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:
[United States] Oregon State University Open Source Lab (http)



... or pick a mirror site below.

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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

000	Workspace Launcher
Select a wo	kspace
Eclipse SDK s Choose a wor	tores your projects in a folder called a workspace. kspace folder to use for this session.
Workspace:	/Users/joeuser/Documents/workspace Browse
Use this	as the default and do not ask again
	Cancel OK

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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.



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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

Preferences	ж,
Services)
Hide Eclipse	жн
Hide Others Show All	₹жн
Quit Eclipse	жq

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 \rightarrow Compilers" and "Java \rightarrow 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.

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JDK Compliance	
Compiler compliance level:	1.6
Se default compliance settings	
Generated .class files compatibility:	1.6 ‡
Source compatibility:	1.6 ‡
Disallow identifiers called 'assert':	Error ‡
Disallow identifiers called 'enum':	Error 🛟
Classfile Generation	
☑ Add variable attributes to generated class files (u	used by the debugger)
☑ Add line number attributes to generated class file	es (used by the debugger)
Add source file name to generated class file (use	d by the debugger)
Preserve unused (never read) local variables	
and a second	

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

000	Preferences	
(type filter text)	Build Path	⇔•⇔•
 General Ant Help Install/Update Java Appearance Build Path Code Style 	Specify the build path entries used as default by the N Source and output folder Project Folders Source folder name: src	lew Java Project creation wizard:
 Compiler Debug Editor Installed JREs JUnit Properties Files Edito Plug-in Development Run/Debug Team 	Output folder name: bin As JRE library use: JRE container	:
۲ ۲ ۲		Cancel OK

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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".

$\Theta \cap \Theta$	w	Preferences			
(type filter text	Inst	alled JREs		\$	
▶ General ▶ Ant ▶ Data Management ▶ Help ▶ Install/Update	Add, remove or edit JRE definitions. By default, the checked JRE is added to the build path of newly created Java projects.				
▼Java		Name	Location	Add	
 Appearance Build Path Code Style Compiler Debug Editor 	Ø	JVM Contents (MacOS X Default)	/System/Library/Java/JavaVi	Edit	
Installed JREs				Remove	
JUNIT Properties Files Editor Java EE Java Persistence				Search	

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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.

000	Edit JRE		
RE type:	MacOS X VM	(*)	
RE name:	JVM 1.5.0 (MacOS X Default)].	
RE home directory:	/System/Library/Frameworks/JavaVM.frame Browse		
Default VM Arguments	1		
RE system libraries:			
/System/Libra /System/Libra /System/Libra /System/Libra /System/Libra /System/Libra /System/Libra /System/Libra /System/Libra /System/Libra /System/Libra /System/Libra /System/Libra	ry/Frameworks/JavaVM.frameworl ry/Frameworks/JavaVM.frameworl ry/Frameworks/JavaVM.frameworl ry/Frameworks/JavaVM.frameworl ry/Frameworks/JavaVM.frameworl ry/Java/Extensions/CoreAudio.jar ry/Java/Extensions/Jadaudio.jar ry/Java/Extensions/J3daudio.jar ry/Java/Extensions/J3daudio.jar ry/Java/Extensions/J3daudio.jar ry/Java/Extensions/J3daudio.jar ry/Java/Extensions/J3daudio.jar ry/Java/Extensions/J3daudio.jar ry/Java/Extensions/J3daudio.jar ry/Java/Extensions/J3daudio.jar ry/Java/Extensions/J3daudio.jar ry/Java/Extensions/J3daudio.jar ry/Java/Extensions/J3daudio.jar ry/Java/Extensions/J3daudio.jar	Add External JARs Javadoc Location Source Attachment Remove Up Down Restore Default	
 O O Javadoc For 	'/System/Library/Frameworks/Ja	iancel OK	
Javadoc URL (e.g. 'hti	tp://www.sample-url.org/doc/" or 'file:	/c:/myworkspace/myproject/do	
Javadoc in archive		Validate	
Archive path:	External file Workspace file //Applications/eclipse/jdk-1_5_0-doc		
Path within archive:	docs/api	Browse	
	\bigcirc	Validate	
0		Cancel OK	

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