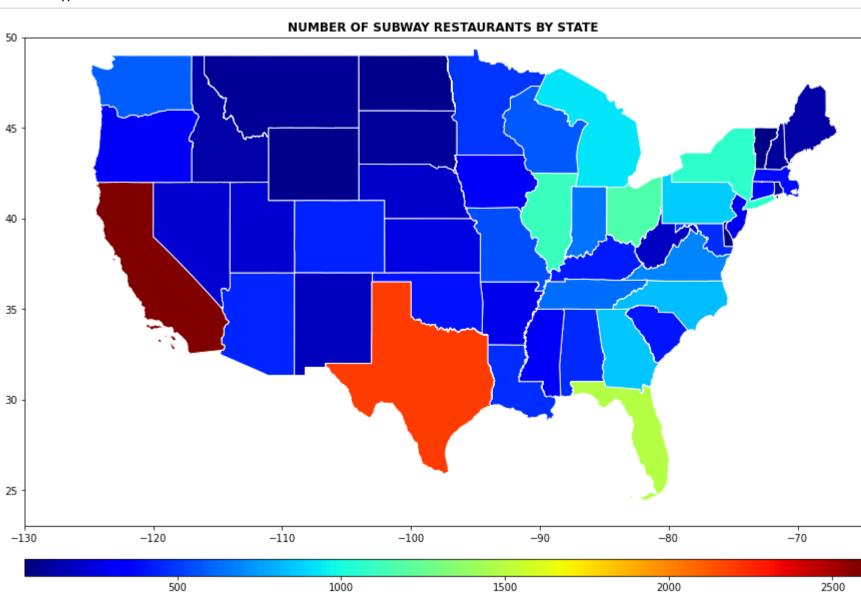
```
In [1]: import pandas as pd
    import numpy as np
    import matplotlib.pyplot as plt
    import seaborn as sns
    import plotly.express as px
    import datetime as dt

import geopandas
    from shapely.geometry import Point, Polygon, MultiPoint

In [2]: pd.options.display.max_columns=100

In [3]: df=pd.read_csv('subway.csv')
    df=df[['name', 'street_address', 'city', 'state', 'zip_code', 'country', 'latitude', 'longitude']]
```

## **PLOTING USA STATES**

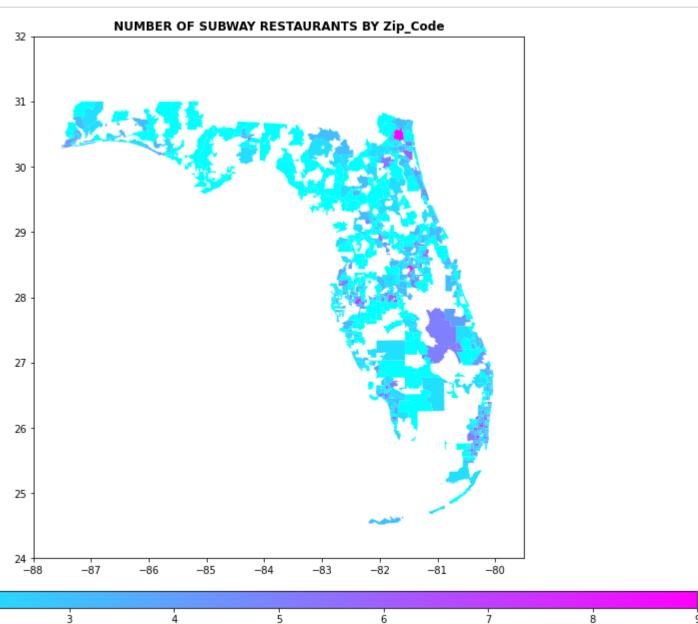


## **PLOTING ZIP CODES**

```
In [5]: zips=geopandas.read_file(r'C:\Users\berid\python სავარχიმლები\tl_2019_us_zcta510\tl_2019_us_zcta510.shp')
grouped=df.groupby(['zip_code','state'])['zip_code'].count().reset_index(name='count')
grouped=grouped.merge(zips[['GEOID10','geometry']],left_on='zip_code',right_on='GEOID10')
grouped=geopandas.GeoDataFrame(grouped)

fig,ax=plt.subplots(1,1,figsize=(15,12))
grouped.query('state=="FL"').plot(ax=ax,column='count',cmap='cool',legend=True,legend_kwds={'orientation':'horizontal','pad':0.05,'aspect':50})

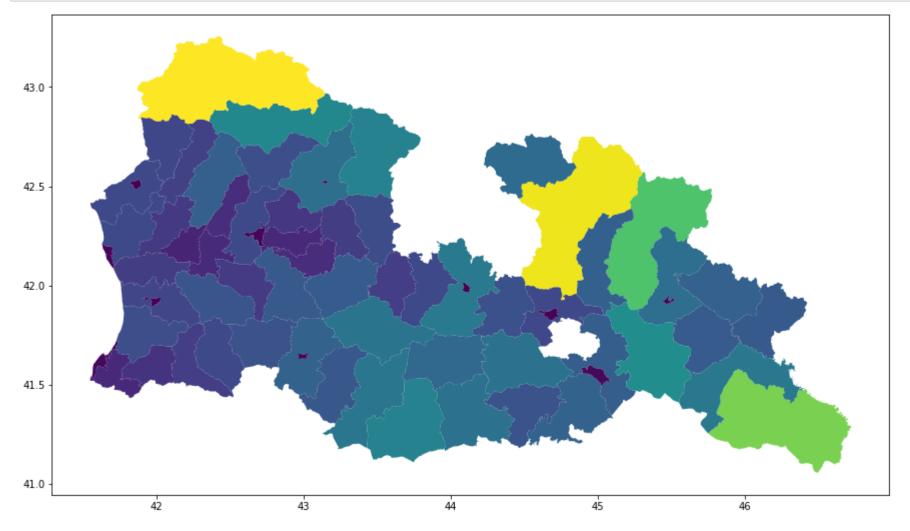
plt.title('NUMBER OF SUBWAY RESTAURANTS BY Zip_Code',fontweight='bold')
plt.ylim(24,32)
plt.xlim(-88,-79.5)
plt.show()
```



## **PLOTING GEORGIA**

```
In [6]: geo=geopandas.read_file(r'C:\Users\berid\python სავარჯიშოები\geo_adm_geostat_20191018_shp\geo_admbnda_adm2_geostat_20191018.shp')

fig,ax=plt.subplots(figsize=(15,10))
geo.plot(ax=ax,column='Shape_Area',cmap='viridis')
plt.show()
```



In [ ]: