

The Battle of the Neighborhoods: San Francisco

Sabrina Miele

Finding the Best Neighborhood for Renters

- San Francisco is ranked as one of the best cities in which to find a job; however, it is also one of the most expensive cities in the US
- An ideal San Francisco neighborhood for renters would be one that has both a low average monthly rent and as many popular venues as a more expensive neighborhood
- Anyone looking to rent in San Francisco would be interested in the results

Data

- Average monthly rent by neighborhood in San Francisco, CA, web scraped from [RENTCafe's Rental Market Trends in San Francisco, CA](#)
- 79 neighborhoods after duplicates are dropped
- Some neighborhood names are changed to more common names or to nearby landmarks so GeoPy returns the correct coordinates for each neighborhood; after the coordinates are received, they are changed back to their original names
- Foursquare API used to get popular venues based on coordinates

Ten Cheapest Neighborhoods

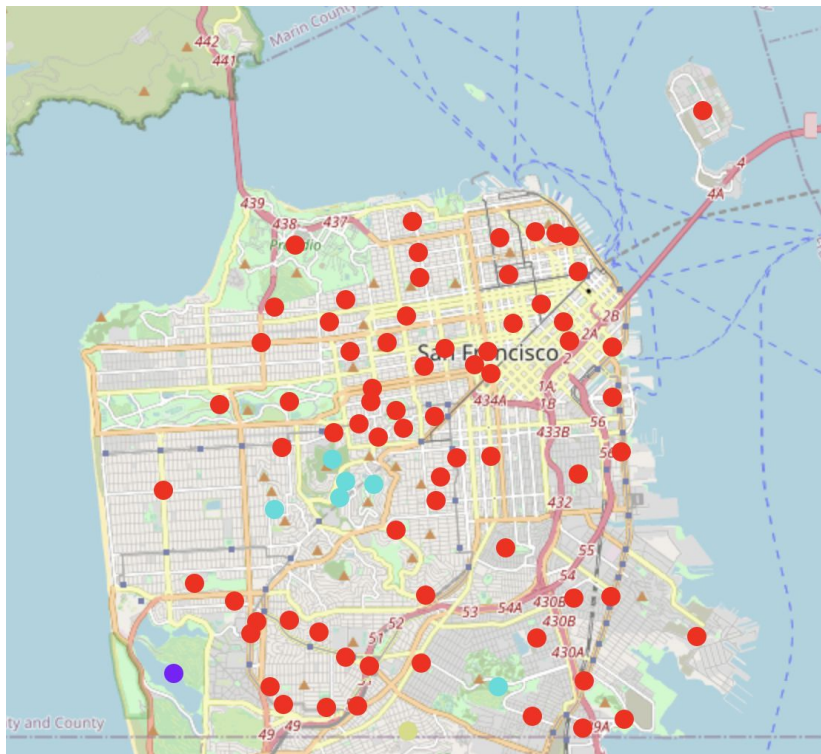
	Neighborhood	Average Rent
0	Treasure Island	\$2,616
1	Van Ness - Civic Center	\$2,944
2	Tenderloin	\$2,944
3	Downtown District 8 - North East	\$2,956
4	Marina	\$2,974
5	Hayes Valley	\$2,983
6	Russian Hill	\$2,983
7	Nob Hill	\$2,996
8	Western Addition	\$3,030
9	Bernal Heights	\$3,061

Neighborhoods with the Most Venues Overall (capped at 100)

Neighborhood	
Yerba Buena	100
Cow Hollow	100
Downtown District 8 – North East	100
Tenderloin	100
Sunnyside	100
Hayes Valley	100
South Beach	100
Inner Mission	100
Marina	100
Telegraph Hill	99

Neighborhoods with the Most Venue Categories

Neighborhood	
Sunnyside	68
Inner Mission	68
Cow Hollow	66
Marina	66
South of Market	65
Hayes Valley	63
Yerba Buena	62
Alamo Square	62
Van Ness – Civic Center	60
Telegraph Hill	59



k-Means Clustering of San Francisco

- Four clusters
- Clustered by top most common venues
- **1st Cluster (red)**: largest; neighborhoods are close enough that the 500m radius may overlap, and venues are shared, leading to homogeneity
- **2nd Cluster (purple)**: contains only Lake Shore, because the only venue there is the lake
- **3rd Cluster (turquoise)**: most common venues are trails/parks and other outdoor venues
- **4th Cluster (chartreuse)**: contains only Crocker Amazon, because its only two venues are a liquor store and a dog run

The Most Desirable Neighborhood for Renters: **Marina**

- One of the ten cheapest neighborhoods
- One of the neighborhoods that has at least 100 venues within 500m
- Second-highest amount of unique venue types, making it one of the neighborhoods with the most diverse venues

