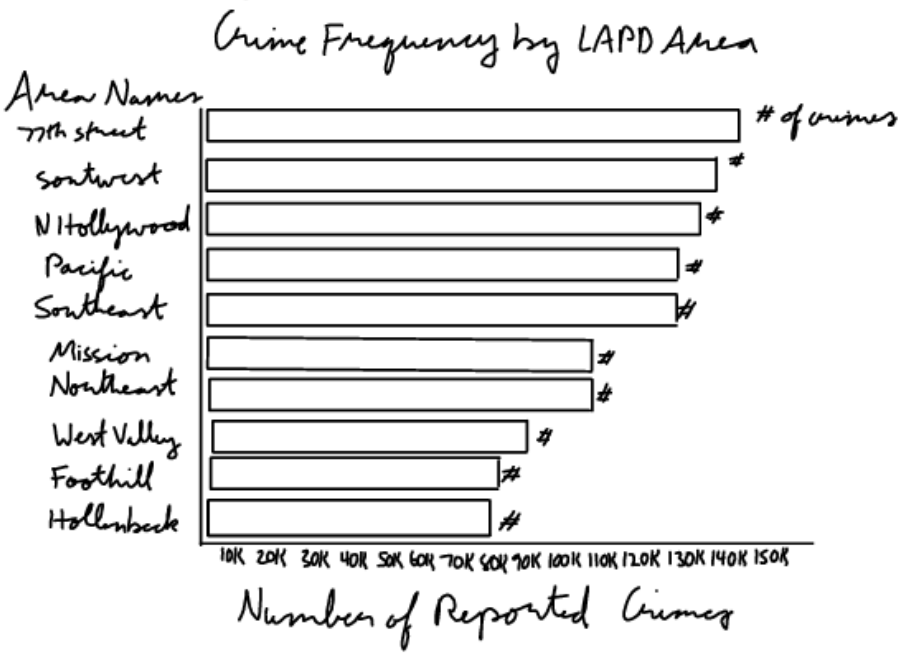
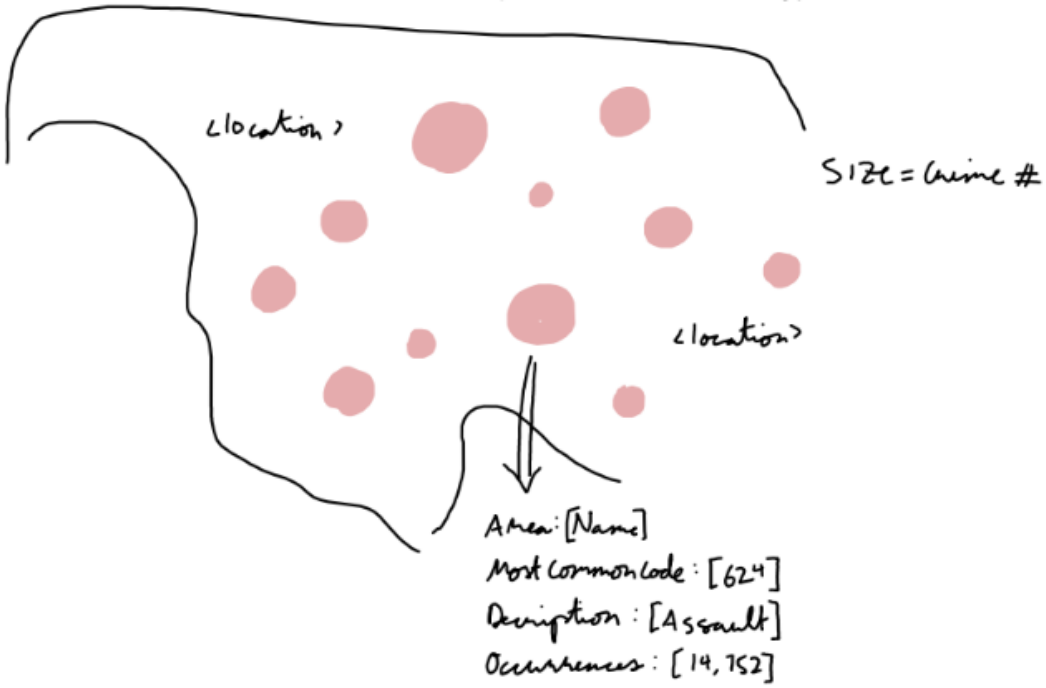
Storyboarding and Narrative Development

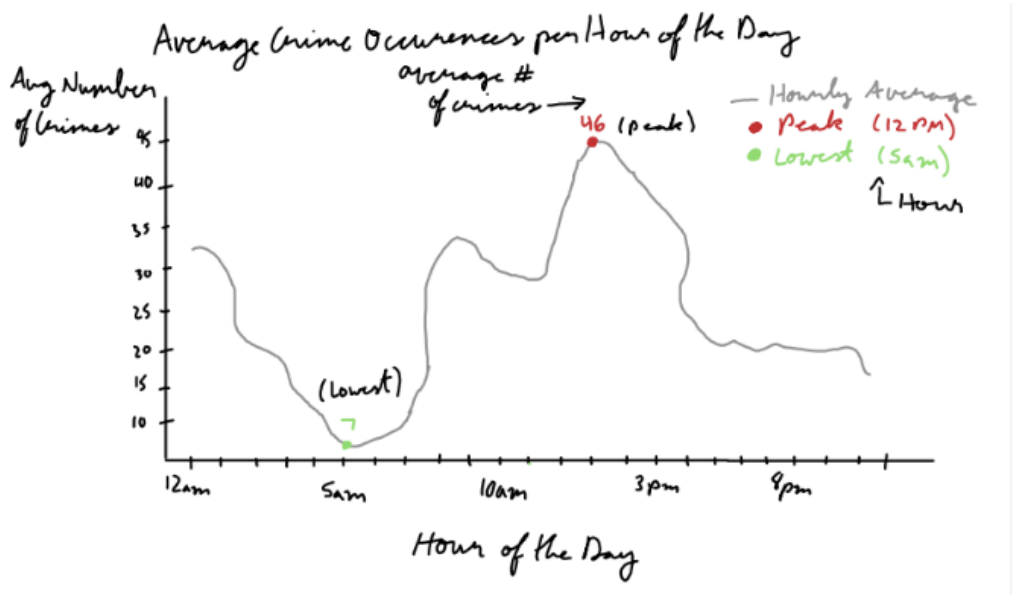
Step 1: Sketch Your Visualization for Explanation

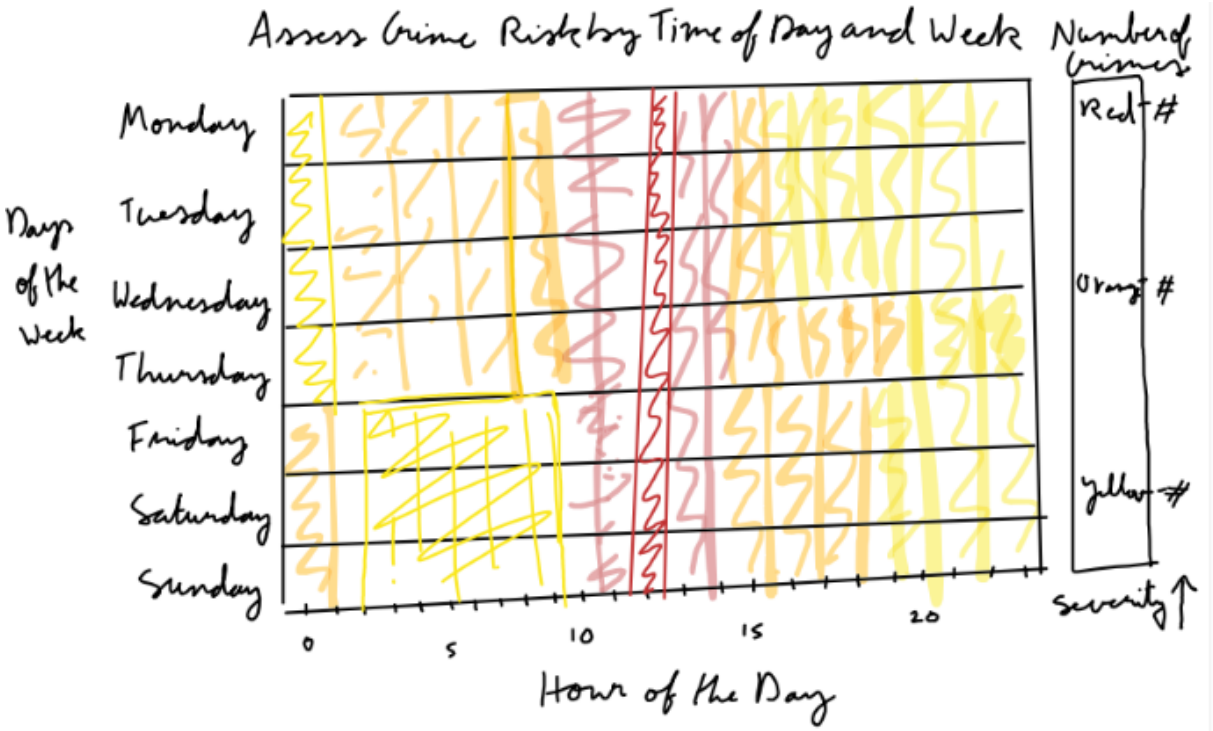
Identify Crime Hotspots:



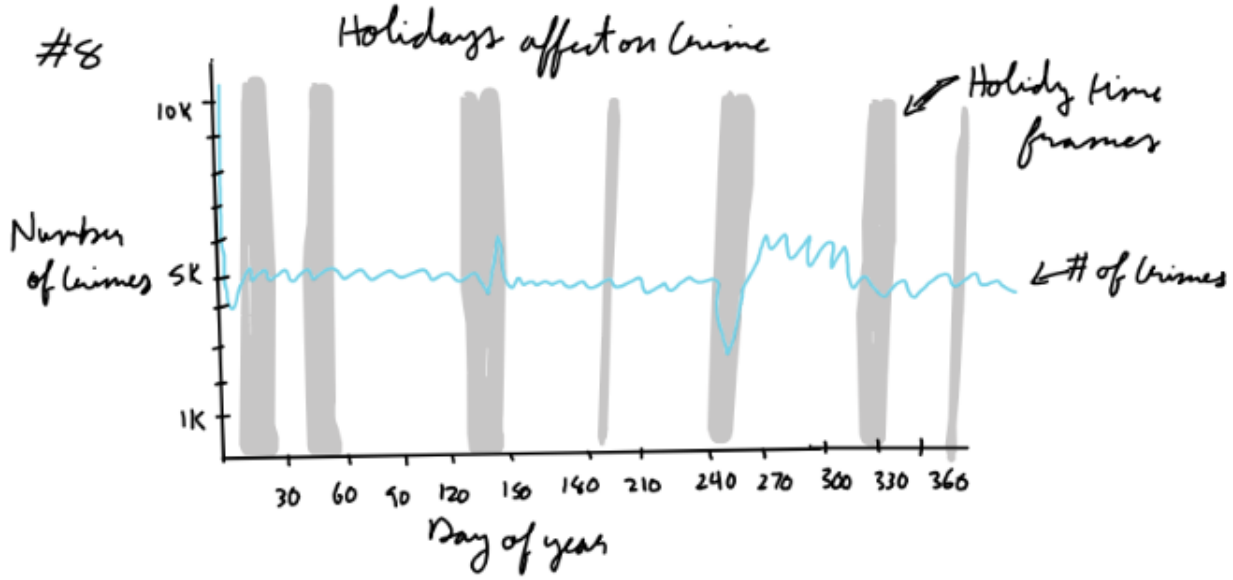


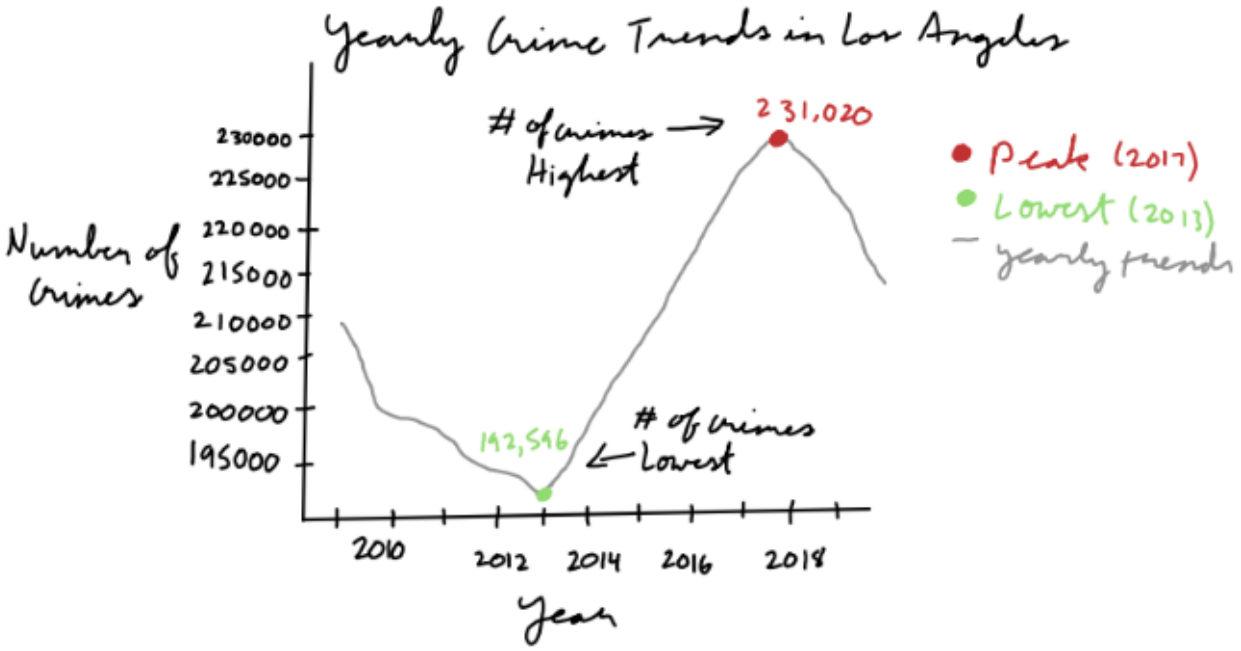
Examining Temporal Crime Patterns:



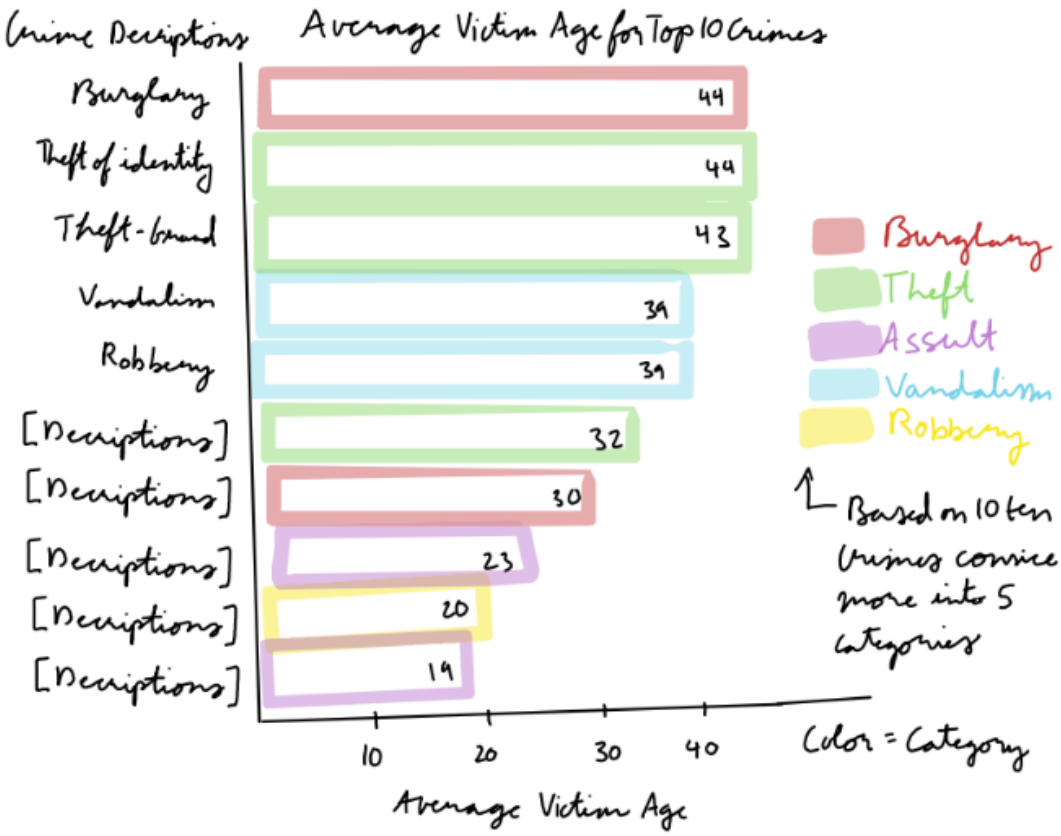


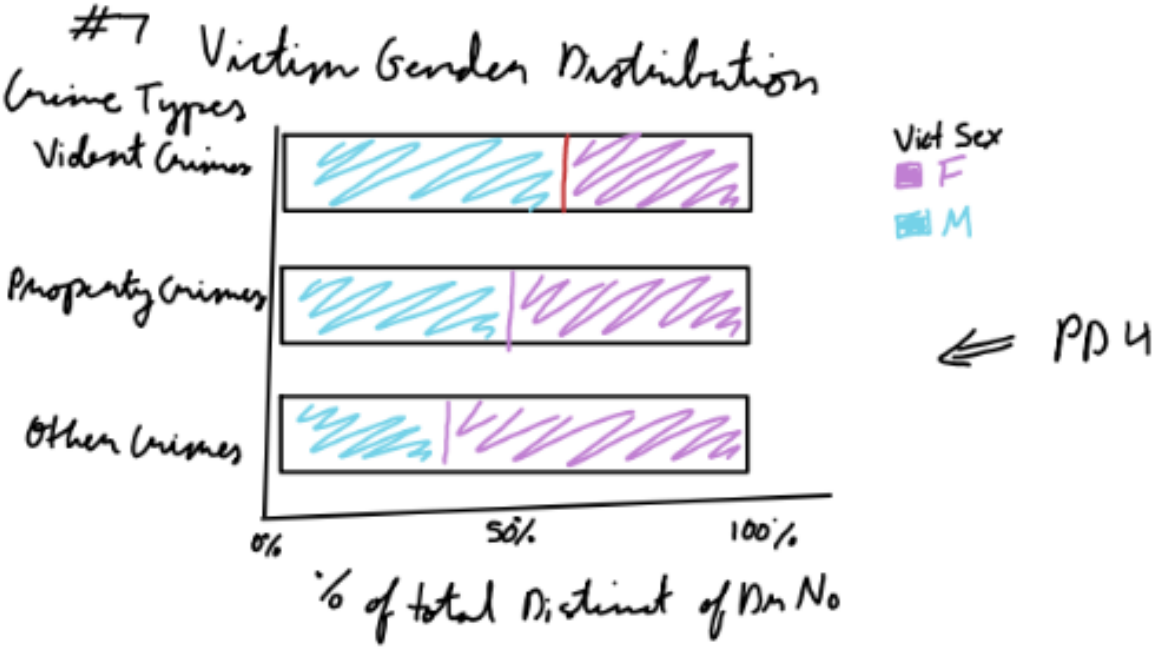
#8


Holidays affect on Crime
Holidy time frames
10K
5K
1K
Number of Crimes
# of Crimes
30 60 90 120 150 140 210 240 270 300 330 360
Day of year


Yearly Crime Trends in Los Angeles
231,020
# of crimes → Highest
Peak (2017)
Lowest (2013)
yearly trends
230000
225000
220000
215000
210000
205000
200000
195000
Number of Crimes
192,596
# of crimes ← Lowest
2010 2012 2014 2016 2018
Year

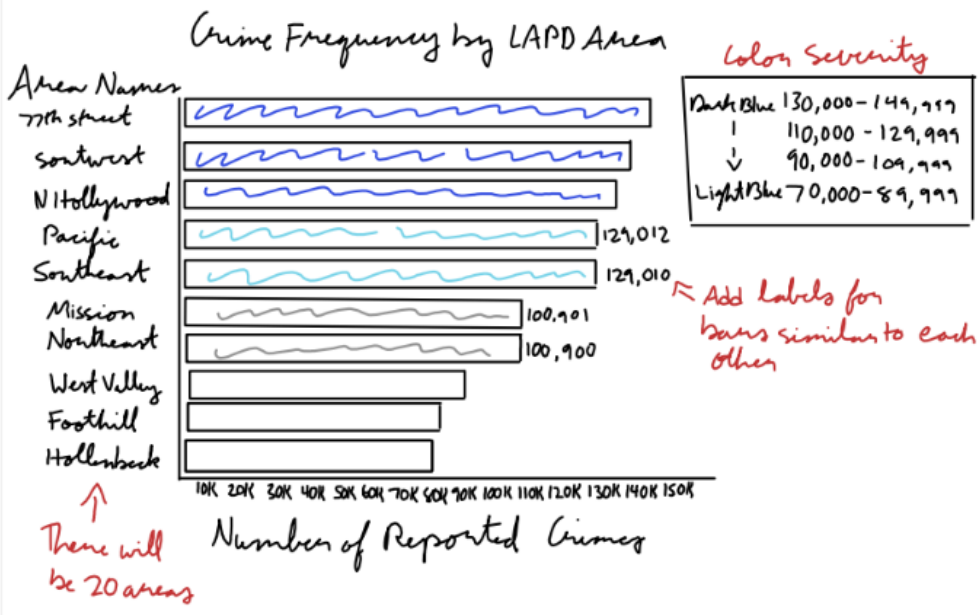
Demographic Factors and Implications



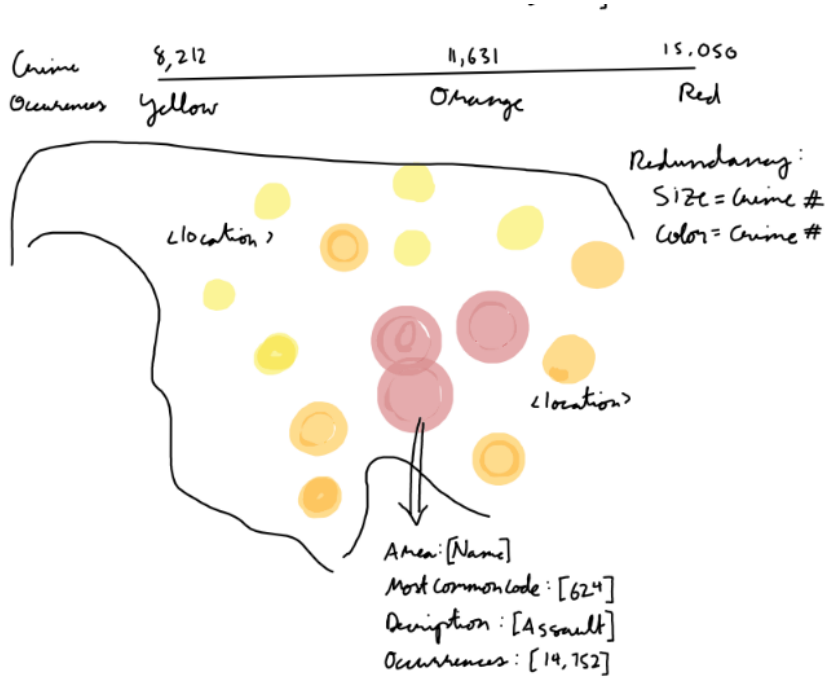


Step 2: Apply Decluttering & Clarity Techniques & Step 3: Define the Key Takeaway

Identify Crime Hotspots:

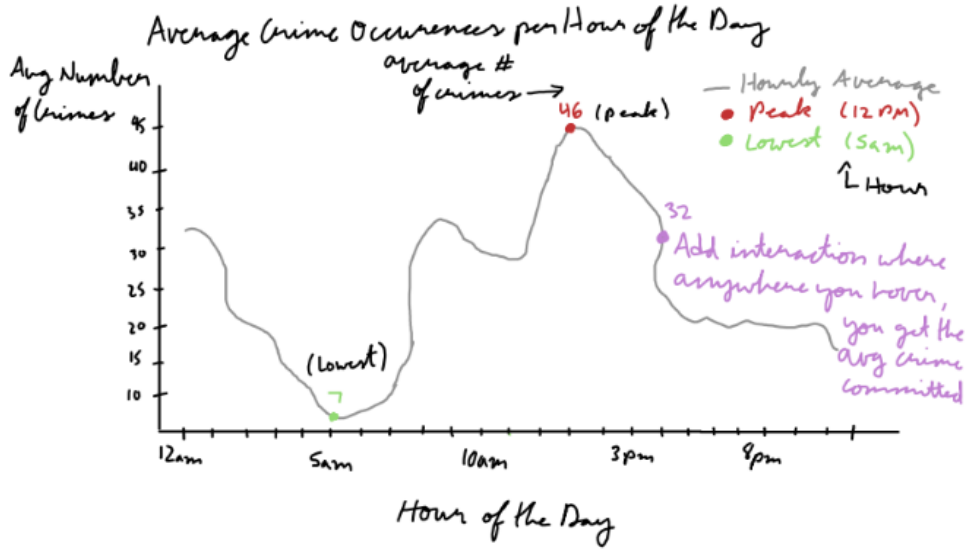


Takeaway: 77th street and Southwest have the highest frequency of crime in LA. There is a significant difference between these two areas and the rest of the crime in Los Angeles.

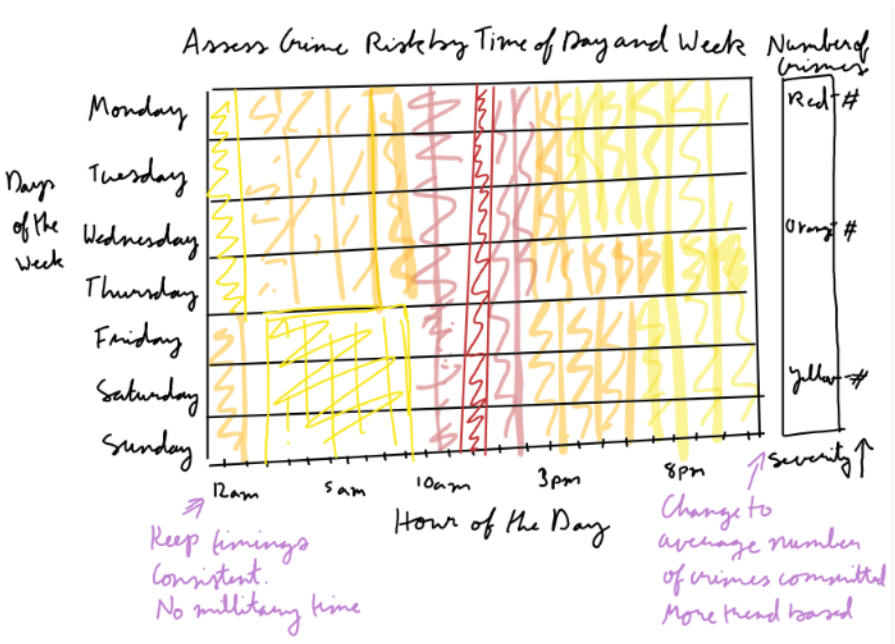


Takeaway: The three most prominent crime hotspots, 77th street, southwest, N Hollywood are located south of LA are located within proximity to each other. Among these areas, a crime code of 624 is most common.

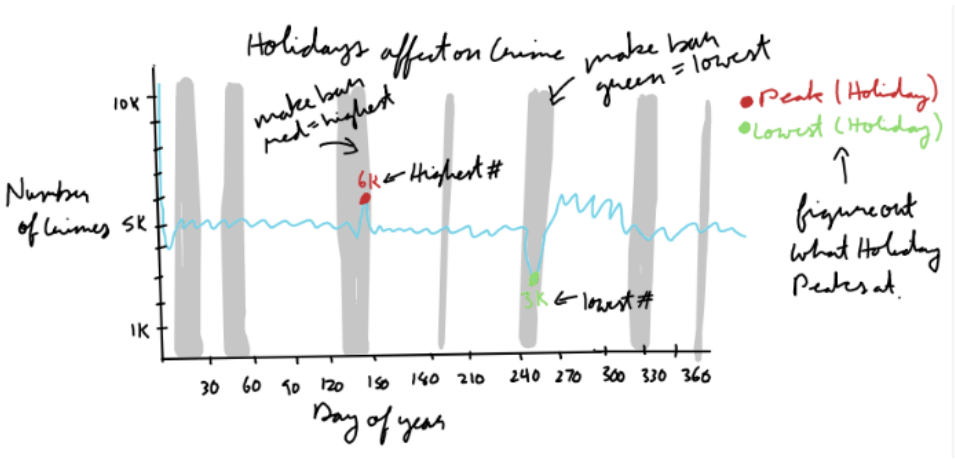
Examining Temporal Crime Patterns:



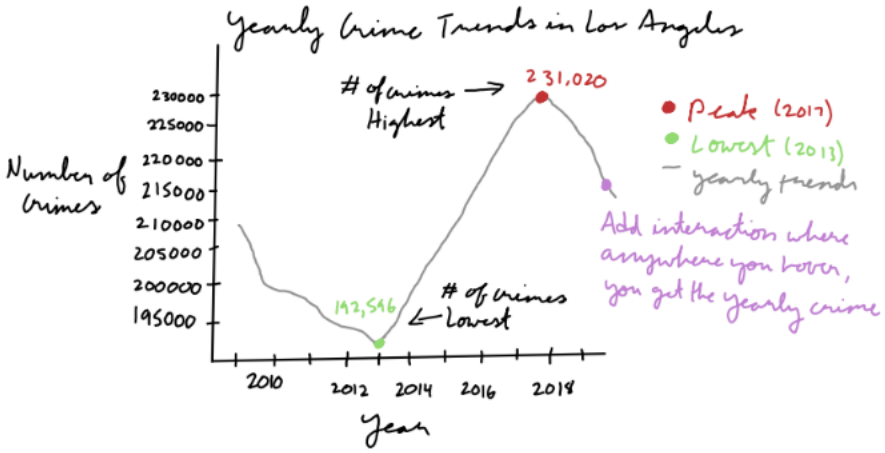
Takeaway: Crime in LA peaks at noon and is at its lowest at 5 a.m. After noon, crime remains high until 8 p.m. where it begins to steadily decline until it reaches its lowest at 5.



Takeaway: Across every day of the week, crime peaks at 12 p.m. and maintains a high rate until midnight where it sees a decline.

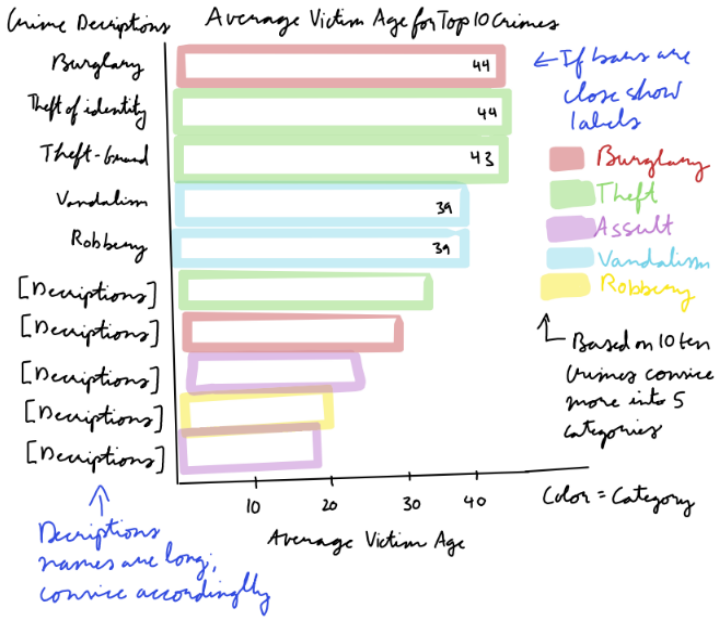


Takeaway: Crime remains mostly steady throughout the year until roughly day 260 (Early September) where a spike is seen that lasts for over 50 days. Crime peaks near day 140 (the end of May) and reaches its lowest during day 250(early September).

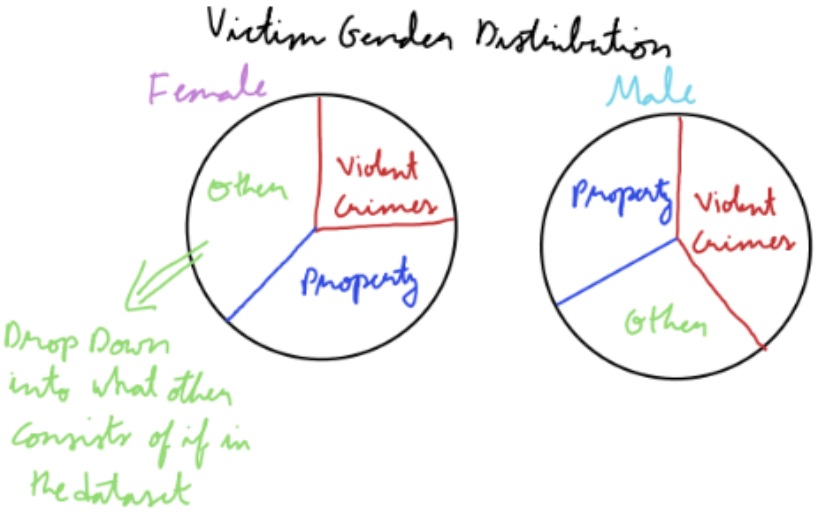


Takeaway: Crime was at its lowest in the 2010s during 2013 and rose to its peak in 2017. Since its peak in 2017, crime has been on the decline in Los Angeles.
Deliverable:

Demographic Factors and Implications



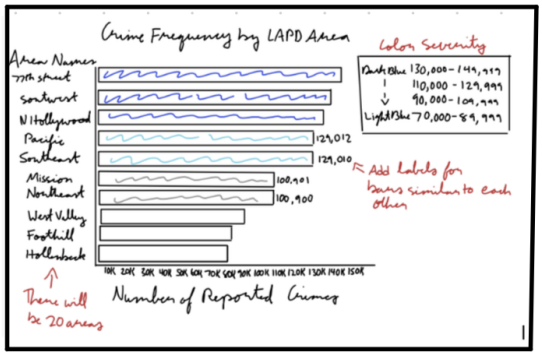
Takeaway: The average age of victims of the most common type of crimes is in their late 30s to early 40s.



Takeaway: The distributions of crimes are roughly the same between both with women facing slightly higher rates of property crime while men face slightly higher rates of violent crime.

Step 4: Build Your Visual Narrative

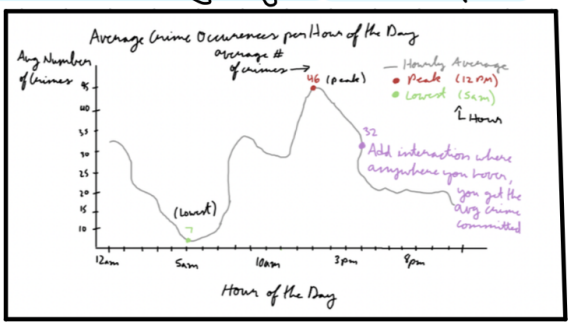
Takeaway Title: 77th Street and Southwest are LA's Top Crime Hotspots



Now that we understand which areas experience the highest concentration of crime, we will explore <u>when</u> these incidents most commonly occur.

↓

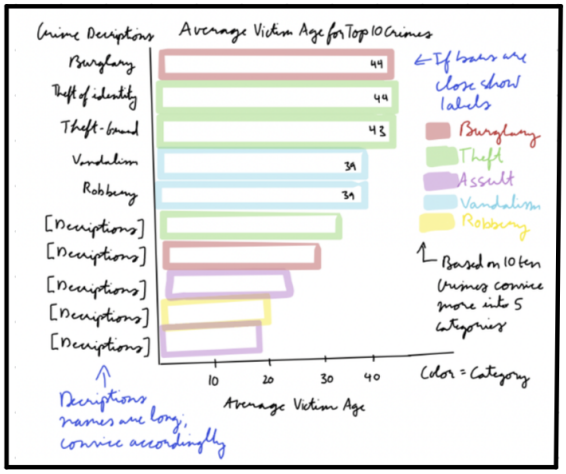
Takeaway Title: Crime is at its lowest around 5am while peaking around noon a remaining high until 8pm



These temporal patterns show what times of the day are the most crime-dense and, therefore, dangerous. Next, let's examine <u>who</u> is most at risk during these high-crime periods

↓

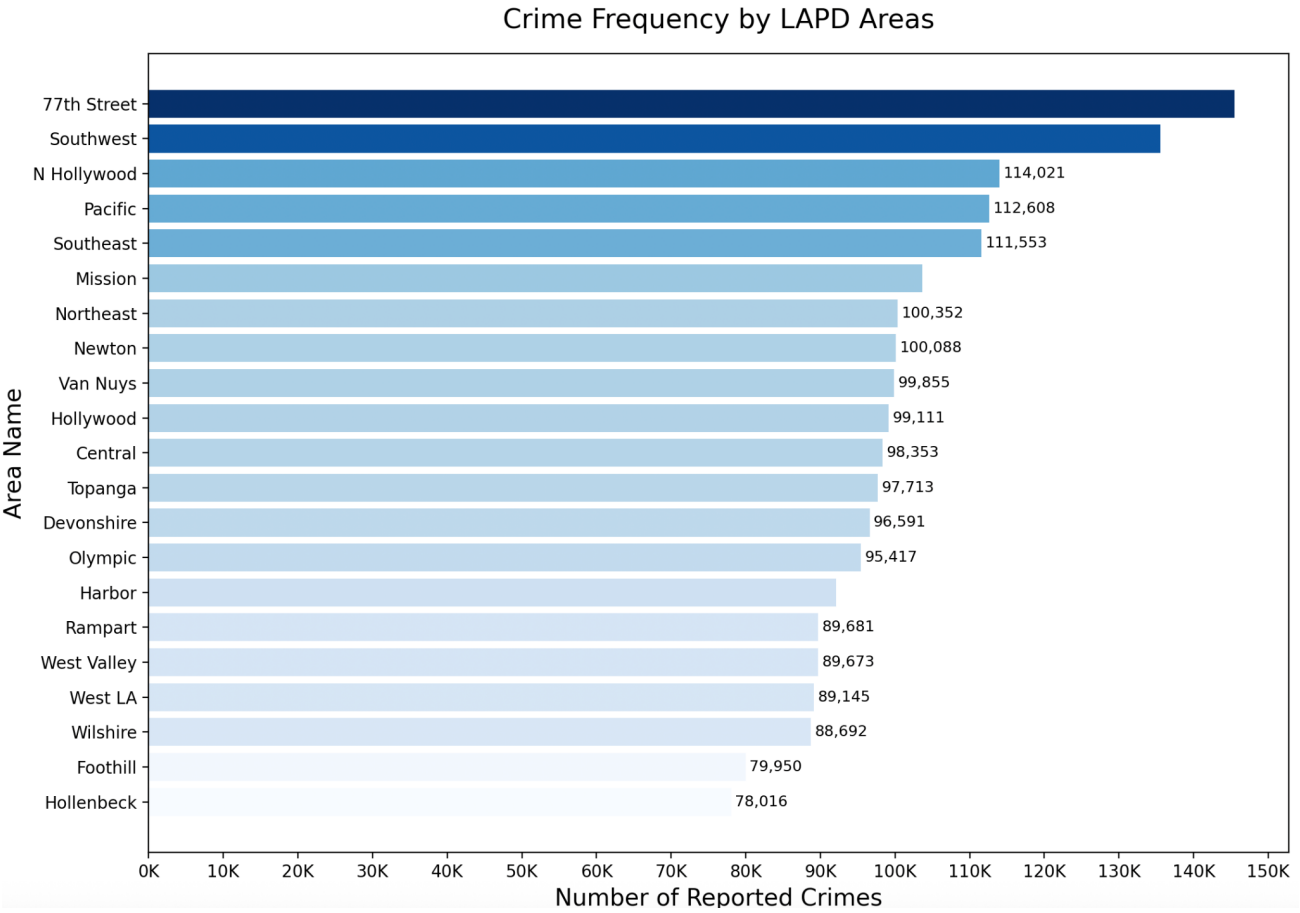
Takeaway Title: Victims of the most common crime types tend to be in their late 30s to early 40s

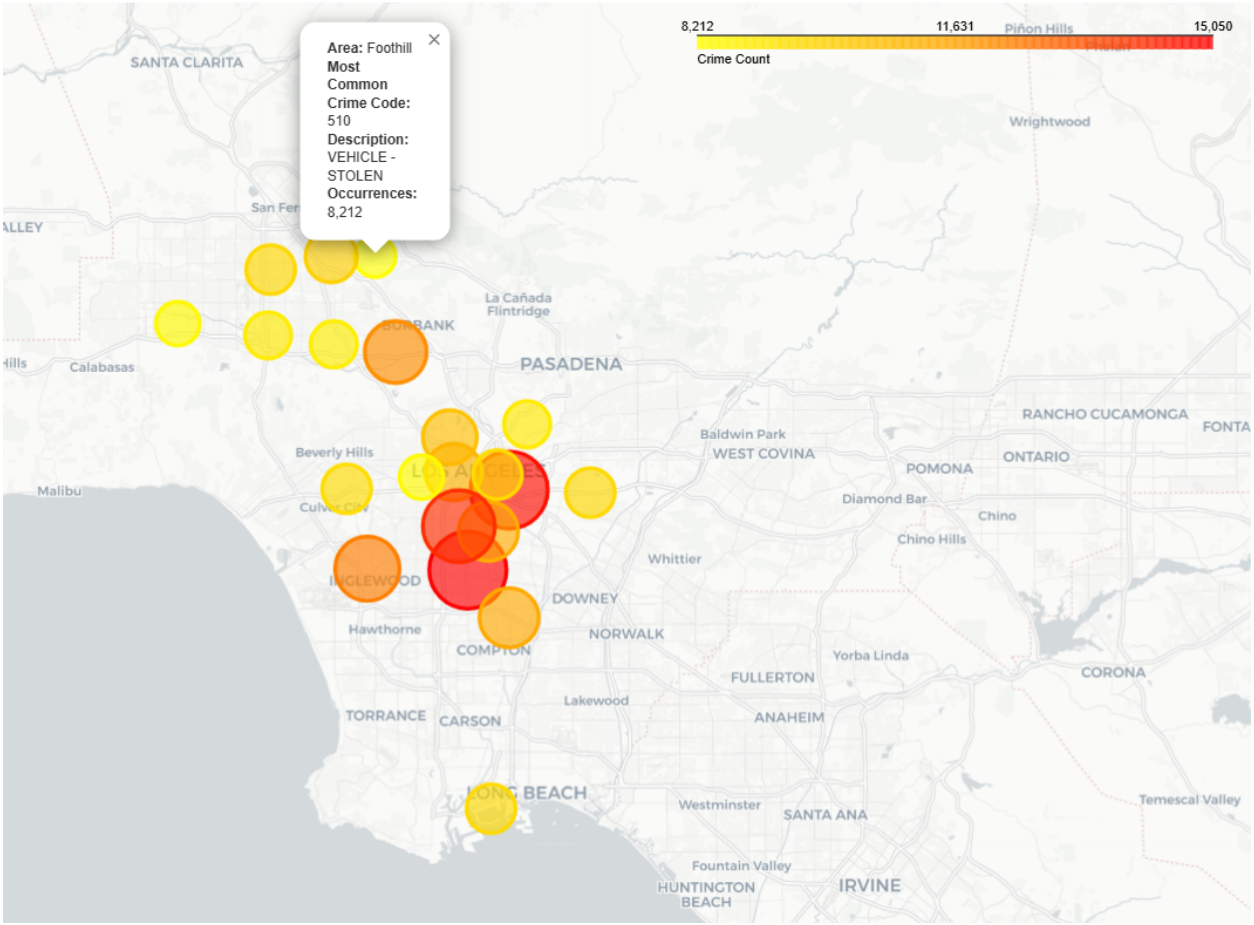


By combining where crime occurs, when it peaks, and which age groups are most affected gives a clearer picture of personal risk and safety, which allows new residents to make informed decisions

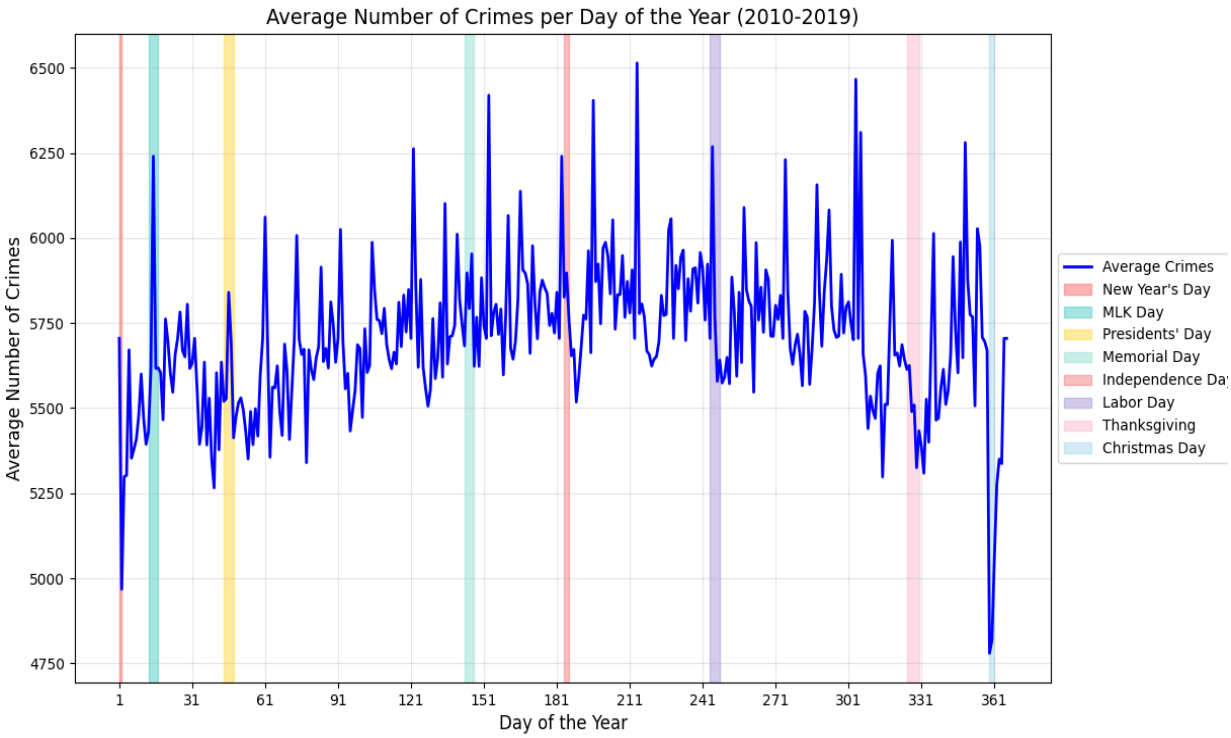
Step 5: Create Final Visualizations

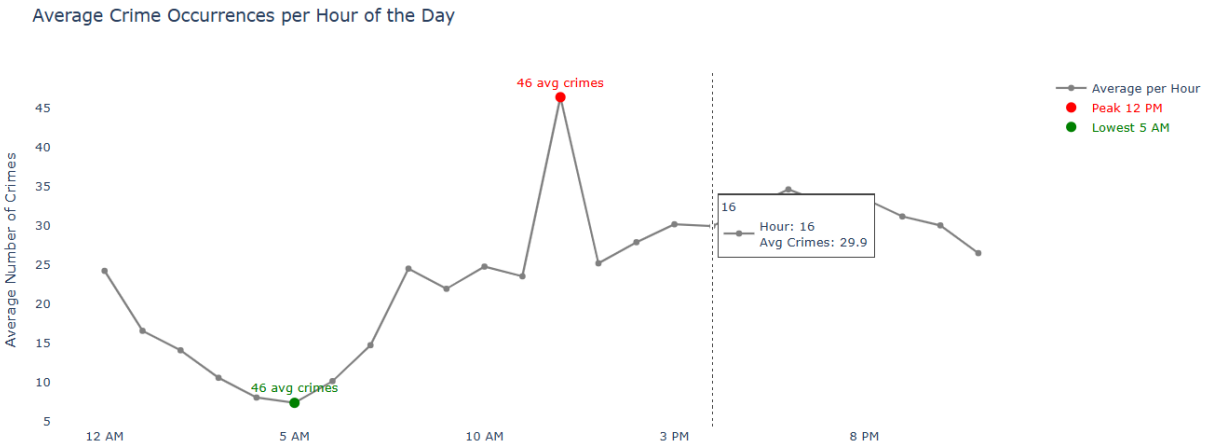
Identify Crime Hotspots:

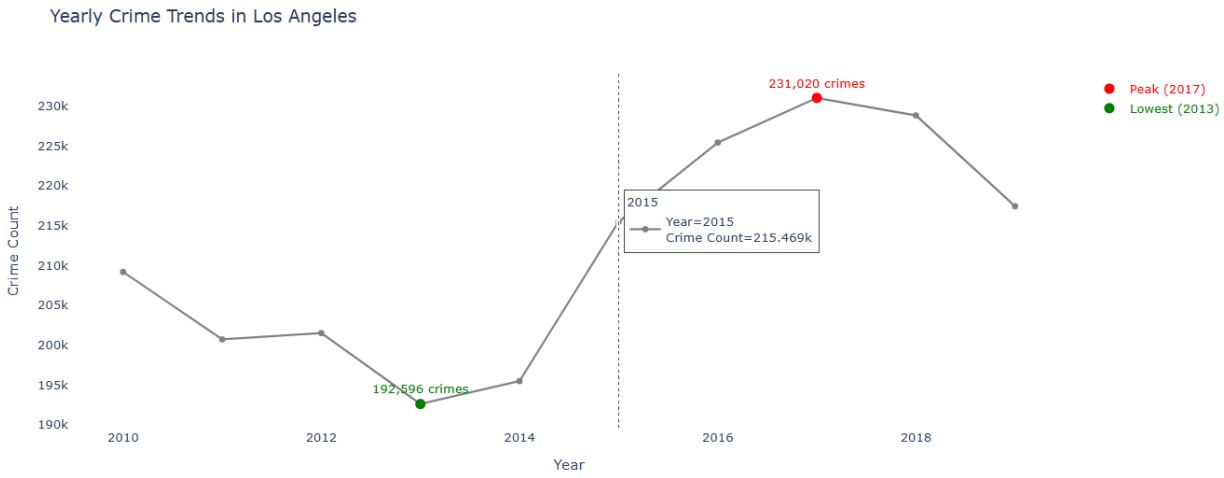



Area: Foothill
Most Common Crime Code: 510
Description: VEHICLE - STOLEN
Occurrences: 8,212
8,212
11,631
15,050
Crime Count
SANTA CLARITA
Piñon Hills
Wrightwood
La Cañada Flintridge
PASADENA
Calabasas
Beverly Hills
Malibu
Baldwin Park
WEST COVINA
RANCHO CUCAMONGA
ONTARIO
POMONA
Diamond Bar
Chino
Chino Hills
Whittier
DOWNEY
NORWALK
Hawthorne
COMPTON
Yorba Linda
FULLERTON
CORONA
Lakewood
TORRANCE
CARSON
ANAHEIM
LONG BEACH
Westminster
SANTA ANA
Temescal Valley
Fountain Valley
HUNTINGTON BEACH
IRVINE

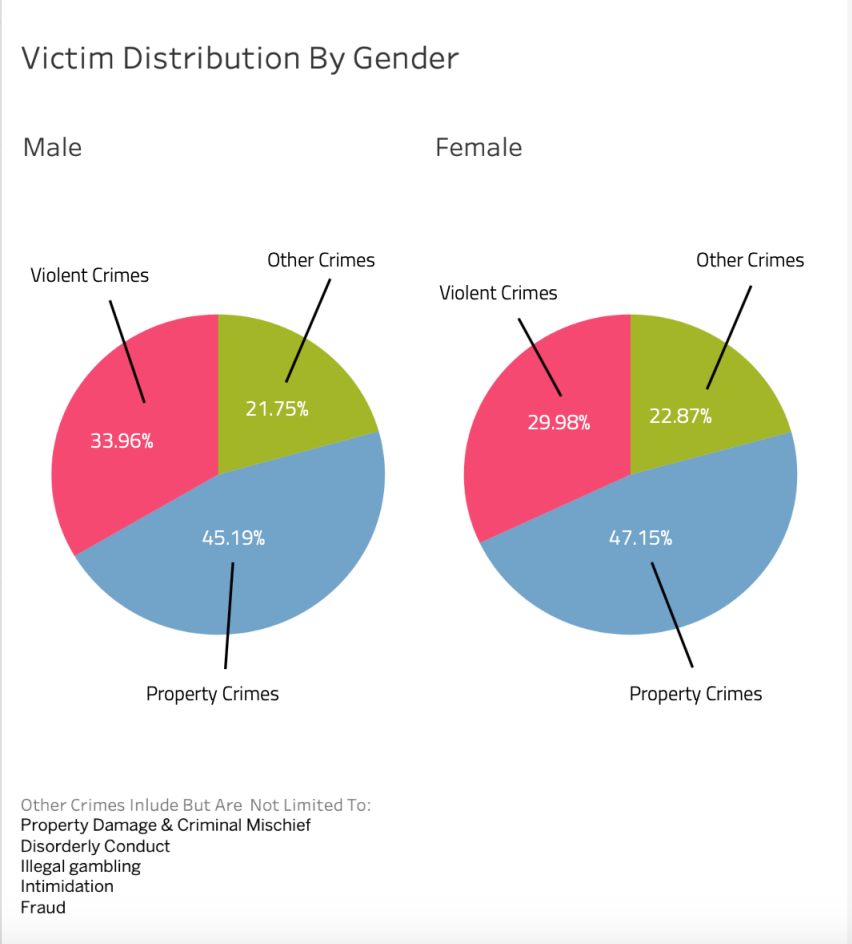
Examining Temporal Crime Patterns:

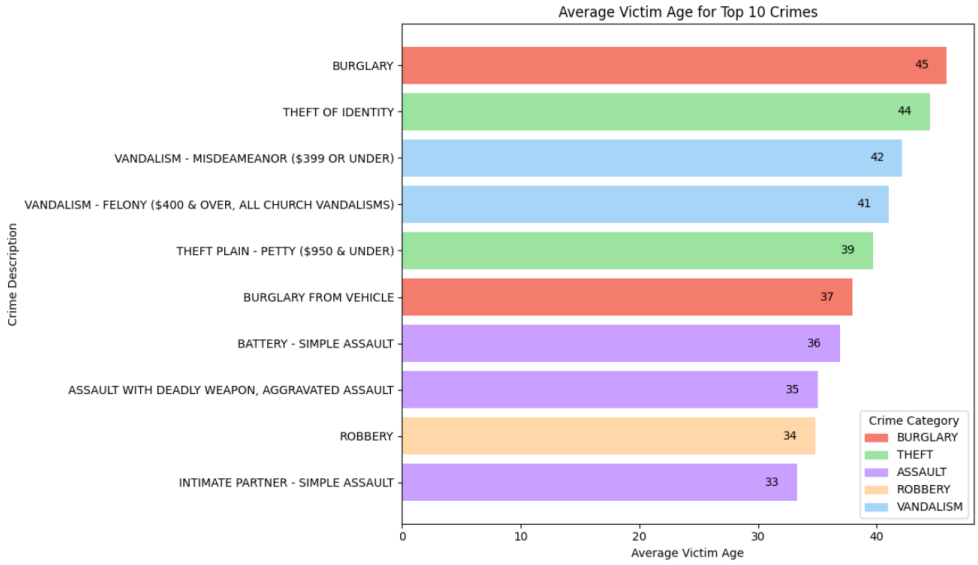






Demographic Factors and Implications




Average Victim Age for Top 10 Crimes
BURGLARY
THEFT OF IDENTITY
VANDALISM - MISDEAMEANOR ($399 OR UNDER)
VANDALISM - FELONY ($400 & OVER, ALL CHURCH VANDALISMS)
THEFT PLAIN - PETTY ($950 & UNDER)
BURGLARY FROM VEHICLE
BATTERY - SIMPLE ASSAULT
ASSAULT WITH DEADLY WEAPON, AGGRAVATED ASSAULT
ROBBERY
INTIMATE PARTNER - SIMPLE ASSAULT
45
44
42
41
39
37
36
35
34
33
Crime Description
Average Victim Age
0
10
20
30
40
Crime Category
BURGLARY
THEFT
ASSAULT
ROBBERY
VANDALISM