

San Francisco

Visual Data

The Map



report by Janice Santiago

Crime In the City

Background

Can San Francisco's Police crime statistics enable data analysis and visualization to investigate the rate, type, and location of crimes in that city? The police department reports on 37 different types of crime but this report will roll them up into only 14 categories of crime.

Goal

What questions can be asked and answered about crime in San Francisco by this report? Well, what type of crime exactly occurs there and most often. Is one month different from the next month, in terms of the of the crimes committed? Are weekends more prone to crime events than week days? Are there certain times of the day more vulnerable than others? Does it appear that as it gets hotter in the summer, the crime rate goes up? Are there crime 'hotspots' and where do alot of crime take place?

Results

The visual barchart data were used to answer the above questions:

- It appears that the weekend, including Sunday, have the highest crime rate. This includes all day of Friday.

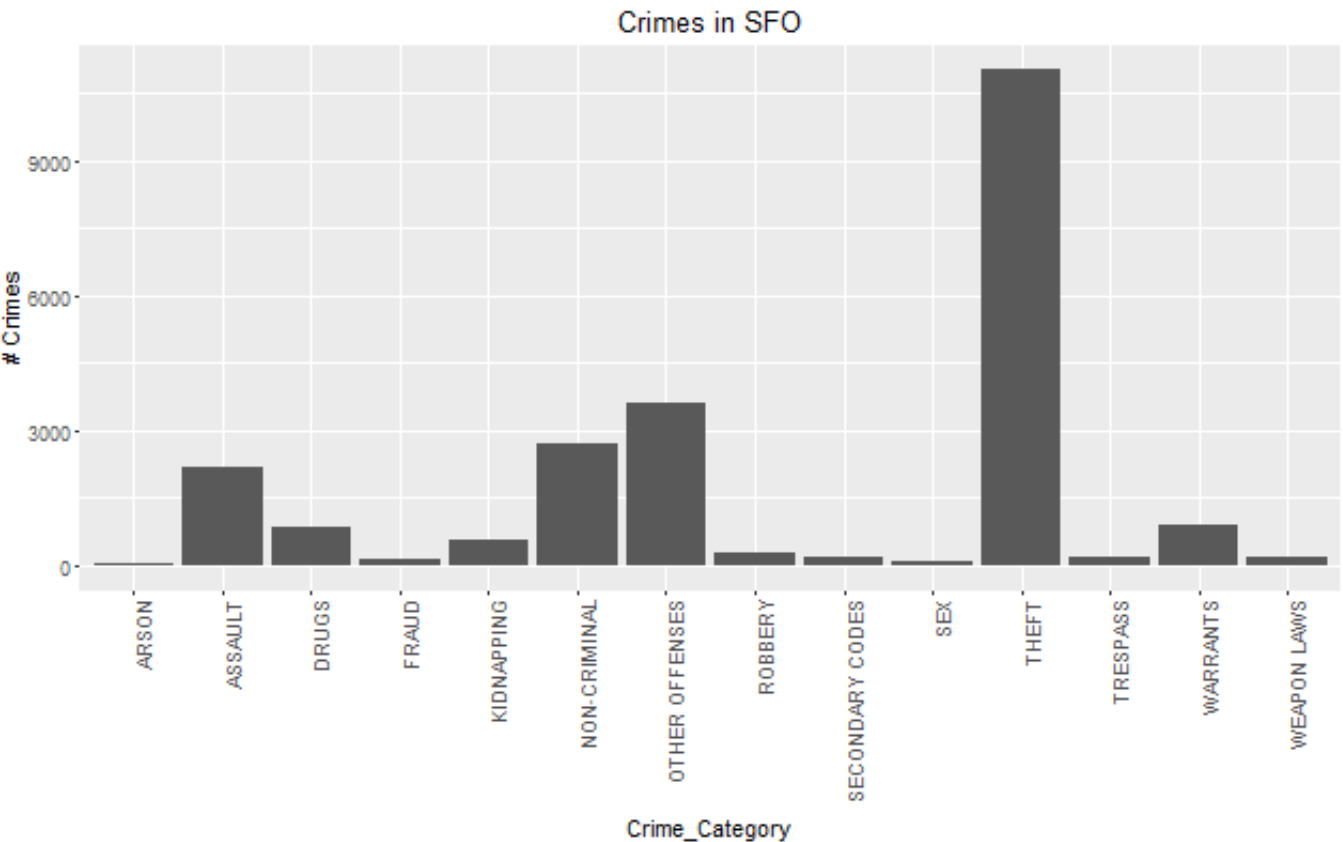
- Late in the evening and at night have the highest rate of crime, more so than during any other part of the day. This is because of the high rate of theft that occurs at night.
- People assaulting each other appears to be more of a problem than policing drugs. Since assaults can stem from crimes of passion, alcoholic incidences, angry encounters or attempted robbery/theft by drug addicts, I now understand why the arrest numbers would be larger.
- Looking at the interactive map of San Francisco that shows reported sites of crime, a large number of the crimes occurred in the northeastern part of the city. That area is differently a crime 'hotspot'
- Only three months' worth of crime statistics were used to produce these findings. The months were June, July and August of 2014. August had the highest number of crimes committed while June had the least. It does seem to prove the belief that crime goes up as the weather goes up.

About This Data

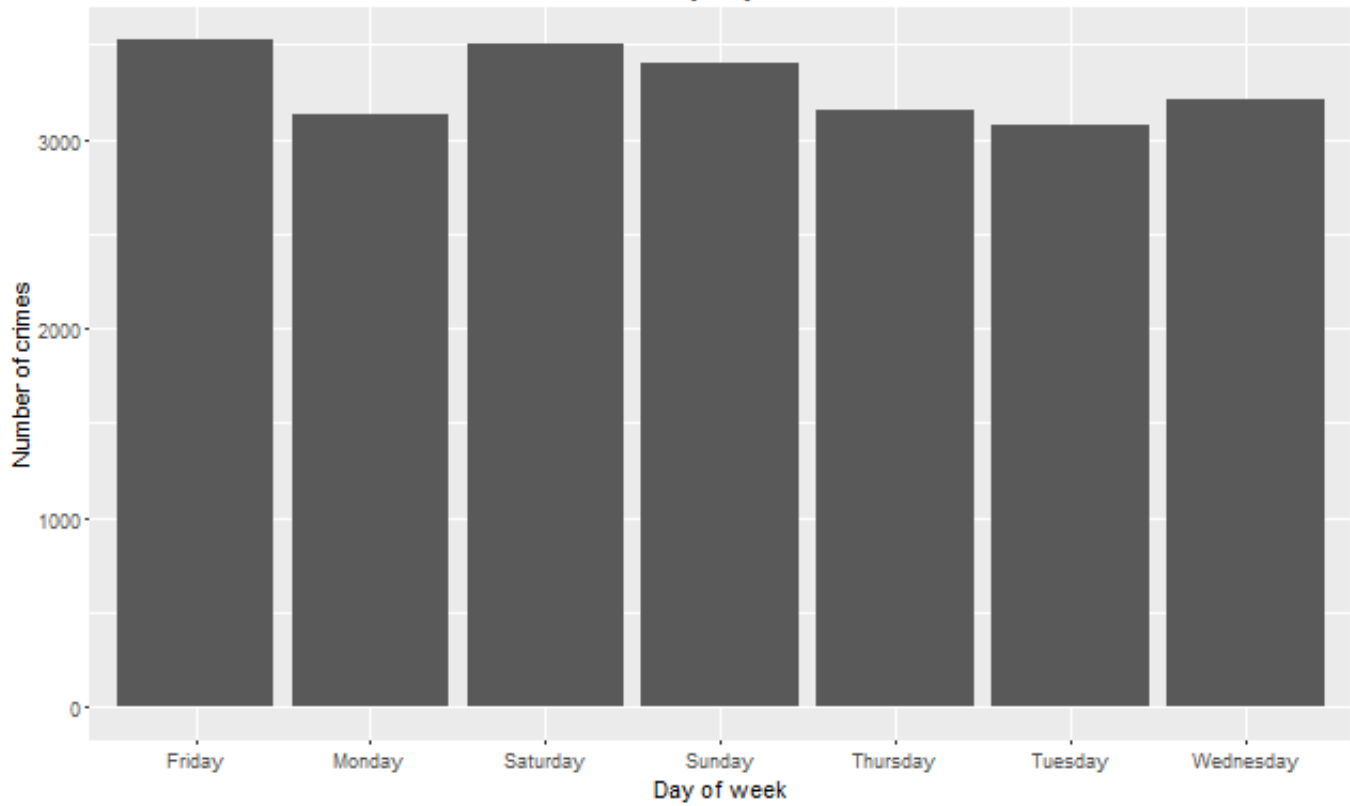
The police department reports on 37 different types of crime but this report will roll them up into only 14 categories of crime

The fields used from the police data are:

- category of crime committed (type of offense)
- day of the week of the crime's occurrence/reporting
- date of the week of the crime's occurrence/reporting
- longitude and latitude of the crime's occurrence
- description of the crime



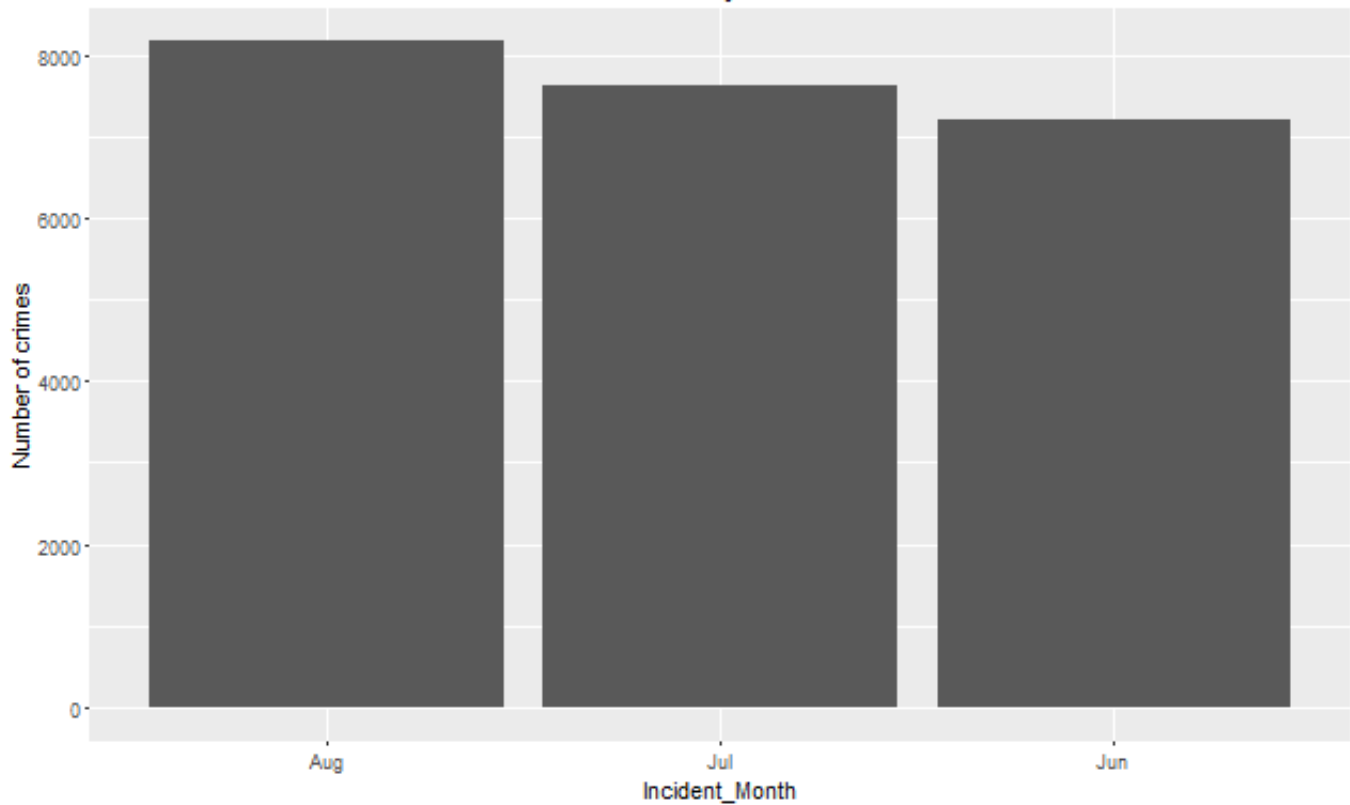
Crimes by day of week



Crimes By Month Barchart

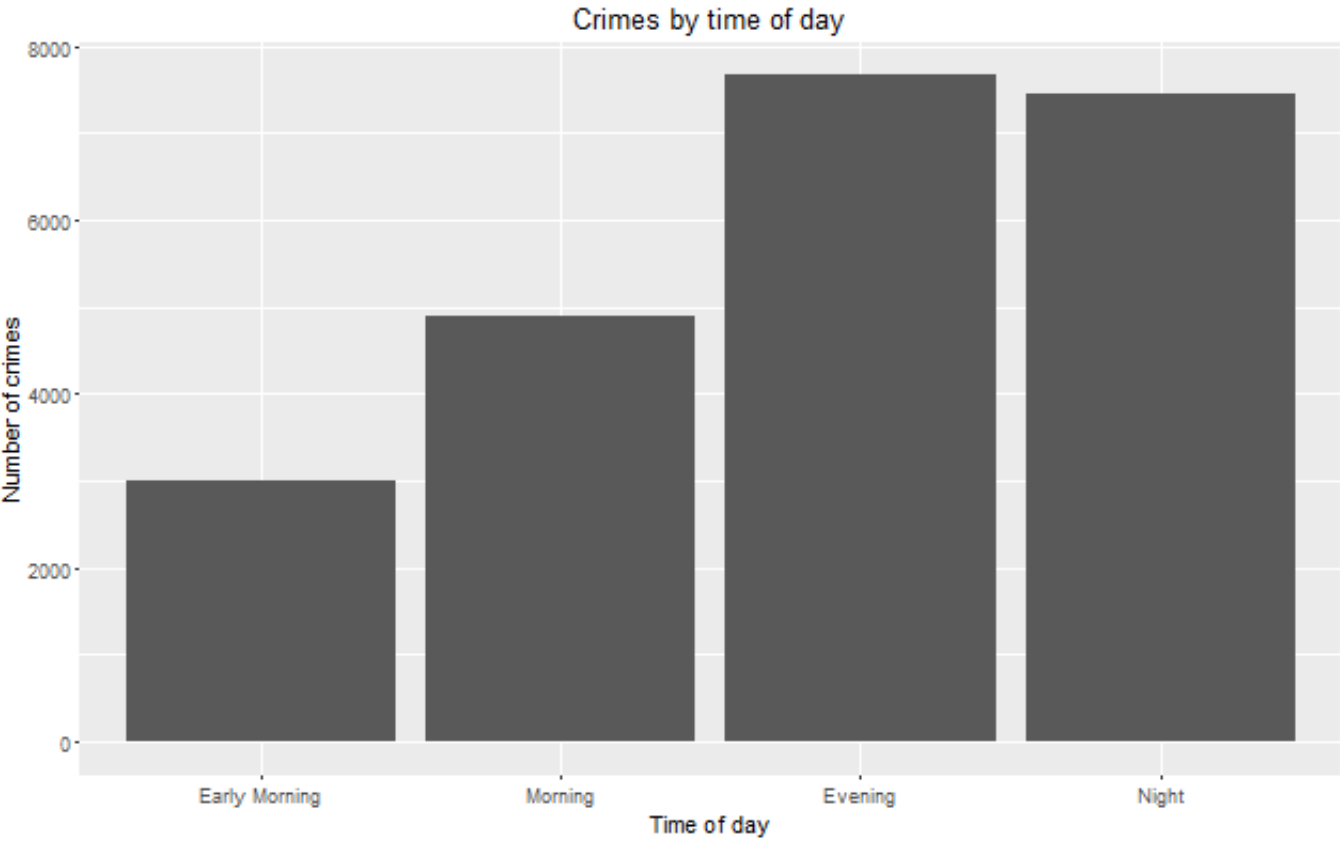
Types of Crimes By Month Barchart

Crimes by month



Crimes By Time Of Day Barchart

Types of Crimes By Time Of Day Barchart



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Categories Barchart

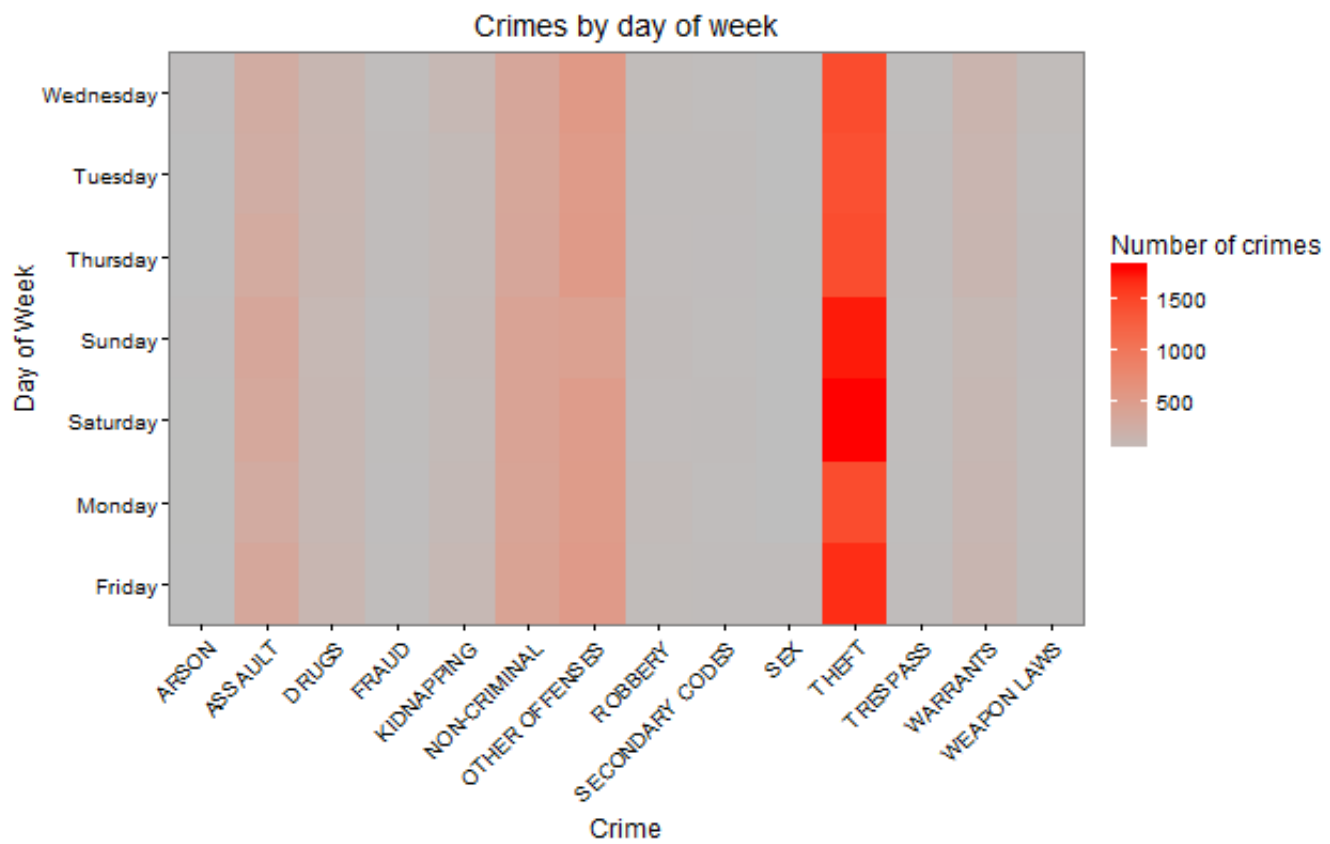
Table

	V1
ARSON	48
ASSAULT	2162
BRIBERY	0
BURGLARY	6
DISORDERLY CONDUCT	16
DRIVING UNDER THE INFLUENCE	51
DRUG/NARCOTIC	675
DRUNKENNESS	90
EMBEZZLEMENT	10
EXTORTION	5
FAMILY OFFENSES	8
FORGERY/COUNTERFEITING	16
FRAUD	143
GAMBLING	0

KIDNAPPING	46
LARCENY/THEFT	9191
LIQUOR LAWS	24
LOITERING	3
MISSING PERSON	534
NON-CRIMINAL	2701
OTHER OFFENSES	2415
PORNOGRAPHY/OBSCENE MAT	0
PROSTITUTION	72
ROBBERY	262
RUNAWAY	44
SECONDARY CODES	202
STOLEN PROPERTY	4
SUICIDE	14
SUSPICIOUS OCC	1143
TRESPASS	190
VANDALISM	14
VEHICLE THEFT	1812
WARRANTS	910
WEAPON LAWS	197

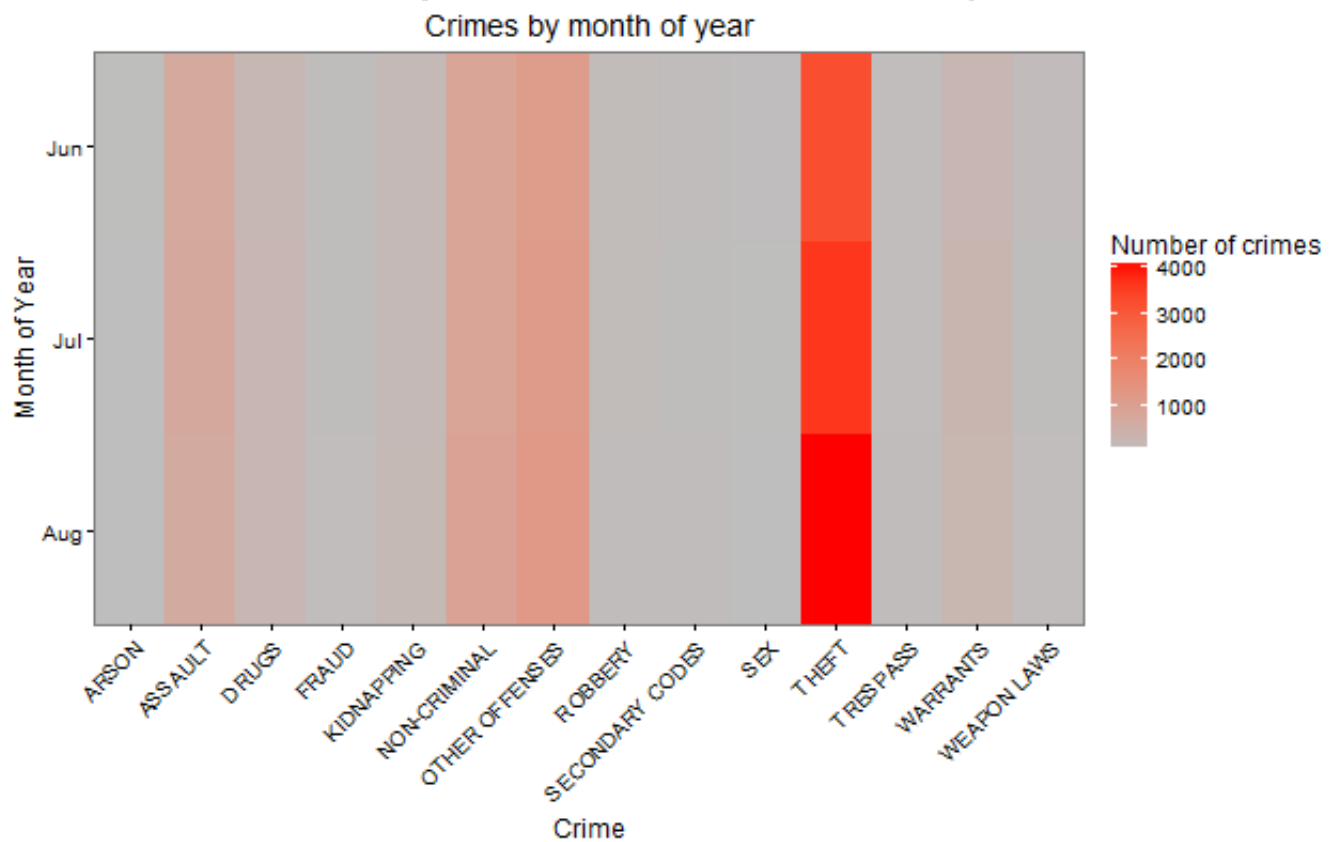
Crimes By Weekday Barchart

Types of Crimes By Weekday Barchart



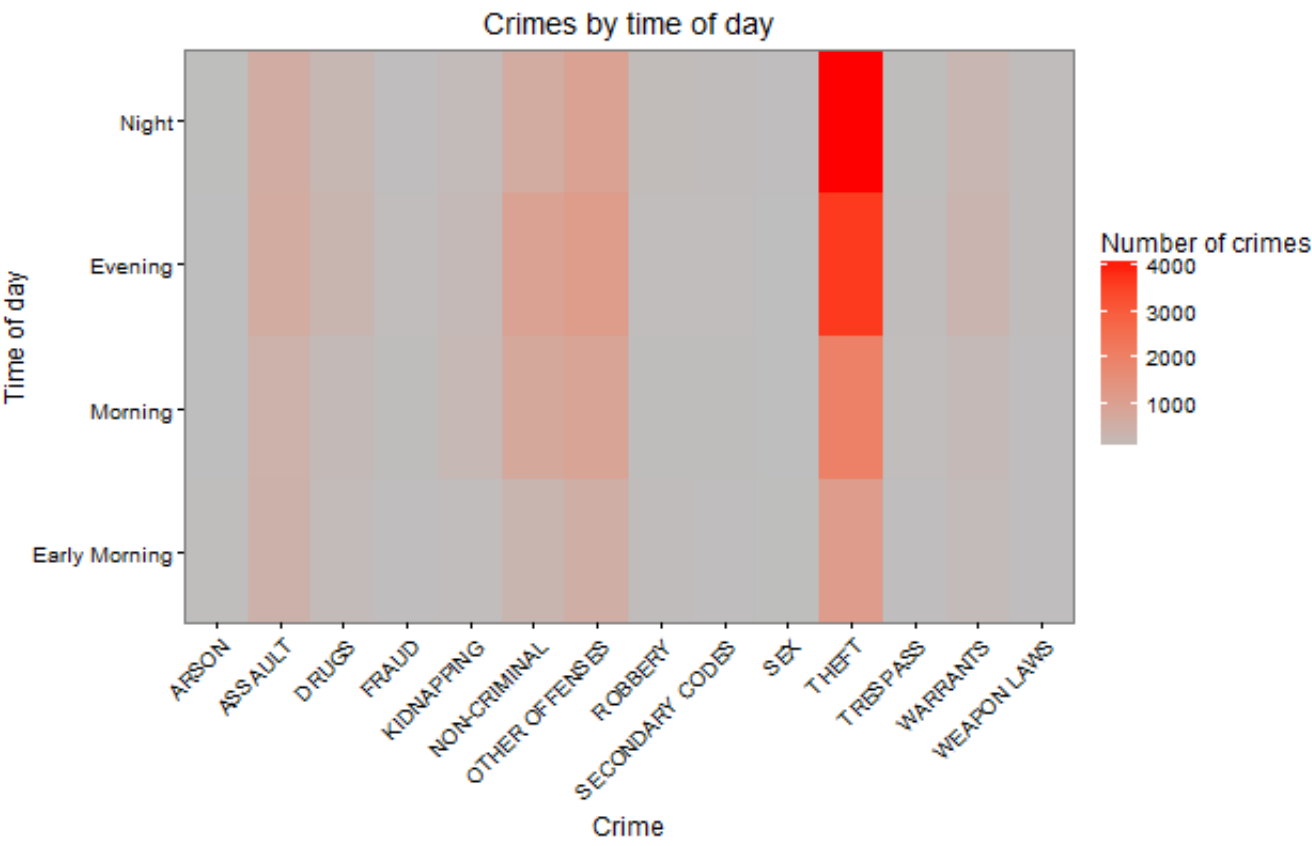
Crimes By Month Barchart

Types of Crimes By Month Barchart



Crimes By Time Of Day Barchart

Types of Crimes By Time Of Day Barchart



Zoom Level

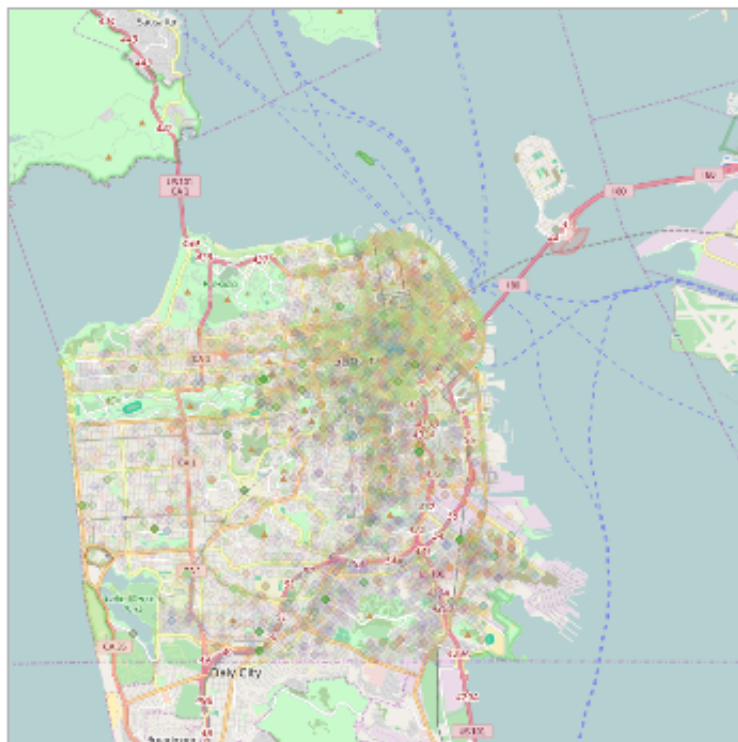


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Looking at the interactive map of San Francisco that shows reported sites of crime, a large number of the crimes happen in the northeastern part of the city.

Map exploration

Top Crimes in San Francisco



Type of Crime

-  ASSAULT
-  DRUG/NARCOTIC
-  LARCENY/THEFT
-  MISSING PERSON
-  NON-CRIMINAL
-  ROBBERY
-  SECONDARY CODES
-  SUSPICIOUS OCC
-  TRESPASS
-  VEHICLE THEFT
-  WARRANTS
-  WEAPON LAWS