

## MARKDOWN

ACTION	EXAMPLE COMMAND
Hyperlink	<code>[text you want to display](local path to file or url)</code>
Image/gif (url)	<code>![image label](url to image)</code>
Image/gif (local)	<code>![image label](local path to image)</code> or <code>&lt;img src="local path to image" width="number of pixels"/&gt;</code>
Video (local)	<code>%%HTML</code> <code>&lt;video width="number of pixels" height="number of pixels" controls&gt;</code> <code>  &lt;source src="path to local video" type="video/mp4"&gt;</code> <code>&lt;/video&gt;</code>
Block quotes	<code>&gt;</code> at the beginning of a line
Ordered list	<code>1. First item</code> <code>1. Second item</code> Press <code>Tab</code> to add subitems
Unordered list	<code>- First item</code> or <code>* First item</code> Press <code>Tab</code> to add subitems
Titles	<code># Title1</code> <code>## Title2</code> <code>### Title3</code>
Italic	<code>*This text will be italic*</code> or <code>_This will also be italic_</code>
Bold	<code>**This text will be bold**</code> or <code>__This will also be bold__</code>

## PYTHON

ACTION	EXAMPLE COMMAND
Add video (YouTube)	<code>from IPython.display import YouTubeVideo</code> <code>YouTubeVideo('1csFTDXXULY')</code>  This will open: <a href="https://www.youtube.com/watch?v=1csFTDXXULY">https://www.youtube.com/watch?v=1csFTDXXULY</a>
Assign variable	<code>my_variable = 10</code> <code>my_string_variable = "some text"</code>
Print variable	<code>print(my_variable, my_string_variable)</code> <code>print("We can print text directly too.")</code>
Create a list	<code>x = [0, 2, 4, 6, 8, 10]</code>
"If/else" statement	<code>if i == 3:</code> <code>print(i == 3, i, "is three")</code> <code>else:</code> <code>print(i == 3, i, "Is not three")</code>
"for" loop	<code>for i in range(5):</code> <code>print(i)</code>
Create function	<code>def simple_function(x):</code> <code>return x+2</code>
Call function	<code>simple_function(10)</code>
Graphing (matplotlib)	<code>import numpy as np</code> <code>import matplotlib.pyplot as plt</code> <code>%matplotlib inline</code> <code>x = [0, 2, 4, 6, 8, 10]</code> <code>y = [0, 4, 8, 12, 16, 20]</code> <code>plt.plot(x,y, marker='o',markersize=8)</code> <code>plt.show()</code>