

Exploratory Analysis of a Crime Data

Team: Extra-Idiotic Family

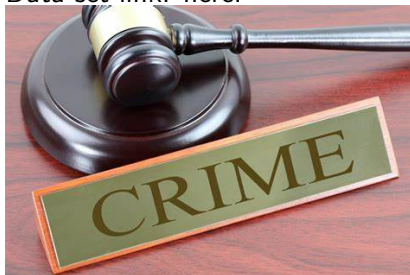
University of Nebraska-Lincoln

December 4, 2022

Dataset Discription

This dataset reflects incidents of crime in the City of Los Angeles dating back to 2020. There are 521k rows (each row is a crime incident) and 28 columns (Variables)

Data set link: [here](#).



Variables Used under Analysis

- ▶ Initially there were 28 variables in the data set.
- ▶ We focused only several variables for our analysis.

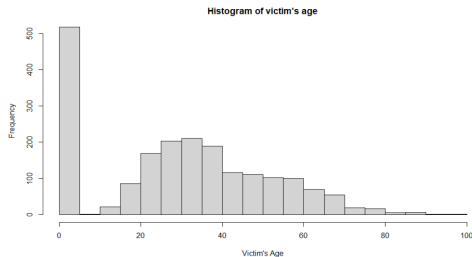
Variable	Description
AREA	Geographic Areas in Los-Angeles
AREA NAME	Name designation of the area
Crm cd	crime code
Crm cd Desc	Defines the crime Code Provided
Vict Age	Age of the Victim
Vict Sex	Sex of the Victim
Vict Descent	Descent Code of the Victim
Premis Desc	Premises Description
Weapon Desc	weapon used in crime

Method and analysis (re-categorizing crimes)

- ▶ originally there were 73 types of crime.
- ▶ We re-categorized them as follows

crime type	n
ASSAULT	441
BURGLARY	1012
EXTREME CRIMES	86
OTHER CRIMES	75
ROBBERY	94
SEXUAL MISCONDUCT	37
TRESPASSING	30
VANDALISM	186
VIOLATION	39

Method and analysis (Cleaning Age variable)



Highlights

- ▶ Unusual number of Zero records.
- ▶ replace them with median of age.
- ▶ continue the analysis.

Method and analysis (Re-categorizing Descent variable)

Victim descent n

264

A 39

B 298

C 4

F 8

H 594

J 4

K 6

L 1

O 172

P 2

U 3

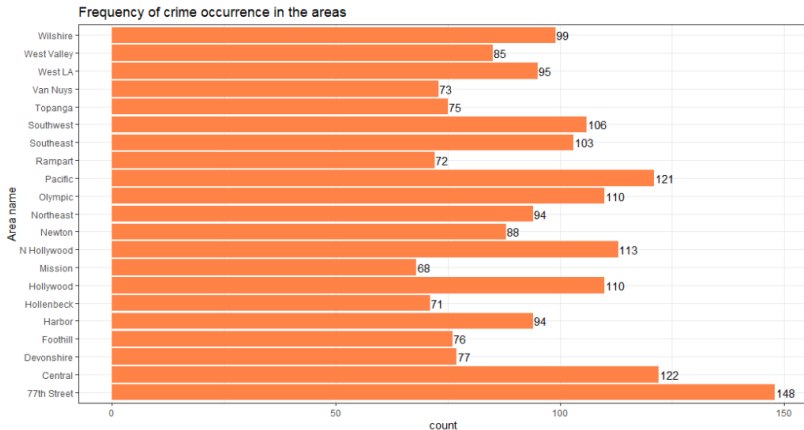
V 2

W 403

Symbol	Descecnt
A	Other Asian
B	Black
H	Hispanic/Latin/Mexican
O	other
W	white
	Minor or Unknown

relationship with the area and the crime

which area is the most awfull to live.



Highlights

- ▶ 77th street has the highest number of crimes.
- ▶ 100+ crimes have been reported over some other areas
- ▶ Please avoid those areas.

Which type of crimes ocured most

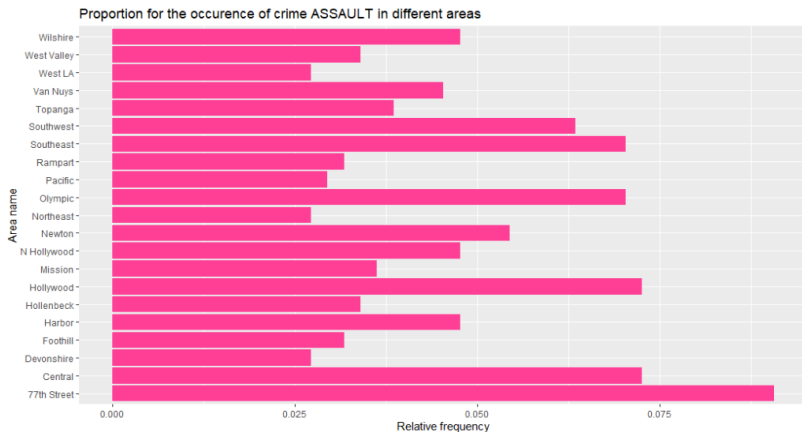
Highlights

► Burglary And Assault

crime type	n
ASSAULT	441
BURGLARY	1012
EXTREME CRIMES	86
OTHER CRIMES	75
ROBBERY	94
SEXUAL MISCONDUCT	37
TRESPASSING	30
VANDALISM	186
VIOLATION	39



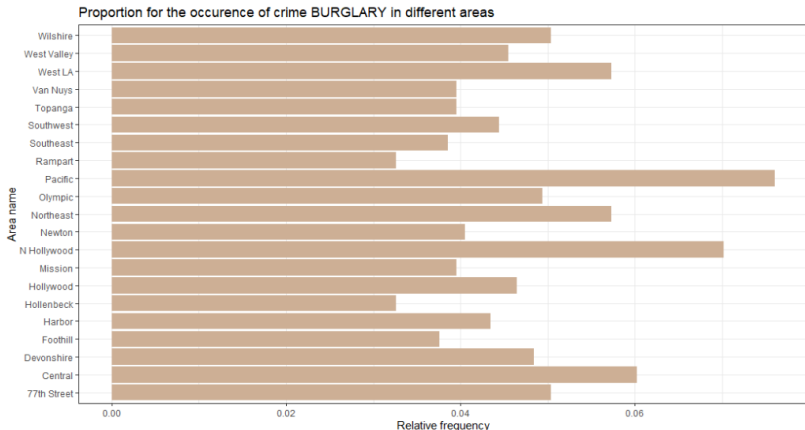
Relationship between the area and the crime "Assault"



Highlights

- ▶ 77th street
- ▶ Southeast, Olympic, Hollywood, Central

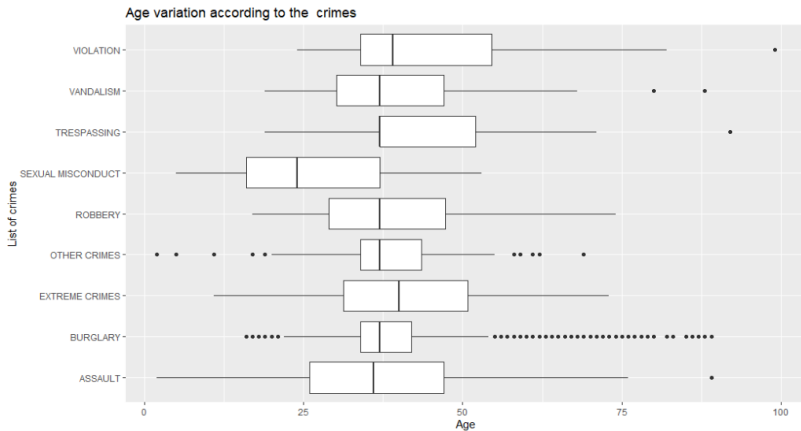
Relationship between the area and the crime "Burglary"



Highlights

- ▶ Pacific
- ▶ West LA, Northeast, N Hollywood, Central

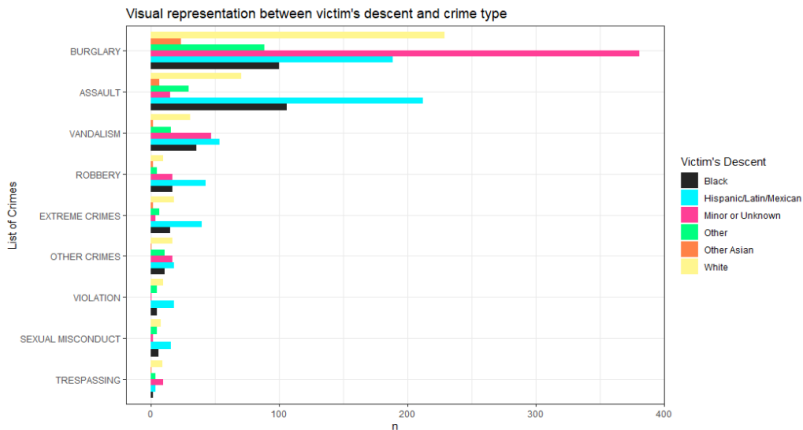
Relationship between the age and the crime type



Highlights

- Sexual Misconduct

Relationship between the Descent and the crime type



Highlights

- ▶ Burglary - White people
- ▶ All other types - Hispanic/Latin/Mexican people