

# **Jupyter Notebooks**

Kernels and Markdown

Paul Scott

## **Kernels**

When you work in Jupyter, you are working in a 'kernel'. The kernel allows processes in the notebook to be executed in a certain programming language.

Jupyter can interpret several languages but in our course it uses a Python kernel, interpreting code as being written in Python.

All the 'codespace' sections in the notebook are where Python code is written, stored, and run from.

The notebook's kernel can be controlled using the Kernel tab within Jupyter.

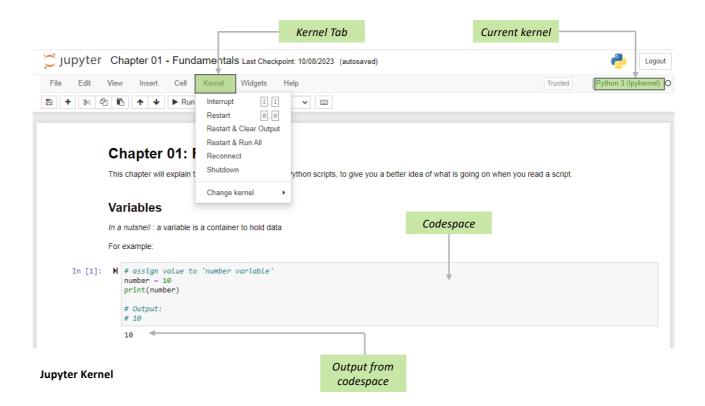
From this tab you can perform various actions. The most useful are:

#### Interrupt

+ If you're code is taking too long to run or is stuck in an infinite loop, this will stop the code from running.

#### Restart

 When code is run it's output is displayed, you may wish to have all codespaces run, or clear any outputs to clean up the notebook. This may be done using restart.



### Markdown

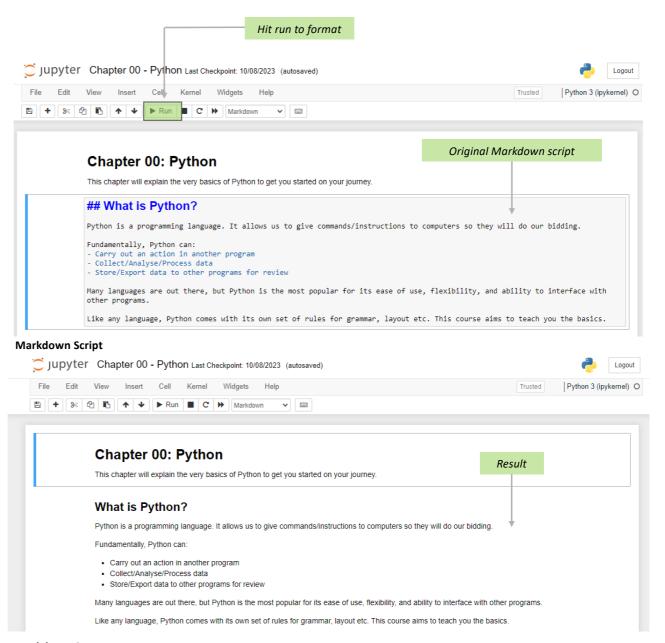
Markdown is a programming language that allows formatted text to be shown in the Jupyter Notebook, such as headings, bullet points, bold text, etc.

You may accidentally access the source code when working in Jupyter by double-clicking the area it is written.

If this happens, just run the Markdown space and it will reformat.

A cheat sheet if you want to create your own Markdown spaces can be found here:

https://github.com/adam-p/markdown-here/wiki/Markdown-Cheatsheet



Markdown Output