

Programing language

You can use any programing language. However, we recommend using Python as all the exercise solutions will be in Python.

Python

There is a Python2 and a Python3 version. For the exercise solutions we will use Python3 version. The documentation for both can be found here:

<https://www.python.org>

The differences between the two versions are mostly in the syntax of the print function, integer division, etc. For more info see, e.g.,

http://sebastianraschka.com/Articles/2014_python_2_3_key_diff.html

How to use Python on different machines:

- For Unix users: <https://docs.python.org/3/using/unix.html>
- For Mac users: <https://docs.python.org/3/using/mac.html>
- For Windows users: <https://docs.python.org/3/using/windows.html>

We recommend using Unix or Mac, for Windows consult the above documentation. Another option is to install a Linux virtual machine on Windows.

Python packages

Not all packages are installed by default! To install a package see:

<https://packaging.python.org/tutorials/installing-packages/>

Some standard packages are: numpy, random, scipy, matplotlib (for plotting)

For debugging

If there is a syntax error the Python compiler will complain and should give you an indication as to what is wrong. In principle, no additional software is needed. However, if you think you need it some information about the additional debugging tools can be found here:

<https://wiki.python.org/moin/PythonDebuggingTools>