

Quick start

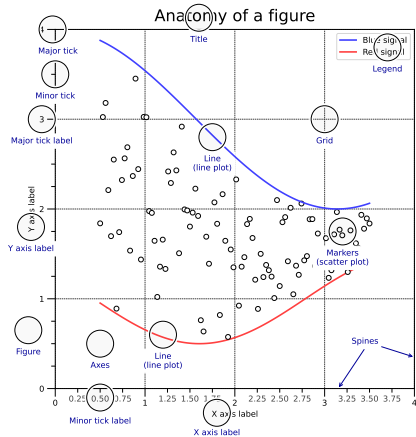
```
import numpy as np
import matplotlib as mpl
import matplotlib.pyplot as plt
```

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

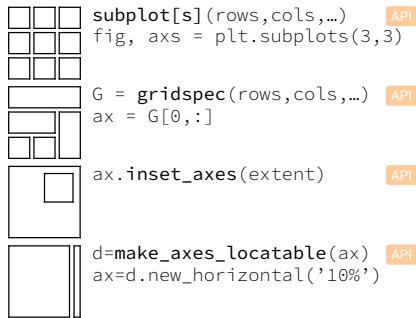
```
fig, ax = plt.subplots()
ax.plot(X,Y,color='C1')
```

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

Anatomy of a figure



Subplots layout



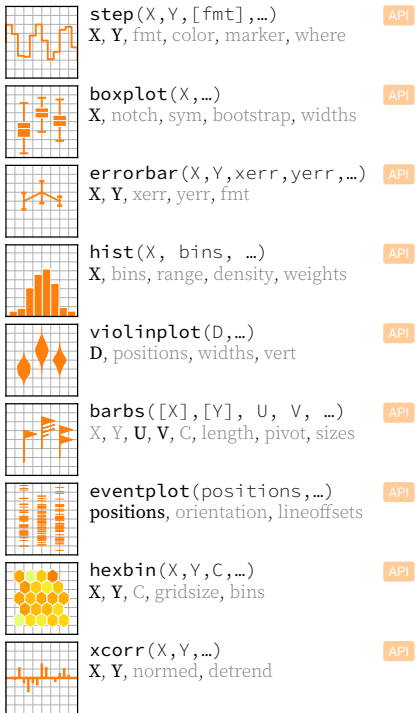
Getting help

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

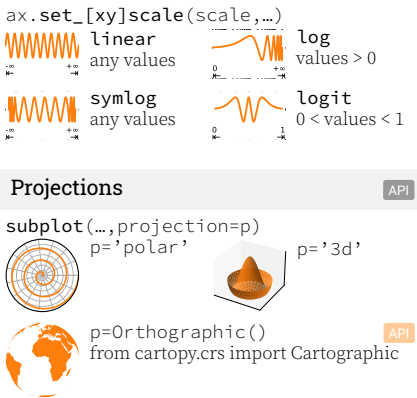
Basic plots



Advanced plots



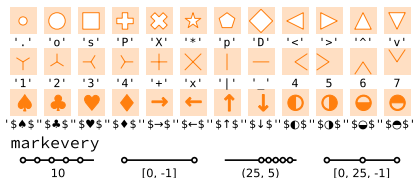
Scales



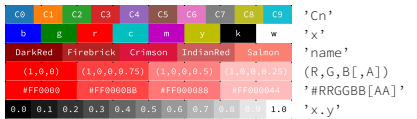
Lines



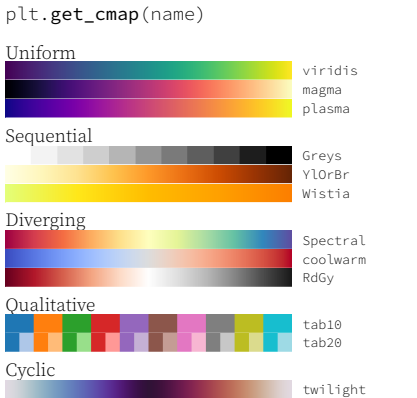
Markers



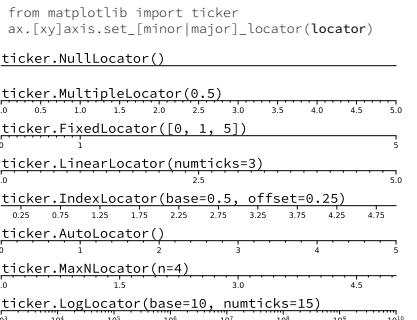
Colors



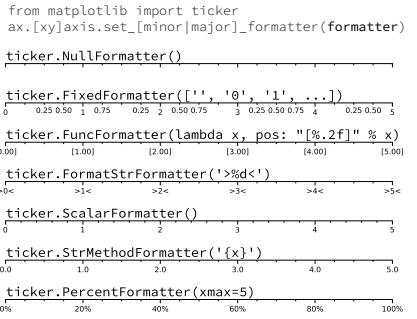
Colormaps



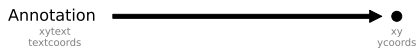
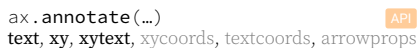
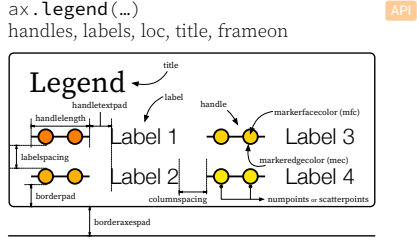
Tick locators



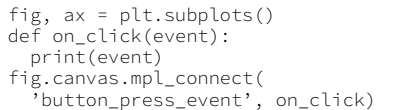
Tick formatters



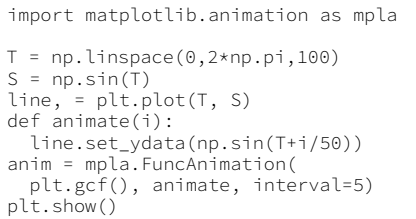
Ornaments



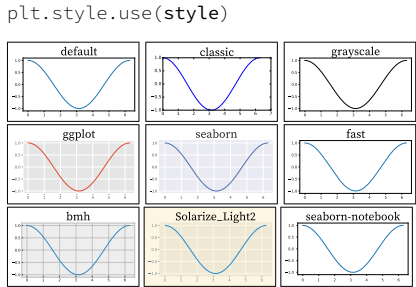
Event handling



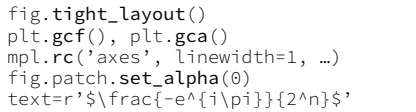
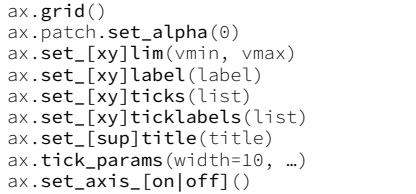
Animation



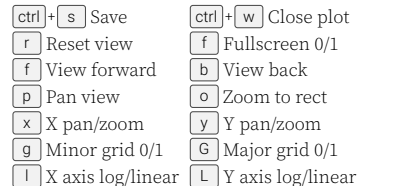
Styles



Quick reminder



Keyboard shortcuts



Ten simple rules

