# **Python Plots**

```
In [1]: #libraries
    import pandas as pd
    import matplotlib.pyplot as plt
    import matplotlib as mpl
    import numpy as np
    import chart_studio.plotly as py
    import cufflinks as cf
    import seaborn as sns
    import plotly.offline as plo

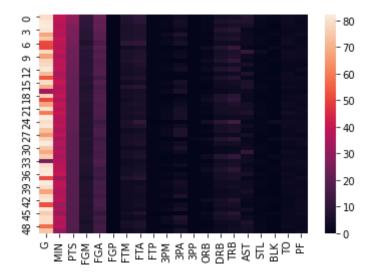
In [2]: #read CSV files
    costco = pd.read_csv("costcos-geocoded.csv")
    ppg = pd.read_csv("ppg2008.csv")

    costco_sum = pd.Series.to_frame(costco.groupby('State')['Address'].count())
    costco_sum = costco_sum.rename({'Address':'store_count'}, axis=1, inplace=F
    costco_sum = pd.DataFrame(costco_sum.to_records())
```

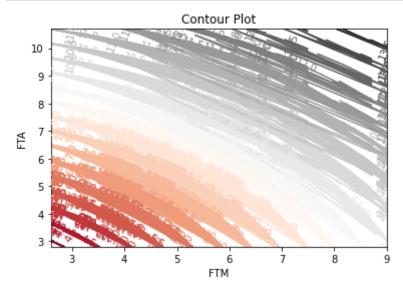
### **Python - Heat Map**

```
In [3]: sns.heatmap(ppg.iloc[:,1:])
```

#### Out[3]: <AxesSubplot:>



# **Python - Contour chart**



# **Python - Spatial Plot**

Out[5]: 'temp-plot.html'