

Python Packages for Drawing Maps

Geopandas

Website: <https://geopandas.org/>

Installation: pip install geopandas

Example Code:

```
import geopandas as gpd  
  
world = gpd.read_file(gpd.datasets.get_path('naturalearth_lowres'))  
  
world.plot()
```

Cartopy

Website: <https://scitools.org.uk/cartopy/docs/latest/>

Installation: pip install cartopy

Example Code:

```
import cartopy.crs as ccrs  
  
import matplotlib.pyplot as plt  
  
fig, ax = plt.subplots(subplot_kw={'projection': ccrs.PlateCarree()})  
  
ax.stock_img()  
  
ax.coastlines()  
  
plt.show()
```

Folium

Website: <https://python-visualization.github.io/folium/>

Installation: pip install folium

Example Code:

```
import folium  
  
map = folium.Map(location=[45.5236, -122.6750])  
  
map.save("map.html")
```

Plotly

Website: <https://plotly.com/python/maps/>

Installation: pip install plotly

Example Code:

```
import plotly.express as px

df = px.data.gapminder()

fig = px.choropleth(df, locations="iso_alpha", color="lifeExp", hover_name="country",
                     animation_frame="year")

fig.show()
```

Basemap

Website: <https://matplotlib.org/basemap/>

Installation: pip install basemap

Example Code:

```
from mpl_toolkits.basemap import Basemap

import matplotlib.pyplot as plt

m = Basemap()

m.drawcoastlines()

plt.show()
```

Mapclassify

Website: <https://pysal.org/mapclassify/>

Installation: pip install mapclassify

Example Code:

```
import geopandas as gpd

import mapclassify

gdf = gpd.read_file(gpd.datasets.get_path("naturalearth_lowres"))

gdf.plot(column='gdp_md_est', scheme="quantiles", cmap="Blues", legend=True)
```

Kepler.gl

Website: <https://kepler.gl/>

Installation: pip install keplergl

Example Code:

```
from keplergl import KeplerGI  
  
map_1 = KeplerGI()  
  
map_1.save_to_html(file_name="kepler_map.html")
```

Pydeck

Website: <https://pydeck.gl/>

Installation: pip install pydeck

Example Code:

```
import pydeck as pdk  
  
view_state = pdk.ViewState(latitude=37.7749, longitude=-122.4194, zoom=11)  
  
pdk.Deck(map_style="mapbox://styles/mapbox/light-v9", initial_view_state=view_state)
```

Shapely

Website: <https://shapely.readthedocs.io/>

Installation: pip install shapely

Example Code:

```
from shapely.geometry import Point  
  
point = Point(1.5, 2.5)  
  
print(point)
```

Bokeh

Website: <https://docs.bokeh.org/>

Installation: pip install bokeh

Example Code:

```
from bokeh.plotting import figure, show  
from bokeh.tile_providers import get_provider, Vendors  
  
p = figure(x_range=(-2000000, 6000000), y_range=(-1000000, 7000000), x_axis_type="mercator",  
y_axis_type="mercator")  
  
p.add_tile(get_provider(Vendors.CARTODBPOSITRON))  
  
show(p)
```