



Plotly (4.9.0 latest version)

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.

Built on top of the Plotly JavaScript library (plotly.js), plotly enables Python users to create beautiful interactive web-based visualizations that can be displayed in Jupyter notebooks, saved to standalone HTML files, or served as part of pure Python-built web applications using Dash.

The plotly Python library is sometimes referred to as "[plotly.py](#)" to differentiate it from the JavaScript library. Thanks to deep integration with the orca image export utility, plotly also provides great support for non-web contexts including desktop editors (e.g. QtConsole, Spyder, PyCharm) and static document publishing (e.g. exporting notebooks to PDF with high-quality vector images).

Type of graphs

Scatter plots, line charts, bar charts, pie charts, bubble charts, dot charts, filled area plots, horizontal bar charts, gantt charts, sunburst charts, tables, sankey diagram, treemap charts, webgl vs svg.

Advantages:

- It lets you create interactive visualizations built using D3.js without even having to know D3.js.
- It provides compatibility with number of different languages/ tools like R, Python, MATLAB, Perl, Julia, Arduino.
- Using plotly, interactive plots can easily be shared online with multiple people. Plotly can also be used by people with no technical background for creating interactive plots by uploading the data and using plotly GUI.
- Plotly is compatible with ggplots in R and Python.
- It allows to embed interactive plots in projects or websites using iframes or html.
- The syntax for creating interactive plots using plotly is very simple as well.

Disadvantages:

- The plots made using plotly community version are always public and can be viewed by anyone.
- For plotly community version, there is an upper limit on the API calls per day.

- There are also limited number of color Palettes available in community version which acts as an upper bound on the coloring options.

Basic Visualization:

To get a good understanding of when you should use which plot, I'll recommend you to check out this resource. Feel free to play around and explore these plots more. Here are a few things that you can try in the coming plots:

- hovering your mouse over the plot to view associated attributes
- selecting a particular region on the plot using your mouse to zoom
- resetting the axis
- rotating the 3D images

▼ Basic Charts

Scatter Plot
Line Charts
Bar Chart
Pie Chart
Bubble Chart
Dot Plot
Filled Area Plots
Horizontal Bar Charts
Gantt Charts
Sunburst Chart
Tables
Sankey Diagram
Treemap charts

Webgl vs SVG

Figure Factory Table

▼ Statistical Chart

- Error Bars
- Box Plots
- Histograms
- Displots
- 2D Histograms
- Scatterplot matrix
- Facet and Trellis plots
- Parallel Categories Diagram
- Tree plots
- Violin plot
- 2D Histogram Contour
- Linear and non linear trendlines
- Marginal distribution plots
- Strip Charts

▼ Scientific Charts

- Contour plots
- Heatmaps
- Imshow
- Ternary plots
- Log plots
- Dendrograms
- Annotated heatmaps
- Ternary overlay
- Parallel Coordinates Plot
- Quiver Plots
- Streamline Plots
- Network Graphs
- Carpet Plots
- Ccarpet Contour Plot
- Carpet Scatter Plot
- Polar Charts
- Radar Charts

Ternary contours
Wind Rose and Polar Bar Charts
Plotly and Datashader

▼ Financial Charts

Time Series and Date axes
Candlestick Charts
Waterfall charts
Funnel Charts
OHLC Charts
Indicators
Gauge Charts
Bullet Charts

▼ 3D Charts

3D Axes
3D Scatter Plots
3D Surface Plots
3D Subplots
3D Camera Controls
3D Bubble Charts
3D Line Plots
Trisurf Plots
3D Mesh Plots
3D Isosurface Plots
3D Volume Plots
3D Clone Plots
3D Streamtube plots

A screenshot of a GitHub search results page for the query "plotly". The top navigation bar shows the search term "plotly" and links for Pull requests, Issues, Marketplace, and Explore. Below the search bar, a sidebar on the left lists various metrics: Repositories (45K), Code (5M), Commits (2M), Issues (33K), Discussions (0, labeled "Beta"), Packages (7), Marketplace (0), Topics (18), Wikis (849), and Users (50). To the right, the main area displays "45,659 repository results". Three repositories are listed: 1) [ropensci/plotly](#) (An interactive graphing library for R, 1.8k stars, R license, updated 15 days ago), 2) [plotly/plotly.js](#) (Open-source JavaScript charting lib, 12.1k stars, JavaScript license, MIT license), and 3) [plotly/plotly.py](#) (The interactive graphing library for F, no star count shown).