

CRIME RATE IN SAN FRANCISCO

INTRODUCTION:

People want to move to San Francisco for a better living, but the important factor that must be looked upon is 'Security'. This project analyzes the safe areas in the city where we will explore the crime rate in the city to solve the problem. The audience that will be benefitted are:

- Tourists
- The business community for the investment
- People looking for a better living
- People looking for Relocation

DATA:

Crime dataset in San Francisco: https://cocl.us/sanfran_crime_dataset

Map of San Francisco: https://cocl.us/sanfran_geojson.

Data is having following column list:

IncidntNum, Category, Descript, DayOfWeek, Date, Time, PdDistrict, Resolution, Address, X, Y, Location

| IncidntNum | Category | Descript | DayOfWeek | Date | Time | PdDistrict | Resolution | Address | X | Y | Location |
|------------|----------------|--|-----------|------------------------|-------|------------|----------------|------------------------|-------------|-----------|---------------------------------------|
| 120058272 | WEAPON LAWS | POSS OF PROHIBITED WEAPON | Friday | 01/29/2016 12:00:00 AM | 11:00 | SOUTHERN | ARREST, BOOKED | 800 Block of BRYANT ST | -122.403405 | 37.775421 | (37.775420706711, -122.403404791479) |
| 120058272 | WEAPON LAWS | FIREARM, LOADED, IN VEHICLE, POSSESSION OR USE | Friday | 01/29/2016 12:00:00 AM | 11:00 | SOUTHERN | ARREST, BOOKED | 800 Block of BRYANT ST | -122.403405 | 37.775421 | (37.775420706711, -122.403404791479) |
| 141059263 | WARRANTS | WARRANT ARREST | Monday | 04/25/2016 12:00:00 AM | 14:59 | BAYVIEW | ARREST, BOOKED | KEITH ST / SHAFTER AV | -122.388856 | 37.729981 | (37.7299809672996, -122.388856204292) |
| 160013662 | NON-CRIMINAL | LOST PROPERTY | Tuesday | 01/05/2016 12:00:00 AM | 23:50 | TENDERLOIN | NONE | JONES ST / OFARRELL ST | -122.412971 | 37.785788 | (37.7857883766888, -122.412970537591) |
| 160002740 | NON-CRIMINAL | LOST PROPERTY | Friday | 01/01/2016 12:00:00 AM | 00:30 | MISSION | NONE | 16TH ST / MISSION ST | -122.419672 | 37.765050 | (37.7650501214668, -122.41967177375) |
| 160002869 | ASSAULT | BATTERY | Friday | 01/01/2016 12:00:00 AM | 21:35 | NORTHERN | NONE | 1700 Block of BUSH ST | -122.426077 | 37.788019 | (37.788018555829, -122.426077177375) |
| 160003130 | OTHER OFFENSES | PAROLE VIOLATION | Saturday | 01/02/2016 12:00:00 AM | 00:04 | SOUTHERN | ARREST, BOOKED | MARY ST / HOWARD ST | -122.405721 | 37.780879 | (37.7808789360214, -122.405721454567) |

METHODOLOGY:

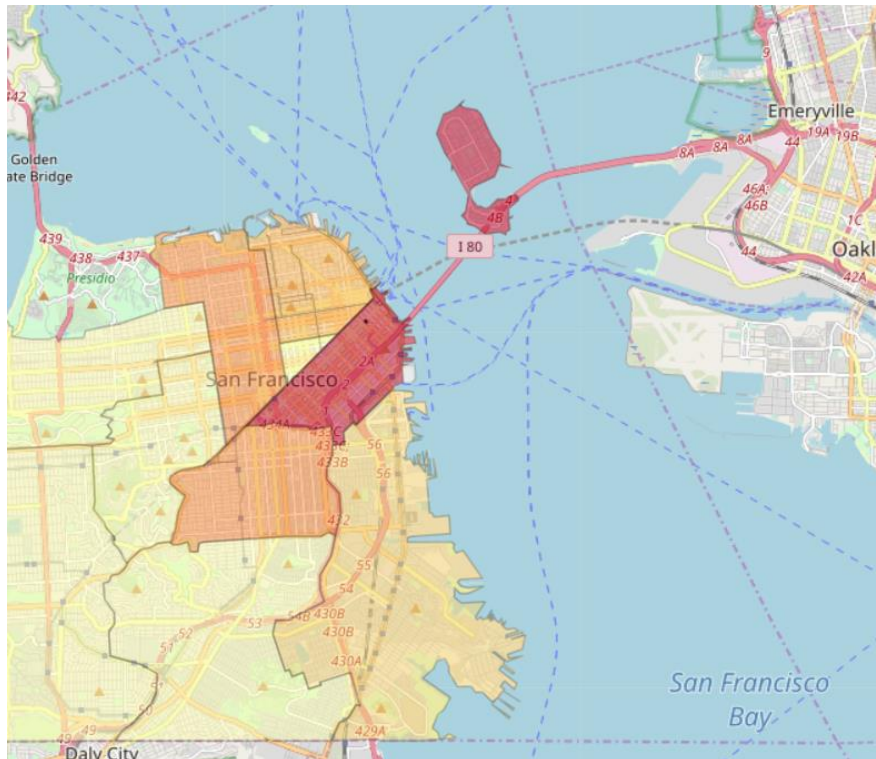
The Neighborhoods are; Central, Northern, Park, Southern, Mission, Tenderloin, Richmond, Taraval, Ingleside, Bayview

Methodology was simple to analyze the total number of crimes in the neighborhoods and establish the output on the map. The number shows the high and the low crime rates and the safe areas are well versed the dataframe.

| | Neighborhood | Count |
|---|--------------|-------|
| 0 | CENTRAL | 17666 |
| 1 | NORTHERN | 20100 |
| 2 | PARK | 8699 |
| 3 | SOUTHERN | 28445 |
| 4 | MISSION | 19503 |
| 5 | TENDERLOIN | 9942 |
| 6 | RICHMOND | 8922 |
| 7 | TARAVAL | 11325 |
| 8 | INGLESIDE | 11594 |
| 9 | BAYVIEW | 14303 |

RESULTS:

The table in the Methodology section shows the crime rate. The highlighted areas show the areas where highly crimes exist.



CONCLUSION:

The map clearly shows the highly affected areas with the low crime rate areas of the city. The highest affected section is the SOUTHERN part having the highest rate of crime and the lowest are the PARK as the Methodology data frame shows.

The people can now move towards the city after reviewing the areas where they can live easily with their family. The businessmen can now review for their investment purpose, the burger joint is likely to invest in the area that is not higher in crime rate and like the remaining sections of the society will decide according to their needs.

The recommended areas after watching the map closely are the following:

- RICHMOND
- TENDERLOIN

Whereas, the not recommended areas are already pointed out as per visualization.

