Best place for a Bar in San Francisco

IBM Applied Data science Project

Business Problem

- Can we predict the best place to start a Bar in San Francisco.

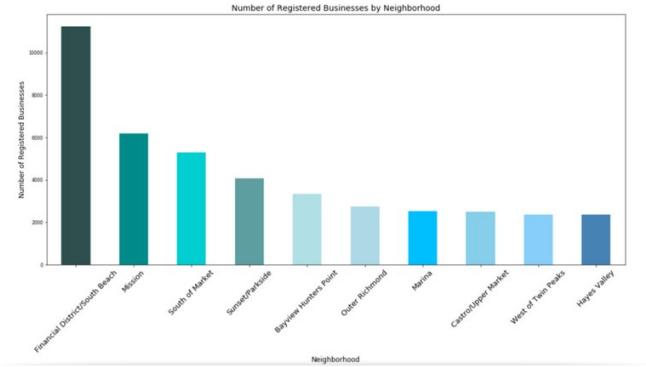
Target Audience

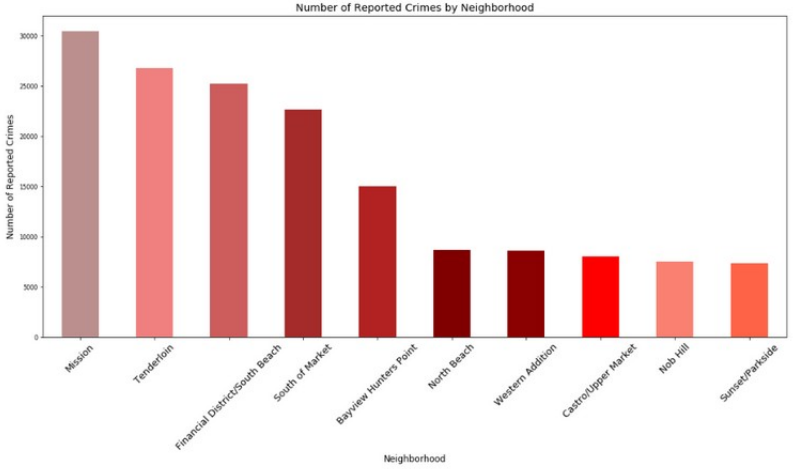
- anyone who wants to buy or build a bar in San Francisco.

Data

- San Francisco Registered Business Data.
- San Francisco Crime Data.
- Foursquare Data.

Narrowing Down Neighborhoods



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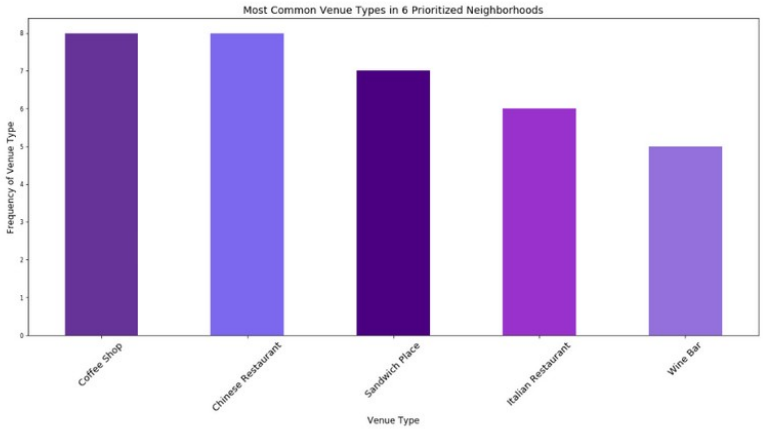
In [13]: '''start by merging the datasets and making a new dataset that incldues the neighborhoods
         which wereamong the top 10 for businesses AND are amond the top 5 for crime '''
         Overlap = business6.merge(crime8, on=['Neighborhood'])
         '''then take this joined dataframe and remove all common values from your list of top 10
         neighborhoods for businesses'''
         SF_Neighborhoods = business6[(~business6.Neighborhood.isin(Overlap.Neighborhood))]
         '''and what you have is the top neighborhoods for businesses that are NOT the top
         neighborhoods for crime'''
         SF_Neighborhoods.head()
```

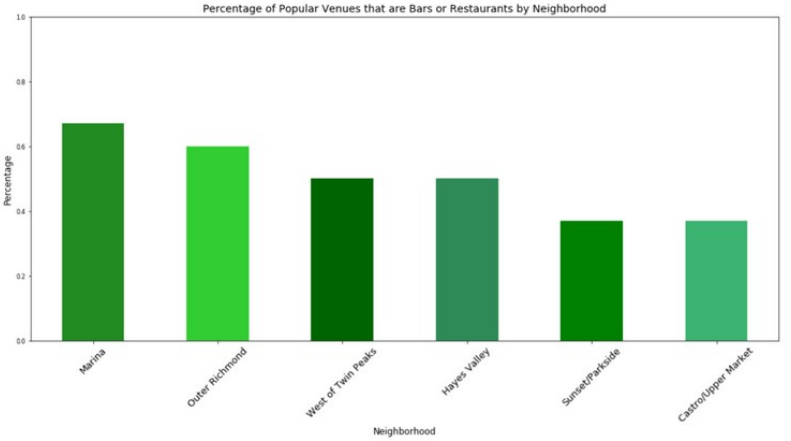
Out[13]:

	Neighborhood	Businesses
34	Sunset/Parkside	4074
25	Outer Richmond	2729
16	Marina	2528
2	Castro/Upper Market	2478
39	West of Twin Peaks	2352

	Neighborhood	Businesses	Crimes	Coordinates	Latitude	Longitude
0	Sunset/Parkside	4074	7325	(37.751616, -122.490810)	37.751616	-122.490810
1	Outer Richmond	2729	5623	(37.780001, -122.490229)	37.780001	-122.490229
2	Marina	2528	6157	(37.801406, -122.439718)	37.801406	-122.439718
3	Castro/Upper Market	2478	7965	(37.762932, -122.435395)	37.762932	-122.435395
4	West of Twin Peaks	2352	5082	(37.739871, -122.460106)	37.739871	-122.460106
5	Hayes Valley	2349	7118	(37.776685, -122.422936)	37.776685	-122.422936

Foursquare Data Analysis





Neighborhood Clustering