

**Carleton University**  
**Department of Systems and Computer Engineering**  
**SYSC 1101 - Object-Oriented Software Development - Winter 2006**

### Setting Up BlueJ

This document explains how to install and configure BlueJ 2.1.1 on your own computer running a version of Microsoft Windows. Students who wish to run BlueJ under Linux or MacOS X should see the instructions at <http://www.bluej.org/download/download.html> and <http://www.bluej.org/download/install.html>.

Although downloading instructions are provided in this document, all the files you require are on the SYSC 1101 Software CD, so you should not need to download any files from the Web sites listed here.

Setting up BlueJ on your PC involves these steps:

- Install the Java 2 Platform, Standard Edition 5.0 (Development Kit and Documentation).
- (Optional) Install the Java 2 Platform, Standard Edition, version 1.4.2 (Software Development Kit and Documentation).
- Install BlueJ 2.1.1.
- Configure BlueJ.

#### I. Install the JDK 5.0 Update 6

1. Download a copy of the Development Kit for the Java 2 Platform, Standard Edition 5.0 (JDK 5.0 Update 6). The URL is: <http://java.sun.com/j2se/1.5.0/download.jsp>.

Several files can be downloaded from this page. Make sure that you download the JDK, not the Java Runtime Environment (JRE). (The JDK includes a copy of the JRE, which will be installed when you install the JDK, so you don't need to download the JRE separately.) You don't need to download the bundle that includes the NetBeans IDE. The file you need is named

`jdk-1_5_0_06-windows-i586-p.exe`.

2. Double-click on the .exe file to launch the installation wizard. By default, the SDK will be installed in `c:\Program Files\Java\jdk1.5.0_06`, although the wizard allows you to specify another installation directory.

The remainder of this document assumes that the JDK is installed in `c:\Program Files\Java\jdk1.5.0_06`.

#### II. Install the J2SE 5.0 Documentation

1. The J2SE 5.0 documentation includes API documentation for the classes shipped with the JDK and descriptions of the JDK tools. The documentation is available from the same Web page that you used to download the JDK: <http://java.sun.com/j2se/1.5.0/download.jsp>, and will be downloaded as a compressed file named `jdk-1_5_0-doc.zip`.
2. Extract the files. During this process you will be prompted to select the folder where you want the extracted files to be stored. Navigate through the directory structure until the folder where the JDK is installed appears in the dialogue box; e.g., `c:\Program Files\Java\jdk1.5.0_06`. Select that folder, and follow the remaining steps to extract the files.
3. A folder called docs will be created in the JDK directory you selected; i.e., if the JDK installation directory is `c:\Program Files\Java\jdk1.5.0_06`, the extracted documentation will be placed in `c:\Program Files\Java\jdk1.5.0_06\docs`.

If you wish to install Java 2 Platform, Standard Edition, version 1.4.2, proceed with Step III; if not, go to Step V.

### III. (Optional) Install the J2SE v 1.4.2\_10 SDK

1. Download a copy of the Software Development Kit for the Java 2 Platform, Standard Edition, version 1.4.2 (J2SE v 1.4.2\_10 SDK). The URL is: <http://java.sun.com/j2se/1.4.2/download.html>.

Several files can be downloaded from this page. Make sure that you download the SDK, not the Java Runtime Environment (JRE). (The SDK includes a copy of the JRE, which will be installed when you install the SDK, so you don't need to download the JRE separately.) You don't need to download the bundle that includes the NetBeans IDE. The file you need is named

`j2sdk-1_4_2_10-windows-i586-p.exe`.

2. Double-click on the .exe file to launch the installation wizard. By default, the SDK will be installed in `c:\j2sdk1.4.2_10`, although the wizard allows you to specify another installation directory.

Part IV of this document assumes that the SDK is installed in `c:\j2sdk1.4.2_10`.

### IV. (Optional) Install the J2SE v 1.4.2 Documentation

1. The J2SE v 1.4.2 documentation includes API documentation for the classes shipped with the SDK and descriptions of the SDK tools. The documentation is available from the same Web page that you used to download the SDK: <http://java.sun.com/j2se/1.4.2/download.html>, and will be downloaded as a compressed file named `j2sdk-1_4_2-doc.zip`.
2. Extract the files. During this process you will be prompted to select the folder where you want the extracted files to be stored. Navigate through the directory structure until the folder where the SDK is installed appears in the dialogue box; e.g., `c:\j2sdk1.4.2_10`.
3. A folder called docs will be created in the JDK directory you selected; i.e., if the SDK installation directory is `c:\j2sdk1.4.2_10`, the extracted documentation will be placed in `c:\j2sdk1.4.2_10\docs`.

### V. Install BlueJ

1. Download BlueJ from the BlueJ Web site: <http://www.bluej.org> (click the "Download" link on the left side of the page). When this document was prepared, the most recent release was version 2.1.1. BlueJ will be downloaded as a file called `bluejsetup-211.exe`.
2. Double-click `bluejsetup-211.exe` to install BlueJ, and follow the instructions presented by the installation wizard.
3. The first time you run BlueJ, you may be prompted to select your preferred version of Java. Select JDK 5.0 Update 6 (also known as Java 1.5.0\_06).

### VI. Download Documentation

PDF files containing documentation for BlueJ can be obtained by opening <http://www.bluej.org/doc/documentation.html>. The three files you should download are *The BlueJ Tutorial*, *The BlueJ Reference Manual*, and *Unit Testing in BlueJ*.

### VII. Configure BlueJ

#### 1. Changing the JDK Documentation URL

When you select `Help > Java Class Libraries` from the menu bar, BlueJ causes your Web browser to load the Java API specification from `http://java.sun.com`. You can configure BlueJ to use the local copy of the documentation you installed in Step II.

1. From the menu bar, pick `Tools > Preferences...`
2. When the `BlueJ: Preferences` dialogue box appears, click the `Miscellaneous` tab.
3. The JDK documentation URL field will contain a URL similar to:  
`http://java.sun.com/j2se/1.5/docs/api/index.html`. Assuming that you installed the documentation in `c:\Program Files\Java\jdk1.5.0_06\docs`, change the documentation URL to `c:\Program Files\Java\jdk1.5.0_06\docs\api\index.html`.
4. Click `OK` to close the `BlueJ: Preferences` dialogue box.

## 2. Other Preferences

Some aspects of BlueJ can be configured by picking `Tools > Preferences...` from the menu bar, then clicking the appropriate tab in the `BlueJ: Preferences` dialogue box. Additional aspects of BlueJ can be configured by using a text editor to edit `bluej.defs` or `bluej.properties`. See the *BlueJ Reference Manual* for information about the location and content of these files.

## 3. Configuring the Version of Java Used by BlueJ

From time to time, you may find that the BlueJ on our lab computers has been reconfigured to use a version of Java other than J2SE 5.0. (To check this, from the BlueJ menu bar pick `Help > About BlueJ`.) It's easy to change this. A program called "Select VM" is installed in the same directory as BlueJ. Under Windows XP, you can run this program by selecting `Start > All Programs > BlueJ > Select VM`.

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