Exercise 5.2: Heat Maps, Spatial Charts, and Contour Charts

Scott Breitbach

DSC640 - 02/07/2022

Plots Using **Python**

Load Data

```
In [1]:  # Load libraries
    import pandas as pd
    import numpy as np
    import seaborn as sns
    import folium # for Spatial Chart

In [2]:  # Load data
    costcos = pd.read_csv("costcos-geocoded.csv")
    ballers = pd.read_csv("ppg2008.csv", index_col=0)
```

Heat Map

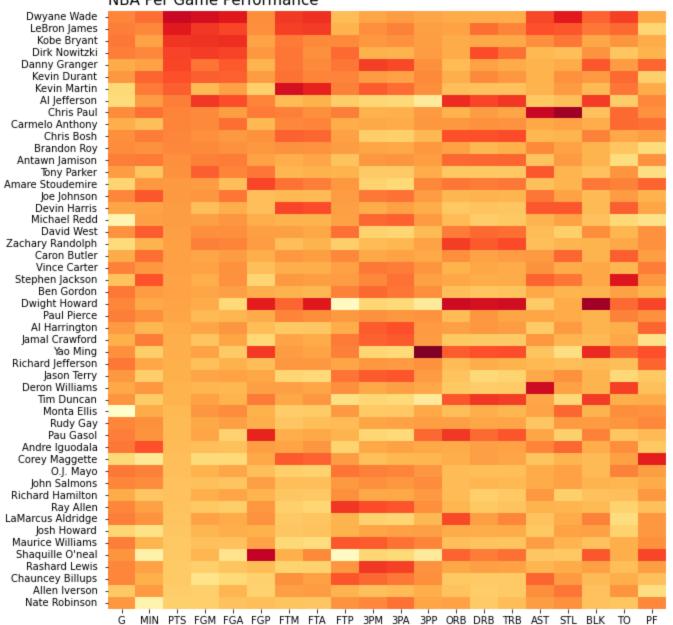
```
In [3]: # Normalize columns
   baller_norm = (ballers - ballers.mean())/ballers.std()

In [4]: # Initialize the matplotlib figure
   f, ax = plt.subplots(figsize=(10, 11))

# Create heatmap of normalized data
   sns.heatmap(baller_norm, cmap='YlOrRd', cbar=False)

# Add chart title and labels
   plt.title("NBA Per Game Performance", fontsize = 15, loc = 'left')
   plt.ylabel("")
   plt.show()
```

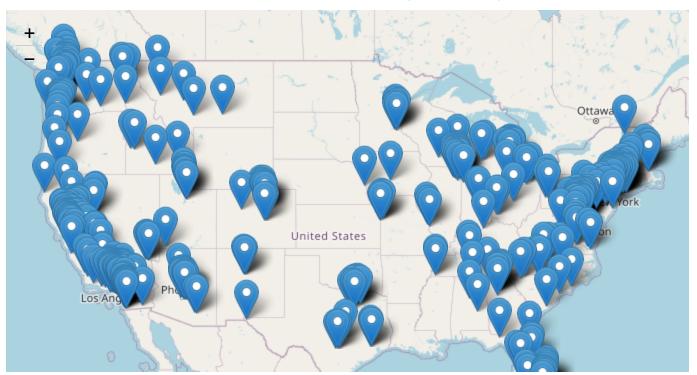
NBA Per Game Performance



Spatial Chart

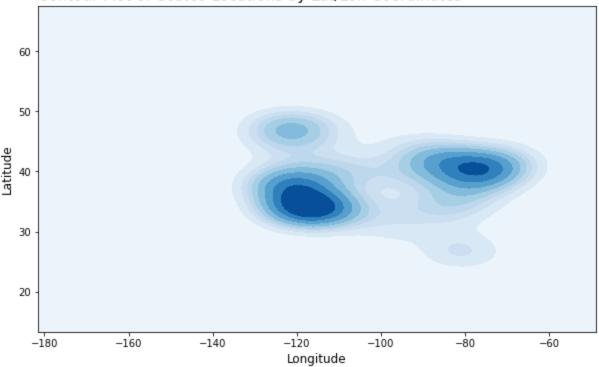
Out[5]: Make this Notebook Trusted to load map: File -> Trust Notebook

US Costco Locations (Lower 48)



Contour Chart

Contour Plot of Costco Locations by Lat/Lon Coordinates



```
In [ ]:
```