

Setting Up Java and Eclipse

You may download a PDF of these directions here: <https://d396qusza40orc.cloudfront.net/phoenixassets/object-oriented-java/Setting%20up%20Java%2C%20Eclipse%2C%20and%20UnfoldingMaps.pdf>

If you have any issues after completing this setup, the very next reading [Support: Troubleshooting Common Issues](#) provides solutions to many of the errors that our learners encounter.

In this course we (and you) will be using the Eclipse integrated development environment (IDE) to develop and run our Java code. Eclipse is a powerful, industry-grade IDE. While it might be a little confusing at first because of its power, once you get the hang of it, it will provide for a very pleasant programming experience and you'll wonder how you ever programmed without it!

Part 1: Install the Java JDK, if you don't have it already installed

This step is not strictly required, because eclipse comes with its own compiler. But having a working JDK (JDK stands for Java Development Kit) is a very useful thing. In this class we have tested our files with Java versions 7 and 8, so if you have anything older than that, you'll want to upgrade anyway

1. Go to <http://www.oracle.com/technetwork/java/javase/downloads/index.html>
2. Click on one of the buttons to download the latest version of the Java SE JDK. These buttons are highlighted in the screenshot below (click either one).

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Java SE Downloads


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Java Platform (JDK) 8u60


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NetBeans with JDK 8

Java Platform, Standard Edition

Java SE 8u60

This releases includes support for ARMv8 processors, Nashorn enhancements, and improvements to Deployment Rule Set functionality.
JDK for ARM releases are now available on the same page as the downloads for other platforms.
[Learn more](#)

<ul style="list-style-type: none">Installation InstructionsRelease NotesOracle LicenseJava SE ProductsThird Party LicensesCertified System ConfigurationsReadme Files<ul style="list-style-type: none">JDK ReadMeJRE ReadMe	<div>JDK DOWNLOAD</div> <div>Server JRE DOWNLOAD</div> <div>JRE DOWNLOAD</div>
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3. Accept the license agreement in the first list of files titled “Java SE Development Kit ...” and then download the file that is right for your operating system.

4. Install the JDK as appropriate for your operating system. If you need instructions, you can find them here:

- Windows: <http://docs.oracle.com/javase/7/docs/webnotes/install/windows/jdk-installation-windows.html>
- Mac: https://docs.oracle.com/javase/8/docs/technotes/guides/install/mac_jdk.html
- Linux: https://docs.oracle.com/javase/8/docs/technotes/guides/install/linux_jdk.html

That's it. You've got the Java SDK on your machine (SDK stands for software development kit -- a more general term).

Part 2: Download, “install” and setup Eclipse

Next, you will install and setup eclipse. You might find the following guide

helpful: https://wiki.eclipse.org/Eclipse/Installation#Download_Eclipse And/or you can follow our instructions here:

1. Go to <https://www.eclipse.org/downloads/>
2. Select your operating system from the dropdown menu in the upper right. Then, in the row titled Eclipse IDE for Java Developers, click on 32 or 64-bit as appropriate to go to the download page.

Package Solutions

Eclipse Mars (4.5) Release for

Windows



Eclipse IDE for Java EE Developers

269 MB 1,778,326 DOWNLOADS

Tools for Java developers creating Java EE and Web applications, including a Java IDE, tools for Java EE, JPA, JSF, Mylyn...



Windows

32 bit | 64 bit



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Windows

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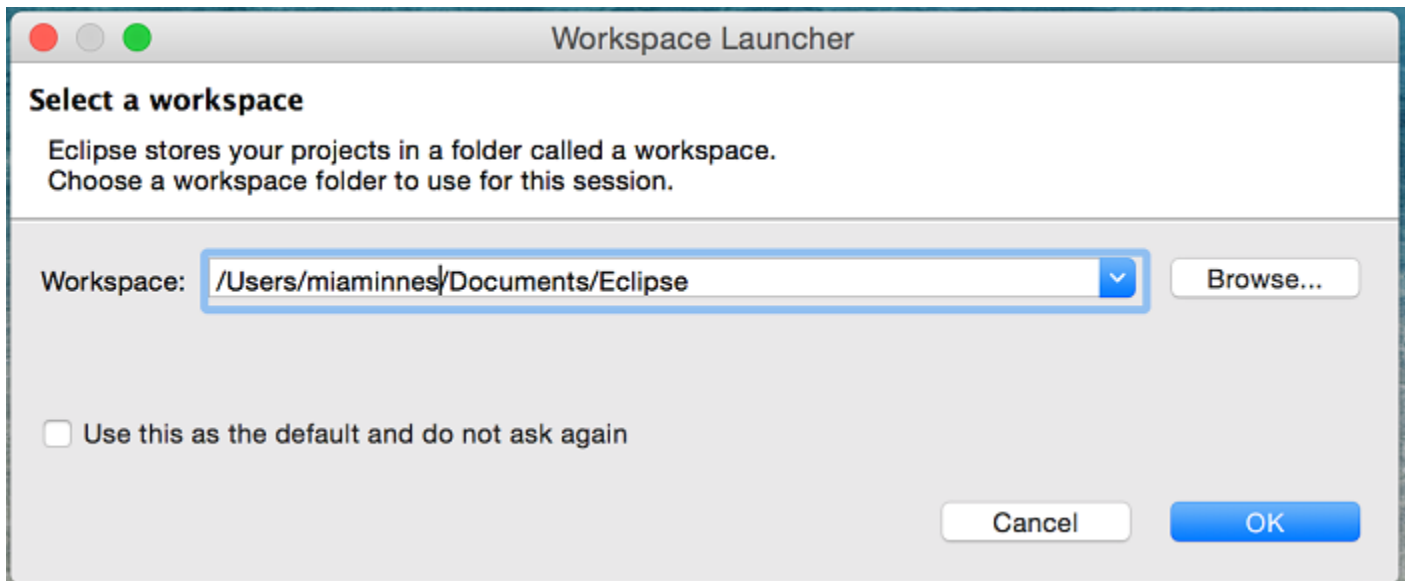
3. Click the Download button to start your download. Save the compressed (.zip or .tar.gz) file wherever you want on your computer.

4. Uncompress the downloaded file to any location on your computer. Note: Eclipse will run from here. There is nothing else you need to do to “install” it. However, Windows users should note the following warning from https://wiki.eclipse.org/Eclipse/Installation#Download_Eclipse

“Note that there is a known problem with the built-in decompression utility on all current versions of Windows. We recommend that you use a more robust decompression utility such as the open source 7zip when decompressing an Eclipse download. Some people report success when initially decompressing Eclipse into a root directory (e.g. c:\) and then moving it to a more appropriate home (e.g. c:\Program Files\Eclipse)”

5. Once Eclipse is unzipped, run it by either double-clicking on eclipse.exe (Windows and Mac) or typing eclipse at the command line (Linux--make sure it is on your path).

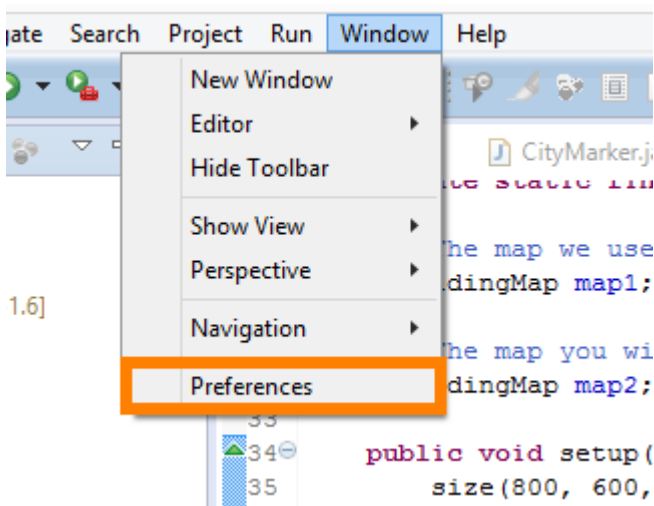
6. Eclipse will ask you to select your workspace. This is where eclipse will store all of your code and project files. We recommend you choose a directory that gets backed up regularly (e.g. on Google Drive, for example). Optionally, make this the default workspace (so Eclipse will not ask you every time).



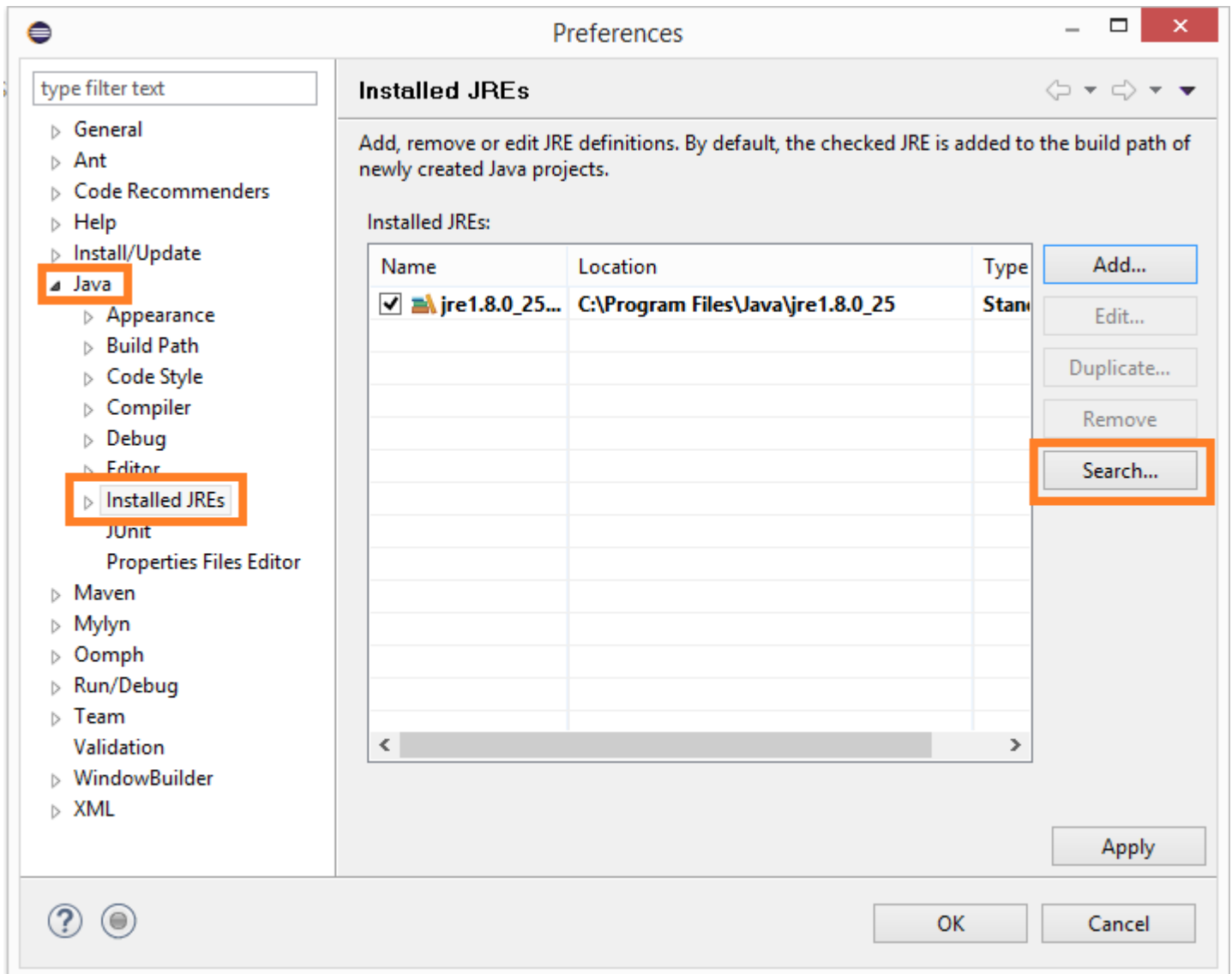
7. Then you will see a welcome screen that has links to a bunch of information including tutorials and overviews. We encourage you to try out some of these, but if you just want to dive in and get started, click the Workbench icon in the top right corner.



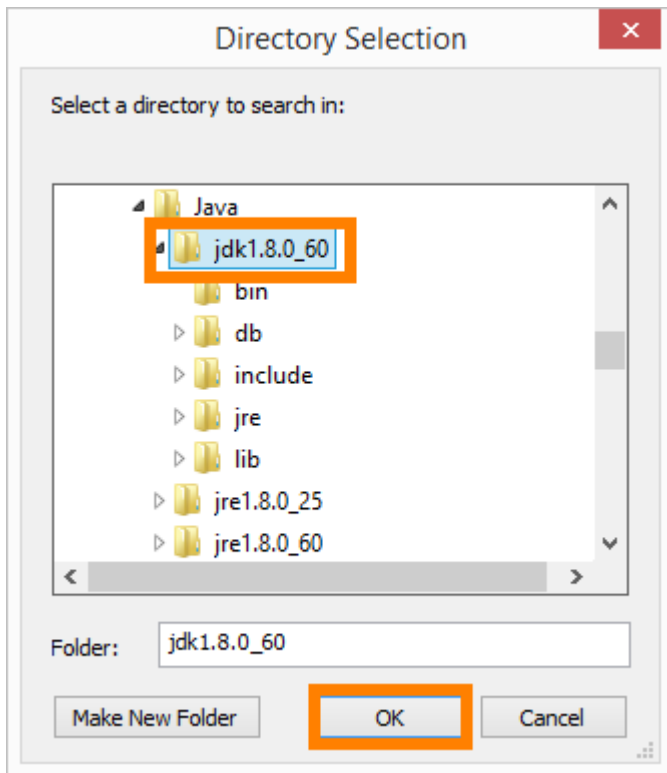
8. **(Required for Mac Users. Otherwise Optional.)** Finally, set Eclipse to use the JDK you installed in Step 1. Go to Window->Preferences (note: for some versions of eclipse, Preferences is under the main **Eclipse** tab:



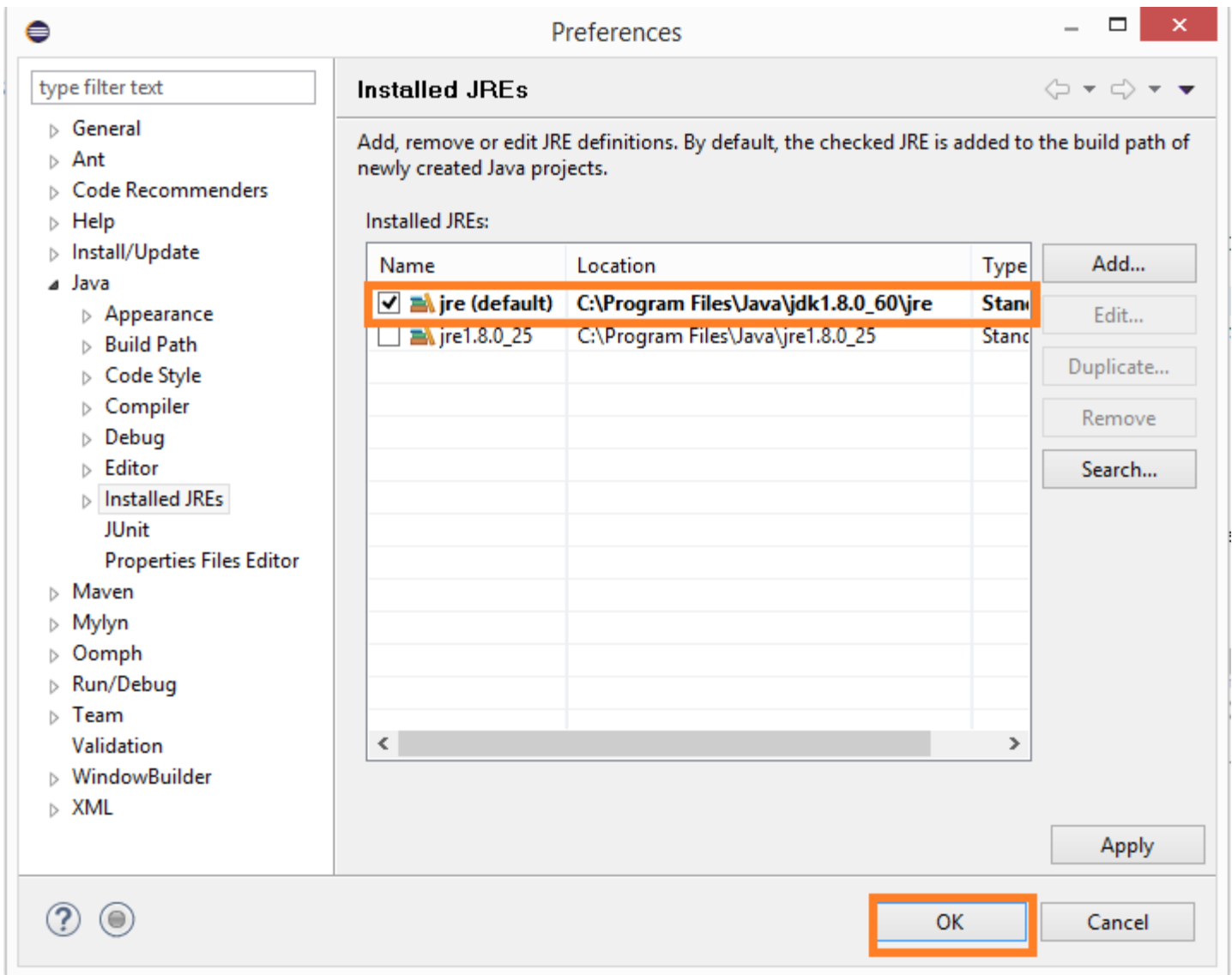
Then, in the window that opens select Java->Installed JREs in the menu on the left, then click Search:



Navigate to where you installed the JDK in step 1. Make sure you select the JDK directory and not the newly installed JRE directory! Then click OK.



After a moment, eclipse should list a second JRE in the Java->Installed JREs window. Select the JRE in the newly installed JDK folder, and click OK:



You are now ready to setup and start working with UnfoldingMaps!