

Python Installation Instructions

Installation (Windows XP)

1. Install Python 2.5.2

- a. Run Python-2.5.2.msi (available from <http://www.python.org/download/>)
- b. Follow installation procedure. We recommend installing into C:\Python25

2. Install setuptools

- a. Save ez_setup.py (available from <http://peak.telecommunity.com/DevCenter/EasyInstall>) to a local directory like C:\Temp
- b. From the Start Menu, select "Run" and type "cmd"
- c. In the command window, type:

```
C:\> cd C:\Temp  
C:\temp> C:\Python25\python.exe ez_setup.py
```

- d. You should see some output ending with the line:

```
...  
Finished processing dependencies for setuptools==0.6c8
```

- e. Add the execution path of easy_install (C:\Python25\scripts) into your PATH environment variable. (Start Menu->Right click on "My Computer" ->Select "Properties"->Advanced->Environment Variables)

3. Install packages required for the problem set using `easy_install`. Open a command window, type: `easy_install package_name`. For example,

```
easy_install PIL
```

The package will be downloaded and installed automatically. If you encounter a Visual Studio 2003 problem during the installation, just go to the web site of that package and download/install the executable instead of using the `easy_install`.

4. Run IDLE to begin. It can be found in the Start Menu under Start->Programs ->Python 2.5->IDLE (Python GUI)

Installation (Mac OS X)

1. Install Python 2.5

a. From Applications/Utilities, start a Terminal and check the Python version:

```
$python --version  
Python 2.5
```

b. If the version is less than 2.5, upgrade to Python 2.5.2:

i. If you are using Mac OS X version 10.3 or older, you will need to follow the alternate instructions at

<http://www.python.org/download/mac/>

ii. Otherwise, run the Python-2.5.2-macosx.dmg provided on the Python download page (<http://www.python.org/download/>) and follow the installation procedure.

2. Install Tcl/Tk (OS X 10.3 only)

- a. If you are using Mac OS X version 10.3 or older you must install Tcl/Tk in order for IDLE (the Python IDE) to work. You can download it here: <http://sourceforge.net/projects/tcltkaque/>

3. Install setuptools

- a. Save ez_setup.py (available from <http://peak.telecommunity.com/DevCenter/EasyInstall>) to your home directory.
- b. Run Terminal (Applications/Utilities/Terminal)
- c. In the Terminal window, type:

```
> python ez_setup.py
```

- d. You should see some output ending with the line:

```
...  
Finished processing dependencies for
```

4. Run IDLE to begin. It can be found in

Applications/MacPython-2.5/IDLE

Installation (Ubuntu Linux)

1. Install Python and setuptools

Use the Synaptic Package Manager to install the newest versions of the following packages:

python

python-setuptools

2. Run the Python shell to begin.

```
> python
```

Package Web Sites

1. Python, <http://www.python.org/download>
2. Scipy & Numpy, <http://www.scipy.org/Download>
3. PIL (Python Image Library), <http://www.pythonware.com/products/pil/>
4. Pylab (Matplotlib), <http://matplotlib.sourceforge.net/>