An Introduction to Computer Science with Java

Community College
of Philadelphia
Computer Science

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Appendix A – Installing NetBeans with Java

This Appendix contains step-by-step instructions for installing the software to be used in CSCI 111, 112, and 211 at Community College of Philadelphia – *Java SE Development Kit 7 update 45* with *NetBeans 7.4*. *(Java SE Development Kit 7 update 25* with *NetBeans 7.3.1* is in our classrooms. They are compatible.)* The software is available free of charge via the Internet for *Microsoft Windows*, *Apple Mac OS X*, and *Linux* systems.

There are several different ways to acquire and install the two software packages independently. These instructions show how to download and install both together. If installed individually, *JDK 7* should be installed before *NetBeans 7.* If you wish to uninstall the software after installation, or to uninstall older versions, *NetBeans* should be removed before *JDK*, because some systems will not let you make any changes to *NetBeans* unless *Java* is present on the system.

Installation Notes

1. These installation instructions are for computers with client operating systems, not server-based software. The images and specific text in the document are based on a *Windows 7* system using the *IE 9* browser.

2. Only the owner or authorized system administrator, or someone with their permission, should install software on a computer system.

3. Certain Linux systems may require the *root* user to install the software.

4. Normally, antivirus software does not need to be deactivated to install this software.

5. Systems warnings may occur during installation, For example, Windows may ask you for permission to let *Netbeans* modify software on the system. The software is generally safe, and you should respond with "*yes*" to these system inquiries.

Minimum Systems Requirements for *NetBeans 7* with *JDK 7*

	processor	memory*	disk space**
Windows	Pentium 2 266 MHz	512 MB	1.5 GB
Linux	Pentium III 800 Mhz	512 MB	1.5 GB
OS X	dual-core Intel	1 GB	1.5 GB

*   RAM to operate. For smooth operation, 2GB is recommended for 32-bit systems and 4 GB for 64-bit systems.

**   for installation and smooth operation

These system requirements are based on information from:
   http://docs.oracle.com/javase/7/docs/webnotes/install/index.html
   and
   https://netbeans.org/community/releases/73/relnotes.html#system_requirements

Downloading and installing the Software

STEP 1.

You will need a high-speed Internet connection to download the software. If you do not have such a connection, you could download the installation software on a different machine and copy it to your computer.
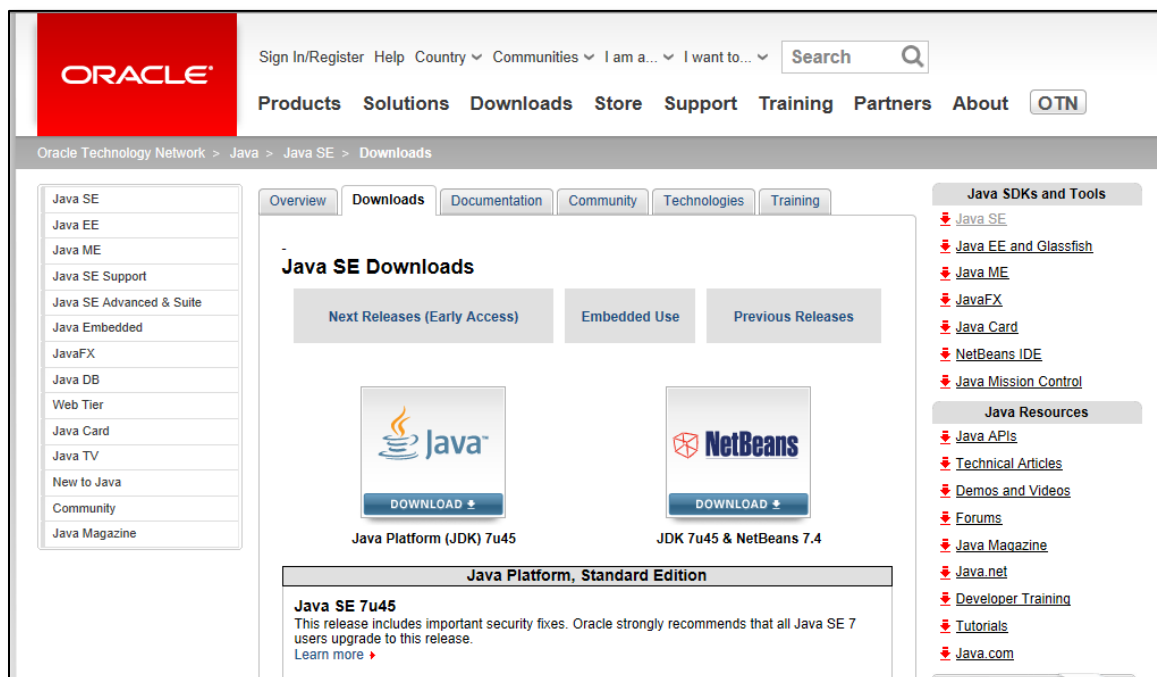
STEP 2.

Goto *(Sorry, Prof. Djikstra)* the Website:
http://www.oracle.com/technetwork/java/javase/downloads/index.html

You can also find this site by searching for "*jdk download*" on *google.com*, and choosing:

The page should look something like this:

STEP 3.

Click the icon on the right, for downloading *JDK 7 + NetBeans:*

The page should now look the image on the next page:
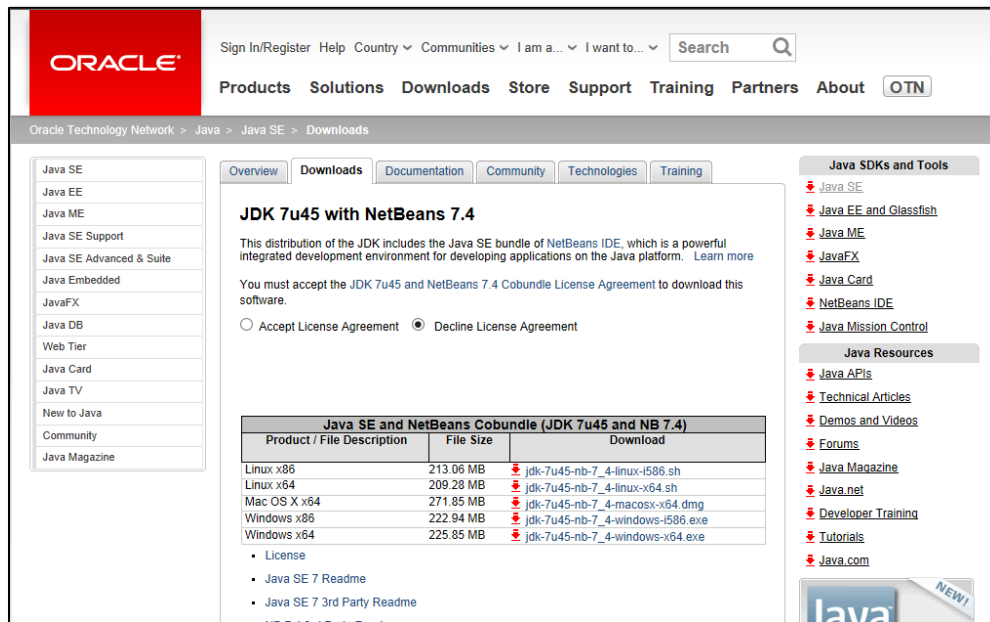
STEP 4.

You should read and accept the license agreement and then select the version of the software you wish to download from the table on the page:

The version is based on the operating system on your computer. The table shows the file size and name of the file to be downloaded.

STEP 5.

Save the file using the *Save As* option and put the file on the desktop or in another easy-to-find location Do not change name of the file. For *64-bit Windows*, the file is named:
*jdk-7u25-nb-7_3_1-windows-x64.exe*

STEP 6.

When the file is finished downloading, find and run the file. It is generally okay to answer *"yes"* if the operating system asks you if you want to let the program modify the system.

When you run the file, the system will configure the installer and you may see a message like this:
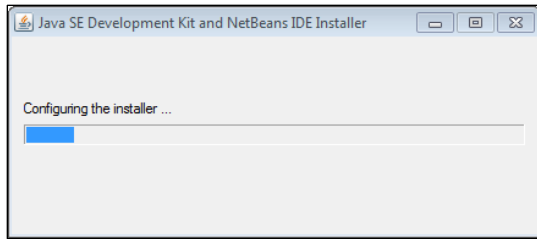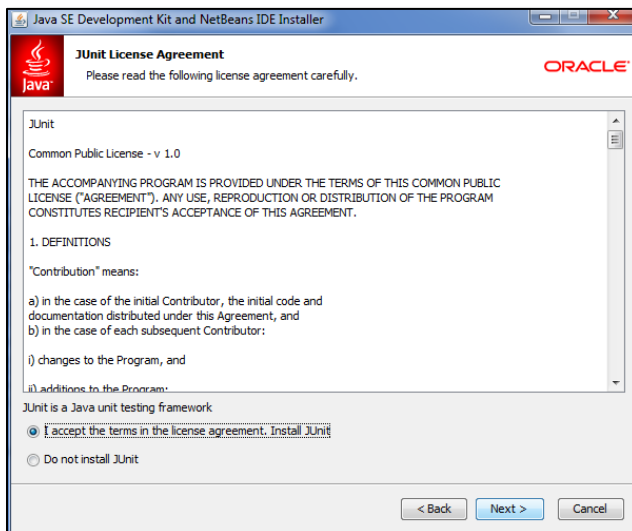
When the installer is configured, a welcome message from the installer will appear on the screen:
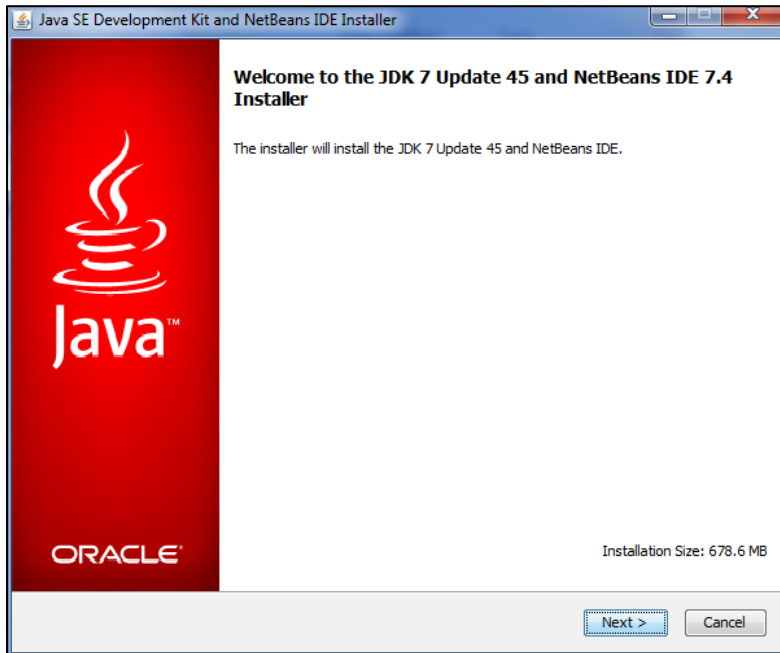
Click the **Next** button to continue.
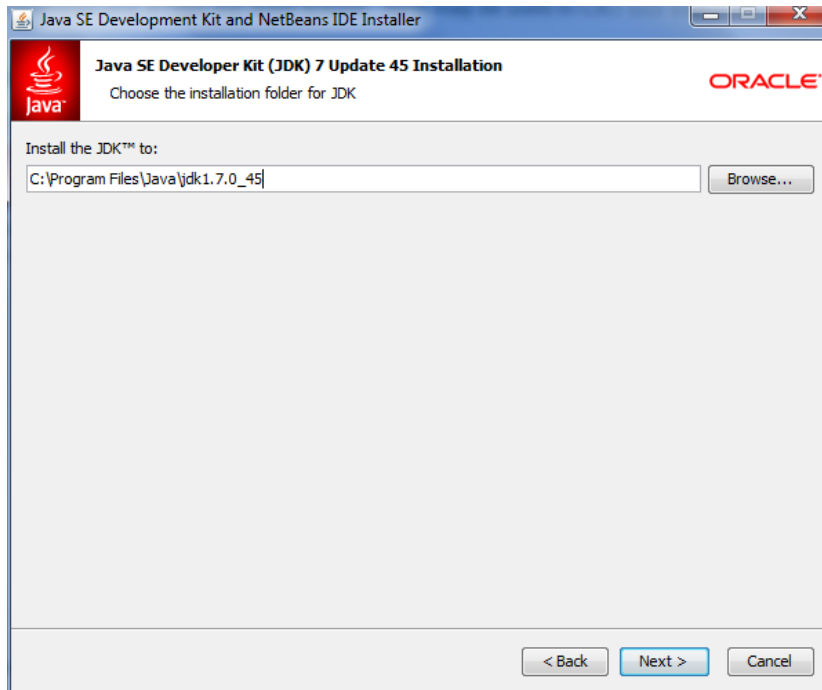
You may see a license window for *JUnit*:

JUnit is a module for unit testing Java software under development.

You should read and accept the *JUnit* license. Junit may be used in CSCI 111-112-211.
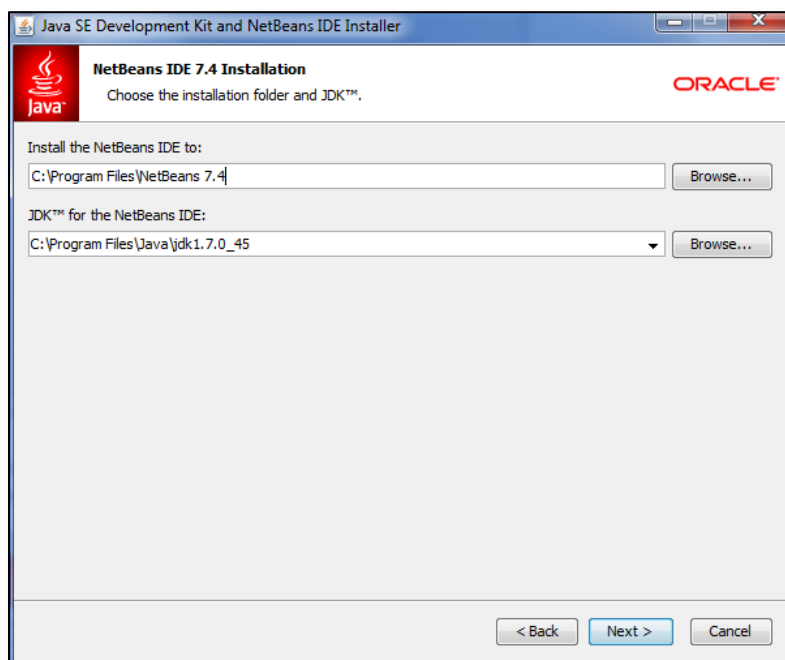
STEP 8.

A window will appear asking you to choose the installation folder for the *JDK*:

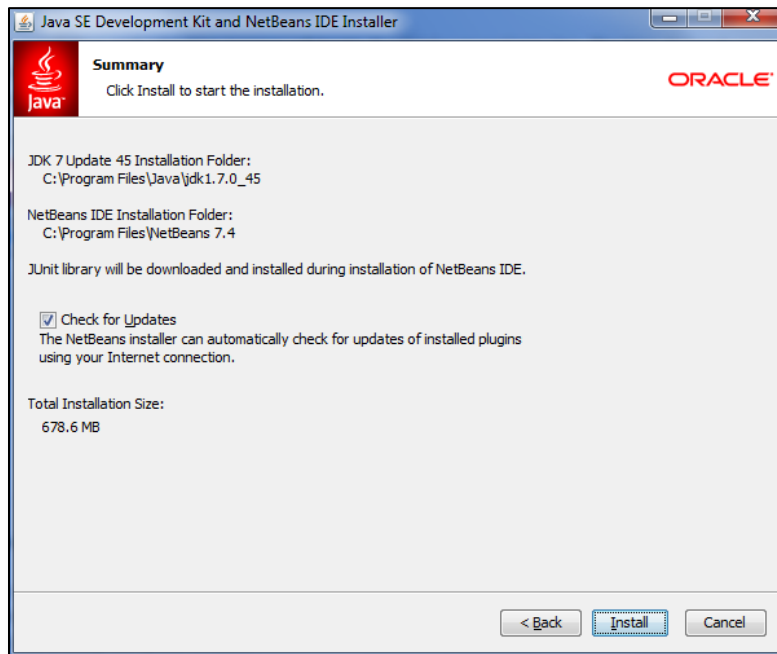Do not change the location.   Click the **Next** button to continue.

STEP 9.

A similar window will appear asking you to choose the installation folder for *NetBeans* and where it can find the *JDK* to be used with *NetBeans*:

Do not change the folder locations.   Click the **Next** button to continue.
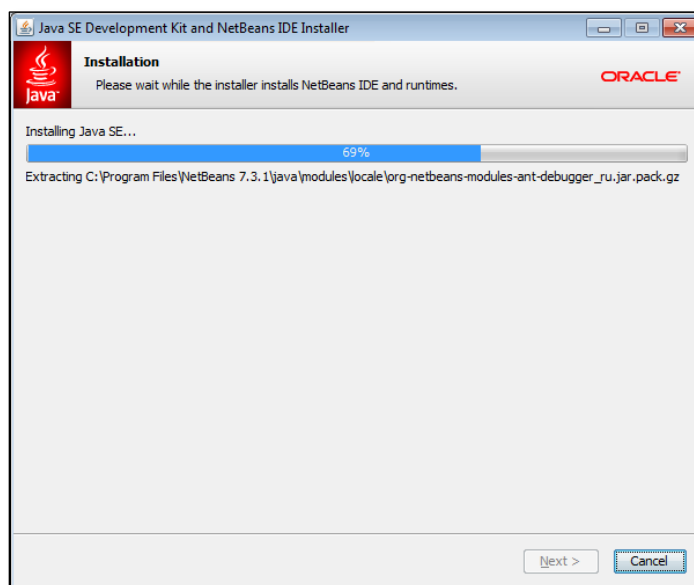
STEP 10.

A window will appear summarizing what the installer will do:

Decide if you want the system to automatically check for updates, then Click the **Install** button to continue. Generally, it is not necessary to automatically check for updates. The software is stable.

STEP 11.

The installation and validation process will begin. It will take several minutes. The time depends on your system. During this time, an installation window will appear showing the progress for installing first *JDK*, then *NetBeans:*

Do not interfere with the installation process. The text on the window will change as the computer completes different parts of the process. When the installation process is successfully completed you will see a *Setup Complete* window:
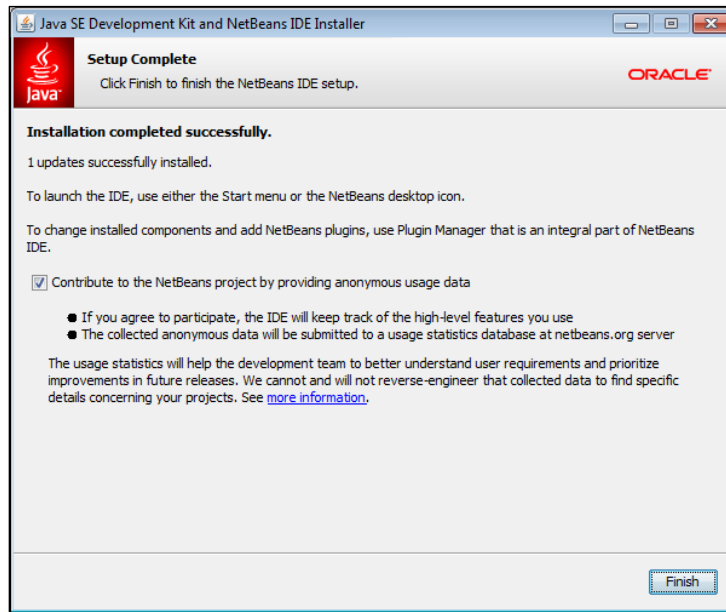
STEP 12.

That's it. Decide whether you want to contribute by letting NetBeans track which features you use, then Click the **Finish** button and *NetBeans* with *Java* is ready to use.

To launch the IDE, use either the Start menu or the NetBeans desktop icon:
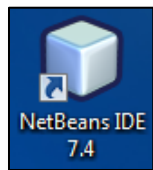
Chapter 1 in the CSCI 111 textbook contains the programming exercise for Week 1, which includes an exercise showing you how to use NetBeans. You can use this exercise to test the installation.

JDK samples and demos for various systems can be found online (below the Java SE Development Kit 7download on the same page) at:
   http://www.oracle.com/technetwork/java/javase/downloads/jdk7-downloads-1880260.html
You should be familiar with the use of NetBeans before you attempt to use them.
Remember, if you need to uninstall the software, uninstall NetBeans before uninstalling Java, since most systems will not let you make any changes to NetBeans unless Java is on the system.