Hi Py

Welcome Guide v1.0

Python For Everyone

HiPy was started in July 2016 by a group of researchers within the Faculty of Science and Engineering at University of Liverpool. The initiative is a response to a large demand from undergraduates and staff to learn coding skills which are highly prized by employers. Our mission is simple:

Build an open, welcome community for anyone who wants to learn Python.

Installing Anaconda

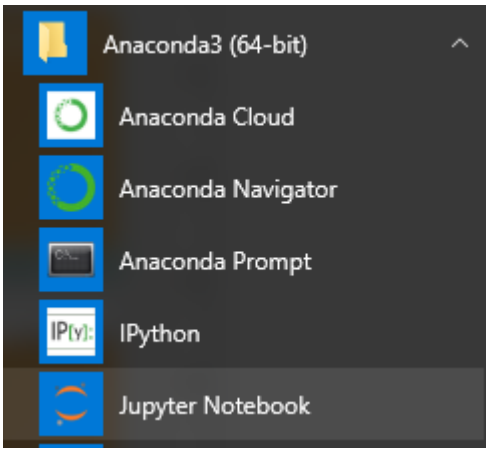
The easiest way to install Python along with all the packages we'll need to work with is through Anaconda. You can find the download **here.**

This will install Python, as well as the Jupyter notebook (which we use to write the guides) and Spyder, a work environment that you may find easier to use.

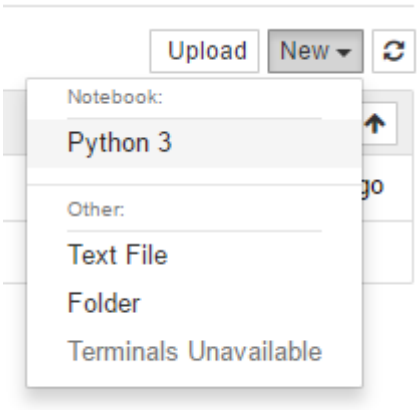
All of these programs, as well as an easy to use package manager, can be accessed using the Anaconda Navigator, which is also included in the installation.

Using Jupyter Notebook

Jupyter Notebooks let you write and annotate code as well as add images, equations and links. This is how we write our guides, so if you download them and open them in the notebook, you can tweak the code to figure things out.



Step 1: Launch Jupyter Notebook



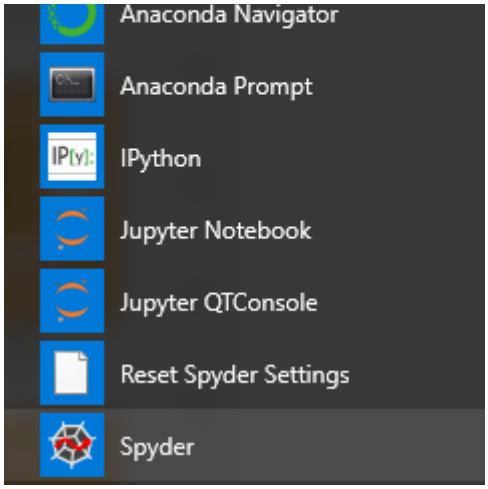
Step 2: Make a new Python 3 Notebook

```
In [2]: print("Hello World!")
        Hello World!
```

Step 3: You're ready to code! SHIFT + ENTER executes a cell, and you can save your progress by clicking File -> Save and Checkpoint.

Using Spyder

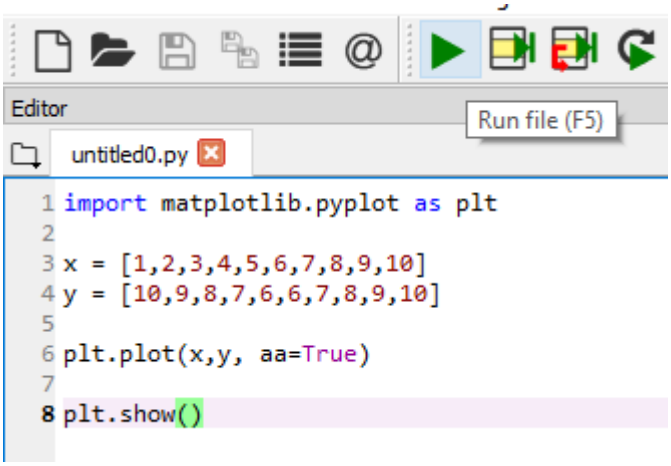
Spyder is a working environment with advances testing and running tools, as well as features like the variable explorer that might help out.



Step 1: Launch Spyder

```
In [1]: print("Hello World")
Hello World
```

Step 2: You can write simple one line commands in the console (bottom left) and run them by pressing ENTER.



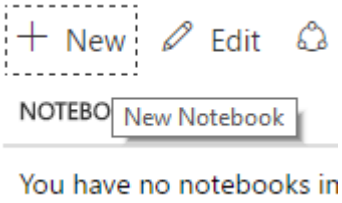
Step 3: You can also write more lengthy code using the script editor, and execute it by pressing F5.

Using Azure Notebooks

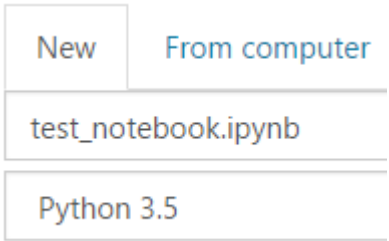
If you are having problems with Anaconda, it might be easier for you to run Python online using Microsoft's Azure Notebook Platform, which can be found **here.**

Step 1: Sign into your Microsoft account by clicking the Sign In button.

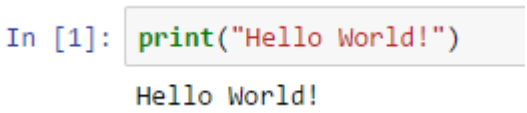
Step 2: Create a new library by clicking on the plus symbol.



Step 3: Create a new notebook by clicking on the "New" button.



Step 4: Name your notebook (and add .ipynb to the end), and select Python 3.5 as the language



Step 5: You're ready to go! This notebook works as a jupyter notebook.

You're ready to go!

Now you have Python installed, have a play with it! See what features your program has, and get comfortable with the interface. When you're ready to get started, move onto the guide "Getting Started With Python 1: The Basics".

If you ever need help with anything Python related, check out our Slack channel here.

Good luck and Happy coding!