

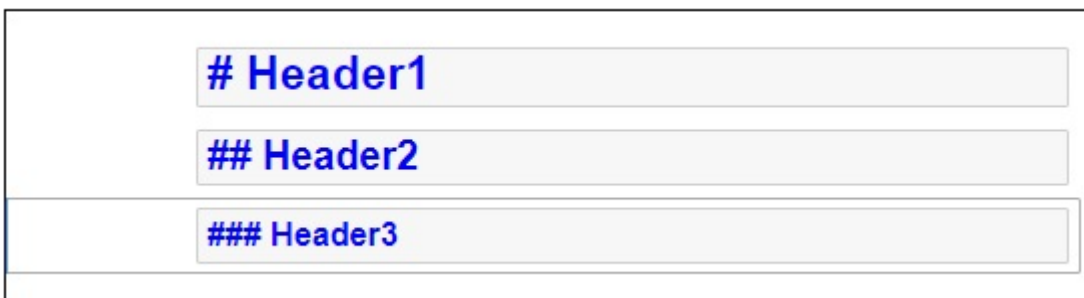
Jupyter Notebook - Markdown Cells

Markdown cell displays text which can be formatted using markdown language. In order to enter a text which should not be treated as code by Notebook server, it must be first converted as markdown cell either from cell menu or by using keyboard shortcut M while in command mode. The In[] prompt before cell disappears.

Header cell

A markdown cell can display header text of 6 sizes, similar to HTML headers. Start the text in markdown cell by # symbol. Use as many # symbols corresponding to level of header you want. It means single # will render biggest header line, and six # symbols renders header of smallest font size. The rendering will take place when you run the cell either from cell menu or run button of toolbar.

Following screenshot shows markdown cells in edit mode with headers of three different levels.



When cells are run, the output is as follows –



Note that Jupyter notebook markdown doesn't support WYSWYG feature. The effect of formatting will be rendered only after the markdown cell is run.

Ordered Lists

To render a numbered list as is done by `` tag of HTML, the First item in the list should be numbered as 1. Subsequent items may be given any number. It will be rendered serially when the markdown cell is run. To show an indented list, press tab key and start first item in each sublist with 1.

If you give the following data for markdown –

```
1. Python
  1. PyQt
  10. Flask
  6. Pandas
5. Java
  1. Hibernate
  2. Spring
10. PHP
5. ruby
```

It will display the following list –

1. Python
 - A. PyQt
 - B. Flask
 - C. Pandas
2. Java
 - A. Hibernate
 - B. Spring
3. PHP
4. ruby

Bullet lists

Each item in the list will display a solid circle if it starts with – symbol where as solid square symbol will be displayed if list starts with * symbol. The following example explains this feature –

```
- Python
  * PyQt
  * Flask
  * Pandas
- Java
  * Hibernate
  * Spring
- PHP
- ruby
```

The rendered markdown shows up as below –

- Python
 - PyQt
 - Flask
 - Pandas
- Java
 - Hibernate
 - Spring
- PHP
- ruby

Hyperlinks

Markdown text starting with http or https automatically renders hyperlink. To attach link to text, place text in square brackets [] and link in parentheses () optionally including hovering text. Following screenshot will explain this.

```
[Home page of Project Jupyter](https://jupyter.org "Project Jupyter")
```

In []:

The rendered markdown appears as shown below –

```
Home page of Project Jupyter
```

In []: Project Jupyter

Bold and Italics

To show a text in bold face, put it in between double underscores or two asterisks. To show in italics, put it between single underscores or single asterisks.

```
Beautiful is better than ugly
```

```
explicit is better than implicit
```

The result is as shown below –

```
Beautiful is better than ugly
```

```
explicit is better than implicit
```

Images

To display image in a markdown cell, choose 'Insert image' option from Edit menu and browse to desired image file. The markdown cell shows its syntax as follows –

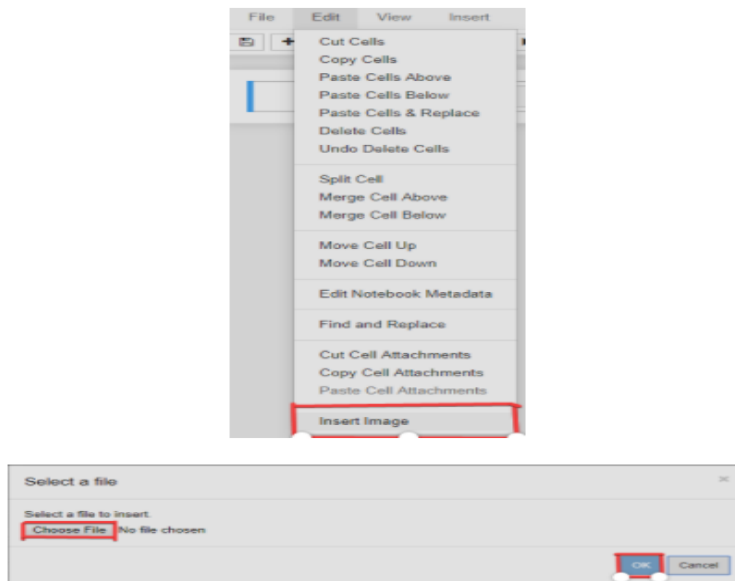
```

```

Image will be rendered on the notebook as shown below –



You can insert an image from the toolbar by choosing the 'Insert Image' from an Edit menu and can browse the required image as shown below.



Table

In a markdown cell, a table can be constructed using | (pipe symbol) and – (dash) to mark columns and rows. Note that the symbols need not be exactly aligned while typing. It should only take respective place of column borders and row border. Notebook will automatically resize according to content. A table is constructed as shown below –

```
|Name|Age|Marks|
|----|---|-----|
|Kiran|21|165|
|Tejaswini|20|215|
```

The output table will be rendered as shown below –

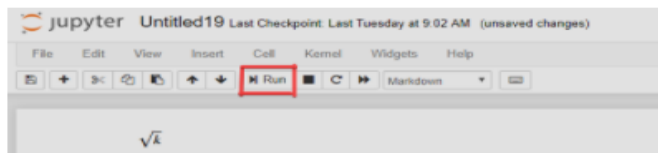
Name	Age	Marks
Kiran	21	165
Tejaswini	20	215

Mathematical Symbol

The mathematical symbol in Markdown is included in '\$ mathematical expression goes here \$' enclosed in a dollar symbol and in Markup you can follow this link for more detail: [Mathematical Operators](#). You can see the example of using the mathematical symbols below

`\sqrt{k}`

The above example will render the mathematical expression in a bold format.



Inline expressions can be added by surrounding the latex code with \$

`$ e^{i\pi} + 1 = 0 $`

$e^{i\pi} + 1 = 0$

Expressions on their own line are surrounded by \$\$

`$$e^x=\sum_{i=0}^{\infty} \frac{1}{i!}x^i$$`

$$e^x = \sum_{i=0}^{\infty} \frac{1}{i!} x^i$$

`$$\binom{a}{b+c}$$`

$\binom{a}{b+c}$

`$(a + b)^{2}$`

$(a + b)^2$