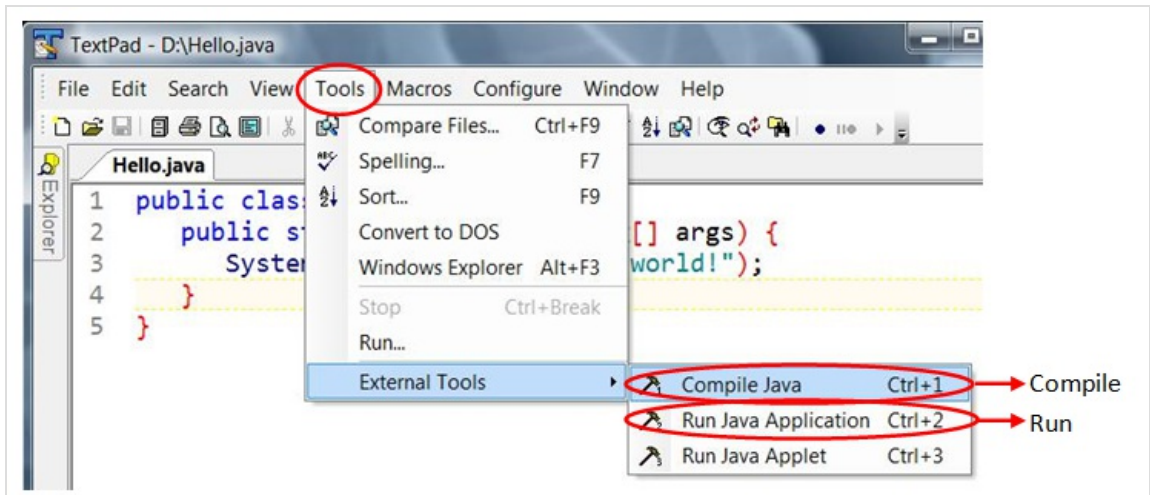
For Windows users, read "[How To Install JDK \(on Windows\)](#)".

For Mac Users, read "[How to Install JDK and Get Started with Java Programming on Mac](#)".

Everything that can possibly go wrong will go wrong... Check "[JDK Installation Common Errors](#)".

1.1 Using TextPad for Java Programming (on Windows)

TextPad (www.textpad.com) is an excellent programming text editor for writing toy Java programs. It can be configured to couple with the JDK, hence, bypassing the command shell. From the TextPad editor, you can invoke the JDK compiler/runtime directly via "Tools" ⇒ (Version 5 only) "External Tools" ⇒ "Compile Java" or "Run Java Application". Take note of the keyboard shortcuts.



(If you cannot find these commands in the "Tools" menu, goto "Configure" ⇒ Preferences... ⇒ Tools ⇒ Add ⇒ JDK Commands. You can also configure the properties of "compile" and "run" there, such as prompting for command-line arguments.)

TextPad Tips for Java Programming

1. **Error Message Hyperlink:** Double-click on the first-line of an error message will hyperlink to the corresponding source statement.
2. **Find & Replace:** Most important commands for programmers (after the copy/paste), available under the "Search" menu.
3. **Block Select Mode:** The Block Select mode allows you to operate on a block of texts, such as deleting a few columns and filling in blank columns. To enable/disable Block Select mode, select "Configure" menu ⇒ check/uncheck "Block Select Mode".
4. **Line Numbers:** To display the line numbers, choose "View" menu ⇒ check the "Line Number" option.
5. **Command-Line Arguments:** To provide command-line arguments to your Java program in TextPad, choose "Configure" menu ⇒ "Tools" ⇒ "Run Java Application" ⇒ check "Prompt for parameters" box. When running your program, place your command-line arguments after \$BaseName (which denotes the Java program name).
6. **Font:** "Configure" ⇒ "Preferences" ⇒ Expand "Document classes" node ⇒ Select your desired class, e.g., "Java", and expand the node ⇒ "Font" ⇒ Select *monospace* font for programming, e.g., Courier New, Courier, Consola, Lucida Console.

1.2 Using Notepad++ for Java Programming (on Windows)

Notepad++ (@ <http://notepad-plus-plus.org>) is a free and open-source programming editor.

You can use Notepad++ to input Java source code, and follow the above steps to compile and run the Java program under CMD shell.

Notepad++ Customization

You can customize Notepad++ to compile and run Java programs with hot-keys (just like TextPad). I wrote two batch files called "JavaCompile.bat" and "JavaRun.bat" and save them in the Notepad++ installed directory (or a directory in the PATH).

JavaCompile.bat

```
@cd %1
javac %2
@pause
```

JavaRun.bat

```
@cd %1
java %2
@pause
```

To install the batch file, select the "Run" menu ⇒ "Run...", enter "JavaCompile \$(CURRENT_DIRECTORY) \$(FILE_NAME)" ⇒ Choose "Ctrl-1" as the hot-key for compiling Java program. Similarly, select the "Run" menu ⇒ "Run...", enter "JavaRun \$(CURRENT_DIRECTORY) \$(NAME_PART)" ⇒ Choose "Ctrl-2" as the hot-key for running Java program.

(To use Ctrl-1 and Ctrl-2, you need to re-configure and remove the existing mappings for these keys via "Settings" ⇒ "Shortcut Mapper...".)

Notepad++ Tips for Java Programming

1. **Reformatting Source Code:** TextFX ⇒ TextFXEdit ⇒ Reindent C++ Code (which also work for java codes).
2. **Block Select:** You can select columns of text by holding down the alt key while selecting (similar to WinWord).

2. First Java Program with Eclipse

1. You need to first install *Eclipse*. Read "[How to Install Eclipse](#)".
2. You can then proceed to write your first Java program. Read "[Writing your first Java Program with Eclipse](#)".
3. Read "[Debugging program in Eclipse](#)".

3. First Java Program with NetBeans

1. You need to first install *NetBeans*. Read "[How to Install NetBeans](#)".
2. You can then proceed to write your first Java program. Read "[Writing your first Java program with NetBeans](#)".
3. Read "[Debugging program in Netbeans](#)".

LINK TO JAVA REFERENCES & RESOURCES

Latest version tested: JDK 1.7.0_03

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