

## C: Introduction to matplotlib

Very powerful low-level plotting module

- Will use its "pyplot" interface to create and manage figures

```
import matplotlib.pyplot as plt
```

Typically import statement

- Matplotlib provides two core data objects:

### 1. **Figure:**

Overall drawing object

- Can contain **multiple Axes**
- Can have **overall titles** and other features
- Can be **saved** as PNG or other image files

### 2. **Axes:**

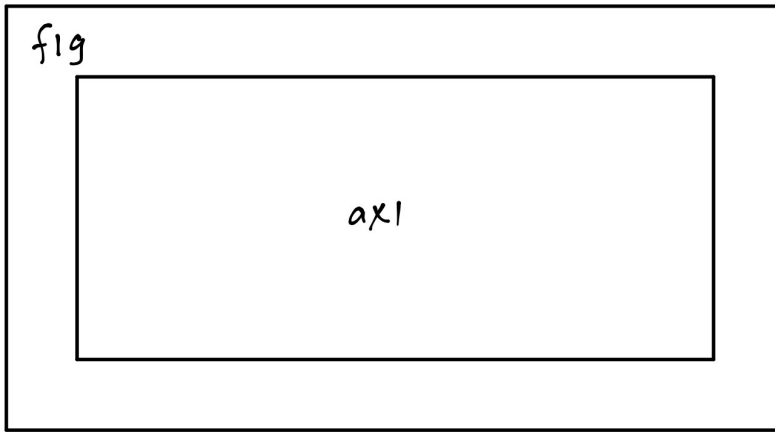
Area of figure where plotting occurs

- At **least one** per figure but can have several
- Can't be saved (save the enclosing Figure)

- To create a Figure with one Axes object:

```
fig, ax1 = plt.subplots()
```

Schematically:



Continue with g12 demo.py