
Classroom Requirements: for Courses using Eclipse

Operating System Requirements

The course can successfully be delivered on other platforms but it has been targeted for Windows or Mac platforms and has been tested on Windows 7 and Mac OS X Yosemite.

Windows:		Mac:
10	32 and 64-bit	OS X Yosemite 64-bit
7	32 and 64-bit	
Vista	32 and 64-bit	
XP	32 and 64-bit	

Software Requirements

- Java Development Kit (JDK)
<http://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html>

- “Mars” Eclipse 4.4 IDE for JEE Developers

For PC:

http://www.eclipse.org/downloads/download.php?file=/technology/epp/downloads/release/mars/1/eclipse-jee-mars-1-win32-x86_64.zip

For Mac:

http://www.eclipse.org/downloads/download.php?file=/technology/epp/downloads/release/mars/1/eclipse-jee-mars-1-macosx-cocoa-x86_64.tar.gz

- Nexus OSS

For PC:

<http://www.sonatype.org/nexus/thank-you-for-downloading/?dl=zip>

For MAC:

<http://www.sonatype.org/nexus/thank-you-for-downloading/?dl=tgz>

- Apache Maven 3.3.9

For PC:

<http://mirror.cc.columbia.edu/pub/software/apache/maven/maven-3/3.3.9/binaries/apache-maven-3.3.9-bin.zip>

For Mac:

<http://mirror.cc.columbia.edu/pub/software/apache/maven/maven-3/3.3.9/binaries/apache-maven-3.3.9-bin.tar.gz>

- Microsoft Internet Explorer 9 or higher for Windows or Safari 9 or higher for Mac
- Provided Lab Files

Network Requirements

- Internet access
- Users set up with administrative rights on classroom machines

Setup Guide for Apache Maven

For detailed instructions and help, you may also refer to the following online documentation:
<http://wiki.eclipse.org/Eclipse/Installation>

Note: Instructions are provided below for Windows and MAC. Follow the appropriate instructions for your platform.

Java Development Kit for Windows

1. Download Oracle/Sun Java Development Kit (JDK) **not** the Java Runtime Environment (JRE).

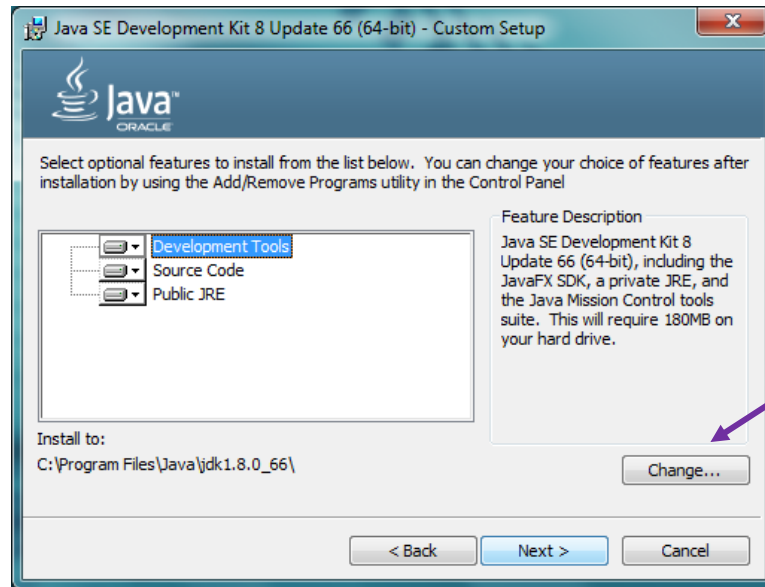
<http://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html>

Accept the Oracle License Agreement. Download the appropriate **Java SE 8 JDK**.

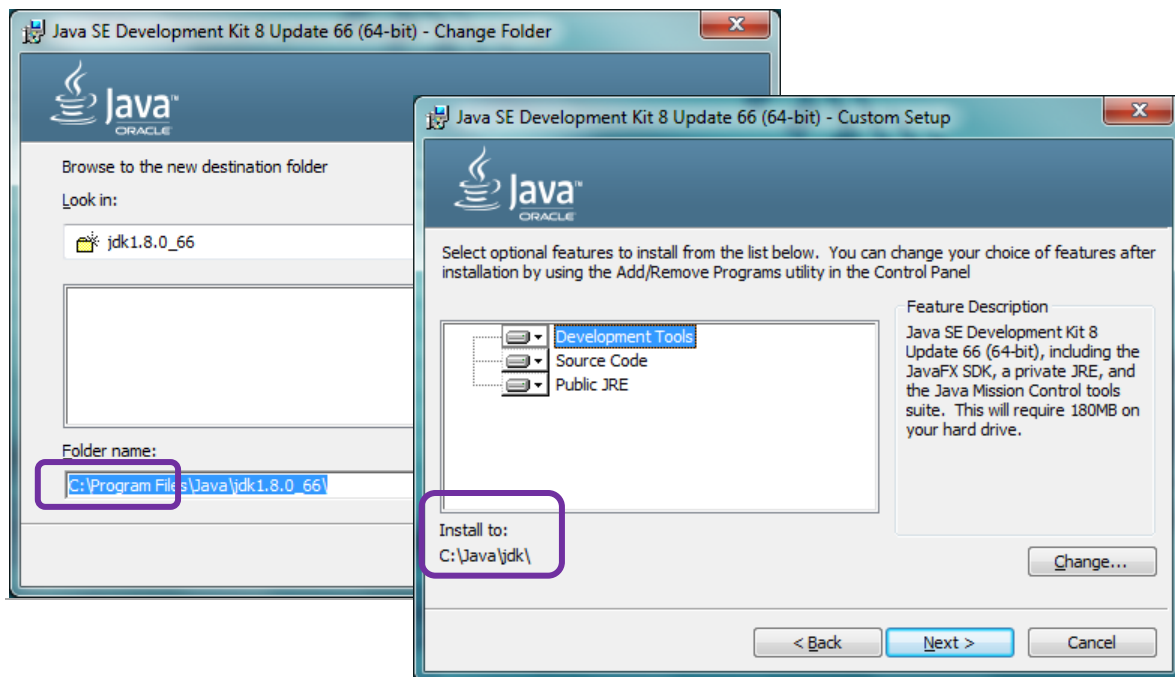
Java SE Development Kit 8u66		
You must accept the Oracle Binary Code License Agreement for Java SE to download this software.		
Thank you for accepting the Oracle Binary Code License Agreement for Java SE; you may now download this software.		
Product / File Description	File Size	Download
Linux x86	154.67 MB	jdk-8u66-linux-i586.rpm
Linux x86	174.83 MB	jdk-8u66-linux-i586.tar.gz
Linux x64	152.69 MB	jdk-8u66-linux-x64.rpm
Linux x64	172.89 MB	jdk-8u66-linux-x64.tar.gz
Mac OS X x64	227.12 MB	jdk-8u66-macosx-x64.dmg
Solaris SPARC 64-bit (SVR4 package)	139.65 MB	jdk-8u66-solaris-sparcv9.tar.Z
Solaris SPARC 64-bit	99.05 MB	jdk-8u66-solaris-sparcv9.tar.gz
Solaris x64 (SVR4 package)	140 MB	jdk-8u66-solaris-x64.tar.Z
Solaris x64	96.2 MB	jdk-8u66-solaris-x64.tar.gz
Windows x86	181.33 MB	jdk-8u66-windows-i586.exe
Windows x64	186.65 MB	jdk-8u66-windows-x64.exe

Note: You have to be consistent on the lab environment you install. If you are on a 64-bit platform, you need a 64-bit JDK, with a 64-bit Eclipse, (or all 32-bit builds). You cannot mix 32-bit with 64-bit builds.

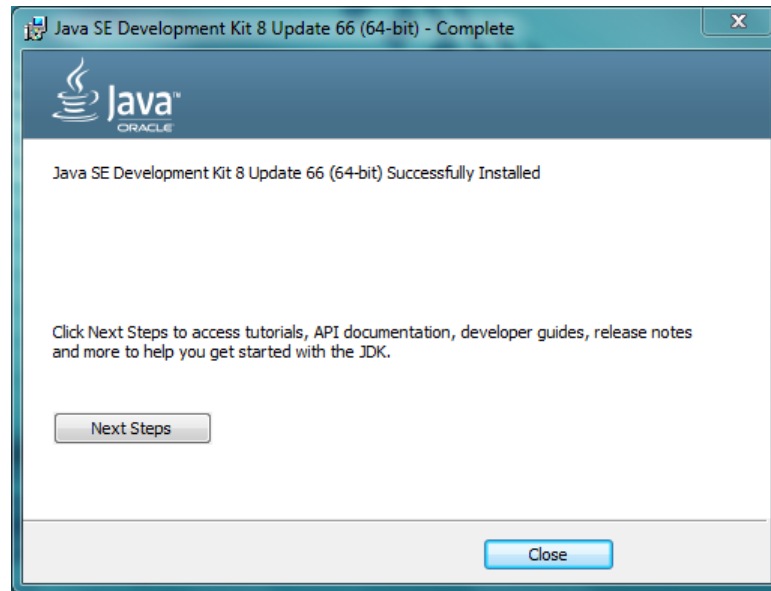
2. To install the JDK, run the downloaded executable to start the installation wizard. On the Custom Setup screen, click the **Change** button.



3. Replace the Folder name with **C:\Java\jdk**. Click **OK** and then click **Next**.



4. At the end of the installation, you will see the Complete/Success window. Click **Finish**. (Close the browser that the installation wizard opens if you do not want to register the Java Development Kit.)



Java Development Kit for Mac

1. Download Oracle/Sun Java Development Kit (JDK) **not** the Java Runtime Environment (JRE).

<http://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html>

Accept the Oracle License Agreement. Download the appropriate **Java SE 8 JDK**.

Java SE Development Kit 8u66 You must accept the Oracle Binary Code License Agreement for Java SE to download this software. Thank you for accepting the Oracle Binary Code License Agreement for Java SE; you may now download this software.		
Product / File Description	File Size	Download
Linux x86	154.67 MB	jdk-8u66-linux-i586.rpm
Linux x86	174.83 MB	jdk-8u66-linux-i586.tar.gz
Linux x64	152.69 MB	jdk-8u66-linux-x64.rpm
Linux x64	172.89 MB	jdk-8u66-linux-x64.tar.gz
Mac OS X x64	227.12 MB	jdk-8u66-macosx-x64.dmg
Solaris SPARC 64-bit (SVR4 package)	139.65 MB	jdk-8u66-solaris-sparcv9.tar.Z
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Solaris x64 (SVR4 package)	140 MB	jdk-8u66-solaris-x64.tar.Z
Solaris x64	96.2 MB	jdk-8u66-solaris-x64.tar.gz
Windows x86	181.33 MB	jdk-8u66-windows-i586.exe
Windows x64	186.65 MB	jdk-8u66-windows-x64.exe

Note: You have to be consistent on the lab environment you install. If you are on a 64-bit platform, you need a 64-bit JDK, with a 64-bit Eclipse, (or all 32-bit builds). You cannot mix 32-bit with 64-bit builds.

2. To install the JDK, run the downloaded **.dmg** file to start the installation wizard. Double-click to start the installation.



3. Follow screen instructions. (Click: Continue, Install)
 4. Provide Username and Password to allow the installation. (Click: Install Software)
 5. Click: Close.
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Eclipse 4.4 (Mars R1)

1. In this section, you will download, install and verify **Eclipse for Java EE Developers**. Navigate to the Mars Eclipse Downloads Page and select the appropriate download link.

Windows:

http://www.eclipse.org/downloads/download.php?file=/technology/epp/downloads/release/mars/1/eclipse-jee-mars-1-win32-x86_64.zip

Mac:

http://www.eclipse.org/downloads/download.php?file=/technology/epp/downloads/release/mars/1/eclipse-jee-mars-1-macosx-cocoa-x86_64.tar.gz

2. You will be directed to the **Eclipse downloads - mirror selection** page. Click the download button.

Windows:

When prompted, SAVE the file. Do not use Windows Explorer to open the file.

Mac:

The file will automatically download to the “**download**” folder.

Eclipse downloads - mirror selection

Download from: **Canada - Rafal Rzczkowski (http)** **OR >** Choose a mirror close to you

File: eclipse-jee-luna-SR2-macosx-cocoa-x86_64.tar.gz

Checksums:

North America

- United States - **Indiana University**
- United States - **Columbia University**
- United States - **XMission Internet**
- United States - **Georgia Tech Software Library**
- United States - **OSU Open Source Lab**
- Canada - **University of Waterloo Computer Science Club**

3. Install Eclipse.

Windows:

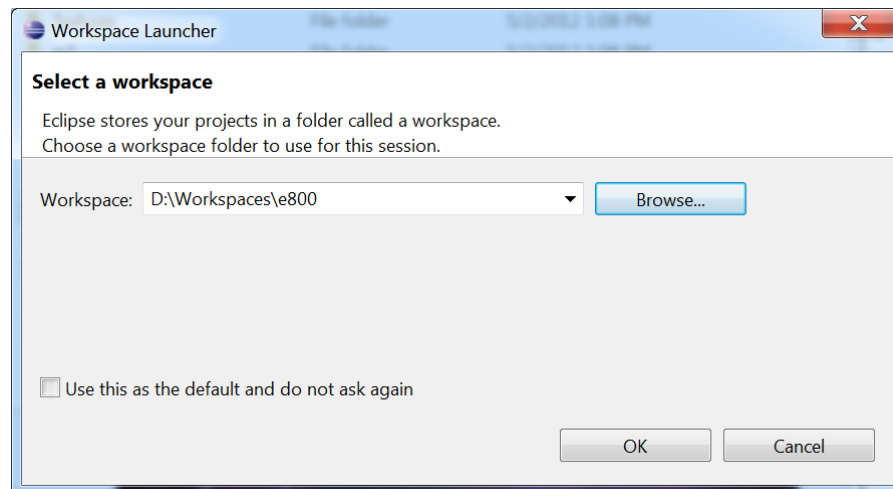
To install Eclipse, simply extract the downloaded file. The download will be delivered as a compressed (i.e. a ".zip", or ".tar.gz") file. Extract this archive into the directory of your choice (e.g. "c:\Mars"). The extract process will create an **\eclipse** folder below that folder.

- Do not use Windows Explorer to extract the zip file. This causes known problems. Instead, use a third-party extract program, such as 7-Zip, Winzip, JustZIPIt, or EasyZip.

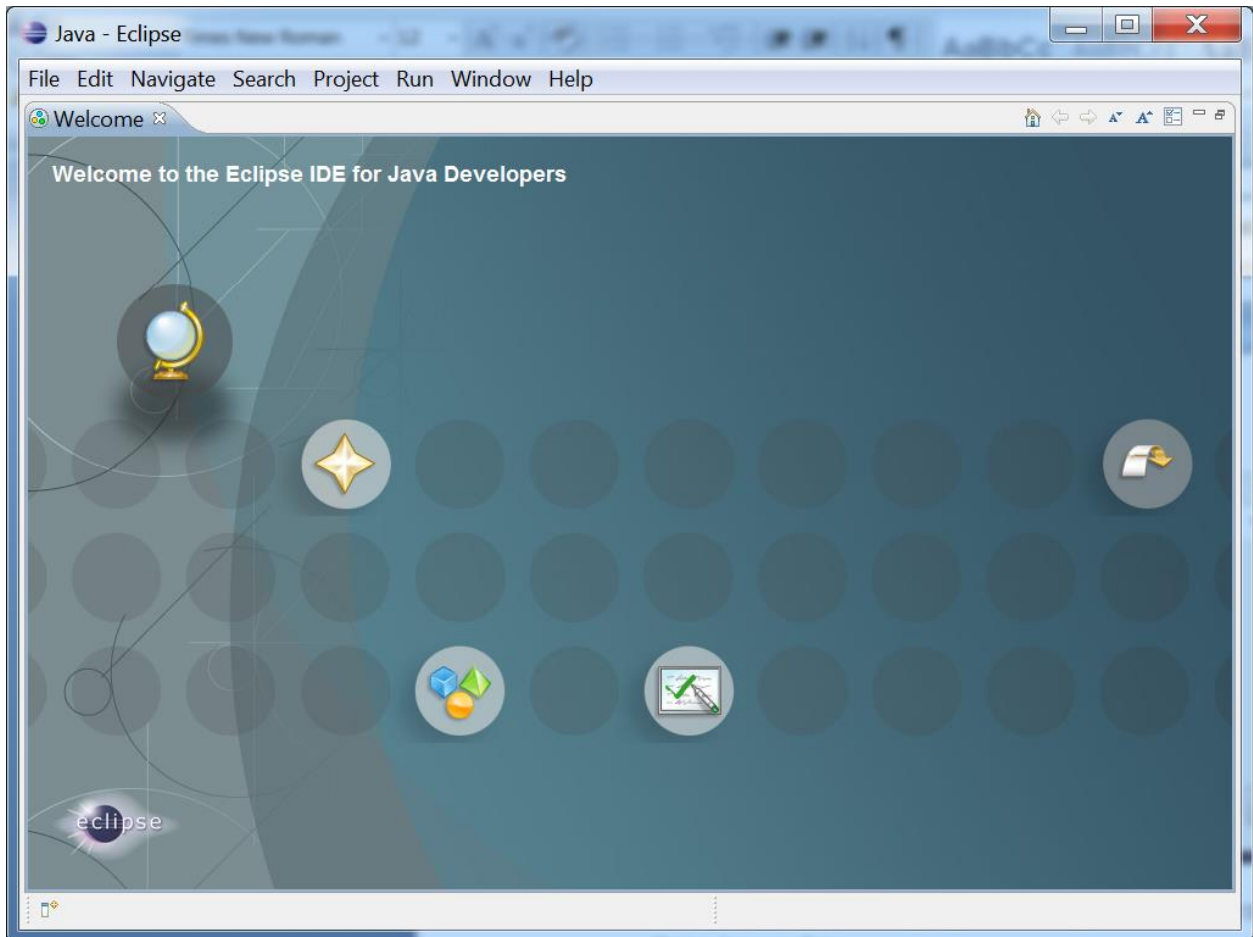
Mac:

Move the file (eclipse-jee-luna-SR2-macosx-cocoa-x86_64.tar) to the “Applications” folder and open it. It will create a folder `\eclipse\` in the same folder where the installation file is located.

- When you open Eclipse for the first time it will prompt the following:
“eclipse” is an application downloaded from the Internet. Are you sure you want to open it?
 - Click **Open** to open.
6. Verify the Eclipse and Java installation. Navigate to the ...`\eclipse\` folder and Run the Eclipse application. First, you will see the Workspace Launcher. Accept the default workspace (it will be different than shown below), leave the checkbox **UNCHECKED**, and click OK.



If the Eclipse Welcome page shown below appears, both Eclipse and the JDK have successfully been installed. Exit the application.



4. Create a shortcut to the Eclipse application on the desktop.
5. Download **Nexus OSS** using the provided links **but do not install**. Installation will be done as a class exercise.

For PC:

<http://www.sonatype.org/nexus/thank-you-for-downloading/?dl=zip>

For MAC:

<http://www.sonatype.org/nexus/thank-you-for-downloading/?dl=tgz>



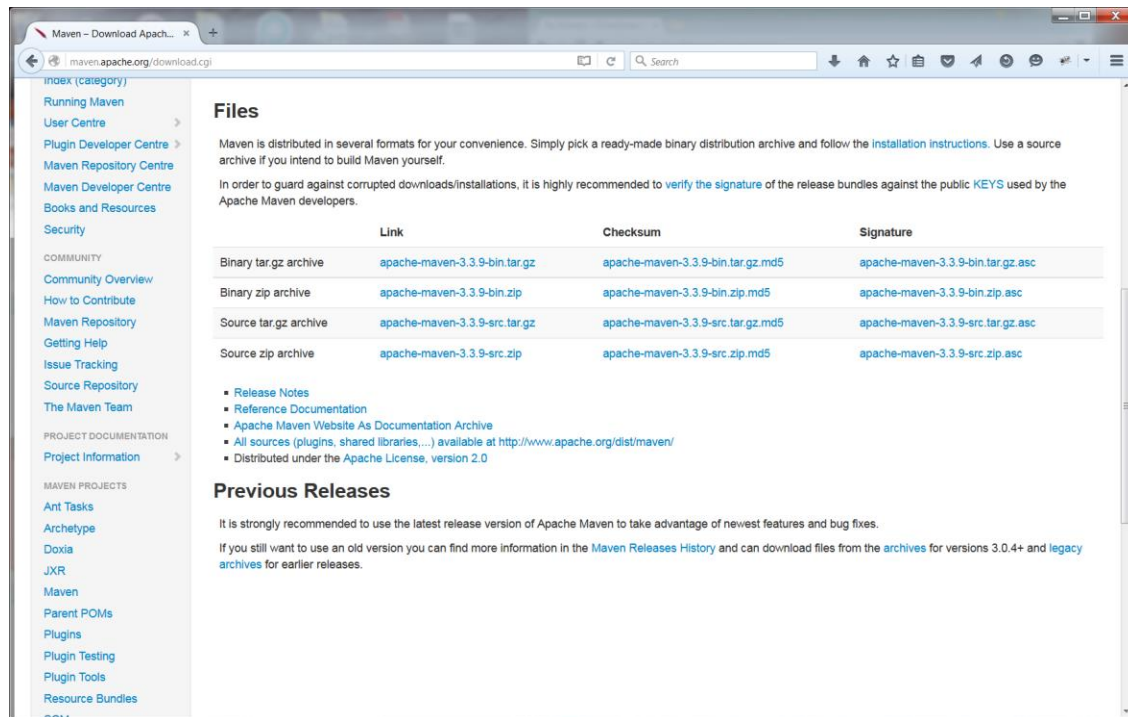
6. Download **Apache Maven** using the provided links **but do not install**. Installation will be done as a class exercise.

For PC:

<http://mirror.cc.columbia.edu/pub/software/apache/maven/maven-3/3.3.9/binaries/apache-maven-3.3.9-bin.zip>

For Mac:

<http://mirror.cc.columbia.edu/pub/software/apache/maven/maven-3/3.3.9/binaries/apache-maven-3.3.9-bin.tar.gz>



7. Extract the provided **Setup.zip** containing lab files **using Folder Names** to the root folder on Windows and to Home Directory on Mac.
8. Setup is complete.