

Line Properties

color/c	Line color (name, hex, RGB tuple)
linewidth/lw	Thickness of the line
linestyle/ls	Line pattern (ie, " -", " - -", " - .", " :")
dashes	Custom dash pattern as a list of on/off lengths
zorder	Draw order; higher values appear on top
label	Name used in legend

Marker Appearance

marker	Shape of each plotted point/-symbol Docs
markersize/ms	Size of the marker
marker edgecolor/mec	Outline color of the marker
marker edgewidth/mew	Thickness of the marker's edge
marker facecolor/mfc	Fill color of the marker
marker facecolor/alt	Alternate fill color (for special fill styles)
fillstyle	How marker is filled (" full", " left", " none")
alpha	Transparency

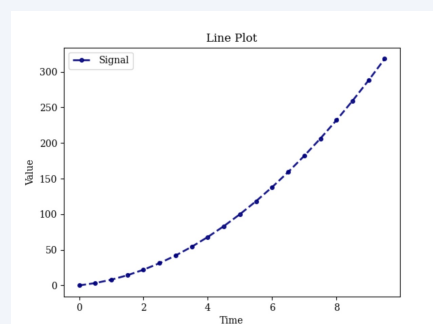
plt.plot()

```
import matplotlib.pyplot as plt
import numpy as np
x = np.arange(0, 10, 0.5)
y = 3 * (x**2) + 5 * x
fig, ax = plt.subplots()
ax.plot(x, y,
        color='navy',
        linewidth=2,
        linestyle='--',
        marker='o',
        marker_size=4,
        alpha=0.9,
        label='Signal')
ax.set(
    title="Line Plot",
    xlabel="Time",
    ylabel="Value")
ax.legend()
```

Plot points and connect them with a line

Used for continuous functions like time series and trends

Lineplot



plt.scatter()

```
import matplotlib.pyplot as plt
x = [1, 2, 3, 4, 5]
y = [2, 4, 1, 8, 7]
sizes = [20, 50, 100, 200, 500]
colors = [10, 20, 30, 40, 50]
plt.scatter(
    x, y,
    s=sizes,
    c=colors,
    cmap='viridis')
plt.title('Hi')
plt.xlabel('X')
plt.ylabel('Y')
plt.colorbar()
plt.show()
```

Plot discrete points

Scatterplot

