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The "Hello World!" **Application** "Hello World!" for the NetBeans IDE "Hello World!" for **Microsoft Windows** "Hello World!" for Solaris OS, Linux, and Mac OS

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The Java Tutorials have been written for JDK 8. Examples and practices described in this page don't take advantage of improvements introduced in later releases and might use technology no longer available. See Java Language Changes for a summary of updated language features in Java SE 9 and subsequent releases. See JDK Release Notes for information about new features, enhancements, and removed or deprecated options for all JDK releases.

"Hello World!" for Microsoft Windows

It's time to write your first application! The following instructions are for users of Windows Vista, Windows 7, and Windows 8. Instructions for other platforms are in "Hello World!" for Solaris OS, Linux, and Mac OS X and "Hello World!" for the NetBeans IDE.

If you encounter problems with the instructions on this page, consult the Common Problems (and Their Solutions).

- A Checklist
- Creating Your First Application
 - Create a Source File Compile the Source File into a .class File
 - Run the Program



To write your first program, you'll need:

1. The Java SE Development Kit 8 (JDK 8)

You can download the Windows version now. (Make sure you download the **JDK**, *not* the JRE.) Consult the installation instructions.

2. A text editor

In this example, we'll use Notepad, a simple editor included with the Windows platforms. You can easily adapt these instructions if you use a different text editor.

These two items are all you'll need to write your first application.

Creating Your First Application

Your first application, HelloWorldApp, will simply display the greeting "Hello world!". To create this program, you will:

• Create a source file

A source file contains code, written in the Java programming language, that you and other programmers can understand. You can use any text editor to create and edit source files.

• Compile the source file into a .class file

The Java programming language compiler (javac) takes your source file and translates its text into instructions that the Java virtual machine can understand. The instructions contained within this file are known as bytecodes.

• Run the program

The Java application *launcher tool* (java) uses the Java virtual machine to run your application.

Create a Source File

To create a source file, you have two options:

• You can save the file HelloWorldApp.java on your computer and avoid a lot of typing. Then, you can go straight to Compile the Source File into a .class File.

• Or, you can use the following (longer) instructions.

* The HelloWorldApp class implements an application that

First, start your editor. You can launch the Notepad editor from the **Start** menu by selecting **Programs > Accessories > Notepad**. In a new document, type in the following code:

```
* simply prints "Hello World!" to standard output.
class HelloWorldApp {
   public static void main(String[] args) {
       System.out.println("Hello World!"); // Display the string.
```

Be Careful When You Type

Note: Type all code, commands, and file names exactly as shown. Both the compiler (javac) and launcher (java) are case-sensitive, so you must capitalize consistently.

Save the code in a file with the name HelloWorldApp. java. To do this in Notepad, first choose the File > Save As ... menu item. Then, in the Save As dialog box:

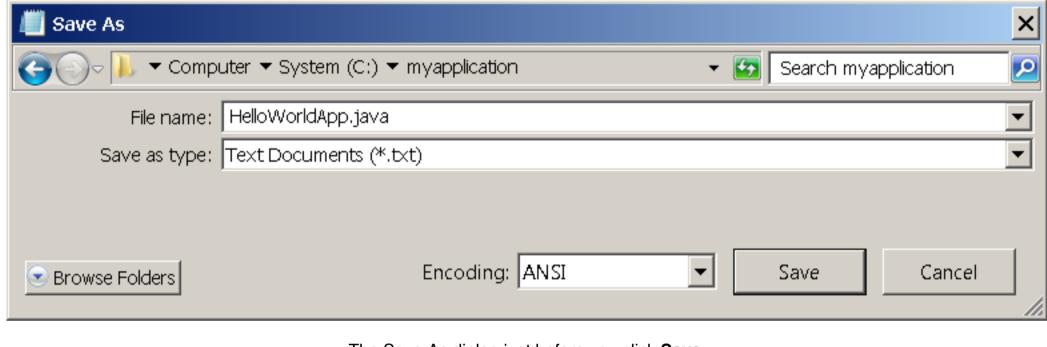
2. In the **File name** text field, type "HelloWorldApp.java", without the quotation marks.

1. Using the **Save in** combo box, specify the folder (directory) where you'll save your file. In this example, the directory is myapplication on the C drive.

- 3. From the Save as type combo box, choose Text Documents (*.txt).
- 4. In the **Encoding** combo box, leave the encoding as ANSI.

HelloWorldApp is *not* the same as helloworldapp.

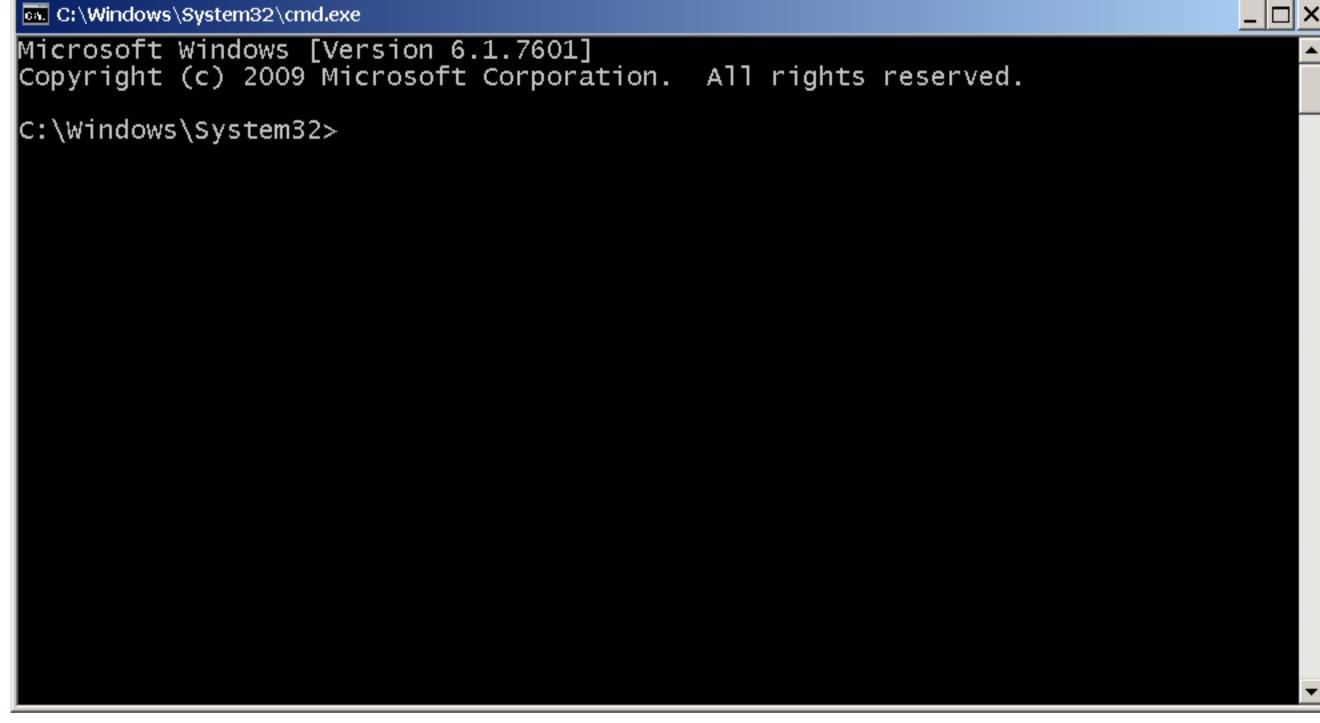
When you're finished, the dialog box should look like this.



The Save As dialog just before you click **Save**.

Now click **Save**, and exit Notepad. Compile the Source File into a .class File

Bring up a shell, or "command," window. You can do this from the **Start** menu by choosing **Run...** and then entering cmd. The shell window should look similar to the following figure.



A shell window.

The prompt shows your *current directory*. When you bring up the prompt, your current directory is usually your home directory for Windows XP (as shown in the preceding figure.

To compile your source file, change your current directory to the directory where your file is located. For example, if your source directory is myapplication on the C drive, type the following command at the prompt and press **Enter**:

cd C:\myapplication Now the prompt should change to C:\myapplication>.

Note:

To change to a directory on a different drive, you must type an extra command: the name of the drive. For example, to change to the myapplication directory on the D drive, you must enter D:, as follows:

C:\>**D:**

D:\>cd myapplication D:\myapplication>

If you enter dir at the prompt, you should see your source file, as follows:

C:\>cd myapplication

C:\myapplication>**dir** Volume in drive C is System Volume Serial Number is F2E8-C8CC Directory of C:\myapplication 2014-04-24 01:34 PM <DIR> 2014-04-24 01:34 PM <DIR> 2014-04-24 01:34 PM 267 HelloWorldApp.java 1 File(s) 267 bytes 2 Dir(s) 93,297,991,680 bytes free

Now you are ready to compile. At the prompt, type the following command and press **Enter**.

C:\myapplication>

javac HelloWorldApp.java

The compiler has generated a bytecode file, HelloWorldApp.class. At the prompt, type dir to see the new file that was generated as follows:

Volume in drive C is System

Volume Serial Number is F2E8-C8CC

C:\myapplication>javac HelloWorldApp.java C:\myapplication>dir

Directory of C:\myapplication 2014-04-24 02:07 PM <DIR> 2014-04-24 02:07 PM 2014-04-24 02:07 PM 432 HelloWorldApp.class 2014-04-24 01:34 PM 267 HelloWorldApp.java 2 File(s) 699 bytes 2 Dir(s) 93,298,032,640 bytes free C:\myapplication>

Now that you have a .class file, you can run your program. If you encounter problems with the instructions in this step, consult the Common Problems (and Their Solutions).

Run the Program In the same directory, enter the following command at the prompt:

java -cp . HelloWorldApp You should see the following on your screen:

C:\myapplication>java -cp . HelloWorldApp Hello World!

C:\myapplication>

Congratulations! Your program works! If you encounter problems with the instructions in this step, consult the Common Problems (and Their Solutions).

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