

## Creating Java Programs with Greenfoot Software Download and Installation Instructions

This document provides step-by-step instructions to set up the required software for the Creating Java Programs with Greenfoot workshop. Download and installation instructions for each component are listed separately to support individual installation needs.

The software includes:

- Java Development Kit (JDK)\*
- Greenfoot

\*You must install the latest version of the JDK prior to using Greenfoot.

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## Download and Install the Java Development Kit (JDK)

Steps to download the JDK:

1. Open any Internet Browser and type the following URL in the address bar:  
<http://www.oracle.com/technetwork/java/javase/downloads/index.html>
2. From the Oracle Technology Network website, click Java Platform (JDK).
3. From the Java SE Development Kit 7 Downloads page, review the License Agreement.
4. Accept or decline the License Agreement (if you decline, the software will not download).
5. Select the Java SE Development Kit for your computer operating system.
6. Save the file to a location you can easily remember. Click OK.

Steps to install the JDK:

1. Locate the executable file on your computer and double click it to execute.
2. Click Run when prompted to run the executable file. This will launch the JDK Installation Wizard.



3. From the Installation Wizard dialog box, click Next>.



4. To accept the default settings, Click Next>.
5. When prompted for installation location, click Next>.
6. If prompted, close the Internet browser window.
7. Click Continue to acknowledge the successful installation.
8. You will be prompted to set-up the Software Developer Kit (SDK). Click Next.
9. When prompted for the installation location, click Next>.
10. When the set-up is complete, click Close.

## Download and Install Greenfoot

Steps to download Greenfoot:

1. Open any Internet Browser and type the following URL in the address bar:  
<http://www.greenfoot.org/download>.
2. Select your computer operating system. The Greenfoot installer package will automatically download.

Steps to install Greenfoot:

1. From the Installer Package prompt, click Run to launch the Greenfoot Setup Wizard.



2. From the Setup Wizard, click Next.



3. The Setup Wizard will identify the JDK version installed on your computer.
  1. If the Setup Wizard reports that a suitable JDK version is installed, click Next.
  2. If prompted to select a JDK version, select the most recent version, then click Next.
  3. If the JDK version you installed previously is not acceptable, you will need to install another version. Go back to the slides entitled "Download & Install the JDK". Once you download and install a recent version of JDK, follow the steps to download Greenfoot again.
4. Select the Installation Scope, then click Next.
5. Select Associations and Shortcuts, then click Next (Be sure to select Add File Associations (\*.greenfoot, \*.gfar)).
6. Specify the destination folder where Greenfoot will be installed, then click Next.
7. The Setup Wizard will install Greenfoot. When the completed message displays, click Finish.
8. To launch Greenfoot, use one of the following two methods:
  1. Double-click the Greenfoot icon on your desktop with your mouse.
  2. Select Greenfoot from your list of computer programs.

## Greenfoot Support

Join the forum to get help from other users:

- <http://www.greenfoot.org/topics>

Contact the technical team with technical installation issues at: [support@greenfoot.org](mailto:support@greenfoot.org). Include the following:

- Operating system
- Version of Greenfoot
- Specific information about the problem (error message and steps you took to recreate the problem)
- Debug log file "greenfoot-debuglog.txt"

## Issues with Greenfoot and JDK 7u21

There is an issue with the just-released Java update, JDK 7u21 (and 6u45). There is a change to the default value of a system property in this JDK update which prevents Greenfoot from starting, and causes it to produce the following error message:

Greenfoot failed to launch. For help go to <http://greenfoot.org/support/index.html>

This problem will be addressed for the next Greenfoot release. In the meantime, here is the workaround:

### For Windows:

- Edit the 'bluej.defs' file that can be found in the "lib" folder, just inside the Greenfoot folder (wherever Greenfoot was installed).
- Edit this file using Notepad. See the text to edit below.

Find the line which reads:

```
#bluej.windows.vm.args=
```

And change it to:

```
bluej.windows.vm.args=-Djava.rmi.server.useCodebaseOnly=false
```

Make sure to remove the '#' at the beginning. Then, save the file. Note the following:

- You will most likely not be able to save it to the original location as writing files within "Program Files" requires administrator privileges - instead, you should save the file somewhere else (such as into your "Documents" folder), and then copy the new version over the original using Windows explorer.
- Be wary that after saving the file to a new location, Notepad may append ".txt" to the file name (so that it becomes "bluej.defs.txt". The ".txt" extension might not be visible in Windows Explorer, however, you will need to remove the ".txt" before copying it back to

the original location. This page (<http://windows.microsoft.com/en-gb/windows-vista/show-or-hide-file-name-extensions>) explains how to make filename extensions visible (in Windows 7 - use a web search if necessary to find instructions for other Windows versions), at which point you can then rename the file and remove the ".txt" suffix.

An alternative option is to run Greenfoot using a slightly older JDK (eg JDK 7u17). You can run the "select VM" utility included with Greenfoot to choose which of the installed JDKs to run Greenfoot with. The "select VM" utility can be accessed via the Start menu.

### **For Mac OS:**

- From the Finder, Control-click the Greenfoot application, and select "show package contents".
- Navigate into the "Contents" subfolder, control-click the "Info.plist" file and choose "open with" - "other"
- Select the TextEdit application from the Applications folder.
- Find the following part near the bottom:

```
<key>Properties</key>
<dict/>
```

Remove the '<dict/>' line and replace it with the following:

```
<dict>
    <key>java.rmi.server.useCodebaseOnly</key>
    <string>>false</string> </dict>
```

Be careful! If you type this incorrectly, you may prevent Greenfoot from starting at all.