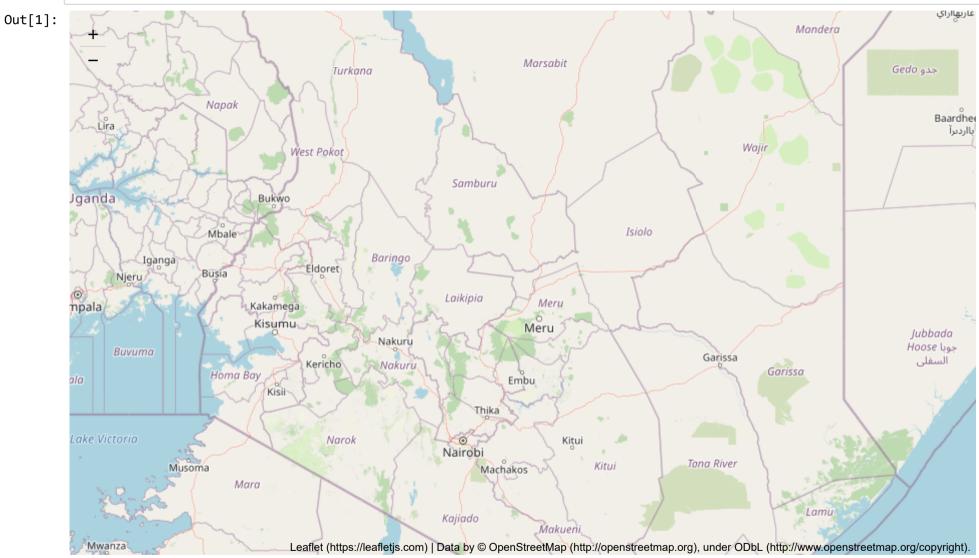
Create a Base Folium Map

In [1]: import folium fm = folium.Map(location=[0.1768696, 37.9083264], zoom_start=7) fm



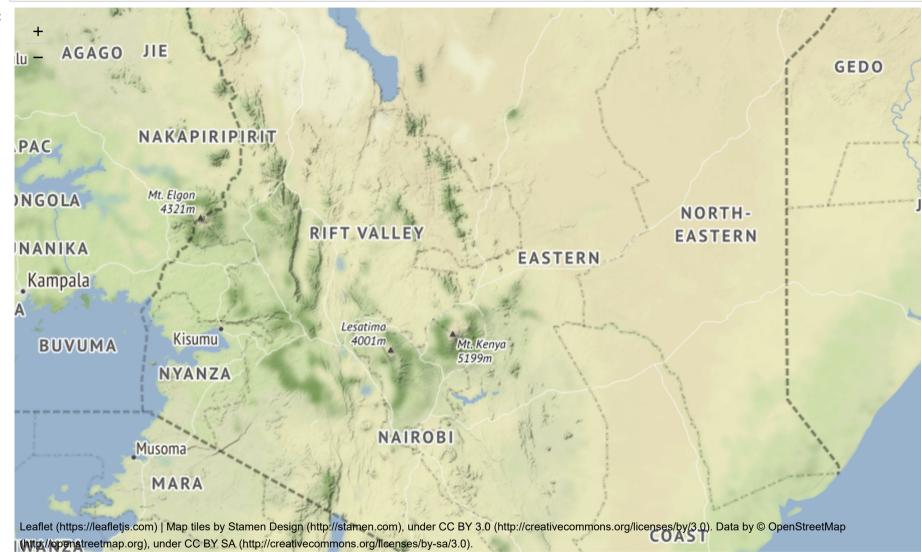
Working with Tiles in Folium

Folium support various tilesets such as OpenStreetMap, Stamen Terrain, Stamen Toner, Mapbox Bright, Mapbox Control Room and Cloudmade. In addition to these tiles also folium allows you to use custom leaflet.js compatible tileset. For Mapbox and Cloudmade you need an API_key from the vendor.

Stamen Terrain Tile

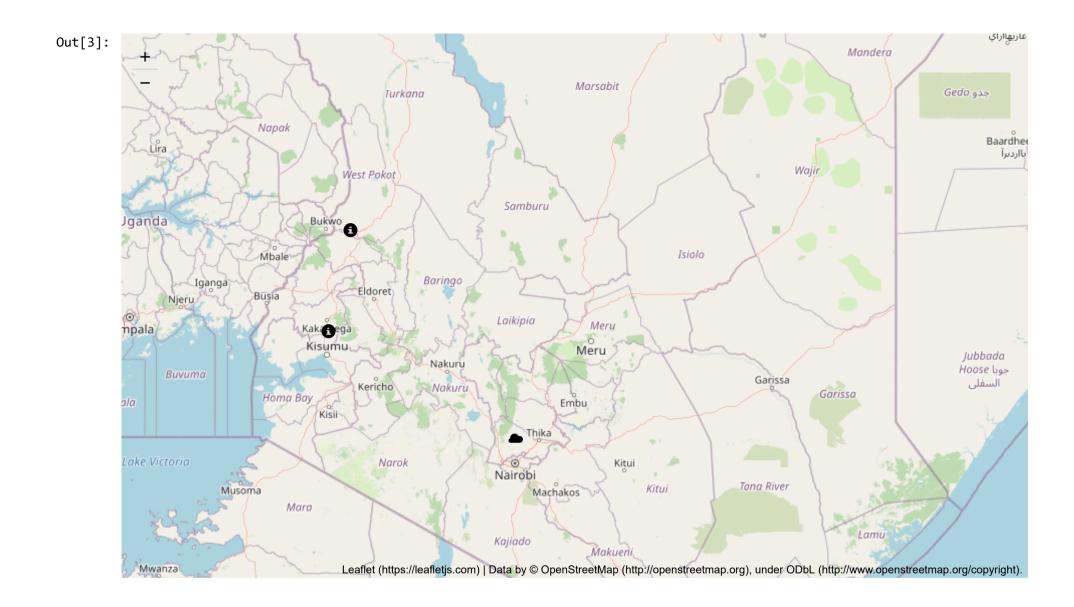
In [2]: fm = folium.Map(location=[0.1768696, 37.9083264], zoom_start=7, tiles='Stamen Terrain')
fm

Out[2]:

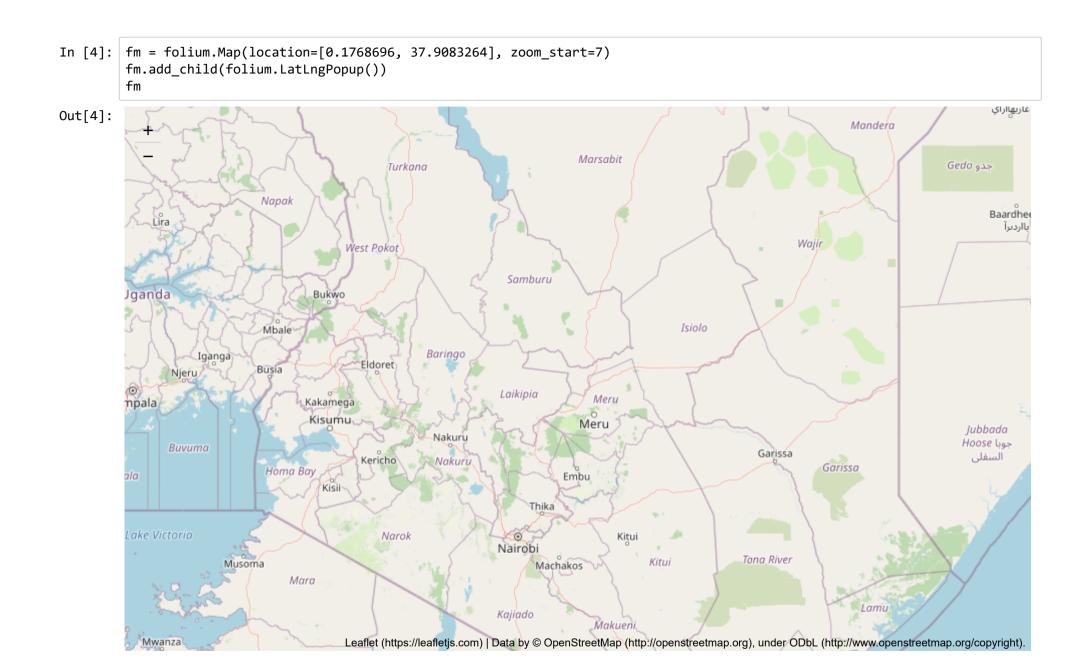


Markers in Folium

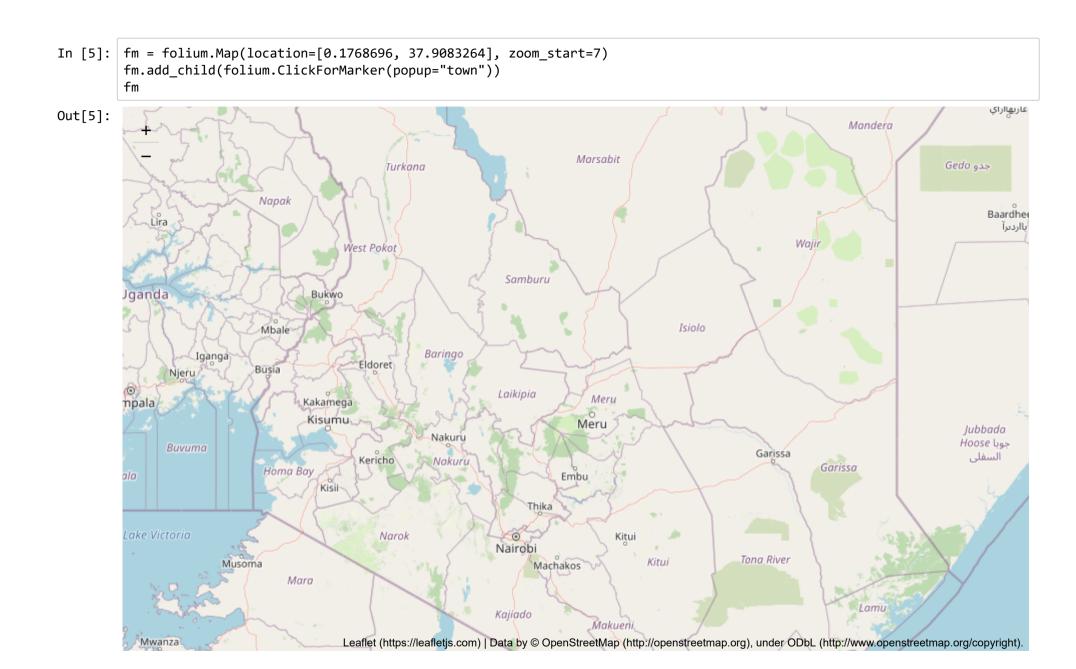
Foliumn maps allows us to set different types of markers on our maps.



Add latitude/longitude popup markers

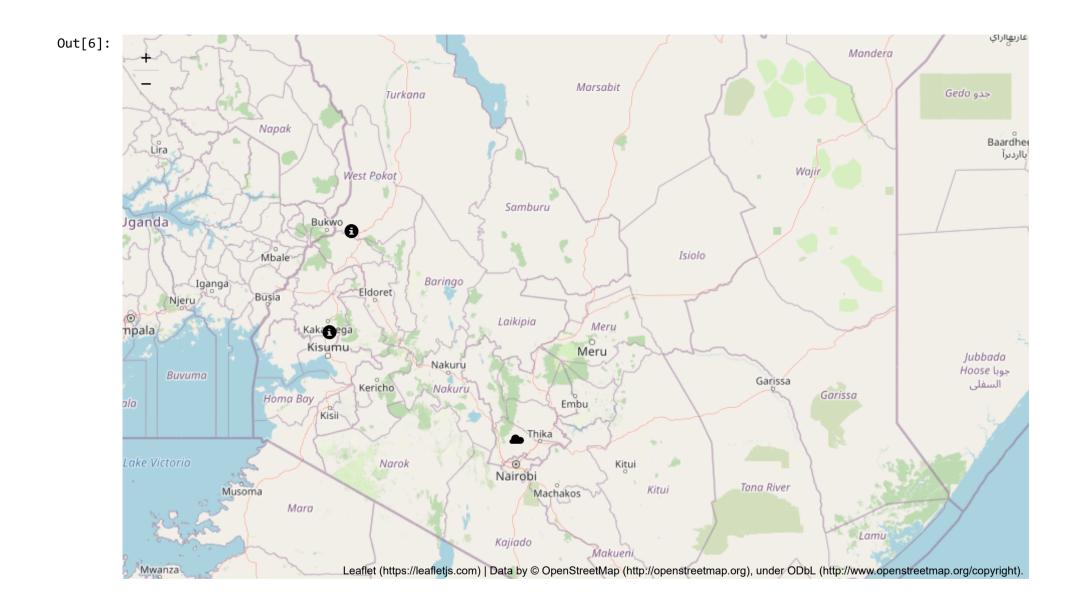


Add Markers on Clicking the Map



Add Analyses to Markers

```
In [6]: fm = folium.Map(location=[0.1768696, 37.9083264], zoom start=7)
        folium.Marker([-1.28333, 36.81667],
                       popup="<img src='https://raw.githubusercontent.com/SammyOngaya/data2ml/main/datasets/folium%20popup%20v
        isualizations/nairobi-county-population-2019-census.png'></img>",
                      tooltip="Nairobi County", icon=folium.Icon(color="darkred",icon="cloud") ).add to(fm)
        folium.Marker([-0.10221, 34.76171],
                      popup="<img src='https://raw.githubusercontent.com/SammyOngaya/data2ml/main/datasets/folium%20popup%20vi
        sualizations/kisumu-county-population-2019-census.png'></img>",
                      tooltip="Kisumu County", icon=folium.Icon(color="blue") ).add to(fm)
        folium.Marker([-4.05466, 39.66359],
                      popup="<img src='https://raw.githubusercontent.com/SammyOngaya/data2ml/main/datasets/folium%20popup%20vi</pre>
        sualizations/mombasa-county-population-2019-census.png'></img>",
                      tooltip="Mombasa County", icon=folium.Icon(color="green") ).add to(fm)
        folium.Marker([1.01572, 35.00622],
                      popup="<img src='https://raw.githubusercontent.com/SammyOngaya/data2ml/main/datasets/folium%20popup%20vi
        sualizations/trans-nzoia-county-population-2019-census.png'></img>",
                      tooltip="Trans-zoia County", icon=folium.Icon(color="orange",icon="info-sign") ).add to(fm)
        fm
```



Choropleth Maps

In [7]: import plotly.express as px df = px.data.election() geojson = px.data.election_geojson() df.head()

Out[7]:	:											
		district	Coderre	Bergeron	Joly	total	winner	result	district_id			
	0	101-Bois-de-Liesse	2481	1829	3024	7334	Joly	plurality	101			
	1	102-Cap-Saint-Jacques	2525	1163	2675	6363	Joly	plurality	102			
	2	11-Sault-au-Récollet	3348	2770	2532	8650	Coderre	plurality	11			
	3	111-Mile-End	1734	4782	2514	9030	Bergeron	majority	111			
	4	112-DeLorimier	1770	5933	3044	10747	Bergeron	majority	112			

```
In [8]: fm = folium.Map(location=[45.5517,-73.7073], zoom_start=11)

folium.Choropleth(
    geo_data=geojson,
    data=df,
    columns=["district", "total"],
    key_on="feature.id",
    fill_opacity=0.7,
    line_opacity=0.2,
    legend_name="Election",
).add_to(fm)

folium.LayerControl().add_to(fm)

fm
```



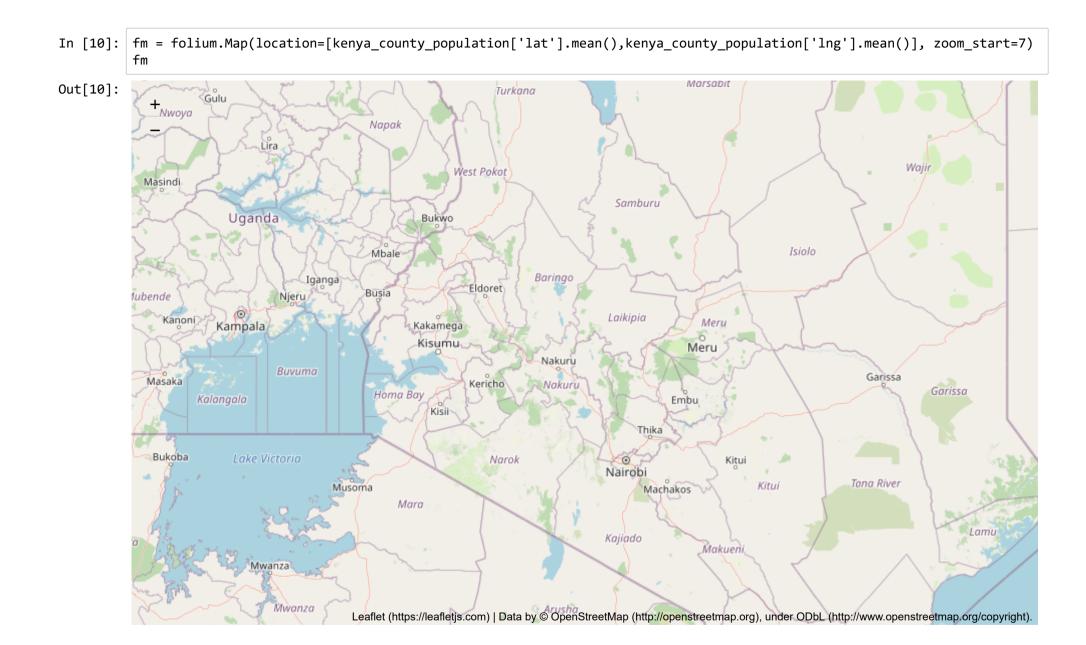
Folium with Pandas DataFrame

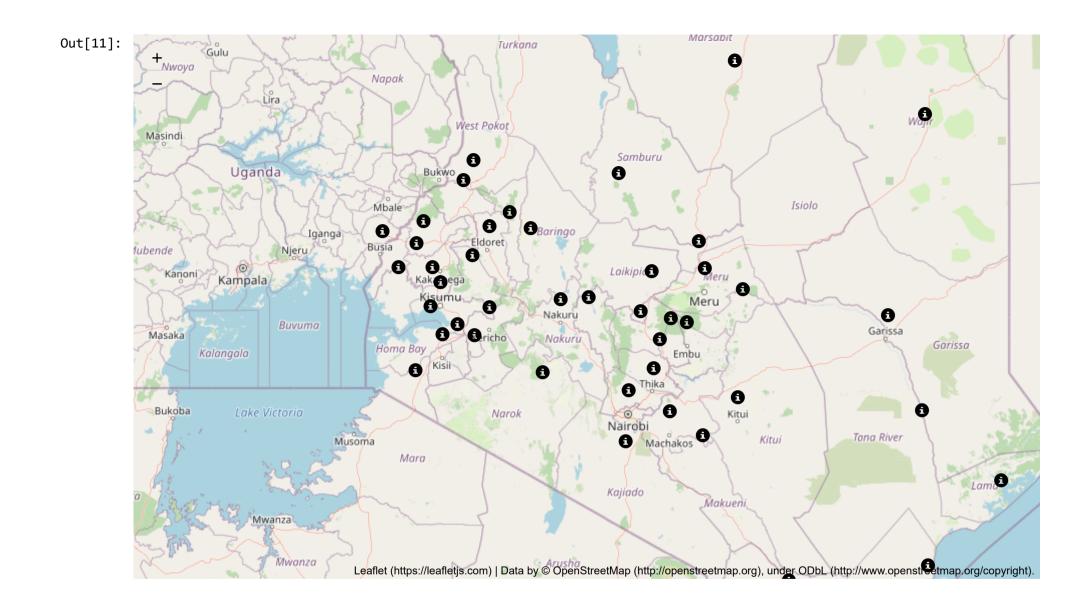
```
In [9]: import pandas as pd
    kenya_county_population = pd.read_csv('datasets/kenyan_population_census_2019.csv')
    kenya_county_population.head()
```

Out[9]:

	County	Male	Female	Intersex	Total Population	Town	lat	Ing
0	Mombasa	610257	598046	30	1208333	Mombasa	-4.0500	39.6667
1	Kwale	425121	441681	18	866820	Kwale	-4.1737	39.4521
2	Kilifi	704089	749673	25	1453787	Malindi	-3.2100	40.1000
3	Tana River	158550	157391	2	315943	Tana River	-1.5000	40.0300
4	Lamu	76103	67813	4	143920	Lamu	-2.2686	40.9003

Create base map





Save Maps to html

In [12]: fm.save("datasets/kenya_population_census_2019.html")