

Quick start

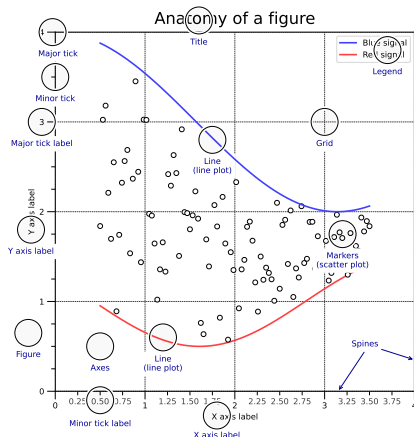
```
import numpy as np
import matplotlib as mpl
import matplotlib.pyplot as plt
```

```
X = np.linspace(0, 2*np.pi, 100)
Y = np.cos(X)
```

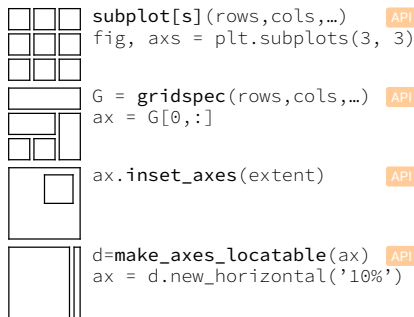
```
fig, ax = plt.subplots()
ax.plot(X, Y, color='green')
```

```
fig.savefig("figure.pdf")
fig.show()
```

Anatomy of a figure



Subplots layout



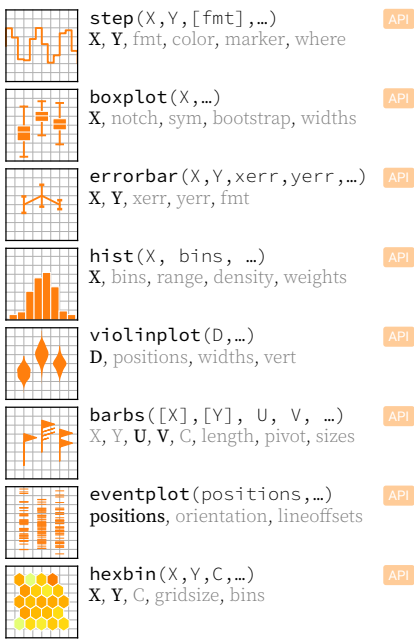
Getting help

matplotlib.org
github.com/matplotlib/matplotlib/issues
discourse.matplotlib.org
stackoverflow.com/questions/tagged/matplotlib
gitter.im/matplotlib
twitter.com/matplotlib
Matplotlib users mailing list

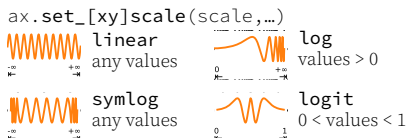
Basic plots



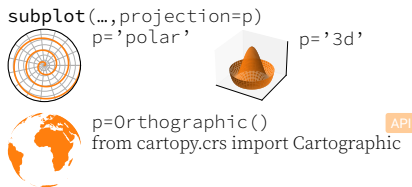
Advanced plots



Scales



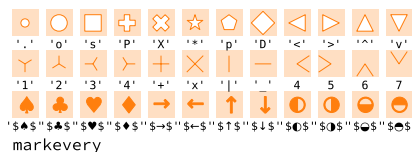
Projections



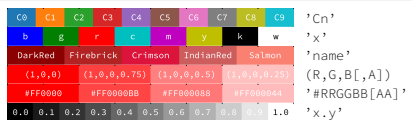
Lines



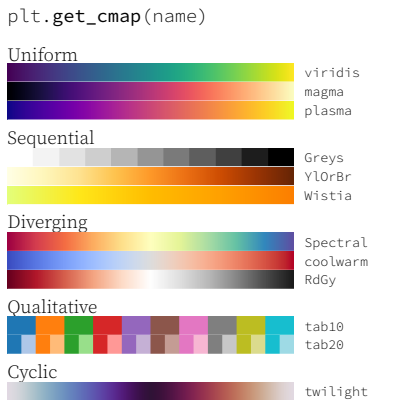
Markers



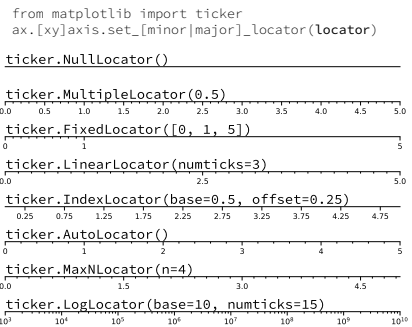
Colors



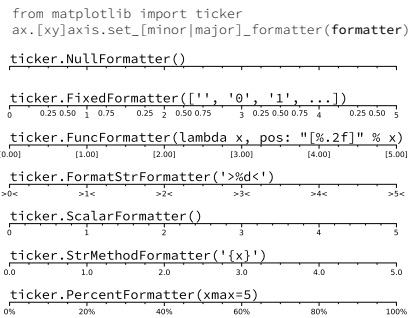
Colormaps



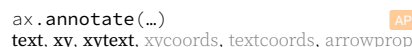
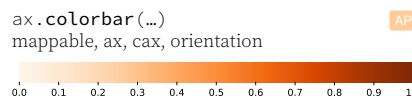
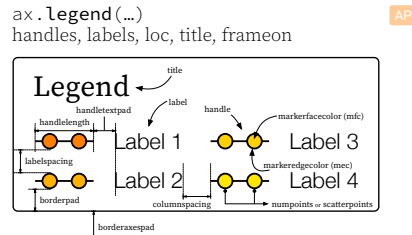
Tick locators



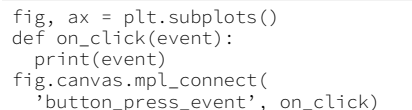
Tick formatters



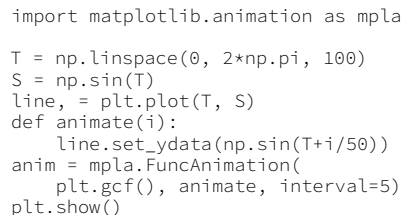
Ornaments



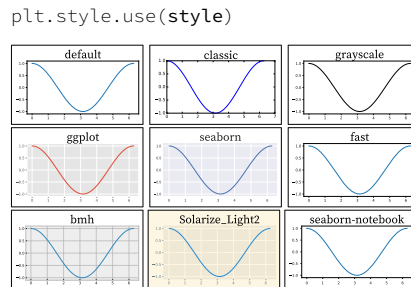
Event handling



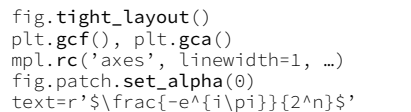
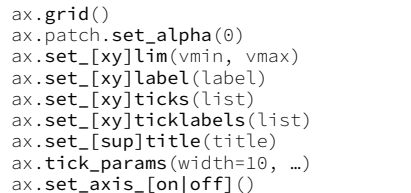
Animation



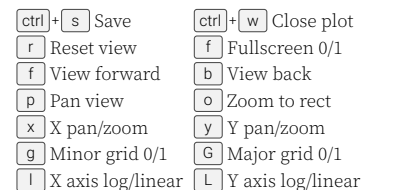
Styles



Quick reminder



Keyboard shortcuts



Ten simple rules

