Matplotlib Cheat Sheet with Examples

plot

Description: Plot y versus x as lines and/or markers.

```
Example:
plt.plot([1, 2, 3], [4, 5, 6])
```

scatter

Description: A scatter plot of *y* vs. *x* with varying marker size and/or color.

```
Example:
plt.scatter([1, 2, 3], [4, 5, 6])
```

bar

Description: Make a bar plot.

```
Example:
plt.bar(['A', 'B', 'C'], [3, 7, 5])
```

hist

Description: Compute and plot a histogram.

```
Example:
plt.hist([1,1,2,2,2,3,4])
```

boxplot

Description: Draw a box and whisker plot.

```
Example:
plt.boxplot([[1, 2, 5], [2, 3, 4]])
```

pie

Description: Plot a pie chart.

```
Example:
plt.pie([30, 40, 30], labels=['A', 'B', 'C'])
```

xlabel

Description: Set the label for the x-axis.

```
Example:
plt.xlabel('X-Axis Label')
```

ylabel

Description: Set the label for the y-axis.

Example:
```
plt.ylabel('Y-Axis Label')
```

title

Description: Set a title for the Axes.

Example:
```
plt.title('Chart Title')
```

legend

Description: Place a legend on the Axes.

Example:
```
plt.plot([1, 2], label='Line')
plt.legend()
```

grid

Description: Configure the grid lines.

Example:
```
plt.grid(True)
```

xlim

Description: Get or set the x limits of the current axes.

Example:
```
plt.xlim(0, 10)
```

ylim

Description: Get or set the y-limits of the current axes.

Example:
```
plt.ylim(0, 100)
```

xticks

Description: Get or set the current tick locations and labels of the x-axis.

Example:
```
plt.xticks([0, 1, 2])
```

yticks

Description: Get or set the current tick locations and labels of the y-axis.

Example:
```
plt.yticks([0, 10, 20])
```

show

Description: No documentation available

Example:
```
plt.show()
```

figure

Description: Create a new figure, or activate an existing figure.

Example:
```
plt.figure(figsize=(8, 6))
```

subplot

Description: Add an Axes to the current figure or retrieve an existing Axes.

Example:
```
plt.subplot(2, 1, 1)
```

subplots

Description: Create a figure and a set of subplots.

Example:
```
fig, ax = plt.subplots(2, 1)
```

savefig

Description: Save the current figure.

Example:
```
plt.savefig('chart.png')
```