

Plotly

The **plotly Python** library is an interactive, open-source plotting library that supports over 40 unique chart types covering a wide range of statistical, financial, geographic, scientific, and 3-dimensional use-cases.

Types of Plots

- **Basics:** scatter, line, area, bar, funnel, timeline
- **Part-of-Whole:** pie, sunburst, treemap, funnel_area
- **1D Distributions:** histogram, box, violin, strip
- **2D Distributions:** density_heatmap, density_contour
- **Matrix Input:** imshow
- **3Dimensional:** scatter_3d, line_3d
- **Multidimensional:** scatter_matrix, parallel_coordinates, parallel_categories
- **Tile Maps:** scatter_mapbox, line_mapbox, choropleth_mapbox, density_mapbox
- **Outline Maps:** scatter_geo, line_geo, choropleth
- **Polar Charts:** scatter_polar, line_polar, bar_polar
- **Ternary Charts:** scatter_ternary, line_ternary

Installation

plotly may be installed using

```
pip:$ pip install plotly==4.14.3
```

or

```
conda:$ conda install -c plotly plotly=4.14.3
```

Plotly Module

plotly.graph_objects module

The `plotly.graph_objects` module (typically imported as `go`) contains an automatically-generated hierarchy of Python classes which represent non-leaf nodes in this figure schema. The term "graph objects" refers to instances of these classes.

```
import plotly.graph_objects as go
```

plotly.express

(usually imported as `px`) contains functions that can create entire figures at once, and is referred to as Plotly Express or PX. Plotly Express is a built-in part of the plotly library, and is the recommended starting point for creating most common figures

```
import plotly.express as px
```