

1.00/1.001 HowTo: Install Eclipse

Spring 2005

1.00/1.001 will use the Eclipse Integrated Development Environment (IDE) to create, compile, and run Java programming assignments. Eclipse version 3.0.1 is the IDE supported by the 1.00 staff.

This document contains step-by-step instructions for installing Eclipse on a Microsoft Windows computer.

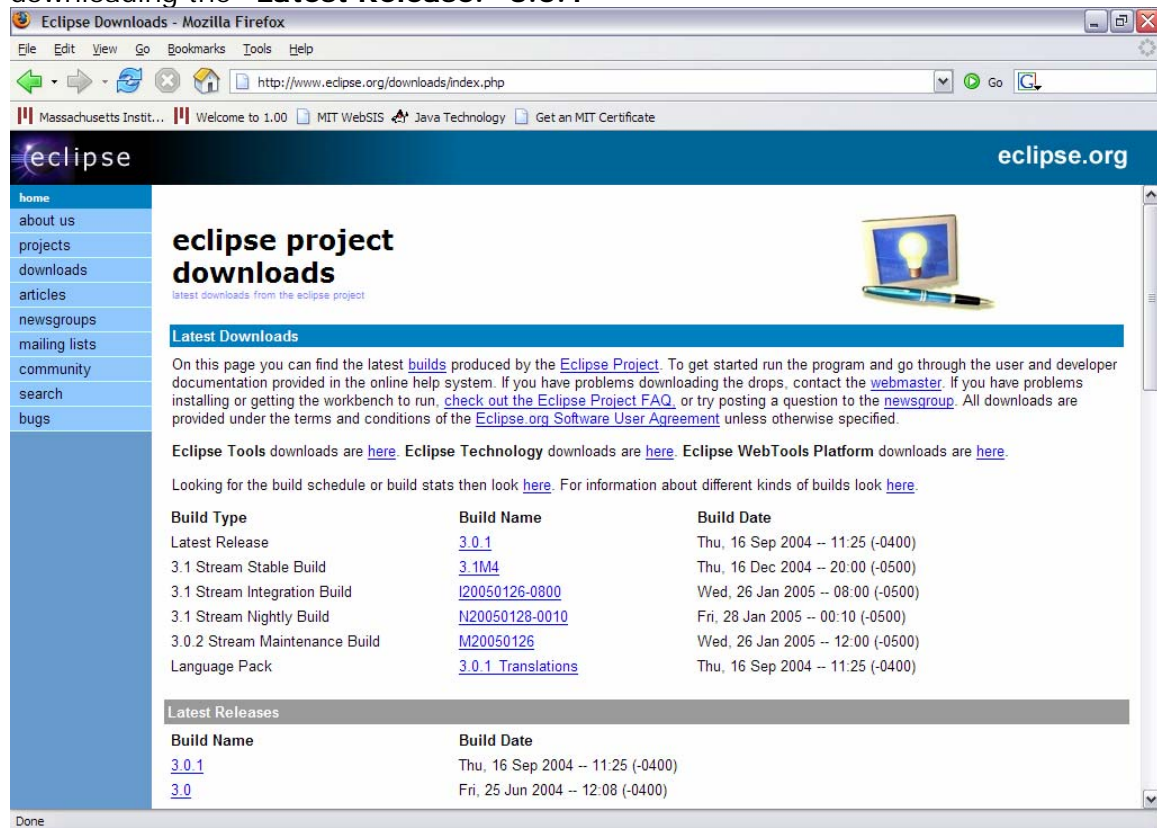
Do not install Eclipse until you have installed J2SE 1.5 SDK. Please refer to *1.00/1.001 HowTo: Install Java & Documentation* for details on how to proceed.

Step 1: Downloading Eclipse

Eclipse can be downloaded from the following website:

<http://www.eclipse.org>

Starting from the home page of this website, navigate to the download area. First click on **downloads** on the left hand side, select "**North America Main Eclipse Download Site**", and download the latest release. You are interested in downloading the "**Latest Release.**" **3.0.1**



The screenshot shows a Mozilla Firefox browser window displaying the Eclipse Downloads page. The browser's address bar shows the URL <http://www.eclipse.org/downloads/index.php>. The page features a navigation menu on the left with options like 'home', 'about us', 'projects', 'downloads', 'articles', 'newsgroups', 'mailing lists', 'community', 'search', and 'bugs'. The main content area is titled 'eclipse project downloads' and includes a 'Latest Downloads' section with a table of build information. Below this is a 'Latest Releases' section with a table of release information. The browser's status bar at the bottom shows 'Done'.

Build Type	Build Name	Build Date
Latest Release	3.0.1	Thu, 16 Sep 2004 -- 11:25 (-0400)
3.1 Stream Stable Build	3.1M4	Thu, 16 Dec 2004 -- 20:00 (-0500)
3.1 Stream Integration Build	I20050126-0800	Wed, 26 Jan 2005 -- 08:00 (-0500)
3.1 Stream Nightly Build	N20050128-0010	Fri, 28 Jan 2005 -- 00:10 (-0500)
3.0.2 Stream Maintenance Build	M20050126	Wed, 26 Jan 2005 -- 12:00 (-0500)
Language Pack	3.0.1 Translations	Thu, 16 Sep 2004 -- 11:25 (-0400)

Build Name	Build Date
3.0.1	Thu, 16 Sep 2004 -- 11:25 (-0400)
3.0	Fri, 25 Jun 2004 -- 12:08 (-0400)

(This page changes frequently, so what you see may be slightly different. There is an 'improved' download hyperlink on this page now that may be easier.)

After selecting the 3.0.1 release, select the **http** download for **Windows**.

Selecting this link will display the **File Download** dialog box to appear. Select **save**, select a location to download the file, and select **save**.

Step 2: Installing Eclipse

Once you have obtained the Eclipse zip file, right-click it and choose **Extract All...** (or run WinZip and select Extract All) to begin the extraction process. This process will lead you through a series of windows. They are:

1. Welcome Screen. Click **Next** to advance.
2. Select the Installation Directory. We suggest you select "**C:\Program Files**". Then click **Next** to start the extraction process.
3. The zip file is extracted to the designated folder.
4. Once the extraction is complete, click **Finish** with the **Show extracted files** box checked.
5. After eclipse finishes extracting, you will see a window with all the Eclipse files. Using the right mouse button, right click on the eclipse.exe file and drag it to the desktop. After dragging it over the desktop, release the right click button and select "create shortcut here."

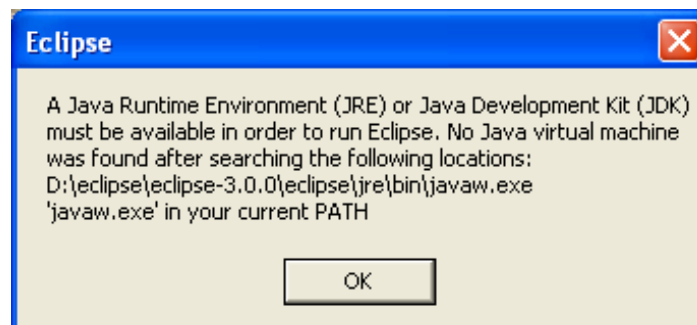
Step 3: Running Eclipse

Double-click on the Eclipse icon you created on your desktop.

Running Eclipse: Troubleshooting

If you installed the Java SDK first and then eclipse, you should not run into any problems, however if you do, the following tips might be helpful.

1. How do we run Eclipse if we get "No JVM (Java Virtual Machine) Error"?



In this example, the eclipse IDE was installed to the **D:\eclipse\eclipse-3.0.1** location. The executable throws this error message as it is not able to find another executable **javaw.exe** to load the JRE. In this case, an easy solution is as follows:

First find the folder that the Java executable (**javaw.exe**) was installed in. If the **J2SE 1.5 SDK** has been installed properly, you should be able to search for the executable **javaw.exe**. For example, if the J2SE 1.5 SDK was installed in the location **C:\j2sdk1.5.0**, then the executable **javaw.exe** would be located in the folder **C:\j2sdk1.5.0\jre\bin**.

Now, create a folder **jre\bin** inside the folder **D:\eclipse\eclipse-3.0.1\eclipse** (or wherever folder Eclipse was actually installed into). Then copy the **javaw.exe** from **C:\j2sdk1.5\jre\bin** to **D:\eclipse\eclipse-3.0.1\eclipse\jre\bin**. You should then be able to run the Eclipse IDE by double-clicking the **eclipse.exe**.

2. How do we have the **Shortcut to Eclipse** point to the appropriate workspace?

If you do not specify otherwise, Eclipse (installed at **C:\Program Files\eclipse**) creates a default workspace in a subdirectory as subdirectory of whatever directory the executable was installed in. For instance, in the default installation, this directory would be **C:\Program Files\eclipse\workspace**. This workspace directory is used as the default storage area for your projects as well as for holding any required information about your Eclipse projects.

3. How do we run shared/multi-workspace installs?

This is only required in special cases; see the TAs if you need a shared environment.

For shared or multi-workspace installs you must explicitly specify the location for your workspace using the "-data" command line argument; for example,

eclipse -data c:\myworkspace -vm c:\j2sdk1.5\jre\bin\javaw

To create a Windows shortcut to an installed Eclipse and a particular workspace (e.g., **C:\myworkspace**):

1. Navigate to **eclipse.exe** in Windows Explorer and use Create Shortcut on the content menu.
2. Select the shortcut and edit its Properties. In the Target: field append the -data option followed by the location of the workspace (e.g., "-data c:\myworkspace").

Opening this shortcut launches Eclipse on the specified workspace.