Matplotlib Reference

Plot	Matplotlib call	What it shows
Scatter plot	`ax.scatter(x, y)`	Each dot gives two measurements for one observation.
Histogram	`ax.hist(values, bins=edges)`	One bar per interval. Its height shows how many values fall in that interval.
Line plot	`ax.plot(x, y)`	A line connects the points in the order given. Use it to follow a change over time or trace a path.
Bar chart	`ax.bar(names, values)`	One bar per category. Its length shows the amount for that category.

Labels and axes

Feature	Matplotlib call	What it does
Title	`ax.set_title('Annual net price')`	Names the plot.
Axis labels	`ax.set_xlabel('Price ($)')`	Labels the horizontal axis. Use `set_ylabel` for the vertical axis.
Axis limits	`ax.set_ylim(0, 95000)`	Sets the bottom and top of the plot. Use `set_xlim` for the left and right limits.
Legend	`ax.legend()`	Displays the names supplied with `label` in the plotting calls.

Line styles

Line feature	Argument	Choices
Pattern	`linestyle='--'`	`'-'` solid, `'--'` dashed, `':'` dotted
Thickness	`linewidth=2`	Width in points. A larger number draws a thicker line.
Color	`color='tab:blue'`	Accepts a color name or a hex color such as `'#174a7e'`.
Points on the line	`marker='o'`	Marks each observation with a circle. Use `markersize=6` to set its size in points.

Scatter markers

Marker feature	Argument	Choices
Shape	`marker='^'`	`'o'` circle, `'s'` square, `'^'` triangle, `'x'` cross
Size	`s=36`	Marker size in points squared. Larger values give bigger markers.
Opacity	`alpha=0.6`	Ranges from 0 (invisible) to 1 (opaque).
Color	`color='tab:orange'`	Sets the marker color.