Jupyter Notebook

Here's a brief of the concepts in the notebook.

**Headings**

* # for the titles
* ## for the main headings
* ### for the subheadings
* #### for the smaller subheadings
* ##### for the italic subheadings

**Emphasis**

* \_\_string\_\_ or \*\*string\*\* for bold text
* \_string\_ or \*string\*  for italic text

**Monospace fonts**

* A back single quotation mark ` on both sides to get monospace fonts

**Line breaks**

* <br> wherever you want a line break, as the notebook sometimes doesn`t give you the required line break where you want it

**Indenting**

* > to indent the text
* >> for further indenting it, and so on

**Bullets and numbering**

* A single dash, i.e. -  followed by two spaces to make bullet points
* A number and a dot followed by a space, i.e. 1. to make numbered lists

**Colouring**

* <font color = blue, yellow, red, pink, green, etc.> String </font> to give your font any colour that you want

**LaTeX Equations**

* $ on both the sides of the text to write LaTeX equations

Next, it is also crucial that you know about the various shortcuts while using the Jupyter Notebook.

**Command mode shortcuts**

* Esc: To go into command mode
* Enter: To go back to edit mode
* M: To convert a cell to a markdown cell
* Y: To convert a cell back to a code cell
* A: To insert a new cell above
* B: To insert a new cell below
* D + D: To delete cell
* Z: Undo the last operation
* F: To find and replace on your code
* Shift + Up/Down: To select multiple cells
* Space: Scroll notebook downwards
* Shift + Space: Scroll notebook upwards

**Edit mode shortcuts**

* Shift + Enter: To execute the code in the current cell and go to the next cell
* Alt + Enter: To execute the code in the current cell and insert new cell below
* Shift + Tab: To get a brief documentation of the object that you have just typed in the coding cell
* Ctrl + Shift + -: To split the cell at the cursor
* Shift + M: To merge selected cells

**Keyboard shortcuts**

The IPython Notebook has two different keyboard input modes. **Edit mode** allows you to type code/text into a cell and is indicated by a green cell border. **Command mode** binds the keyboard to notebook level actions and is indicated by a grey cell border.

**MacOS modifier keys:**

* ⌘ : Command
* ⌃ : Control
* ⌥ : Option
* ⇧ : Shift
* ↩ : Return
* ␣ : Space
* ⇥ : Tab

**Command Mode (press Esc to enable)**

* ↩ : enter edit mode
* ⇧↩ : run cell, select below
* ⌃↩ : run cell
* ⌥↩ : run cell, insert below
* Y : to code
* M : to markdown
* R : to raw
* 1 : to heading 1
* 2 : to heading 2
* 3 : to heading 3
* 4 : to heading 4
* 5 : to heading 5
* 6 : to heading 6
* ↑ : select cell above
* K : select cell above
* ↓ : select cell below
* J : select cell below
* A : insert cell above
* B : insert cell below
* X : cut selected cell
* C : copy selected cell
* ⇧V : paste cell above
* V : paste cell below
* Z : undo last cell deletion
* D,D : delete selected cell
* ⇧M : merge cell below
* S : Save and Checkpoint
* ⌘S : Save and Checkpoint
* L : toggle line numbers
* O : toggle output
* ⇧O : toggle output scrolling
* Esc : close pager
* Q : close pager
* H : show keyboard shortcut help dialog
* I,I : interrupt kernel
* 0,0 : restart kernel
* ␣ : scroll down
* ⇧␣ : scroll up
* ⇧ : ignore

**Edit Mode (press Enter to enable)**

* ⇥ : code completion or indent
* ⇧⇥ : tooltip
* ⌘] : indent
* ⌘[ : dedent
* ⌘A : select all
* ⌘Z : undo
* ⌘⇧Z : redo
* ⌘Y : redo
* ⌘↑ : go to cell start
* ⌘↓ : go to cell end
* ⌥← : go one word left
* ⌥→ : go one word right
* ⌥⌫ : delete word before
* ⌥⌦ : delete word after
* Esc : command mode
* ⌃M : command mode
* ⇧↩ : run cell, select below
* ⌃↩ : run cell
* ⌥↩ : run cell, insert below
* ⌃⇧subtract : split cell
* ⌃⇧ : split cell
* ⌘S : Save and Checkpoint
* ↑ : move cursor up or previous cell
* ↓ : move cursor down or next cell
* ⇧ : ignore