

# Eclipse Download and Installation (for Python) Instructions

## Install Python and Java before installing Eclipse.

You may want to print these instructions before proceeding, so that you can refer to them while downloading and installing Eclipse. Or, just keep this document in your browser. You should read each step completely before performing the action that it describes. This document shows downloading and installing Eclipse (Oxygen) on Windows 7 in Summer 2017. **You should download and install the latest version of Eclipse.** The current latest (as of Summer 2017) is Eclipse (Oxygen).

## Eclipse: (Oxygen)

The Eclipse download requires about 300 MB of disk space; keep it on your machine, in case you need to re-install Eclipse. When installed, Eclipse requires an additional 330 MB of disk space.

## Downloading

1. Click [Eclipse](#)

The following page will appear in your browser. In this handout we will download **Eclipse IDE for Eclipse Committers** for Windows 32 Bit; if your computer uses Windows, continue below; otherwise choose either **Mac Cocoa** or **Linux** instead.

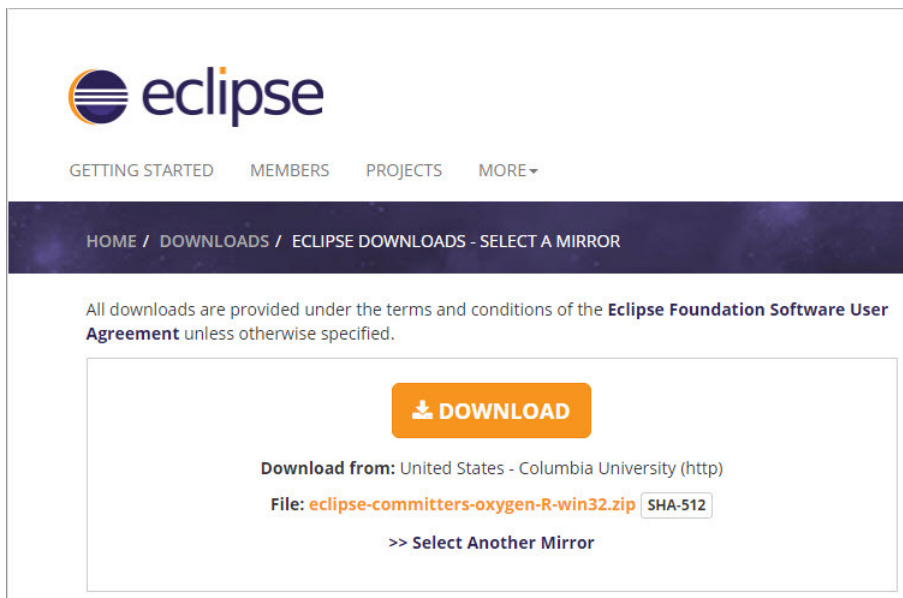
The screenshot shows the Eclipse website's download page for Oxygen R Packages. The browser address bar shows [www.eclipse.org/downloads/packages/release/Oxygen/R](http://www.eclipse.org/downloads/packages/release/Oxygen/R). The page has a navigation bar with links like GETTING STARTED, MEMBERS, PROJECTS, and MORE. A sidebar on the left lists various releases including Oxygen, Neon, Mars, Luna, Kepler, Juno, Indigo, Helios, Galileo, and Ganymede. The main content area is titled 'Eclipse Oxygen R Packages' and contains a table of download links for different IDEs.

Release Name	Size	Downloads	Windows	Mac Cocoa	Linux
Eclipse IDE for Java EE Developers	328 MB	Downloaded 1,106,580 Times	32-bit 64-bit	64-bit	32-bit 64-bit
Eclipse IDE for Java Developers	178 MB	Downloaded 430,877 Times	32-bit 64-bit	64-bit	32-bit 64-bit
Eclipse IDE for C/C++ Developers	200 MB	Downloaded 125,499 Times	32-bit 64-bit	64-bit	32-bit 64-bit
Eclipse for PHP Developers	189 MB	Downloaded 58,994 Times	32-bit 64-bit	64-bit	32-bit 64-bit
Eclipse IDE for JavaScript and Web Developers	169 MB	Downloaded 29,656 Times	32-bit 64-bit	64-bit	32-bit 64-bit
<b>Eclipse IDE for Eclipse Committers</b>	299 MB	Downloaded 28,396 Times	32-bit 64-bit	64-bit	32-bit 64-bit

It is critical that Java, Python, and Eclipse are either all 32 Bit or are all 64 Bit (and only if your Machine/OS supports 64 Bit): I think it easiest to use 32 Bit for everything.

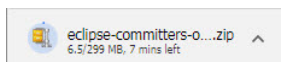
2. Click the **32-Bit** (after Windows) to the right of the **Eclipse IDE for Eclipse Committers**.

You will see the following page (don't worry about the name of the institution underneath the orange **DOWNLOAD** button).

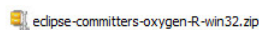


3. Click the orange **DOWNLOAD** button. The site named here, in orange to the right of the button: **United States - Columbia University (http)** is the random one chosen by the download page this time; yours may differ.

This file should start downloading in your standard download folder, while showing a splash screen about donating to Eclipse. This file is about 300 Mb so it might take a while to download fully if you are on a slow internet connection (it took me about 5 minutes over a cable modem). Don't worry about the exact time as long as the download continues to make steady progress. In Chrome progress is shown on the bottom-left of the window, via the icon



The file should appear as



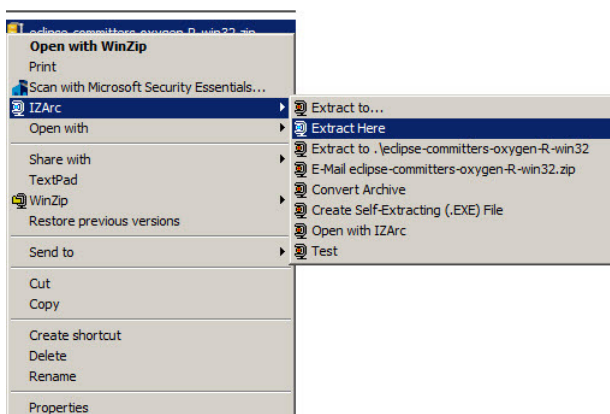
Terminate the tab browsing this webpage.

4. Move this file to a more permanent location, so that you can install Eclipse (and reinstall it later, if necessary).
5. Start the **Installing** instructions directly below.

## Installing (for Python)


### Python and Java should be installed before installing Eclipse

1. Unzip **eclipse-committers-oxygen-R-win32.zip**, the file that you just downloaded and moved. On my machine (running Windows 7), I can
  - Right-click the file.
  - Hover over the **IZArc** command from the menu of options.
  - Click **Extract Here**



If you do not have IZArc or an equivalent unzipping program, here is the web site to download a free copy of [IZArc](#).

Unzipping this file creates a folder named **eclipse**; unzipping 250 MB can take a few minutes. You can leave this folder here or move it elsewhere on your hard disk. I recommend putting the downloaded file and resulting folder in the **C:\Program Files\** directory.

2. Create a shortcut on your desktop to the **eclipse.exe** file in this **eclipse** folder: 

On most Windows machines, you can

  - Right-press the file **eclipse.exe**
  - Drag it to the desktop.
  - Release the right button.
  - Click **Create shortcut here**

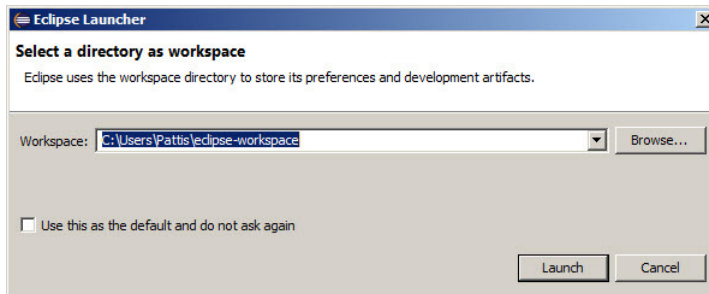
Now you are ready to perform a **one-time only** setup of Eclipse on your machine.

3. Double-click the shortcut to Eclipse that you just created above.

The following splash screen will appear



and then an **Eclipse Launcher** pop-up window will appear.



In the **Workspace** text box, your name should appear between **C:\Users\** and **\workspace**, instead of **Pattis**.

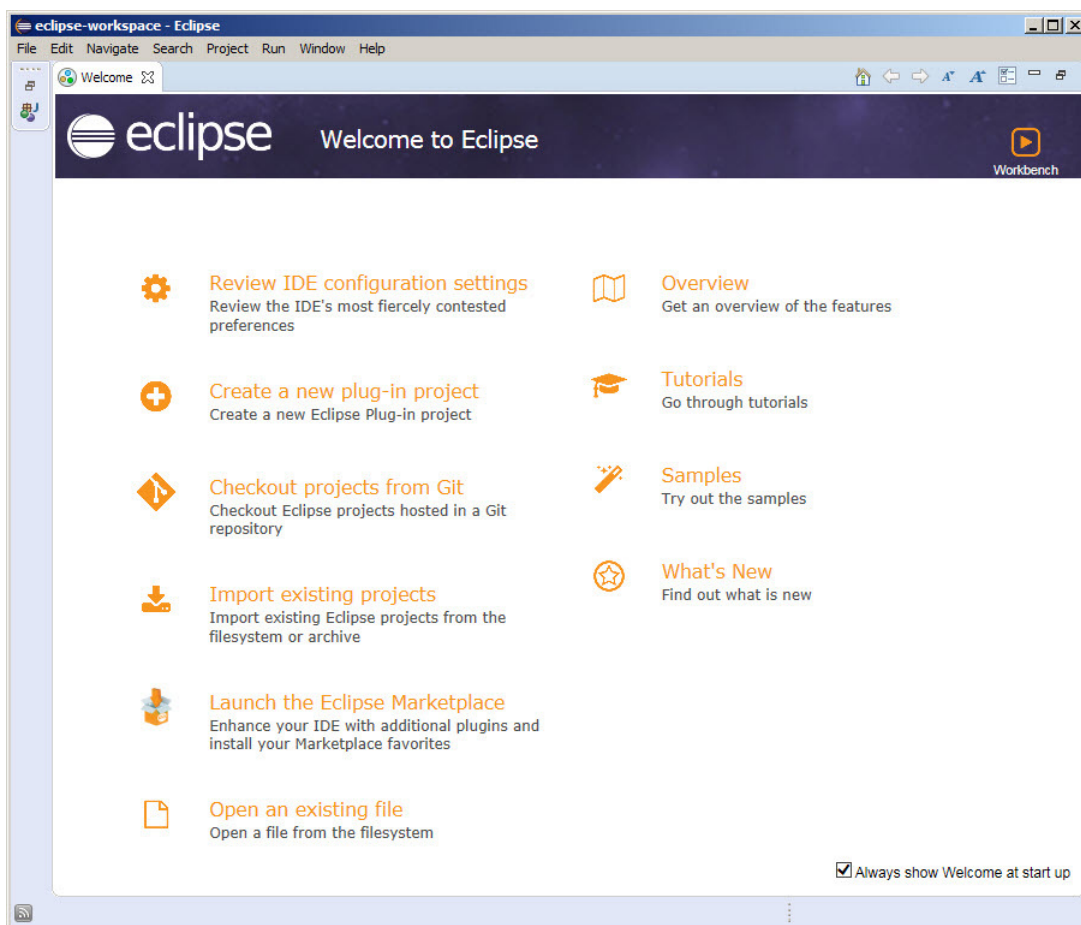
Leave **unchecked** the **Use this as the default and do not ask again** box. Although you will use this same workspace for the entire quarter (checking projects in and out of it), it is best to see this **Workspace Launcher** pop-up window each time you start Eclipse, to remind you where your workspace is located.

In fact, it is a good idea to create on your desktop a shortcut to your workspace folder; but you must click **OK** (see below) before Eclipse creates this folder and you can create a shortcut to it.

#### 4. Click **Launch**.

Progress bars will appear as Eclipse loads.

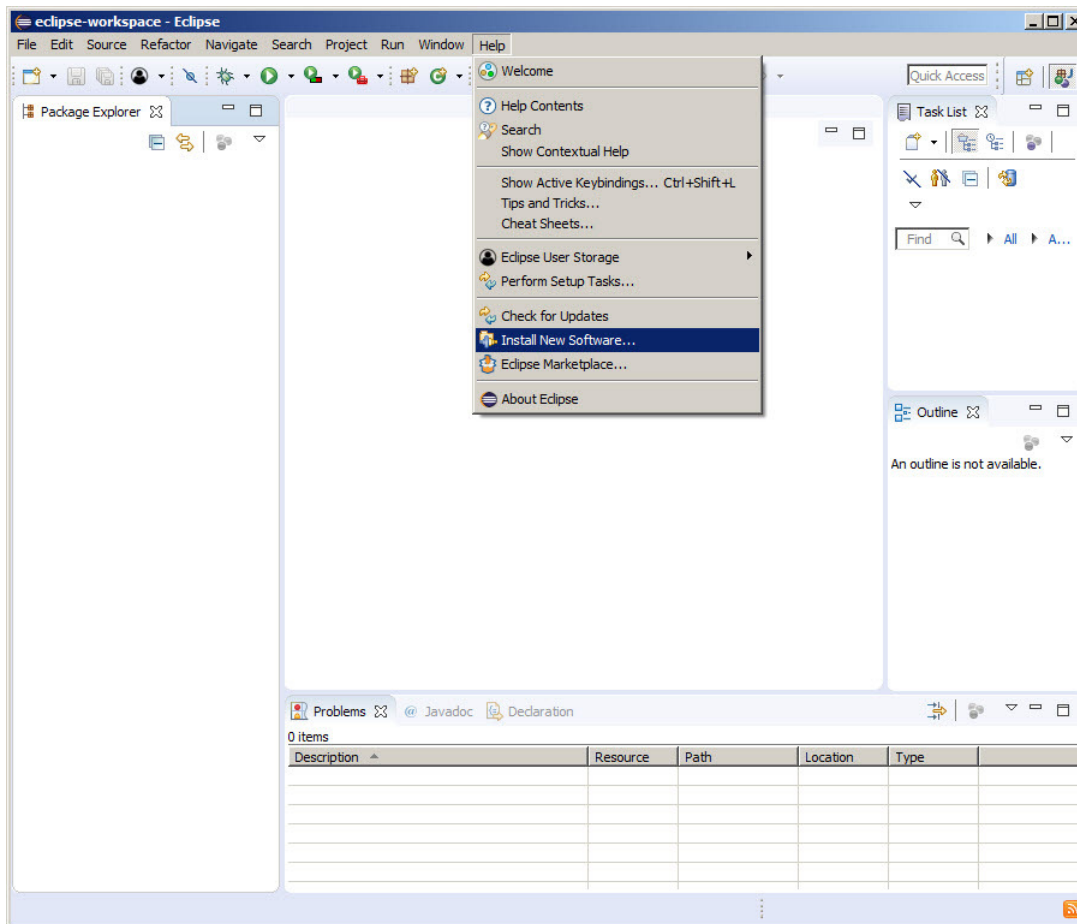
Eventually the Eclipse workbench will appear with a **Welcome** tab covering it.



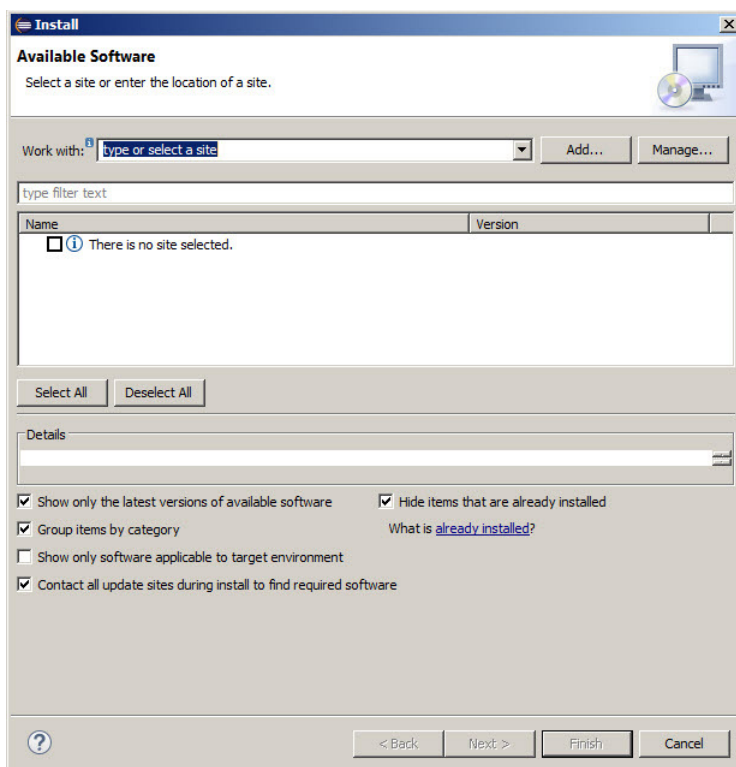
#### 5. Terminate (click **X** on) the **Welcome** tab.

You will not see the **Welcome** tab when you start Eclipse again, after this first time.

#### 6. Click **Help** (on the far right of the line below this window's blue title **eclipse-workspace - Eclipse**) and then click **Install New Software...** in its pull-down menu, as shown below.



The **Install** pop-up window will appear.

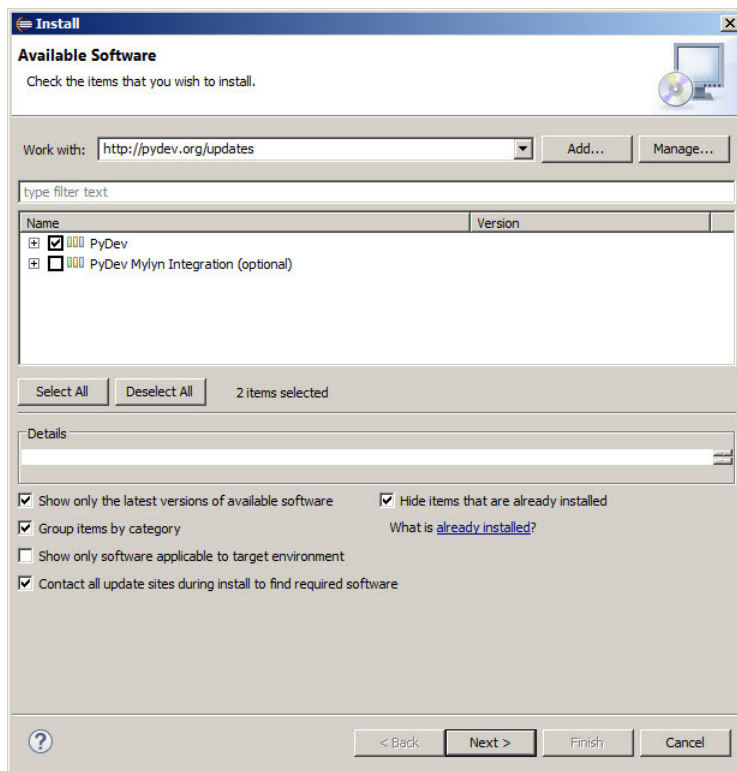


7. Enter the text (or cut/paste from this document) <http://pydev.org/updates> into the **Work with** text box and press **Enter** (if that doesn't work, try <http://www.pydev.org/updates>).

In a few seconds the information under **Name** should change from **There is no site selected** to **Pending** to

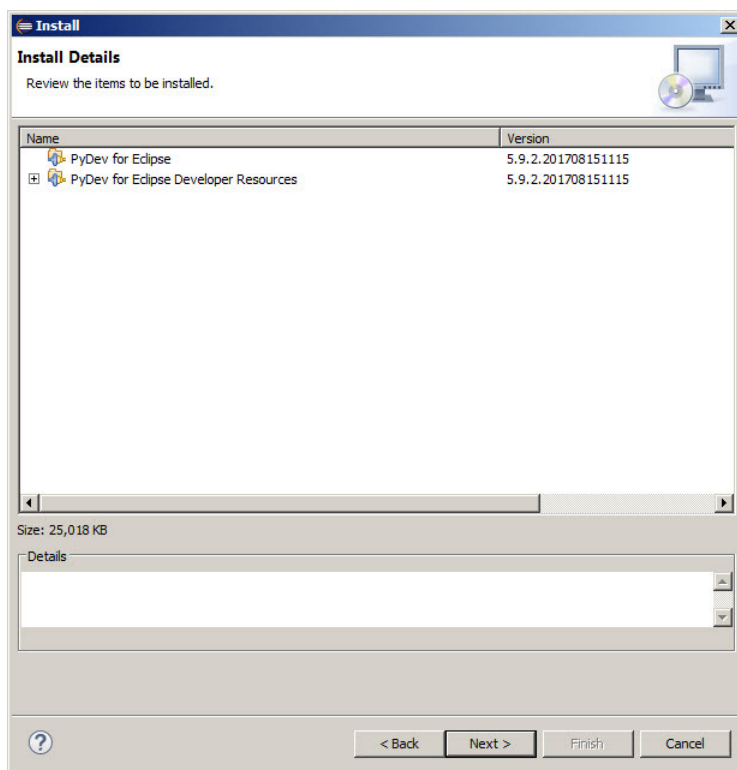
☒ PyDev  
☐ PyDev Mylyn Integration (optional)

Select only the top **PyDev** checkbox; do **NOT** select the **PyDev Mylyn Integration (optional)** box.  
 Check before proceeding that the **Install** pop-up window appears as



8. Click **Next >**

A new **Install** pop-up window will appear.



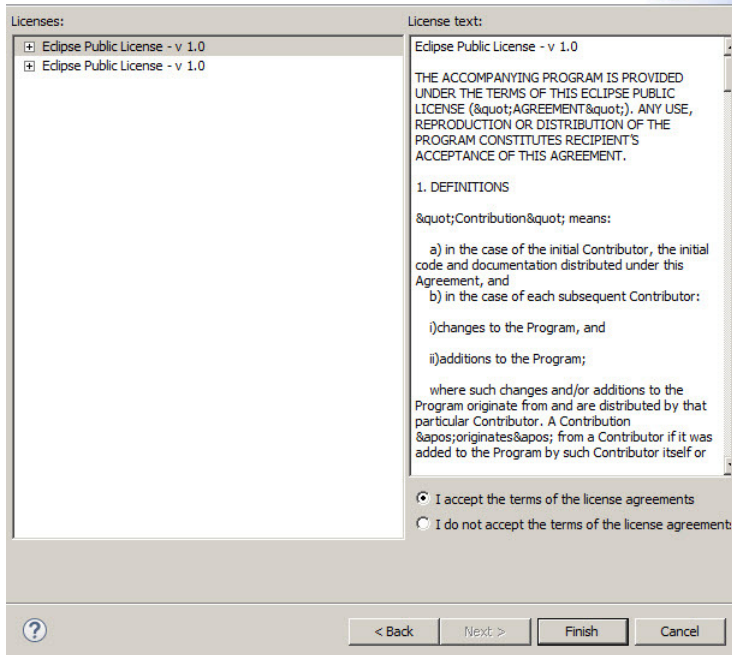
9. Click **Next >**

A new **Install** pop-up window will appear.

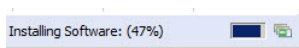
Select the **I accept the terms of the license agreement** radio button, so the window appears as

**Review Licenses**

Licenses must be reviewed and accepted before the software can be installed.

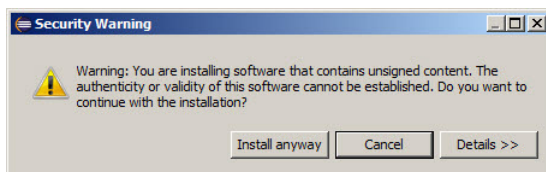
10. Click **Finish**

The lower right-hand corner of the **eclipse-workspace - Eclipse** window will show the various operations it is performing and a progress bar for each one.



Because the installer is fetching various files online, this process might take a few minutes.

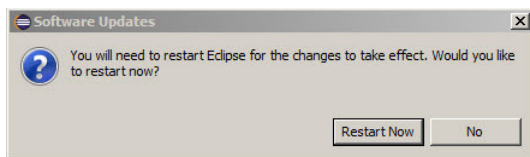
If you see a **Security Warning** pop-up window



Click **Install anyway**.

The installation will finish (the progress bar will disappear).

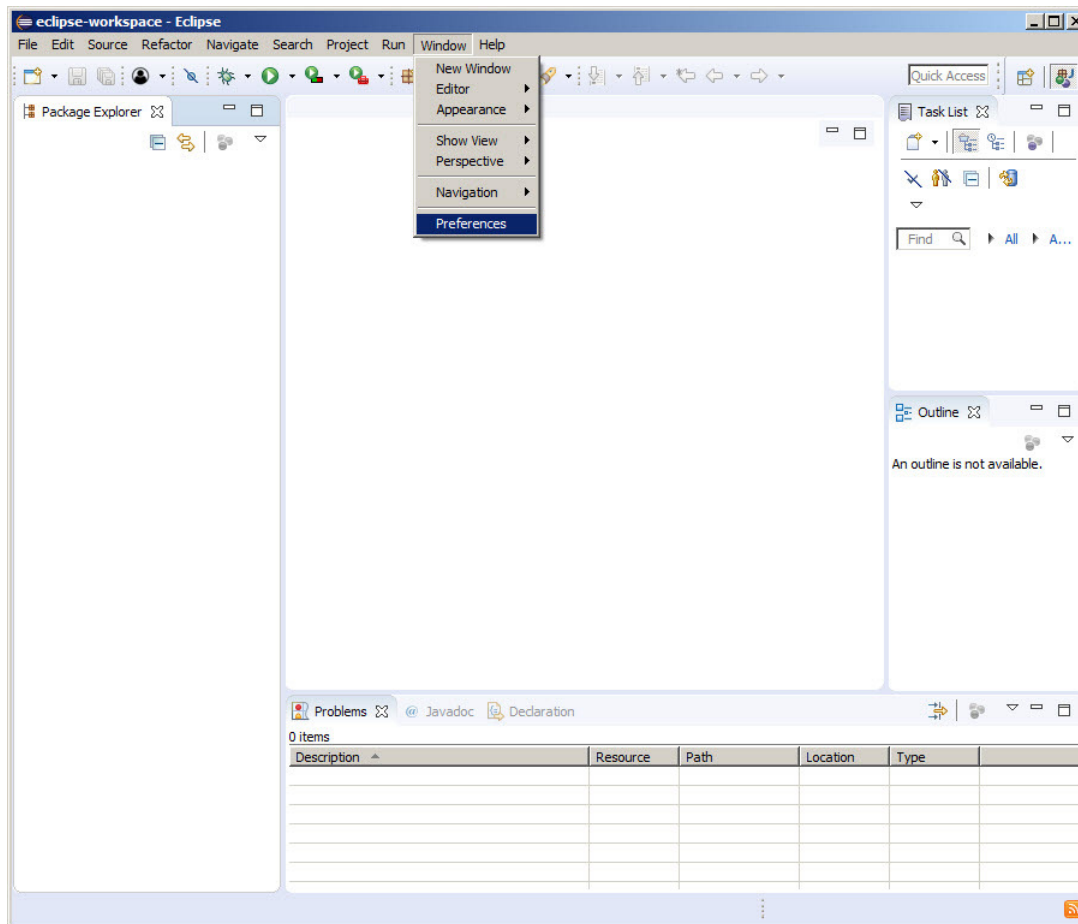
A **Software Updates** pop-up window will appear.

11. Click **Restart Now**

Eclipse will terminate and restart. As you did in step 4, terminate (click **OK** on) the **Welcome Tab**.

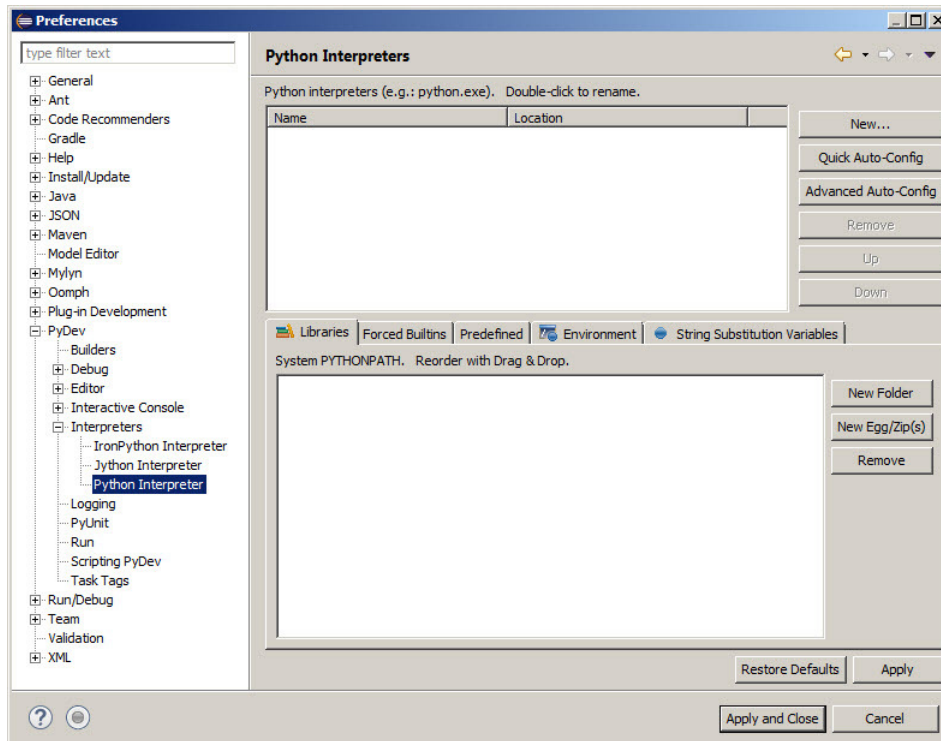
12. Click **Window** (to the left of **Help** on the far right of the line below this window's blue title **eclipse-workspace - Eclipse**) and then click **Preferences** in its pull-down menu, as shown below.





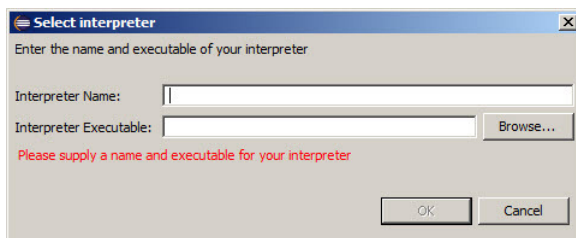
13. Drill down to select the interpreter:
  - Disclose **PyDev** by clicking the + in front of **PyDev** or double-clicking **PyDev** (after the +); the + changes to a -.
  - Disclose **Interpreters** by clicking the + in front of **Interpreters** or double-clicking **Interpreters** (after the +); the + changes to a -.
  - Select/Click **Python - Interpreter**.

The **Preferences** pop-up window should appear as follows

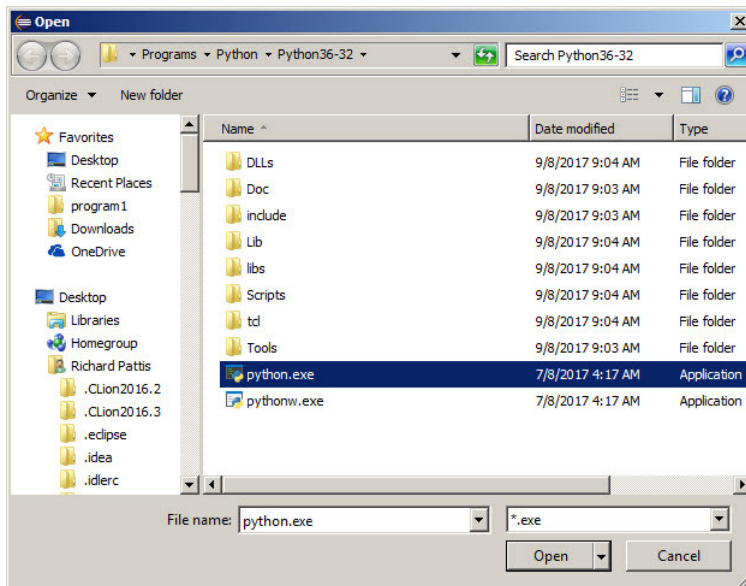


14. Click **New...** at the top-right of the top window

A **Select Interpreter** pop-up window appears.

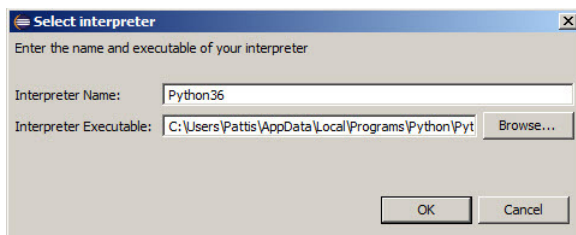


Click **Browse** and the **Open** pop-up window should show you the folder in which Python was installed (here Python 36-32).



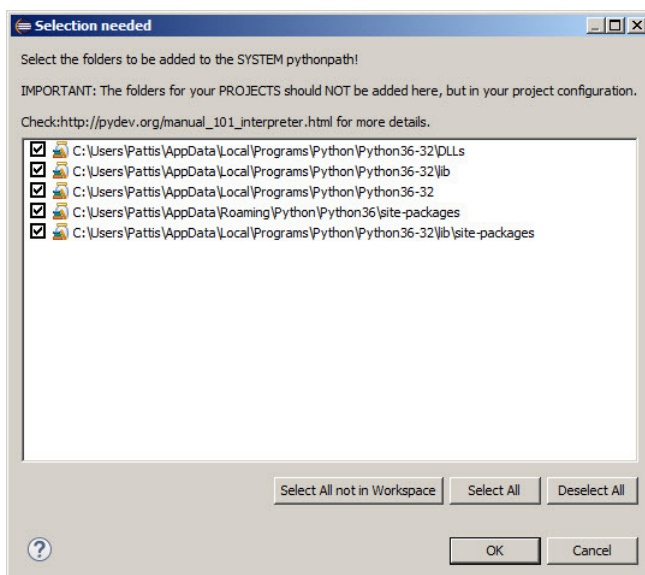
Double-click **python.exe** (or select it and click **Open**).

Change the **Name** in the **Select Interpreter** pop-up window to be simply **Python36** (or whatever version of Python is installed). The **Select Interpreter** pop-up window should appear as



15. Click **OK**.

A **Selection needed** pop-up window will appear.

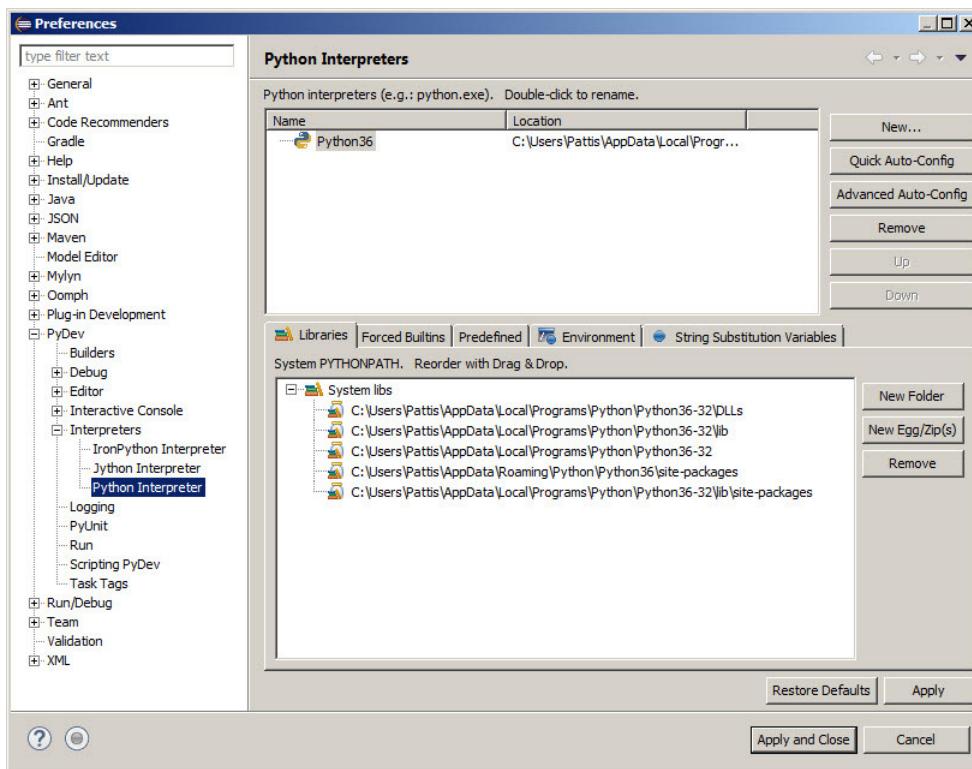


Actually, your window should have only the 4 **...AppData\Local...** checkboxes; don't worry if the **...AppData\Roaming...** one (4th of 5 in this window) is absent.

16. Click **OK**.

The **Preferences** pop-up window will be changed to

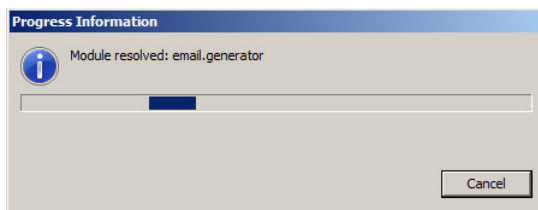




On my system the path to the Python interpreter was so long, not all of it could be seen under **Location**

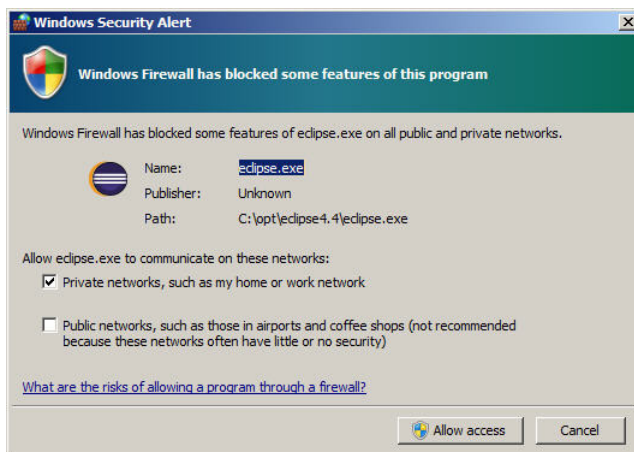
17. Click **Apply and Close**.

A **Progress Information** pop-up window will appear.



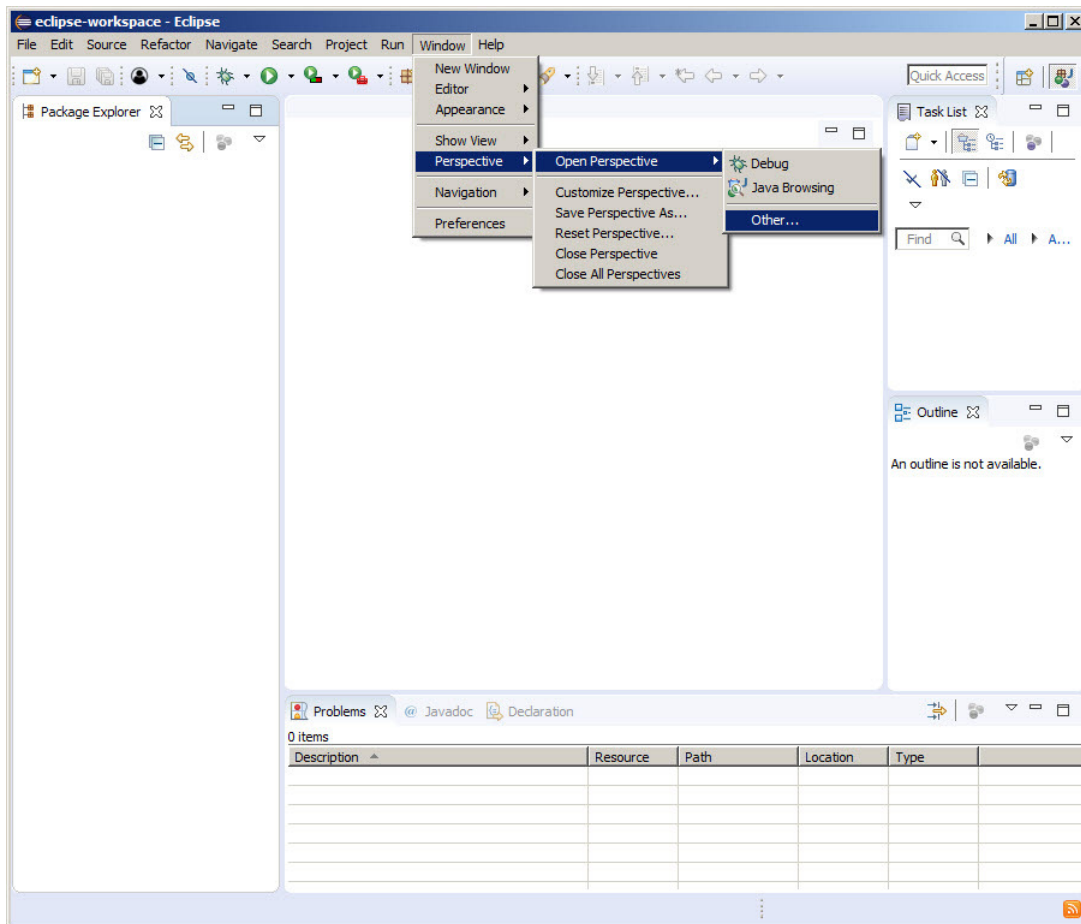
During installation, it will show the various operations it is performing and a progress bar for each one. Eventually the installation will terminate.

If the following pop-up window appears

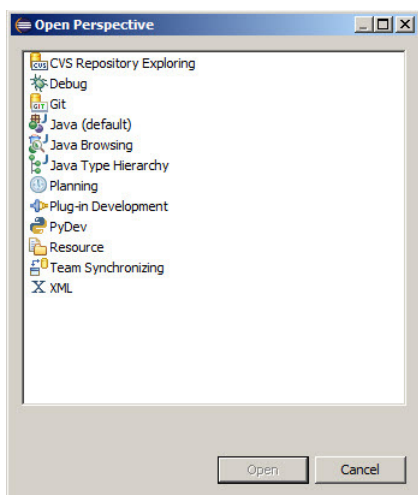


Ensure the **"Public networks, such as those in airports...."** checkbox is **NOT checked**, and then click **Allow Access**.

18. Click **Window** (to the left of **Help** on the far right of the line below this window's blue title **eclipse-workspace - Eclipse**), hover over **Perspective** then **Open Perspective** in the pull-down menu and then click **Other...** in the next pull-down menu.

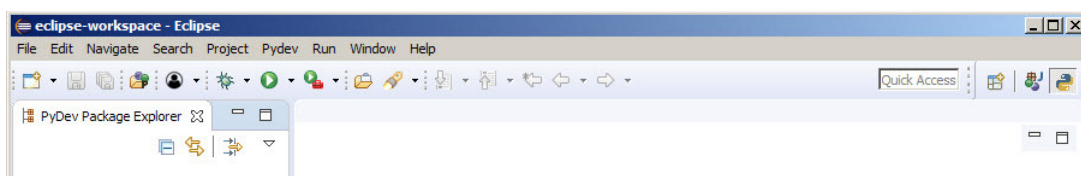


The **Open Perspective** pop-up window will appear.

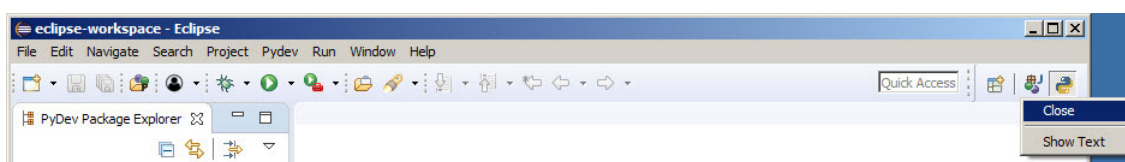


19. Double-click **PyDev** (fourth from the bottom)

The **Package Explorer** in the upper-left tab will change to **PyDev Package Explorer**, and a **Python** icon will appear to the right of the **Java** icon (on the far right).



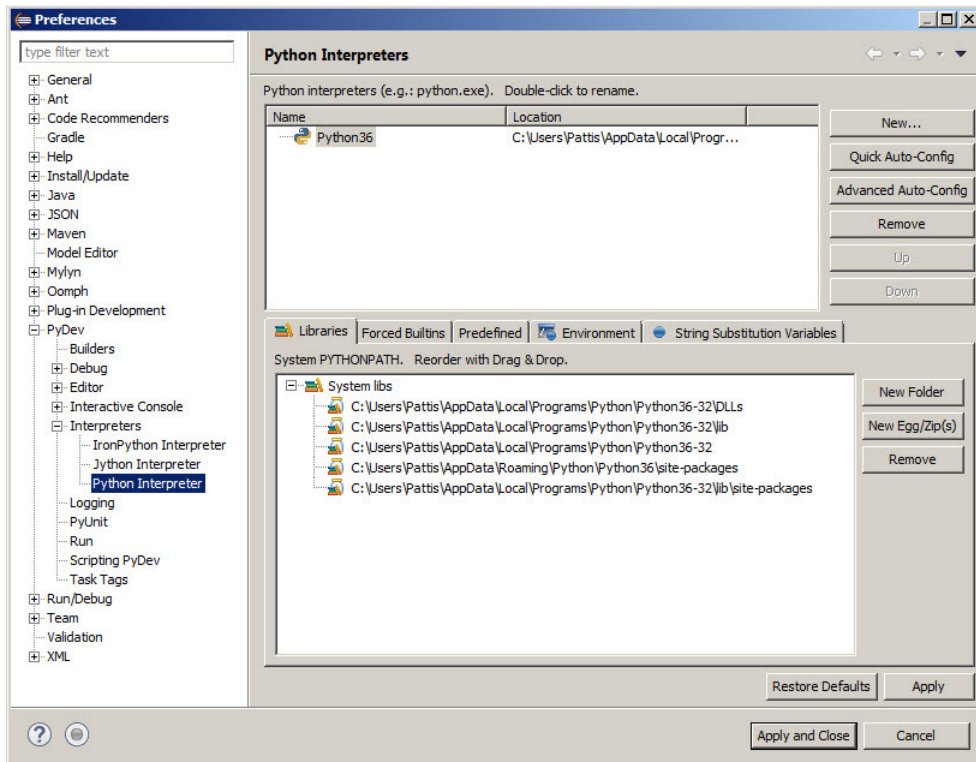
20. Right-click the **Java** icon to the left of the **PyDev** icon and select **close**



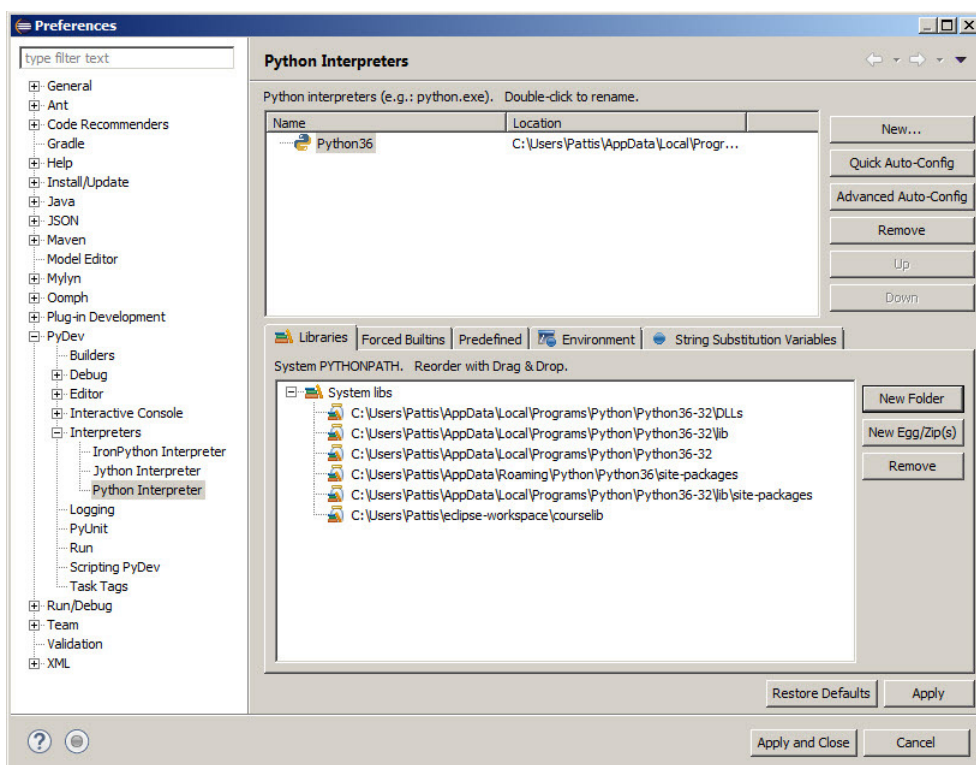
The Eclipse workbench will now have only the **PyDev** icon here and will look like



21. Locate the workspace folder created in step 3 (see `C:\Users\yourname\eclipse-workspace`) and download the [courselib.zip](#) file into this workspace and unzip it there, producing the **courselib** folder; it should contain a bunch of Python module files (ending in `.py`). From time to time you may be asked to put other course-specific Python module files into this **courselib** folder; these modules will be usable (via **import**) in all Python projects in Eclipse.
22. Inform Eclipse to use the **courselib** folder in all Python projects.
  - Select **Window | Preferences**.
  - Disclose **PyDev** by clicking the + in front of **PyDev** or double-clicking **PyDev** (after the +); the + changes to a -.
  - Disclose **Interpreters** by clicking the + in front of **Interpreters** or double-clicking **Interpreters** (after the +); the + changes to a -.
  - Select **Python - Interpreter**.



- Click the **Libraries** tab (leftmost, above the bottom pane)
  - Click the **New Folder** button (topmost, right of the bottom pane)
  - Browse to the **courselib** folder (added above) in the **Browse for Folder** pop-up window (`C:\Users\yourname\eclipse-workspace\courselib`).
  - Click the **courselib** folder selected, and then click **OK**
- Notice a sixth entry (`C:\Users\yourname\eclipse-workspace\courselib`) appears in the bottom-right pane named **System PYTHONPATH. Reorder with Drag & Drop**.
- Click **Apply** (you will see some progress bars)
- The pop-up window should now appear as



- Click **Apply and Close**

23. Terminate (click **X** on) the Eclipse window.

Eclipse is now installed for Python.

---