

Animation

API

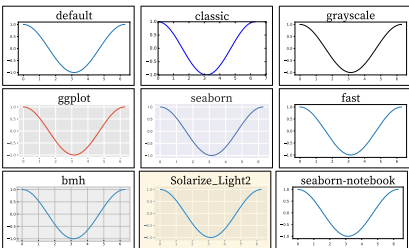
```
import matplotlib.animation as mpla
```

```
T = np.linspace(0,2*np.pi,100)
S = np.sin(T)
line, = plt.plot(T, S)
def animate(i):
    line.set_ydata(np.sin(T+i/50))
anim = mpla.FuncAnimation(
    plt.gcf(), animate, interval=5)
plt.show()
```

Styles

API

```
plt.style.use(style)
```



Quick reminder

```
ax.grid()
ax.patch.set_alpha(0)
ax.set_[xy]lim(vmin, vmax)
ax.set_[xy]label(label)
ax.set_[xy]ticks(list)
ax.set_[xy]ticklabels(list)
ax.set_[sup]title(title)
ax.tick_params(width=10, ...)
ax.set_axis_[on|off]()
```

```
ax.tight_layout()
plt.gcf(), plt.gca()
mpl.rc('axes', linewidth=1, ...)
fig.patch.set_alpha(0)
text=r'$\frac{-e^{i\pi}}{2^n}$'
```

Keyboard shortcuts

API

[ctrl] + [s] Save	[ctrl] + [w] Close plot
[r] Reset view	[f] Fullscreen 0/1
[f] View forward	[b] View back
[p] Pan view	[o] Zoom to rect
[x] X pan/zoom	[y] Y pan/zoom
[g] Minor grid 0/1	[G] Major grid 0/1
[l] X axis log/linear	[L] Y axis log/linear

Ten simple rules

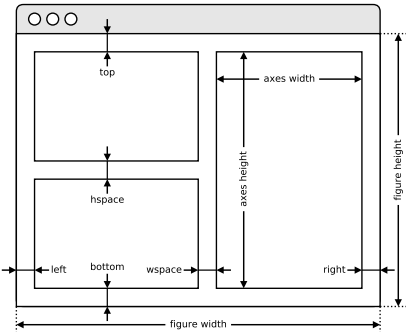
READ

1. Know Your Audience
2. Identify Your Message
3. Adapt the Figure
4. Captions Are Not Optional
5. Do Not Trust the Defaults
6. Use Color Effectively
7. Do Not Mislead the Reader
8. Avoid "Chartjunk"
9. Message Trumps Beauty
10. Get the Right Tool

Axes adjustments

API

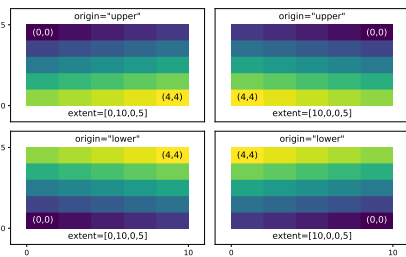
```
plt.subplots_adjust(...)
```



Extent & origin

API

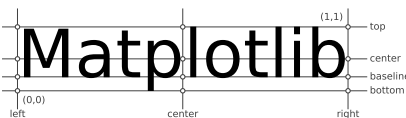
```
ax.imshow( extent=..., origin=... )
```



Text alignments

API

```
ax.text(..., ha=..., va=..., ...)
```



Text parameters

API

```
ax.text(..., family=..., size=..., weight=...)
ax.text(..., fontproperties=...)
```

The quick brown fox	xx-large (1.73)
The quick brown fox	x-large (1.44)
The quick brown fox	large (1.20)
The quick brown fox	medium (1.00)
The quick brown fox	small (0.83)
The quick brown fox	x-small (0.69)
The quick brown fox	xx-small (0.58)

The quick brown fox jumps over the lazy dog	black (900)
The quick brown fox jumps over the lazy dog	bold (700)
The quick brown fox jumps over the lazy dog	semibold (600)
The quick brown fox jumps over the lazy dog	normal (400)
The quick brown fox jumps over the lazy dog	ultralight (100)

The quick brown fox jumps over the lazy dog	monospace
The quick brown fox jumps over the lazy dog	serif
The quick brown fox jumps over the lazy dog	sans
<i>The quick brown fox jumps over the lazy dog</i>	curative

<i>The quick brown fox jumps over the lazy dog</i>	italic
The quick brown fox jumps over the lazy dog	normal

THE QUICK BROWN FOX JUMPS OVER THE LAZY DOG	small-caps
The quick brown fox jumps over the lazy dog	normal