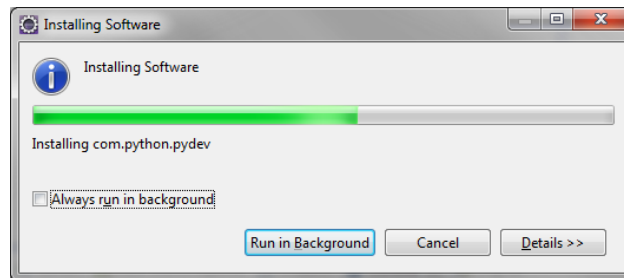
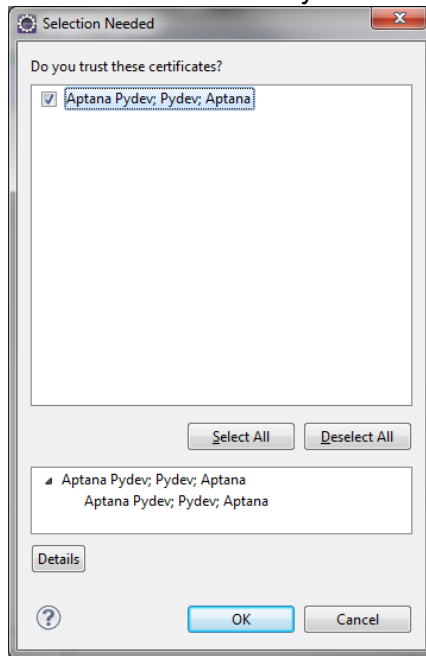


Python Development Workbook

- Eclipse Juno
 - PyDev AddOn:
 - Help > Install New Software: <http://pydev.org/updates>
 - PyDev for Eclipse, Install, Ack EULA
 - Select Certificate for PyDev..

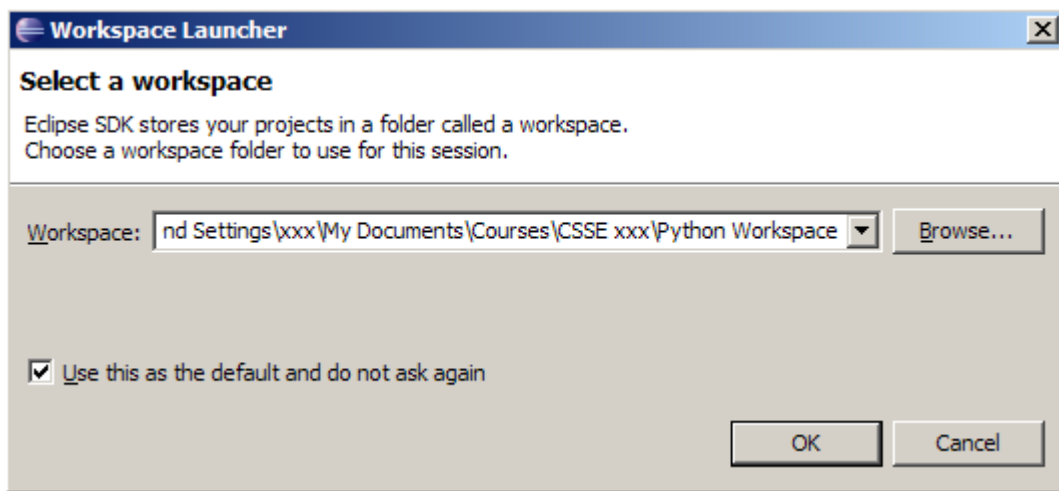


- Window > Preferences>PyDev>Interpreter>Python
 - Select all but the PySrc and python32.zip and click OK as many times as necessary to exit the preferences. The default selection should be fine.
- Create new Python workplace for eclipse (D:\Eclipse\Python)
- Import preferences for Python workspace

1 Launch Eclipse

a Launch Eclipse. A screen like this should appear, where you can choose which workspace to open.(If not, go to File → Switch Workspace → Other)

b Screenshots read 'Python 3.1', which is the old version. You will be installing Python 3.2.

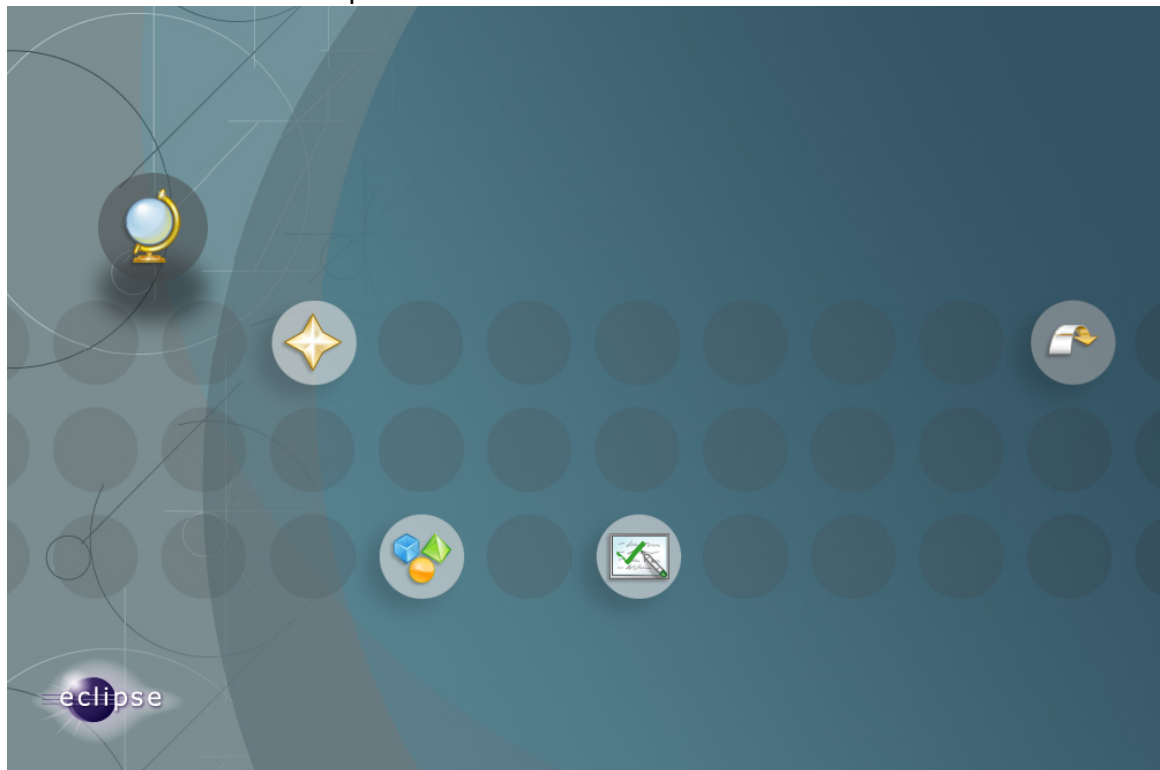


c Browse the csse120 folder which you created when installing Eclipse. Select "Use this as the default and do not ask again".

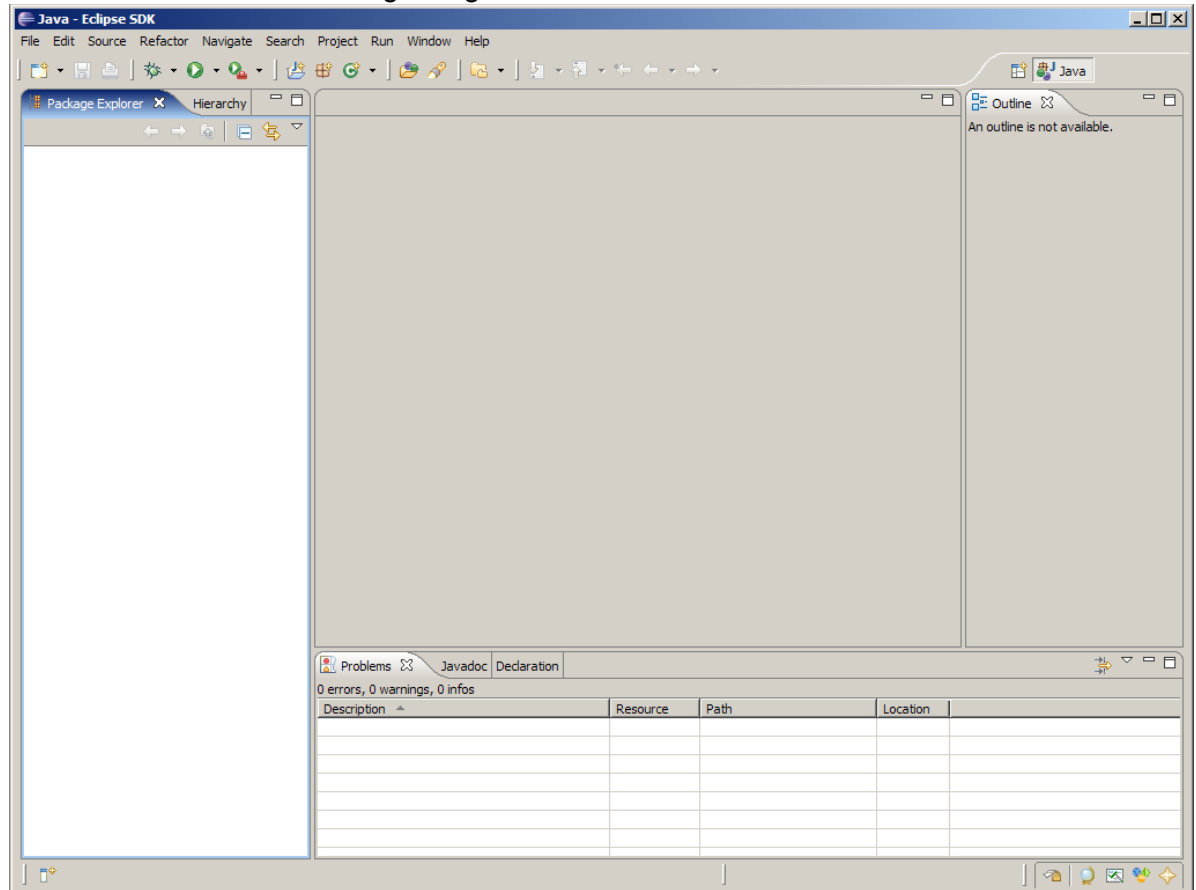
i If you do, Eclipse will automatically use this

workspace next time you open Eclipse. If you want to change the workspace later you can always go to File → Switch Workspace... to be sent back to the Workspace Launcher window.

d You should now see Eclipse's Welcome screen:



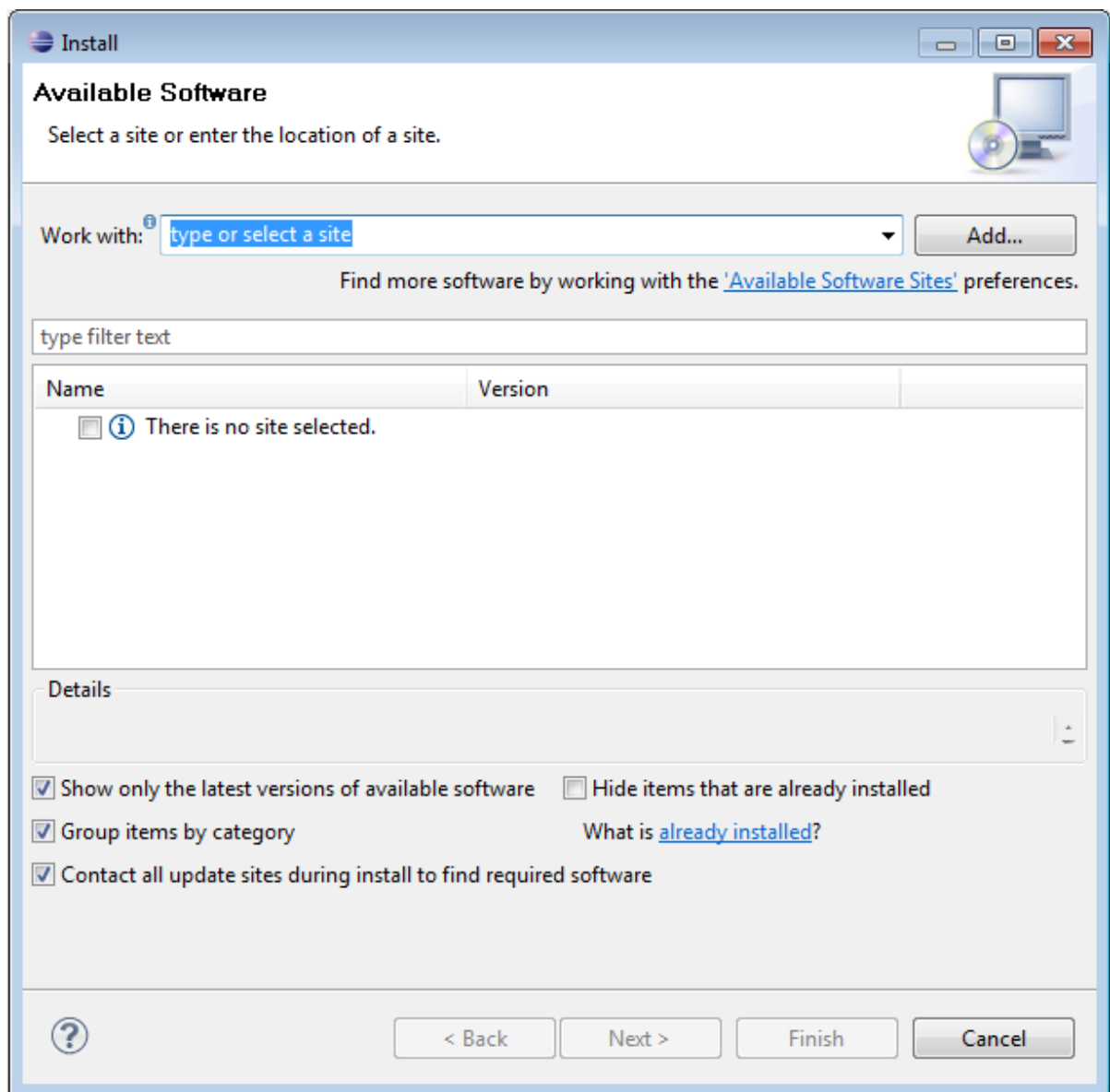
e Click on the arrow on the right to go to the workbench.



f This is where you'll do most of your work in Eclipse.

2 **Download PyDev from within Eclipse**

3 Go to Help → Install New Software

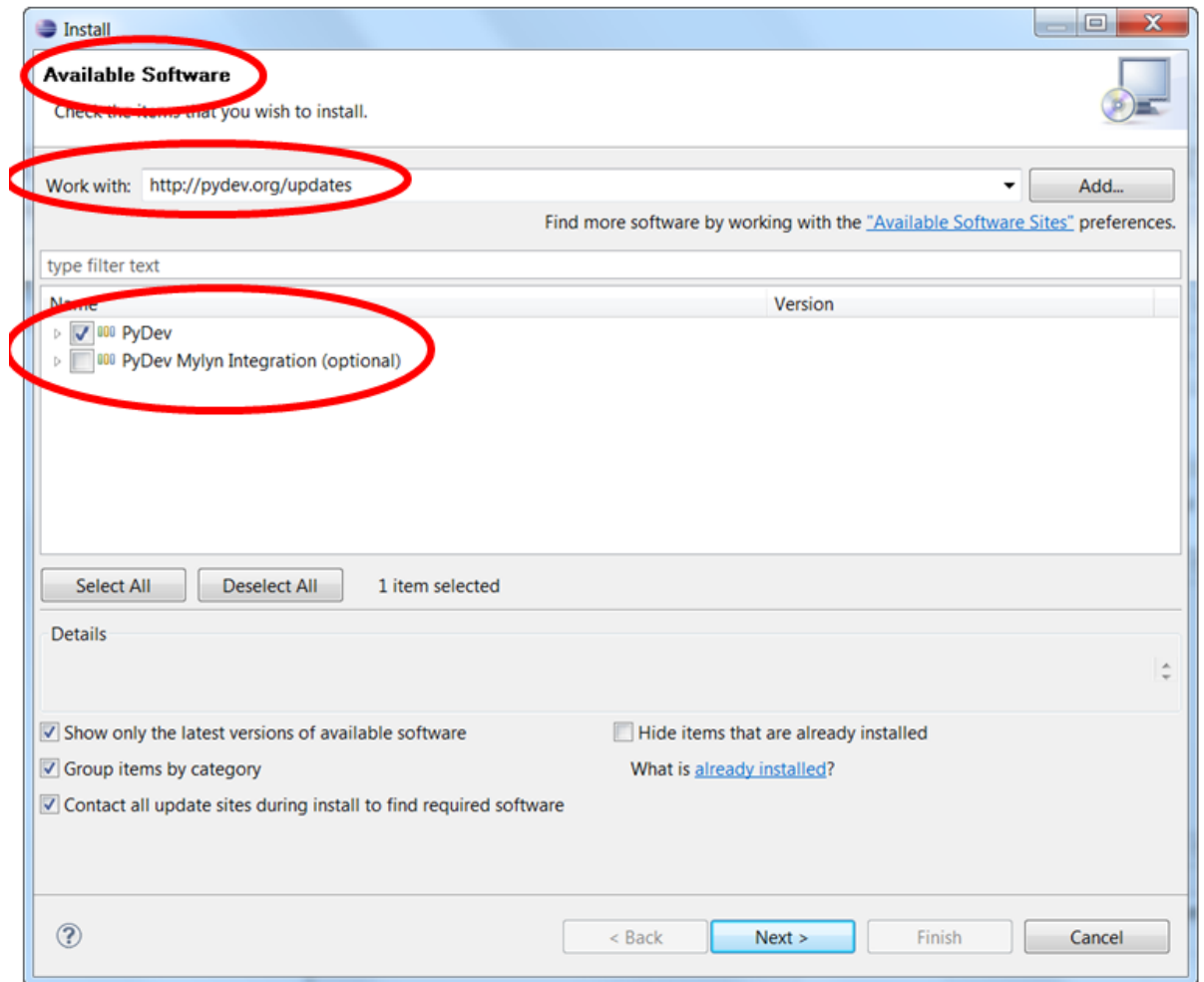


g Enter <http://pydev.org/updates> in the Work with: field.

h After several seconds, two options should appear. Select the *PyDev for Eclipse* option.

i Do not select the "PyDev Mylyn Integration" flag.

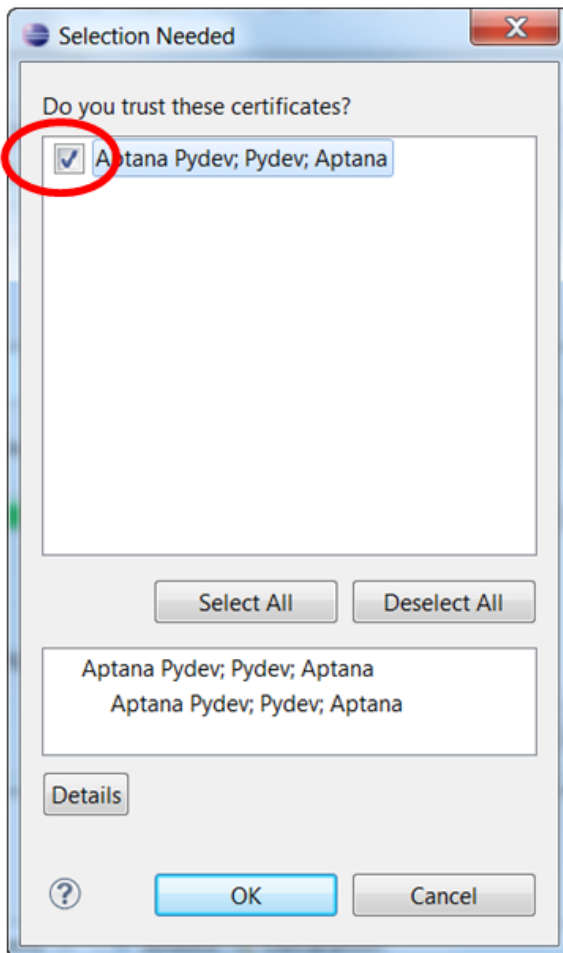
j



k Click "Next" and "OK" to continue installing PyDev.

l Select "I accept the terms of the license agreement", then click "Finish". The installer will begin to download the plug-in.

m **Note: When you see the Selection Needed dialog box, you must manually check the box before pressing okay.** If you do not, it appears that the installation is continuing, but it is not. You must uninstall PyDev, then reinstall.



n A security warning may appear asking whether you trust the software being installed- click "ok", then ensure the correct items are selected and click yes. The instillation process will continue.

o When the installation is complete, you will be asked if you want to restart Eclipse. Select "Yes". You may see a *Subclipse Usage* dialog, just uncheck the box and continue.

SVN

- 1 VisualSVN
- 2 TortoiseSVN (causes lock issues with Eclipse sooo...)
- 3 Install Software: Eclipse > Subclipse
Name: Subclipse 1.6.x (Eclipse 3.2+)
URL: http://subclipse.tigris.org/update_1.6.x

Selenium Setup

Python SetupTools

- <http://pypi.python.org/pypi/setuptools>
- Unpacks to \Python27\Scripts
- run: **ez_setup.py**

```
C:\Python27\PySetupTools>ez_setup.py
Downloading http://pypi.python.org/packages/2.7/s/setuptools/setuptools-0.6c11-py2.7.egg
Processing setuptools-0.6c11-py2.7.egg
Copying setuptools-0.6c11-py2.7.egg to c:\python27\lib\site-packages
Adding setuptools 0.6c11 to easy-install.pth file
Installing easy_install-script.py script to C:\Python27\Scripts
Installing easy_install.exe script to C:\Python27\Scripts
Installing easy_install.exe.manifest script to C:\Python27\Scripts
Installing easy_install-2.7-script.py script to C:\Python27\Scripts
Installing easy_install-2.7.exe script to C:\Python27\Scripts
Installing easy_install-2.7.exe.manifest script to C:\Python27\Scripts

Installed c:\python27\lib\site-packages\setuptools-0.6c11-py2.7.egg
Processing dependencies for setuptools==0.6c11
Finished processing dependencies for setuptools==0.6c11
```

Python Package Index

- <http://pypi.python.org/pypi/pip/>
- <http://www.pip-installer.org/en/latest/installing.html>
- run: **python get-pip.py**

```
C:\Python27\pipInstaller>get-pip.py
Downloading/unpacking pip
  Downloading pip-1.1.tar.gz (95Kb): 95Kb downloaded
  Running setup.py egg_info for package pip

    warning: no files found matching '*.html' under directory 'docs'
    warning: no previously-included files matching '*.txt' found under
directory
'docs\_build'
    no previously-included directories found matching
'docs\_build\_sources'
Installing collected packages: pip
  Running setup.py install for pip

    warning: no files found matching '*.html' under directory 'docs'
    warning: no previously-included files matching '*.txt' found under
directory
'docs\_build'
    no previously-included directories found matching
'docs\_build\_sources'
  Installing pip-script.py script to C:\Python27\Scripts
  Installing pip.exe script to C:\Python27\Scripts
  Installing pip.exe.manifest script to C:\Python27\Scripts
  Installing pip-2.7-script.py script to C:\Python27\Scripts
  Installing pip-2.7.exe script to C:\Python27\Scripts
```

```
Installing pip-2.7.exe.manifest script to C:\Python27\Scripts
Successfully installed pip
Cleaning up...
```

Python Selenium Client

```
• pip install -U selenium
C:\Python27\Scripts>pip install -U selenium
Downloading/unpacking selenium
  Downloading selenium-2.25.0.tar.gz (2.0Mb): 2.0Mb downloaded
  Running setup.py egg_info for package selenium
    C:\Python27\lib\distutils\dist.py:267: UserWarning: Unknown distribution option: 'src_root'
      warnings.warn(msg)

    warning: no files found matching 'docs\api\py\index.rst'
Installing collected packages: selenium
  Running setup.py install for selenium
    C:\Python27\lib\distutils\dist.py:267: UserWarning: Unknown distribution option: 'src_root'
      warnings.warn(msg)

    warning: no files found matching 'docs\api\py\index.rst'
Successfully installed selenium
Cleaning up...
```

Python Java Server

- Download the server from <http://selenium.googlecode.com/files/selenium-server-standalone-2.25.0.jar>
- run: java -jar selenium-server-standalone-2.25.0.jar

Selenium IDE

Selenium IDE is a Firefox plugin that does record-and-playback of interactions with the browser. Use this to either create simple scripts, assist in exploratory testing. It can also export Remote Control or WebDriver scripts, though they tend to be somewhat brittle and should be overhauled into some sort of Page Object-y structure for any kind of resiliency. Download version [1.9.0](#) released on 24/July/2012 or view the [Release Notes](#)

Selenium Server (formerly the Selenium RC Server)

The Selenium Server is needed in order to run either Selenium RC style scripts or Remote Selenium Webdriver ones. The 2.x server is a drop-in replacement for the old Selenium RC server and is designed to be backwards compatible with your existing infrastructure. Download version [2.25.0](#)
To use the Selenium Server in a Grid configuration [see the wiki page](#).

The Internet Explorer Driver Server

This is required if you want to make use of the latest and greatest features of the WebDriver InternetExplorerDriver. Please make sure that this is available on your \$PATH (or %PATH% on Windows) in order for the IE Driver to work as expected.

Download version 2.24.2 for (recommended) [32 bit Windows IE](#) or [64 bit Windows IE](#)

Selenium Client Drivers(python selenium library/service)

In order to create scripts that interact with the Selenium Server (Selenium RC, Selenium Remote Webdriver) or create local Selenium WebDriver script you need to make use of language-specific client drivers. Unless otherwise specified, drivers include both 1.x and 2.x style drivers.

While drivers for other languages exist, these are the core ones that are supported by the main project.

| Language | Client Version | Release Date | | | |
|----------|----------------|--------------|--------------------------|----------------------------|--------------------------|
| Java | 2.25.0 | 2012-07-18 | Download | Change log | Javadoc |
| C# | 2.24.0 | 2012-06-19 | Download | Change log | API docs |
| Ruby | 2.24.0 | 2012-06-19 | Download | Change log | API docs |
| Python | 2.24.0 | 2012-06-19 | Download | Change log | API docs |

Selenium Python API/Usage

<http://pypi.python.org/pypi/selenium/>

Example

```
from selenium import webdriver
from selenium.common.exceptions import NoSuchElementException
from selenium.webdriver.common.keys import Keys
import time

browser = webdriver.Firefox() # Get local session of firefox
browser.get("http://www.yahoo.com") # Load page
assert "Yahoo!" in browser.title
elem = browser.find_element_by_name("p") # Find the query box
elem.send_keys("seleniumhq" + Keys.RETURN)
time.sleep(0.2) # Let the page load, will be added to the API
try:
    browser.find_element_by_xpath("//a[contains(@href,'http://seleniumhq.org')]")
except NoSuchElementException:
    assert 0, "can't find seleniumhq"
browser.close()
```

Documentation

[Auto Generated API](#)