

### 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

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

### Cell Magic Commands, %% character prefix

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

### Line Magic Commands, % prefix

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

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

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