

### Command Mode - Esc to enter

|                      |                                                           |
|----------------------|-----------------------------------------------------------|
| Up/Down Arrow Keys   | Navigate Cells                                            |
| A                    | Insert Cell Above                                         |
| B                    | Insert Cell Below                                         |
| Shift Tab            | Docstring for object. Press again to cycle docstring type |
| F                    | Find and Replace                                          |
| O                    | Toggle Output                                             |
| Shift Up/Down Arrows | Select Cells Above/Below                                  |
| Shift M              | Merge Multiple Cells                                      |
| Ctrl Shift -         | Split cell                                                |
| y                    | Change to code                                            |
| m                    | Change to markdown                                        |
| Number 1-6           | Change to heading                                         |
| c                    | Copy a cell                                               |
| x                    | Cut a cell                                                |

### Whilst holding Entr - Running Cells

|       |                                |
|-------|--------------------------------|
| Shift | Run Cell and Select Below      |
| Alt   | Run Cell and Insert below      |
| Ctrl  | Run Cell and stay on same cell |

### After pressing Esc - Kernel Commands

|    |           |
|----|-----------|
| ii | Interrupt |
| 00 | Restart   |

### Whilst Holding Control

|         |            |
|---------|------------|
| a       | Select all |
| z       | Undo       |
| Shift Z | Redo       |
| ]       | Indent     |
| [       | Dedent     |

### Typed Tips

|                                                                                                                        |                                                      |
|------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| jupyter nbconvert --to script<br>NOTEBOOK_NAME.ipynb                                                                   | Convert to other formats (script converts to Python) |
| from IPython.core.interactiveshell import InteractiveShell<br>InteractiveShell.ast_node_interactivity = "all"          | Multiple outputs in the same cell                    |
| from IPython.core.display import display, HTML<br>display(HTML("<style>.container { width:95% !important; }</style>")) | Change width of current notebook                     |
| import sys<br>!{sys.executable} -m pip install numpy                                                                   | Import package in current notebook                   |

### Cell Magic Commands, %% character prefix

|        |                                                                                 |
|--------|---------------------------------------------------------------------------------|
| %%time | Place at the top of a cell to check how long the cell takes to execute          |
| %%heat | Place at the top of a cell to check how long each line of code takes to execute |
| %%bash | Run cells as bash script                                                        |

### Line Magic Commands, % prefix

|                     |                                                             |
|---------------------|-------------------------------------------------------------|
| %lsmagic, %quickref | List all available magic commands, describe magic commands  |
| %pastebin x-y       | Create a url code from current Jupyter Notebook cell x to y |

### Line Magic Commands, % prefix (cont)

|                    |                                                                                                                                  |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------|
| %whos              | Returns the variables present in the global space along with its type. Pass arguments to return variables of a specific type     |
| %automagic         | Make magic functions callable without having to type the initial %.                                                              |
| %pdb, %pdb off     | Control automatic calling of the pdb interactive debugger.                                                                       |
| %pip               | Install the python module using the pip package manager in the jupyter notebook                                                  |
| %dhist             | History of directories visited in the notebook                                                                                   |
| %history           | The history of commands which were executed in a notebook.                                                                       |
| %precision         | Sets the precision of floating point numbers                                                                                     |
| %run ./swarm.ipynb | Lets us run the python file or a different jupyter notebook file in the jupyter notebook                                         |
| %env               | Set Environment Variables<br>You can manage environment variables of your notebook without restarting the jupyter server process |



By **datamansam**

[cheatography.com/datamansam/](https://cheatography.com/datamansam/)

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