



## Python | Geographical plotting using plotly

Geographical plotting is used for world map as well as states under a country. Mainly used by data analysts to check the agriculture exports or to visualize such data.

**plotly** is a Python library which is used to design graphs, especially interactive graphs. It can plot various graphs and charts like histogram, barplot, boxplot, spreadplot and many more. It is mainly used in data analysis as well as financial analysis. **plotly** is an interactive visualization library.

**cufflink** connects plotly with pandas to create graphs and charts of dataframes directly. **choropleth** is used to describe geographical plotting of USA. choropleth is used in the plotting of world maps and many more.

**Command to install plotly:**

```
pip install plotly
```

Below is the implementation:

```
# Python program to plot
# geographical data using plotly

# importing all necessary libraries
import plotly.plotly as py
import plotly.graph_objs as go
import pandas as pd

# some more libraries to plot graph
from plotly.offline import download_plotlyjs, init_notebook_mode, iplot, plot

# To establish connection
init_notebook_mode(connected = True)

# type defined is choropleth to
# plot geographical plots
data = dict(type = 'choropleth',

            # location: Arizoana, California, Newyork
            locations = ['AZ', 'CA', 'NY'],

            # States of USA
            locationmode = 'USA-states',

            # colorscale can be added as per requirement
            colorscale = 'Portland',

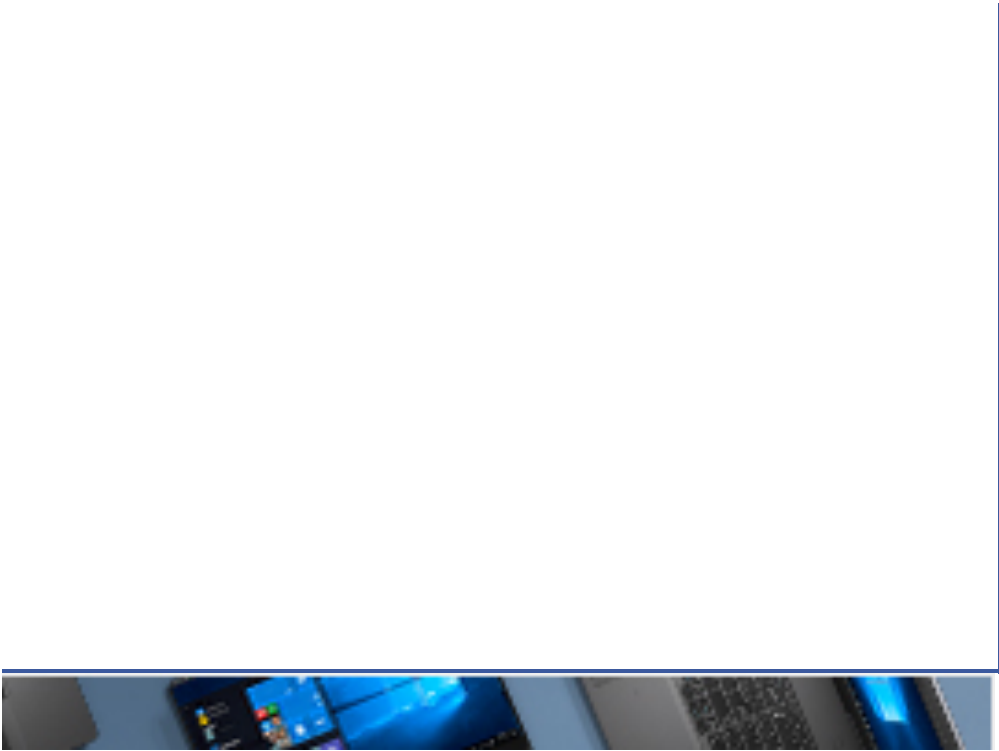
            # text can be given anything you like
            text = ['text 1', 'text 2', 'text 3'],
            z = [1.0, 2.0, 3.0],
            colorbar = {'title': 'Colorbar Title Goes Here'})

layout = dict(geo = {'scope': 'usa'})

# passing data dictionary as a list
choromap = go.Figure(data = [data], layout = layout)

# plotting graph
iplot(choromap)
```

Output:



### Recommended Posts:

- Python | Plot different graphs using plotly and cufflinks
- Graph Plotting in Python | Set 1
- Graph Plotting in Python | Set 2
- Graph Plotting in Python | Set 3
- Plotting graph using Seaborn | Python
- SunPy | Plotting a Solar Image in Python
- Python | Plotting Google Map using gmplot package
- Python | Matplotlib Sub plotting using object oriented API
- Python | Plotting Google Map using folium package
- Python | Plotting Data on Google Map using pygmaps package
- Python | Matplotlib Graph plotting using object oriented API
- Python | Plotting Fibonacci spiral fractal using Turtle
- Python | Plotting bar charts in excel sheet using XlsxWriter module
- Python | Plotting Pie charts in excel sheet using XlsxWriter module
- Python | Plotting charts in excel sheet using openpyxl module | Set - 1



**aishwarya.27**  
Check out this Author's [contributed articles](#).

If you like GeeksforGeeks and would like to contribute, you can also write an article using [contribute.geeksforgeeks.org](https://contribute.geeksforgeeks.org) or mail your article to [contribute@geeksforgeeks.org](mailto:contribute@geeksforgeeks.org). See your article appearing on the GeeksforGeeks main page and help other Geeks.



Article Tags : [Python](#) [python-modules](#)



☐ To-do ☐ Done

3

Based on 1 vote(s)

[Feedback/ Suggest Improvement](#) [Add Notes](#) [Improve Article](#)

Please write to us at [contribute@geeksforgeeks.org](mailto:contribute@geeksforgeeks.org) to report any issue with the above content.

Writing code in comment? Please use [ide.geeksforgeeks.org](https://ide.geeksforgeeks.org), generate link and share the link here.

Load Comments

5th Floor, A-118,  
Sector-136, Noida, Uttar Pradesh - 201305  
[feedback@geeksforgeeks.org](mailto:feedback@geeksforgeeks.org)

## COMPANY

[About Us](#)  
[Careers](#)  
[Privacy Policy](#)  
[Contact Us](#)

## LEARN

[Algorithms](#)  
[Data Structures](#)  
[Languages](#)  
[CS Subjects](#)  
[Video Tutorials](#)

## PRACTICE

[Courses](#)  
[Company-wise](#)  
[Topic-wise](#)  
[How to begin?](#)

## CONTRIBUTE

[Write an Article](#)  
[Write Interview Experience](#)  
[Internships](#)  
[Videos](#)



@geeksforgeeks, Some rights reserved