Plotly is an open-source graphing library for Python that allows you to create interactive, publication-quality graphs. It is built on top of the Plotly.js JavaScript library and supports over 40 unique chart types, including:

* Statistical charts: Bar charts, line charts, scatter plots, pie charts, histograms, box plots, etc.

[Opens in a new windowmedium.com](https://medium.com/analytics-vidhya/how-to-plotting-financial-data-chart-with-plotly-python-d8b21a210f59)

Statistical charts plotly python

* Scientific charts: Error bars, logarithmic axes, polar plots, heatmaps, etc.

[Opens in a new windowlightupthesky1111.medium.com](https://lightupthesky1111.medium.com/getting-started-with-plotly-python-8e2ec2188095)

Scientific charts plotly python

* Financial charts: Candlestick charts, OHLC charts, volume bars, etc.

[Opens in a new windowplainenglish.io](https://plainenglish.io/blog/a-simple-guide-to-plotly-for-plotting-financial-chart-54986c996682)

Financial charts plotly python

* Maps: Choropleth maps, bubble maps, scatter maps, etc.

[Opens in a new windowplotly.com](https://plotly.com/python/maps/)

Maps plotly python

* 3D charts: Scatter plots, surface plots, mesh plots, etc.

[Opens in a new windowstackoverflow.com](https://stackoverflow.com/questions/72592809/a-2d-bar-chart-in-a-3d-chart-using-plotly)

3D charts plotly python

Plotly graphs can be displayed in Jupyter notebooks, saved to standalone HTML files, or served as part of web applications built with Dash.

There are two main ways to create Plotly graphs in Python:

* Plotly Express: This is a high-level API that allows you to create common charts with just a few lines of code. It is the recommended way to get started with Plotly.

[Opens in a new windowwww.datacamp.com](https://www.datacamp.com/tutorial/python-plotly-express-tutorial)

Plotly Express plotly python

* Graph Objects: This is a lower-level API that gives you more control over the look and feel of your graphs.

Here are some of the benefits of using Plotly:

* Interactive: Plotly graphs are interactive, which means that you can zoom in, pan around, and hover over data points to see more information.
* Publication-quality: Plotly graphs can be exported in high resolution for publication in journals or presentations.
* Versatile: Plotly supports a wide variety of chart types and customization options.
* Open-source: Plotly is free and open-source, which means that it is available to everyone to use and modify.

If you are looking for a graphing library for Python, Plotly is a great option. It is easy to use, versatile, and produces beautiful, interactive graphs.

Here are some resources that you can use to learn more about Plotly:

* The Plotly website: <https://plotly.com/python/>
* The Plotly documentation: <https://dash.plotly.com/>
* The Plotly blog: <https://blog.plotly.com/>

I hope this helps! Let me know if you have any other questions.