Eclipse is an Integrated Developed Environment (IDE). You can use Eclipse to design, develop, test and deploy many different types of applications in many languages. We are going to use Eclipse to develop Java applications. This document describes how to install and configure Eclipse on XP. Linux, Solaris and Macintosh users should be able to use these directions as a guide.

Installing Java

Java 1.5 SE or higher is required. Java 1.5 SE is equivalent to Java 5.0 SE. The same pattern applies to Java 1.6.

Step 1: Go to your Control Panel and click on the Java icon. If there is no Java Icon java is probably not installed. If you are using a computer that has applications requiring specific versions of Java less than 1.5, you will have to install two versions. If you don’t need the existing version and it is less than 1.5, you can remove it. You remove programs by going to the Control Panel and Using the Add/Remove widget.
Step 2: Check the version number.
Step 3: You should see something like this:

![Java Control Panel](image)

Step 4: If you need to install Java go to the location where the Java SDK is located.

Create Commons License Pace University
Step 5: Agree to the License terms and click next.

Step 6: Take the defaults and click next, make a note of the install to directory. Windows likes to put things in “Program Files”. In this case C:\Program Files\Java\jdk1.5.0_12
Step 7: Click Finish, if you installed this as the only version of Java, you should be able to find it by using the Control Panel Java Wizard, like you did in Step 1:


**Installing Eclipse**

**Step 1:** Navigate to the directory with the eclipse zip file. Right click on the file name below and then select Extract All. The zip file can be found on the CD/DVD/USB device or hard disk, for online download see Appendix A

![Image of Eclipse installation directory]

**Step 2:** You should see the following.
Step 3: Extract the files into C:\eclipse
Step 4: When the extraction completes click finish and navigate to the directory where the files were extracted. Verify that you have the following version of JUnit. 4.3.1. You should see something like the screen below. JUnit will not be highlighted.

Step 5: Navigate to the following directory and launch eclipse. Optionally pin Eclipse to your start menu. You can do this by right clicking when you have the mouse over the eclipse executable.
Step 6: Launch eclipse, advanced users can change the location for your workspaces.

Step 7: You should see something like the following
Step 8: Click the Workbench icon above and verify that you see the following.
This completes the installation of the Eclipse IDE. Eclipse is enhanced by the use of plugins. We are going to install and or enable several additional plugins.

**Adding Subversion Support**

We are going to use the subclipse plug-in from [http://subclipse.tigris.org/](http://subclipse.tigris.org/) to install the plug-in follow the directions here:

[http://subclipse.tigris.org/install.html](http://subclipse.tigris.org/install.html)

**Step 1:** Go to the Help menu item in the Eclipse IDE, you installed above
Step 2: Select Search for new, click next.

Step 3: Press "New Local Site"
Step 4: Navigate to the location of the following file in the CD or hard disk if you copied it over.
Step 5: You should see the following, click ok.

Step 6: Click “Finish” On this Screen.
Step 7: Unselect Integrations (Optional) and click Next
Step 8: Accept the Apache License terms.
Step 9: Click Finish
Step 10: Click Install All
Step 11: Select Yes, Eclipse will restart.

Configure JUnit
Step 1: In the Package Explorer view, select your project and right click go to properties, the last item in the Menu. Your Project Name will be different.
Step 2: Select the Java Build Path and the Libraries tab. The window should look like this.
Step 3: Select Add Library and select JUnit
Step 4: Select JUnit 4, then Finish.
Step 5: Your Window should look like this.
JUnit 4 has been enabled for the project you selected.

**Adding Coverlipse support**

The eclipse update site is located at http://coverlipse.sf.net/update. When using the update site mechanism you don't need to remove older Coverlipse versions. Eclipse will disable them and only use the newest one.

Step-by-step instructions:

- In Eclipse, click Help -> Software Updates -> Find and Install.
- In the dialog, select Search for new features to install, then Next.
- In the next step, add a New Remote Site. Name it "Coverlipse update site", the URL is "http://coverlipse.sf.net/update/".
Press Finish. Eclipse now searches for the Coverlipse feature to install and shows that to you.

In the future, you can use Help -> Software Updates -> Manage Configuration to scan specifically for Coverlipse updates.

**Appendix A**

or downloaded from the eclipse website. [http://www.eclipse.org/downloads/](http://www.eclipse.org/downloads/). We are using the Eclipse IDE for Java developers. Download the version for your Operating System.

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### Eclipse Downloads

To download Eclipse, select a package below or choose one of the third party Eclipse distros. **You will need a Java runtime environment (JRE) to use Eclipse (Java 5 JRE recommended).** All downloads are provided under the terms and conditions of the Eclipse Foundation Software User Agreement unless otherwise specified.

#### Eclipse Europa Packages

- **Eclipse IDE for Java Developers** - Windows (78 MB)  
  The essential tools for any Java developer, including a Java IDE, a CVS client, XML Editor and Mylyn. [Find out more...](http://www.eclipse.org/downloads/eclipse-inst Download)

- **Eclipse IDE for Java EE Developers** - Windows (125 MB)  
  Tools for Java developers creating JEE and Web applications, including a Java IDE, tools for JEE and JSF, Mylyn and others. [Find out more...](http://www.eclipse.org/downloads/eclipse-inst Download)

- **Eclipse IDE for C/C++ Developers** - Windows (62 MB)  
  An IDE for C/C++ developers. [Find out more...](http://www.eclipse.org/downloads/eclipse-inst Download)

- **Eclipse for RCP/Plug-in Developers** - Windows (153 MB)  
  A complete set of tools for developers who want to create Eclipse plug-ins or Rich Client Applications. It includes a complete SDK, developer tools and source code. [Find out more...](http://www.eclipse.org/downloads/eclipse-inst Download)

- **Eclipse Classic** - Windows (140 MB)  
Appendix B

The Eclipse IDE tries to help you by suggesting completion while you type. This facility requires that there are java docs for the classes you are using. Eclipse often points to a network location. If you would like to replace the reference with something local on your hard disk so you can work off the network. You have two options for using the files locally:

1. Copy the directories jdk-1_5_0-doc and junit4.4-doc to your hard disk and point to them where needed, see directions below.
2. Unzip the Java Docs for Java and for JUnit into a directory of your choosing and change the reference to point to the root of the directory of the documentation. You will have to do some searching in the directory tree.

The CD/DVD/USB device contains the docs in zipped format. To get to the configuration screen, right click on JUnit4 and then select Build Path -> Configure Build Path.
The Java doc for JUnit below is external; change that to point to the internal location.

The Java Doc locations for Java require that you repeat the change of the location several times once for each jar listed below.