matplotlib.pyplot: A MATLAB-like Python plotting package



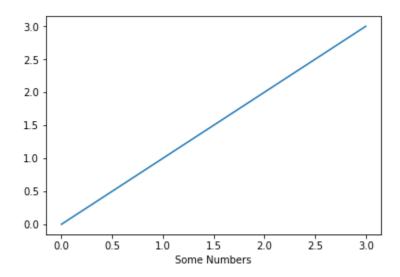
matplotlib.pyplot

- A collection of command style functions that make matplotlib work like MATLAB
- After the pyplot object is instantiated, the commands are almost in one-to-one correspondence with MATLAB
- To use "inline" in the Jupyter Notebook, use the cell magic command %matplotlib inline



Basic Example

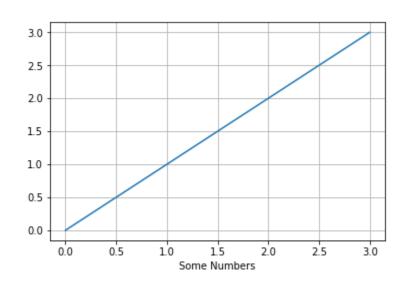
```
%matplotlib inline
import matplotlib.pyplot as plt
plt.plot([0, 1, 2, 3])
plt.xlabel("Some Numbers");
```





Changing the plot style

```
plt.plot([0, 1, 2, 3])
plt.xlabel("Some Numbers");
plt.grid()
```

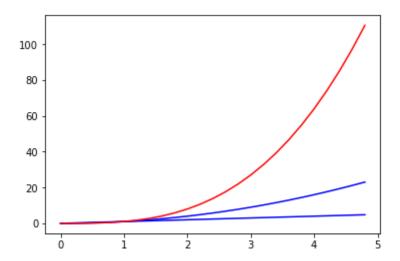




Use Numpy data

```
import numpy as np

t = np.arange(0,5,0.2)
plt.plot(t, t, 'b', t, t ** 2, 'b', t, t ** 3, 'r');
```

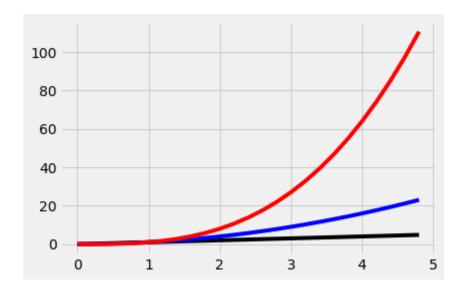




With style

import matplotlib

```
matplotlib.style.use('fivethirtyeight')
plt.plot(t, t, 'k', t, t ** 2, 'b', t, t ** 3, 'r');
```





Other stuff

- Countour plots, surface plots
- Other plotting libraries for Python
 - Bokeh
 - ggplot
 - plotly

