

How to Install Eclipse

Mac OS

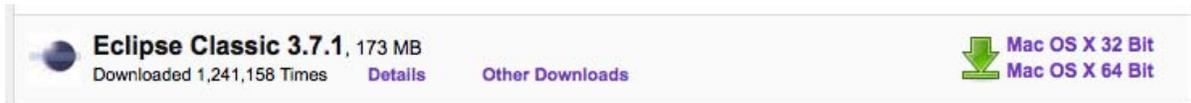
In 1.00/1.001/1.002, you will use the Eclipse Integrated Development Environment (IDE) to create, compile, and run Java programming assignments. Eclipse version 3.7.1 is the IDE supported by the 1.00 staff.

This document contains step-by-step instructions for installing Eclipse on a Mac OS X computer. **Do not install Eclipse until you have installed Java and its documentation.** Please refer to *1.00/1.001/1.002 - Java Installation Guide for Mac OS* for details on how to proceed.

Eclipse can be downloaded from the following website:

<http://www.eclipse.org/downloads/>

Locate the "Eclipse Classic 3.7.1" section and click the download link **corresponding to your operating system.**



Courtesy of The Eclipse Foundation. Used with permission.

You will be redirected to the mirror sites page. A mirror site should be pre-selected for you and appear as a link below "Download eclipse-SDK-3.7.1-macosx-cocoa.tar.gz from:" If so, click that link to start downloading. Otherwise, you can use any of the mirror sites listed on the page.

Download eclipse-SDK-3.7.1-macosx-cocoa.tar.gz from:



...or pick a mirror site below.

Courtesy of The Eclipse Foundation. Used with permission.

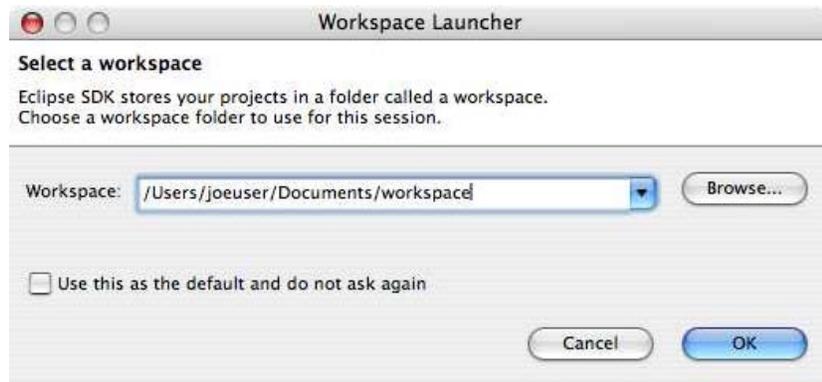
In your **Downloads** window, an item called "eclipse-SDK-3.7.1-macosx-cocoa.tar.gz" (or something similar) will show up. It is large, so expect it to take a little while. If you use the Safari browser, the downloaded file should be automatically unzipped to your Desktop. If not, double click to unzip (you might have to do this twice). A new folder titled "eclipse" should be on your Desktop. Open this and drag the "Eclipse" icon (purple circle) to your Dock. If you downloaded the Java Documentation, you will most likely want to drag the .zip file into your

eclipse folder. Drag the entire eclipse folder to your Applications folder. You have just installed Eclipse on your Mac.

Launch Eclipse from your dock.

Each time you run Eclipse, you will be prompted to select a workspace. The default workspace is:

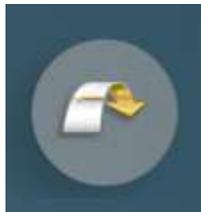
`/Users/<username>/Documents/workspace`



Courtesy of The Eclipse Foundation. Used with permission.

Click *Use this as the default and do not ask again* to avoid having to type in the workspace path every time you start.

If you are shown a *Welcome to Eclipse* screen, click the *Go to the Workbench* button to reach the main Eclipse environment, where you will develop your programs.



Courtesy of The Eclipse Foundation. Used with permission.

The following steps will guide you through setting up Eclipse. The changes you will make to Eclipse are saved in the workspace. Each time you create a new workspace you will have to repeat steps those steps.

Setting the compiler compliance

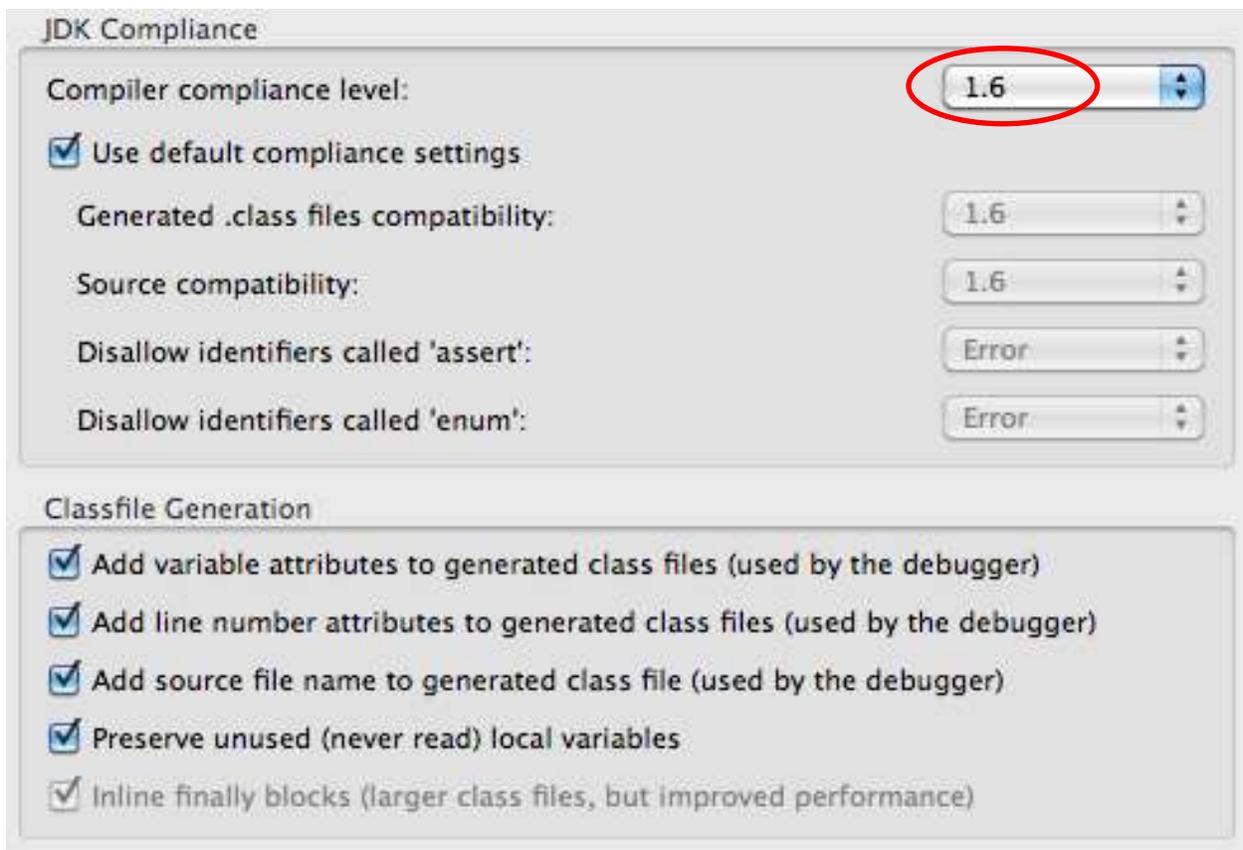


From the Eclipse menu at the top of the screen, select Preferences...

We will now check to make sure Eclipse is using the correct version of Java that we have just installed (J2SE 5.0 or 6.0).

The “Java → Compilers” and “Java → Installed JREs” sections of the Preferences match the following two screenshots. The compiler compliance level should be 1.5. or 1.6. with the default compliance settings checked.

Courtesy of The Eclipse Foundation. Used with permission.



Courtesy of The Eclipse Foundation. Used with permission.

Setting the workspace folders

The files you will be creating via Eclipse can be organized in several ways. For simplicity, we will set Eclipse to organize the files via “project” output. This means .java, and .class files will be stored directly in the project folder instead of in a src/bin directory structure.

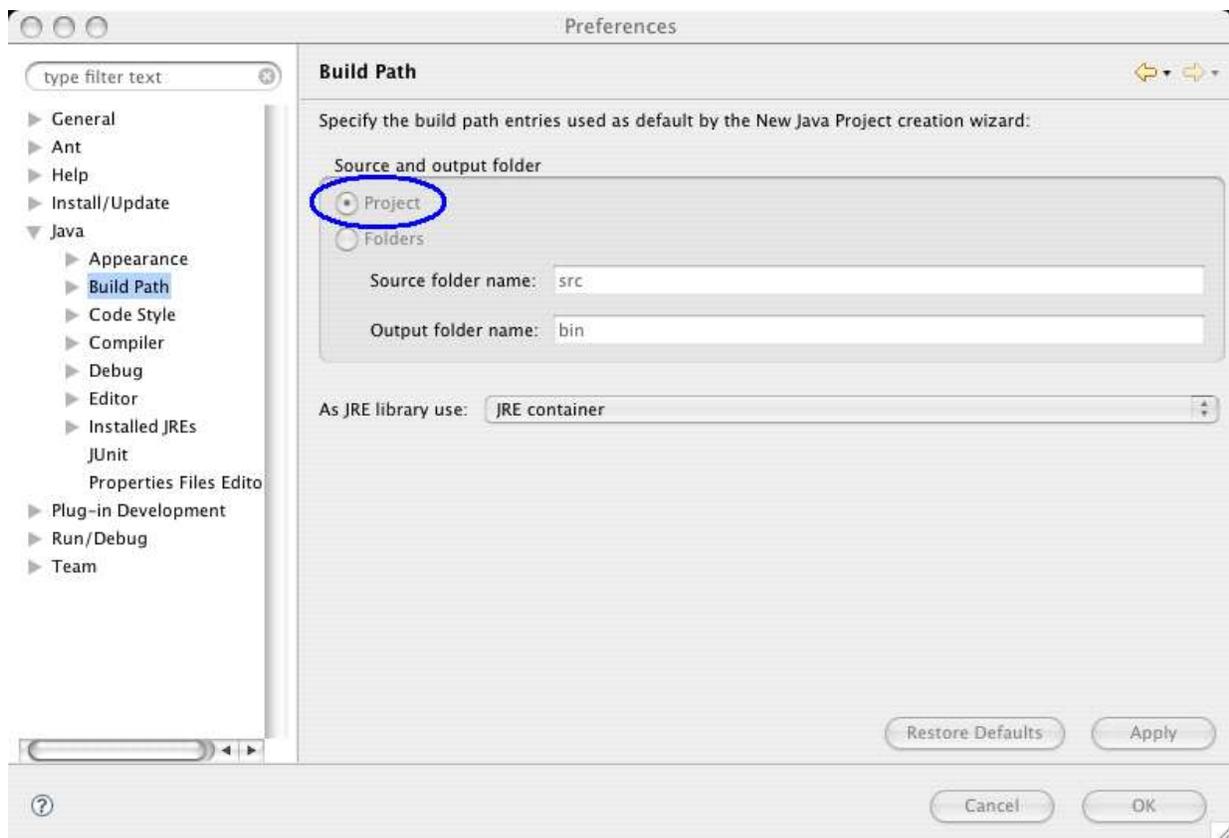
With Eclipse running:

Choose **Eclipse** -> Preferences from the menu.

In the "Preferences" window, in the navigation tree, expand the "Java" option and click the “Build Path” option.

In the "Build Path" panel, select the “Project” radio button.

Click OK to save your changes



Courtesy of The Eclipse Foundation. Used with permission.

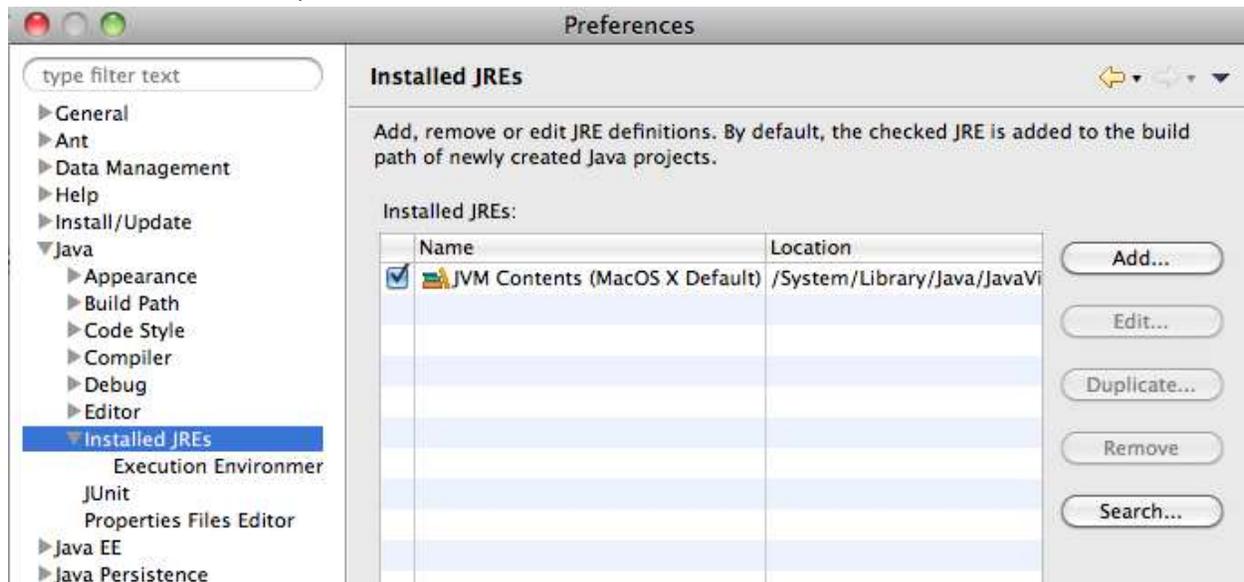
Connecting the Java documentation to Eclipse

With Eclipse running:

Choose **Eclipse** -> Preferences from the menu.

In the "Preferences" window, in the navigation tree, expand the "Java" option and click the "Installed JREs" option.

In the "Installed JREs" panel, make sure the most current version of Java is checked (should be JVM MacOS X Default). Select it and click "Edit".



Courtesy of The Eclipse Foundation. Used with permission.

An "Edit JRE" window will open. You will now need to set the Javadoc location for **each** JRE system library.

To set the Javadocs for **one** JRE System library:

1. Select a system library (...jar)
2. Click the button "Javadoc Location..."
3. A "Javadoc For ..." window will appear.
4. Select "Javadoc in archive"
5. Select "External file"
6. For "Archive Path", enter:

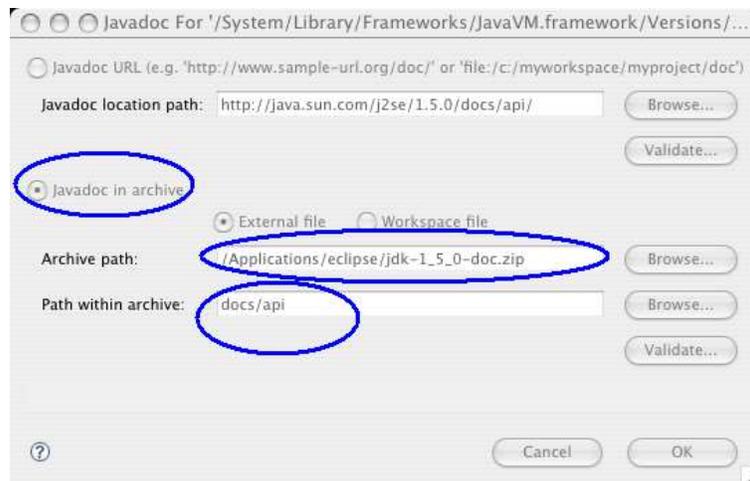
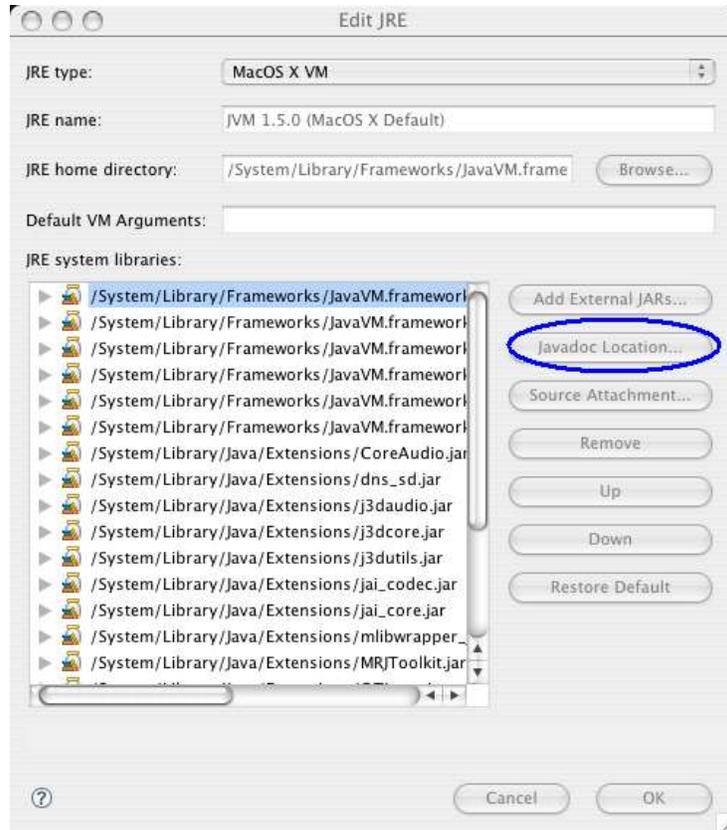
/Applications/eclipse/jdk-1_5_0-doc.zip
or

/Applications/eclipse/jdk-1_6_0-doc.zip

or the file path of wherever you saved the documentation zip file.

7. For "Path within archive", enter:
docs/api
8. If you click the "Validate" button you should get a prompt that says the location is likely valid.

9. When done, click OK and repeat with the next system library.



Courtesy of The Eclipse Foundation. Used with permission.

MIT OpenCourseWare
<http://ocw.mit.edu>

1.00 / 1.001 / 1.002 Introduction to Computers and Engineering Problem Solving
Spring 2012

For information about citing these materials or our Terms of Use, visit: <http://ocw.mit.edu/terms>.