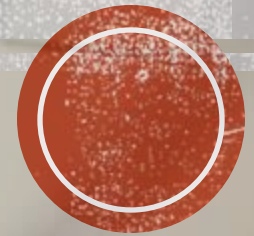


# **LA CRIME ANALYSIS 2020-2023**



Eric Shih, Stacie Sauer-Rackham, Michéal McCloskey, Tasnia Wahid



# AGENDA

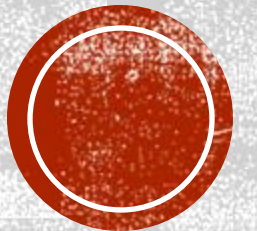
- Has overall crime increased, decreased, or remained stable in the LA area across different categories since Covid?
- If so, which crimes have increased/ decreased the most?
- Do geography patterns differ across different crime categories since Covid?
- Are there any specific years or periods in the dataset that saw significant changes in crime rate since Covid?
- Are there specific neighborhoods or communities with higher crime rates than others?
- Are there any demographic groups disproportionately represented as victims or perpetrators of crime?

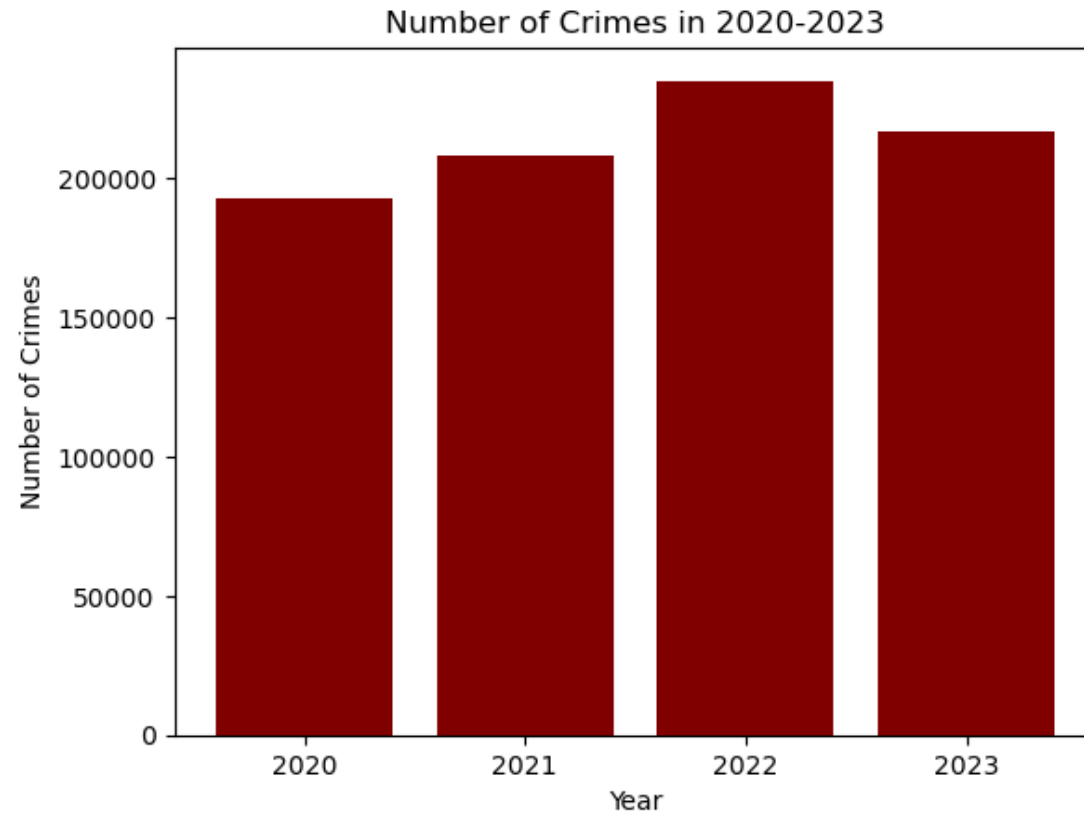




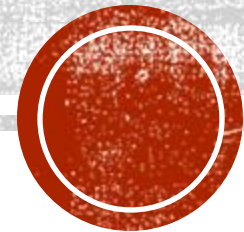
**HAS THE OVERALL CRIME  
INCREASED, DECREASED, OR  
REMAINED STABLE ACROSS  
DIFFERENT CATEGORIES**

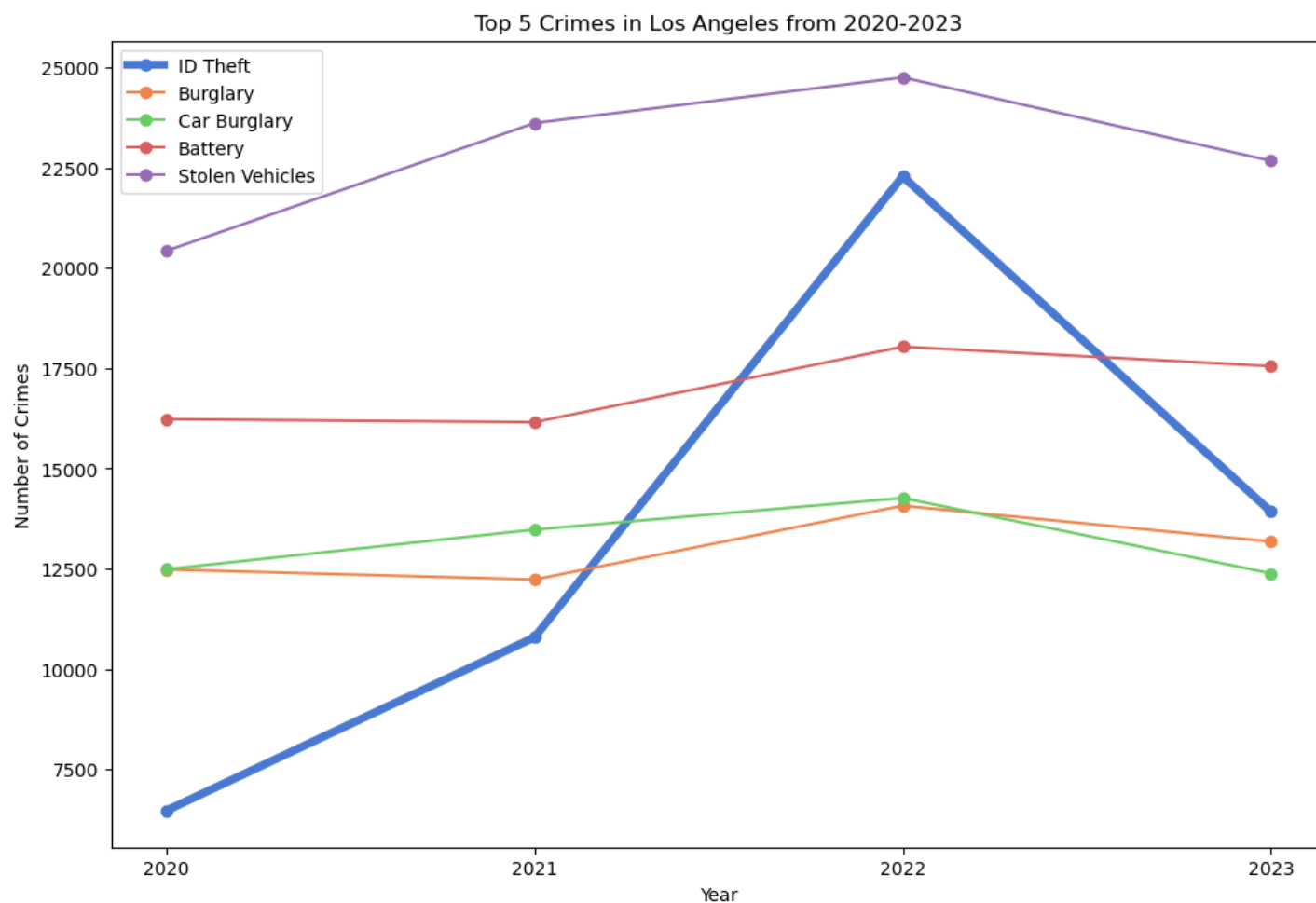
Eric Shih



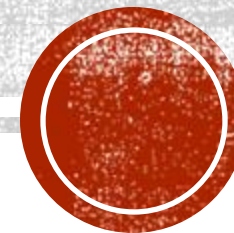


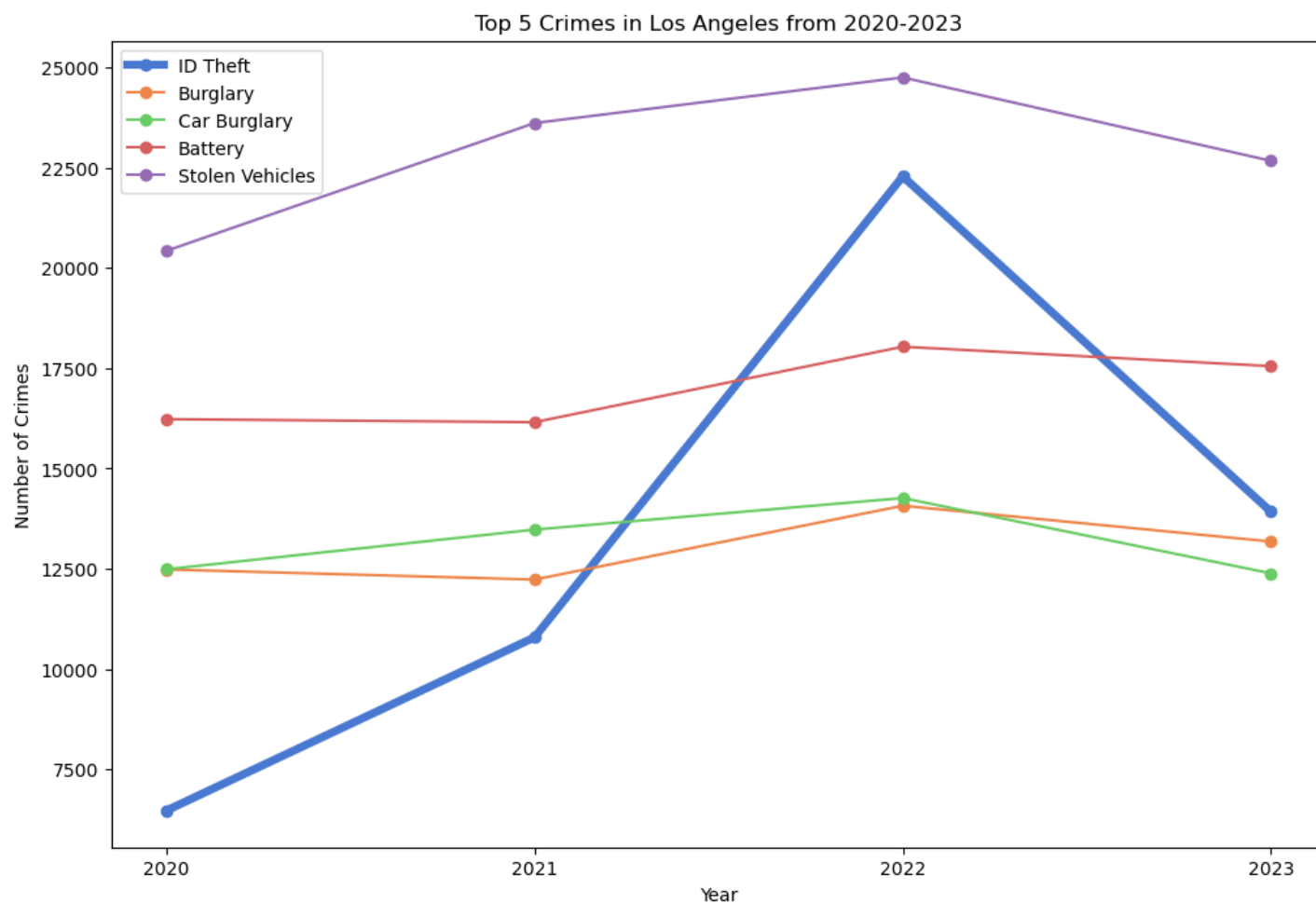
**22%**  
**INCREASE**  
**IN CRIMES**  
**FROM 2020**  
**- 2022**



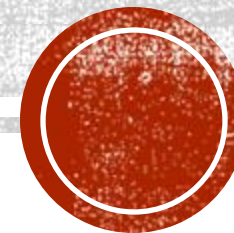


**244%**  
**INCREASE**  
**IN ID THEFT**  
**CRIMES FROM**  
**2020 - 2022**





**37%**  
**DECREASE IN**  
**ID THEFT CRIMES**  
**FROM 2022 -**  
**2023**



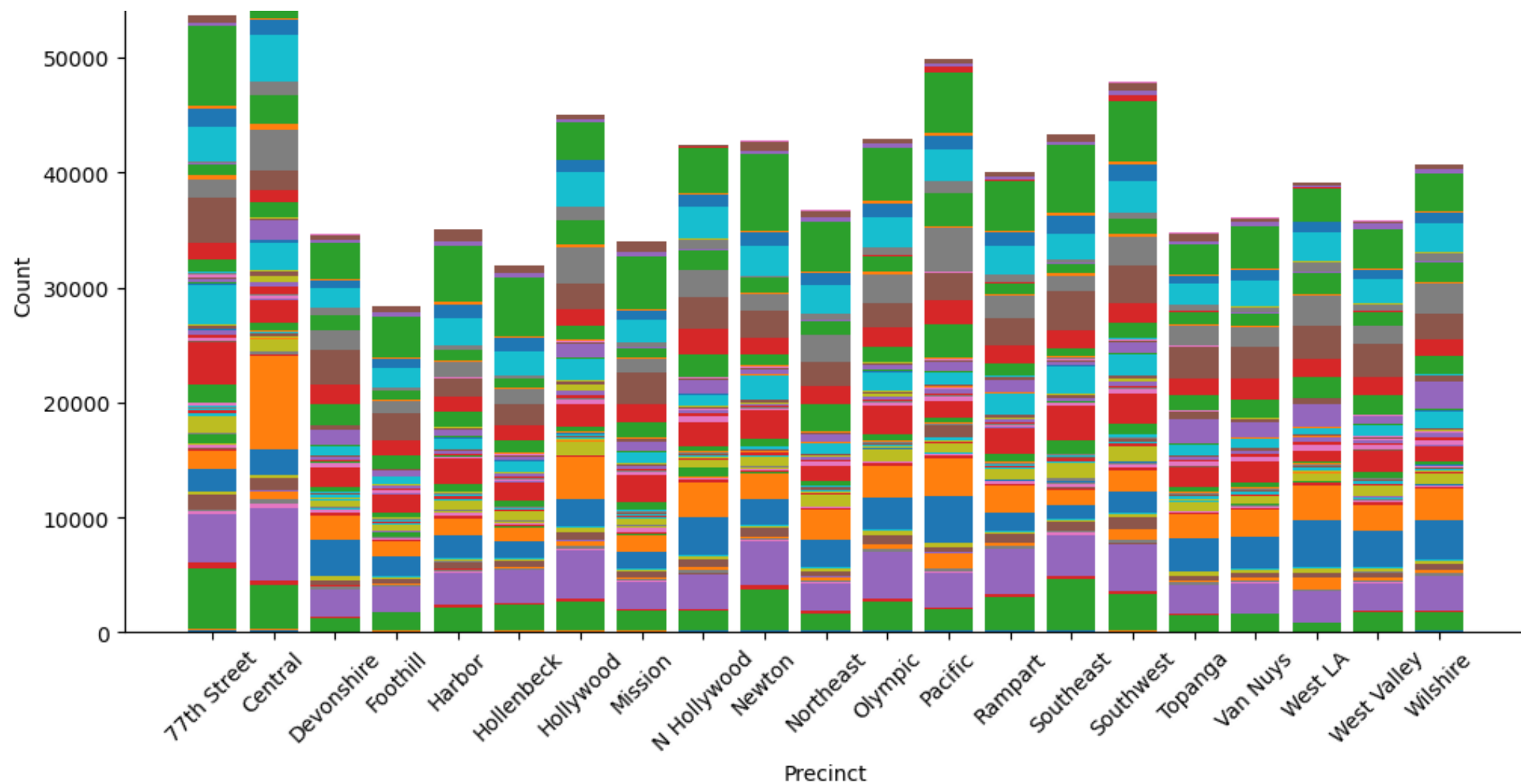




# **DO GEOGRAPHY PATTERNS DIFFER ACROSS DIFFERENT CRIME CATEGORIES?**

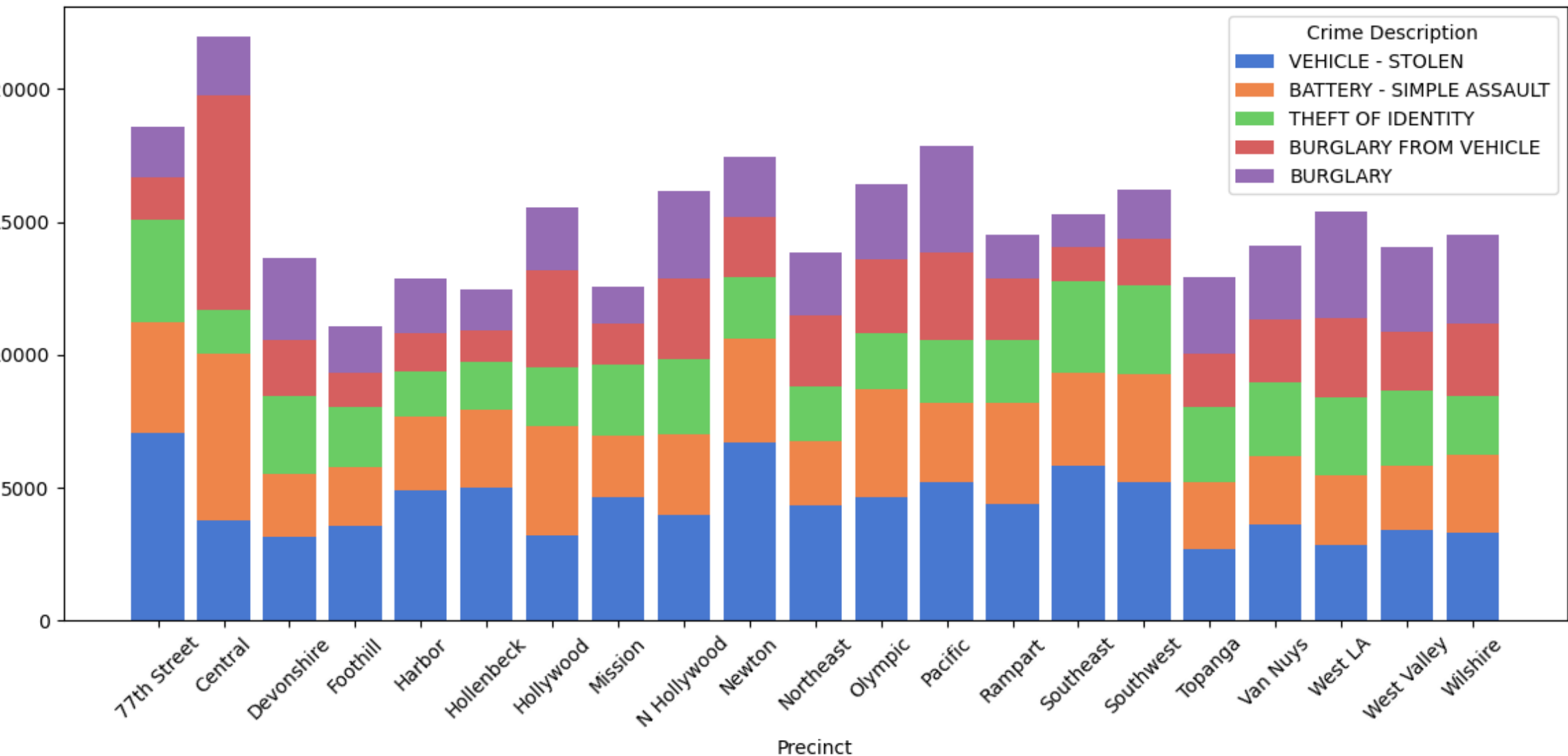
Stacie Sauer-Rackham



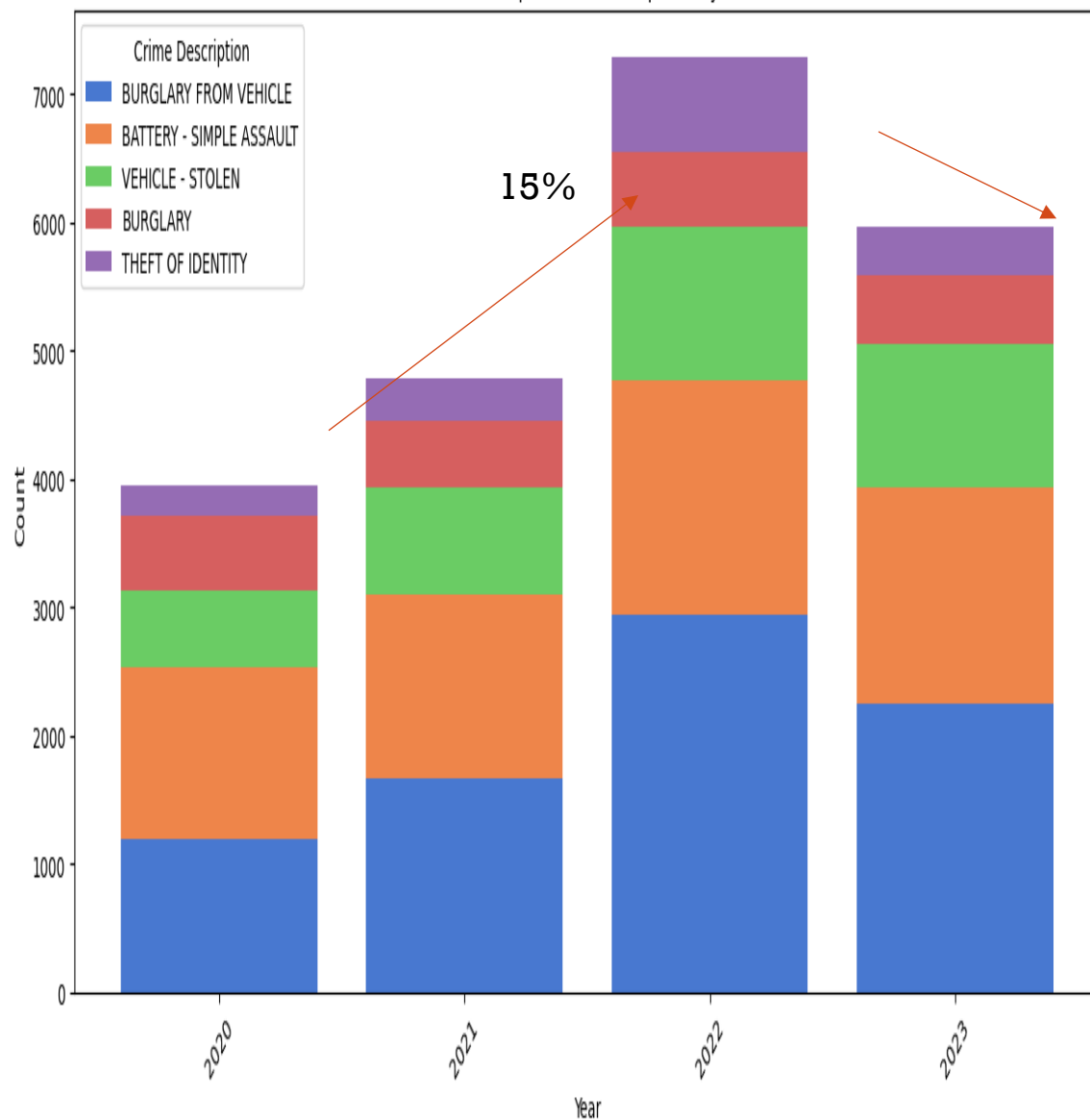




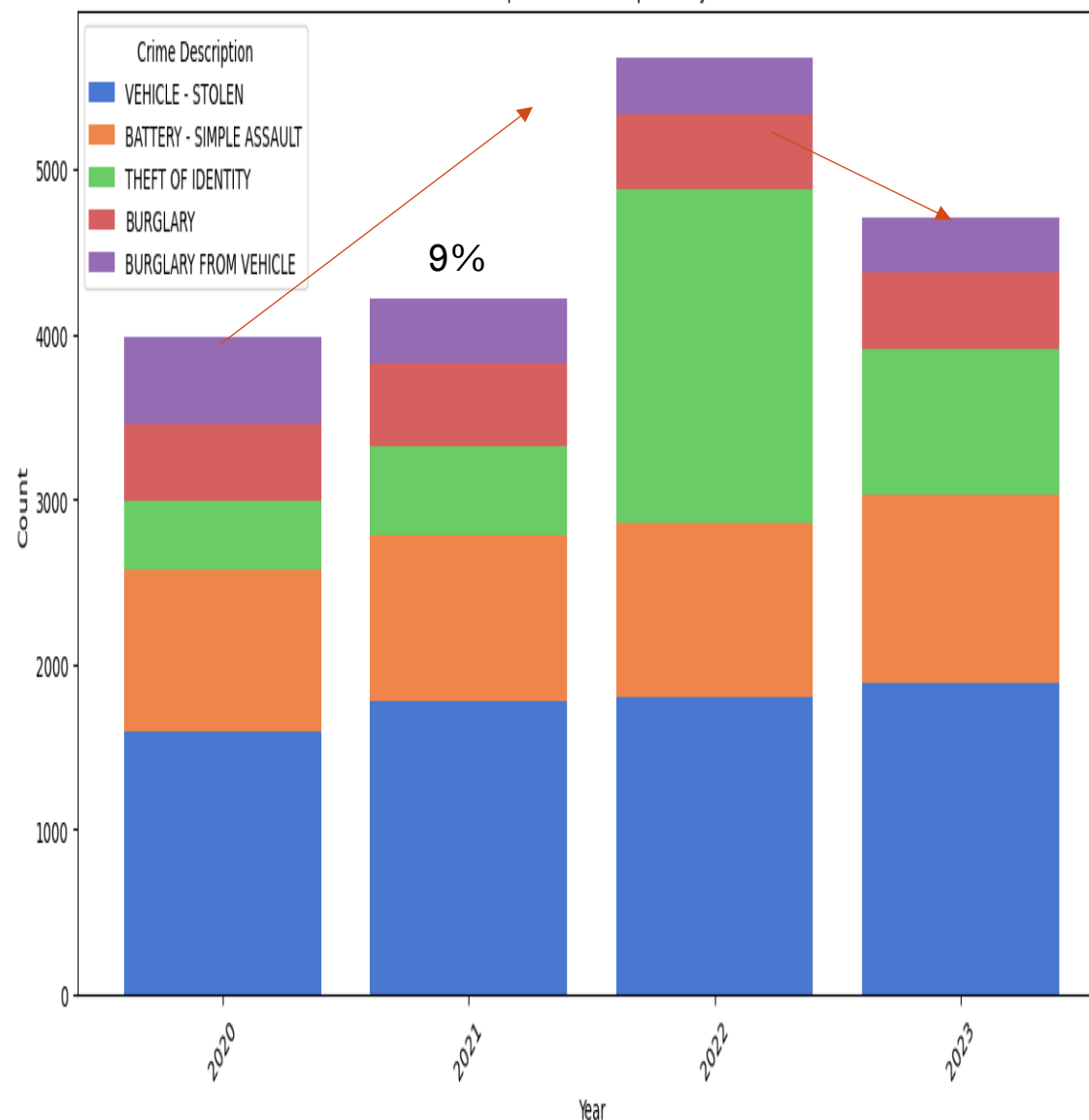
Stacked Bar Chart of Top 5 Crime Descriptions by Precinct



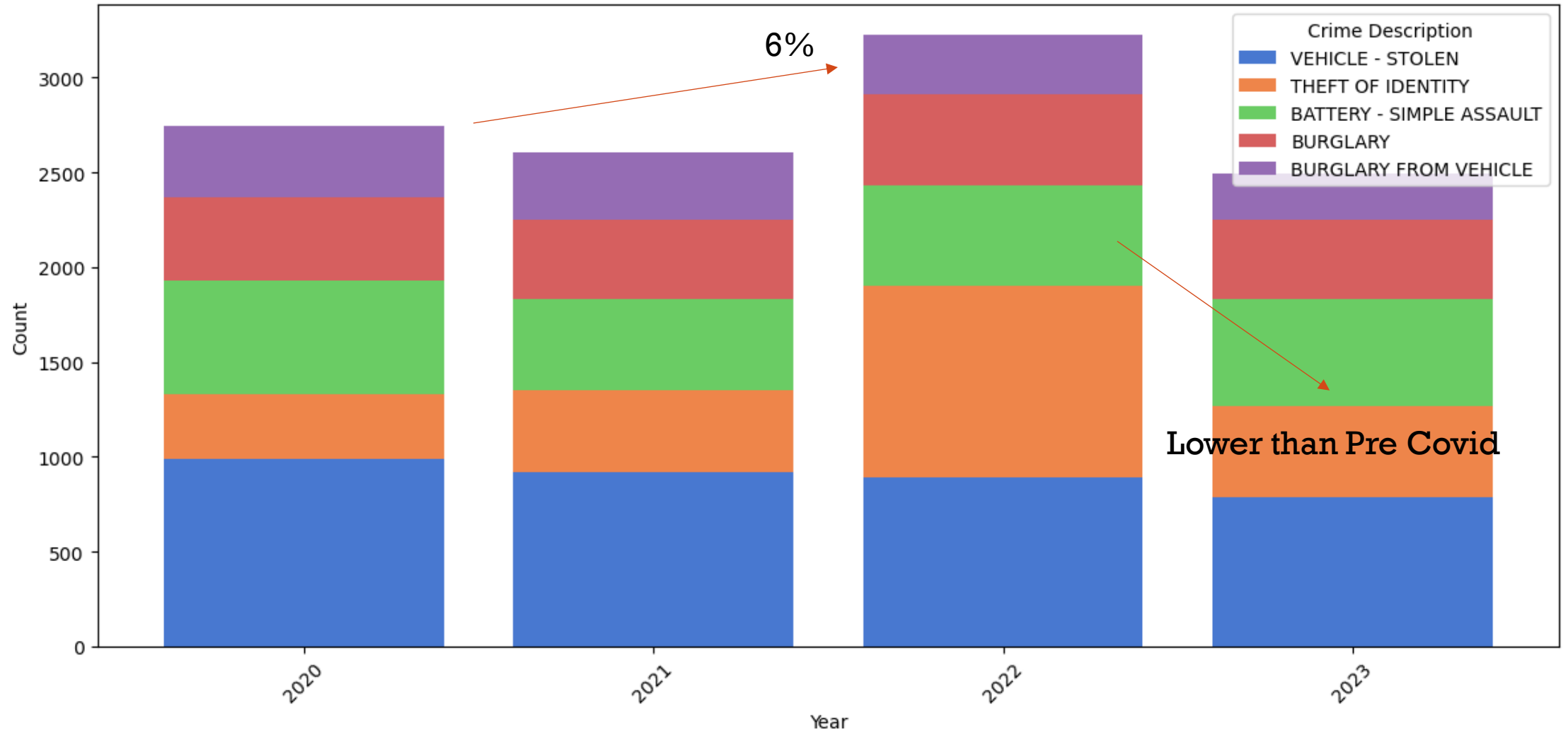
Stacked Bar Chart of Top 5 Crime Descriptions by Year in Central



Stacked Bar Chart of Top 5 Crime Descriptions by Year in 77th Street



Stacked Bar Chart of Top 5 Crime Descriptions by Year in Foothill





# INTERACTIVE HEATMAP — TOP 5 CRIMES

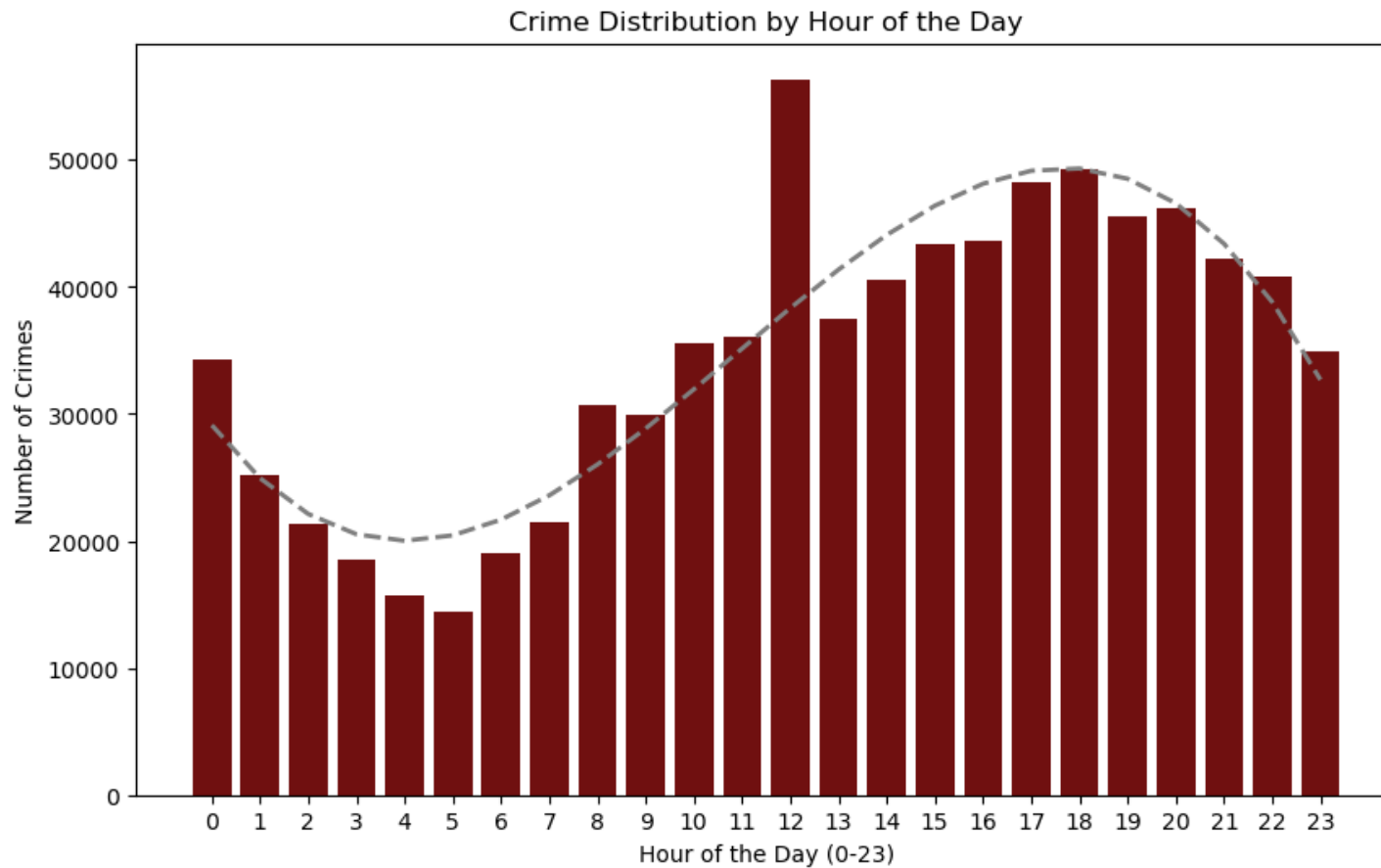
Heatmap share via Flask

Stacie Sauer-Rackham

**ARE THERE ANY SPECIFIC  
YEARS OR PERIODS IN THE  
DATASET THAT SAW  
SIGNIFICANT CHANGES IN  
CRIME RATES?**



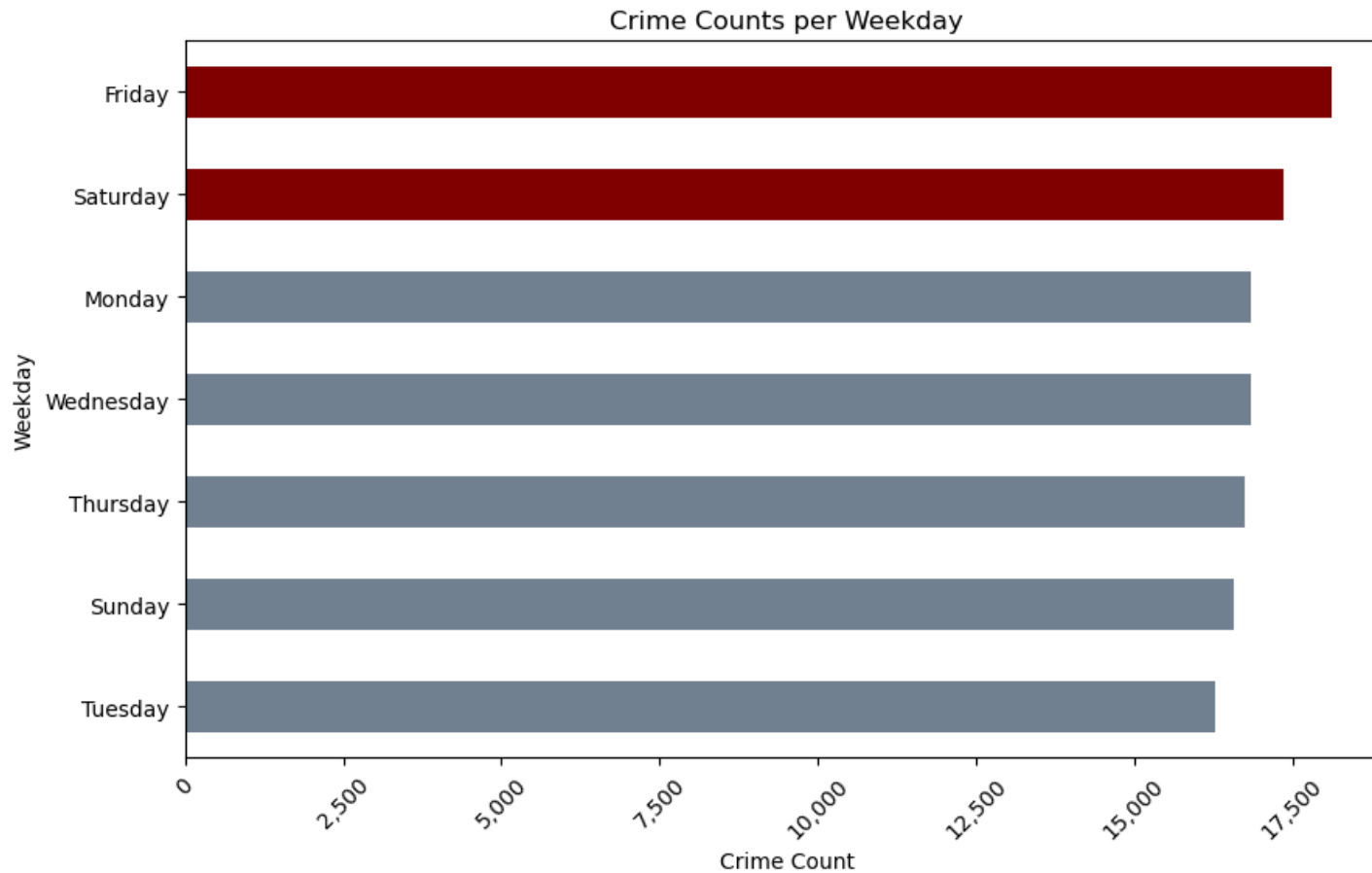




■ **Peak**  
**Crime Time:**  
**12pm**

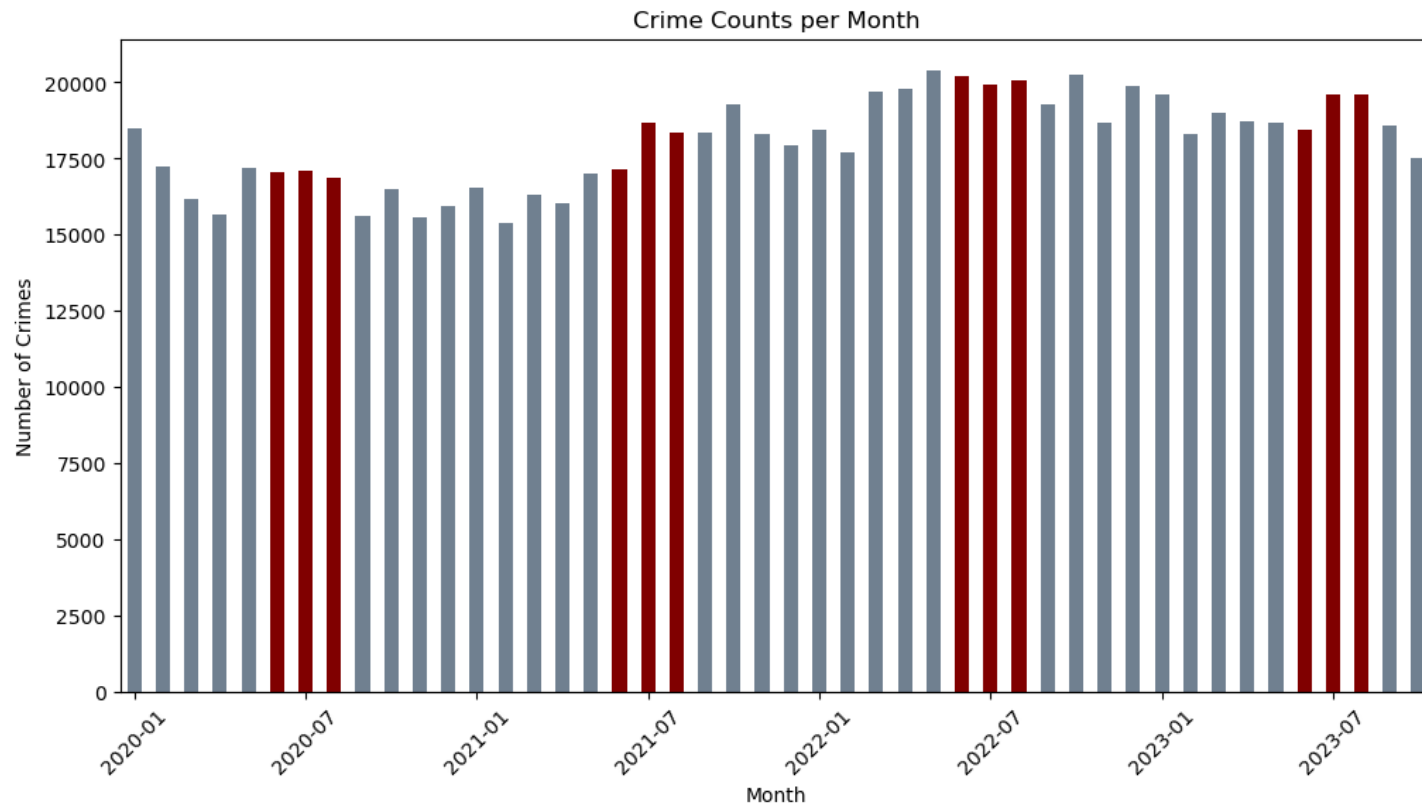






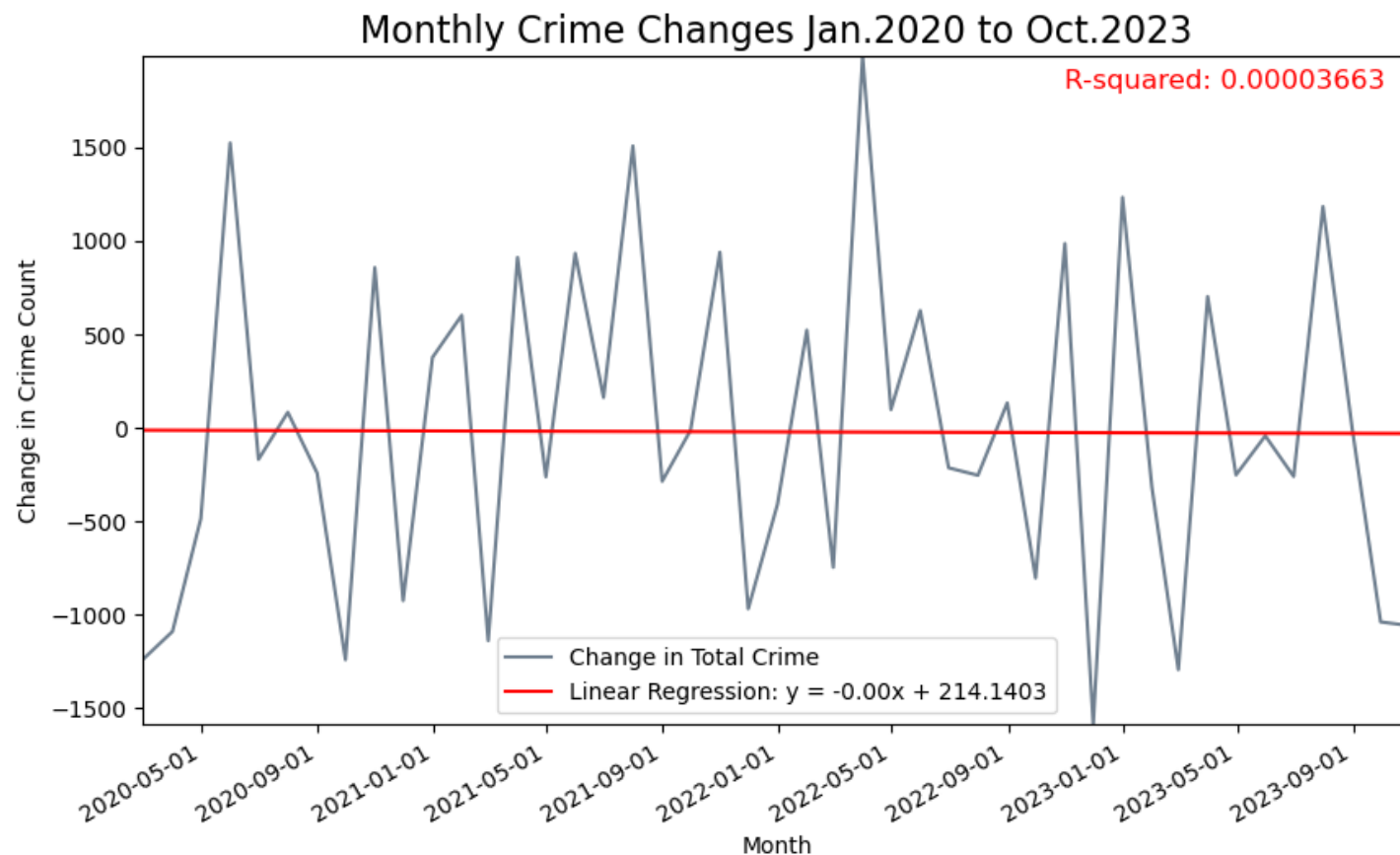
■ **Weekends**  
prime-time  
for  
crime in LA





■ **Summer Months:**  
June,  
July, August -  
Crime rates rise





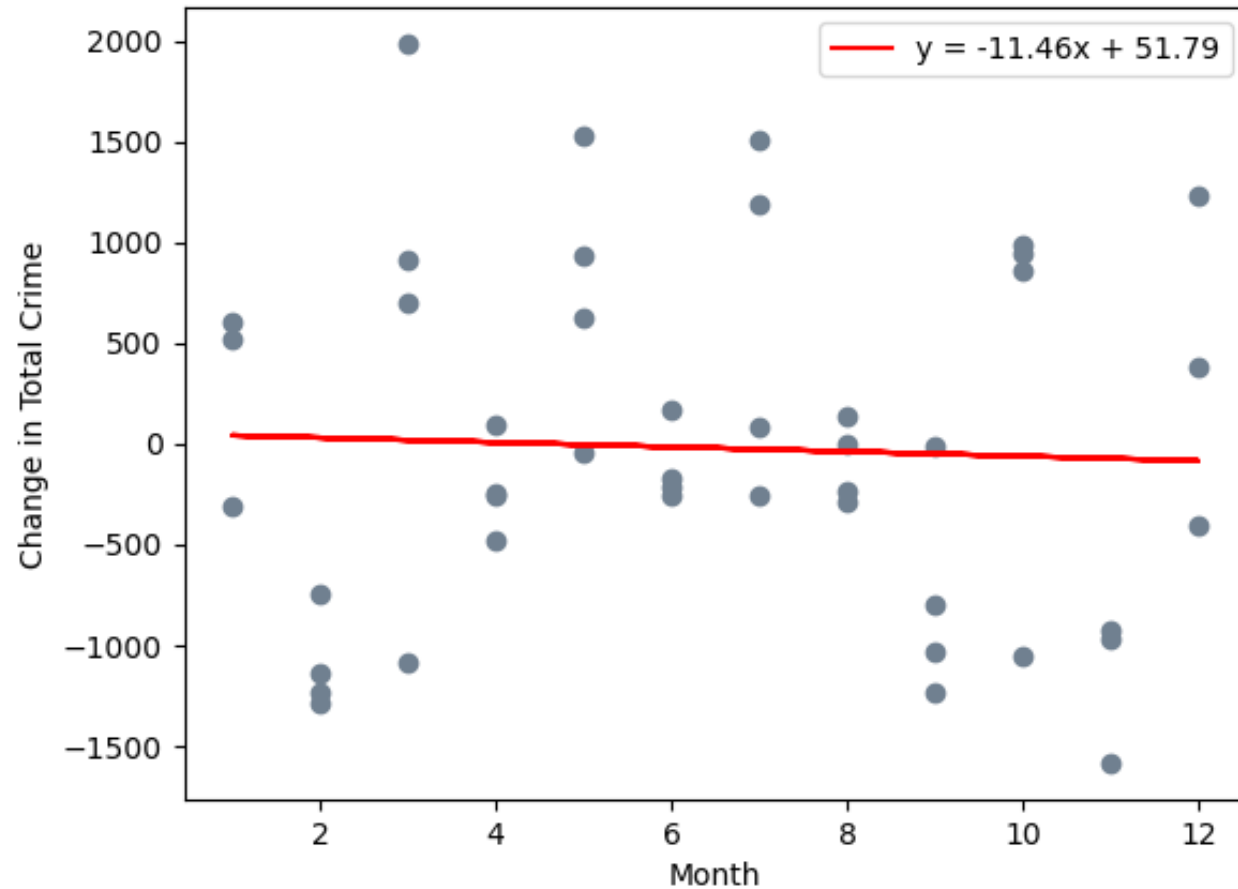
■ **Almost zero correlation between crime change and occurrence month**

■



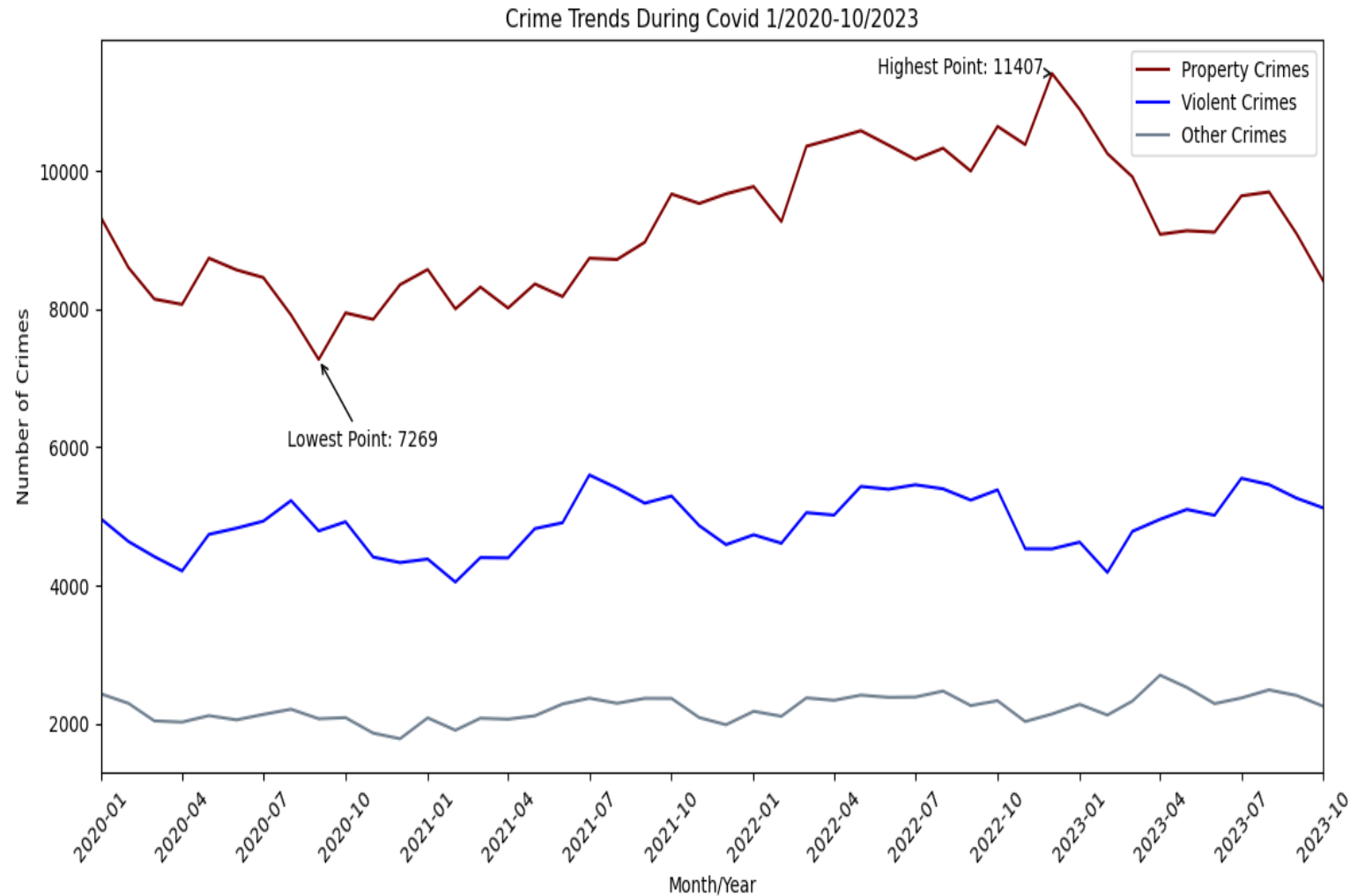


Pearson Correlation Coefficient between Month and Monthly Changes in Crime



■ Pearson  
correlation  
coefficient:  
0.04

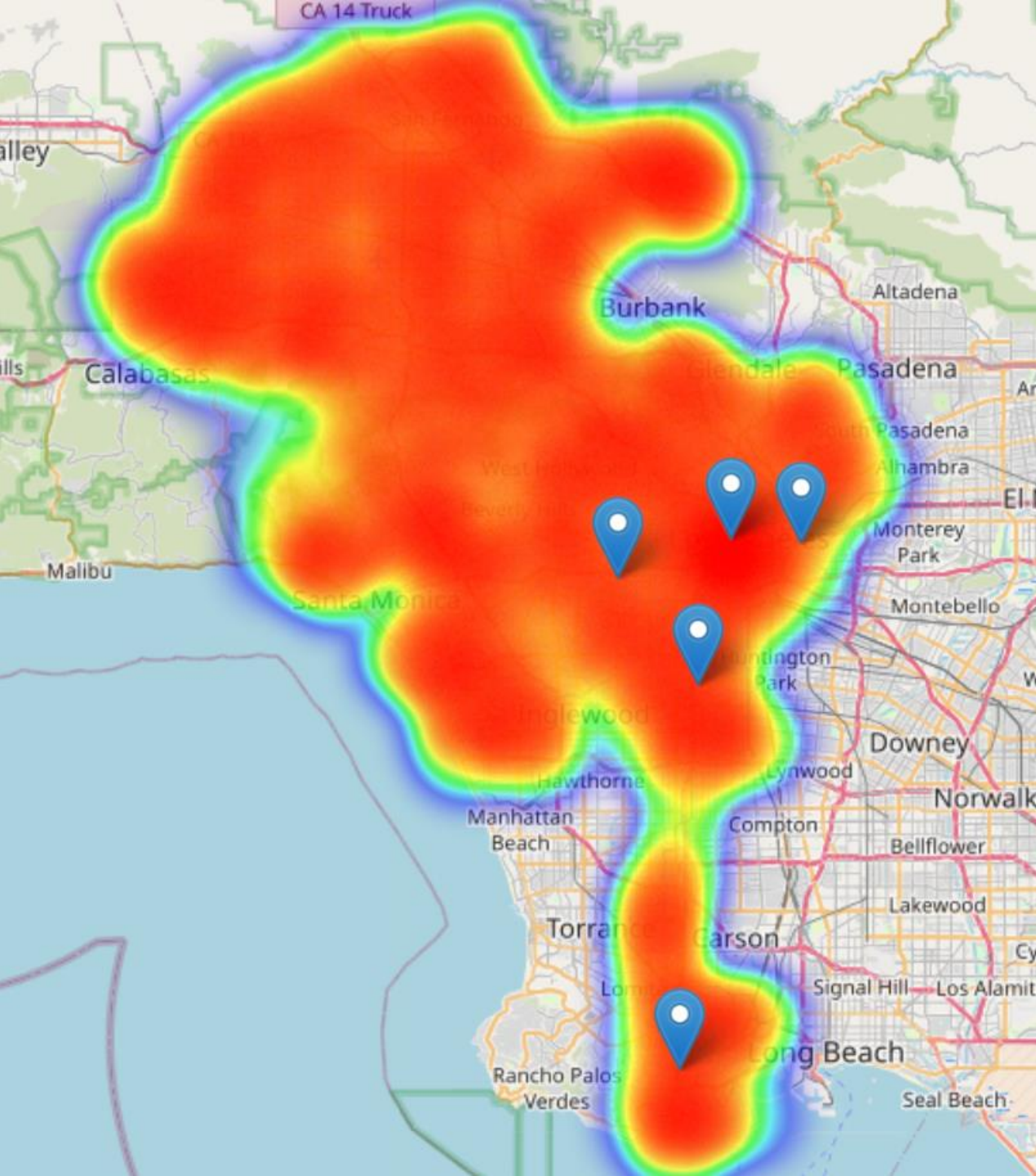




■ **Property crime rose 63% in a 2 year period**



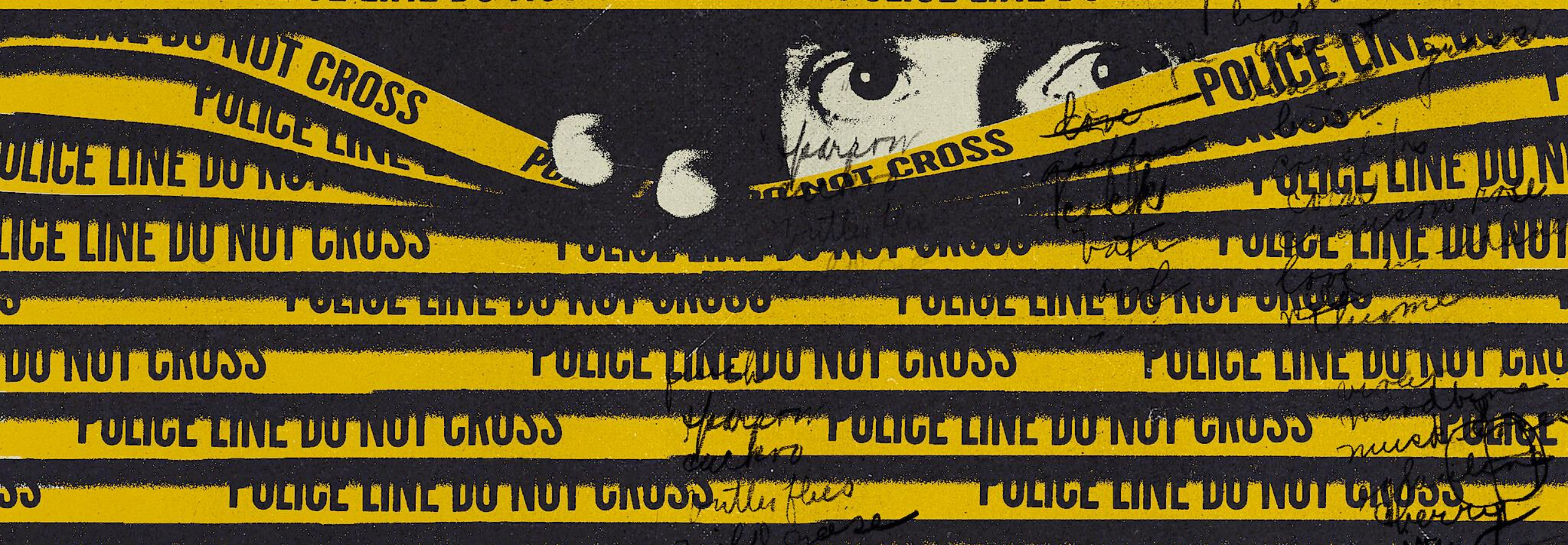




## ■ Interactive Visualization





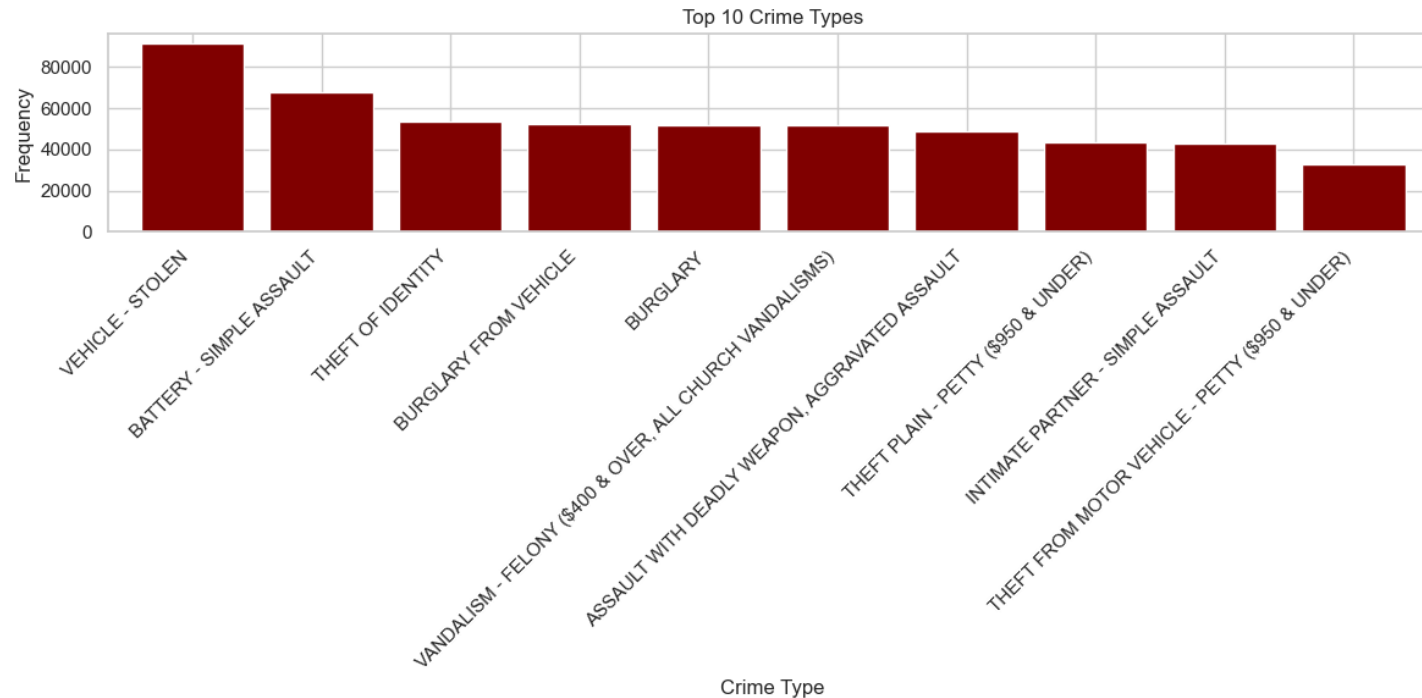


# ARE THERE SPECIFIC NEIGHBORHOODS OR COMMUNITIES WITH HIGHER CRIME RATES THAN OTHERS?

# Tasnia Wahid



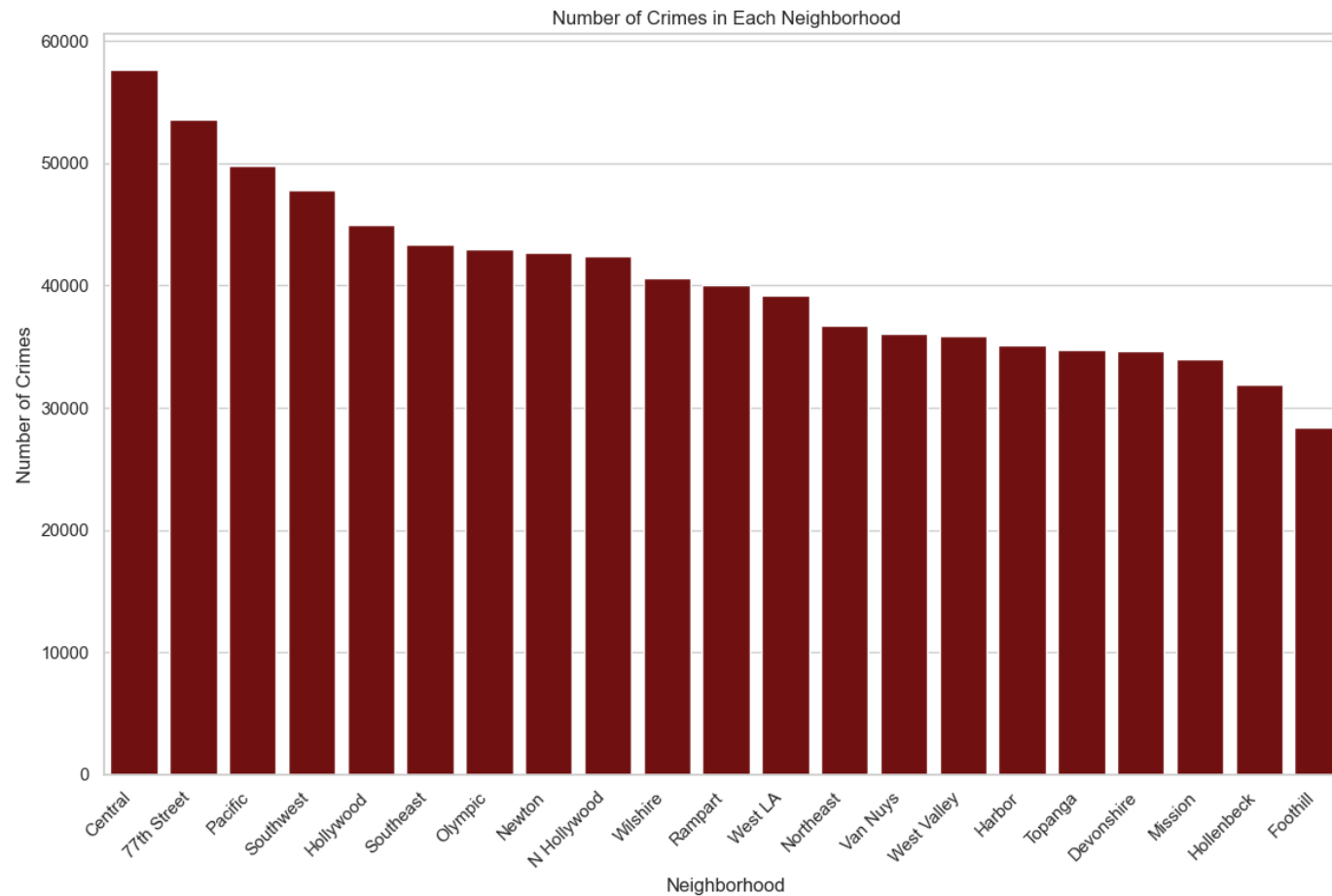
# MOST COMMON CRIMES



- **Highest was stolen vehicle**
- **Theft from motor vehicle**



# CRIME RATES BY NEIGHBORHOOD



- **Highest in Central Precinct**
- **Lowest in Foothill**



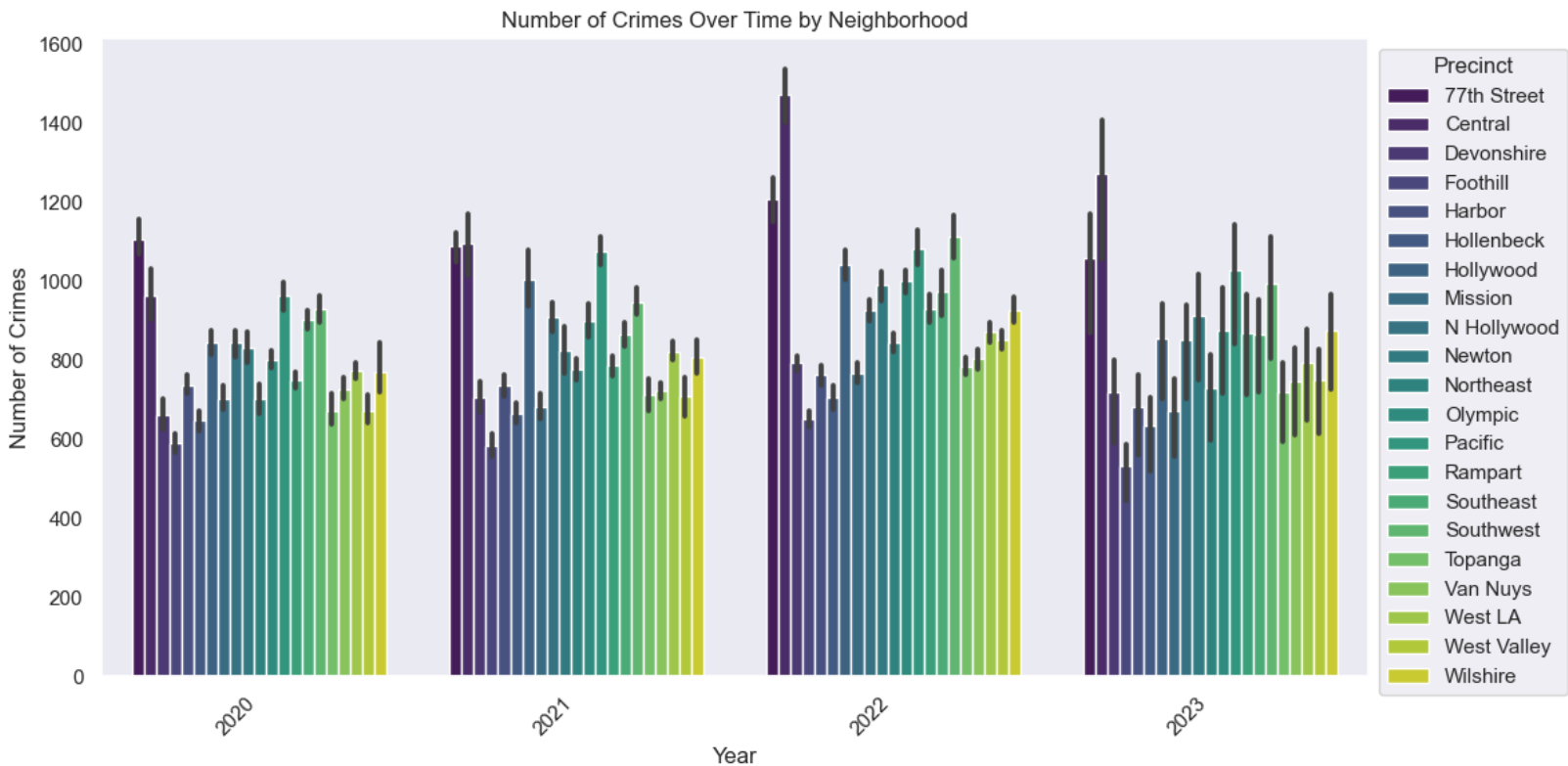




# CRIMES RATES BY NEIGHBORHOODS



# CRIMES RATES OVER TIME IN DIFFERENT NEIGHBORHOODS



**2020: Highest in 77th Street**

**2021: Highest in Central**

**2022: Highest in Central**

**2023: Highest in Central**

**Overall increase in 2022, may suggest things becoming normal after COVID restrictions.**

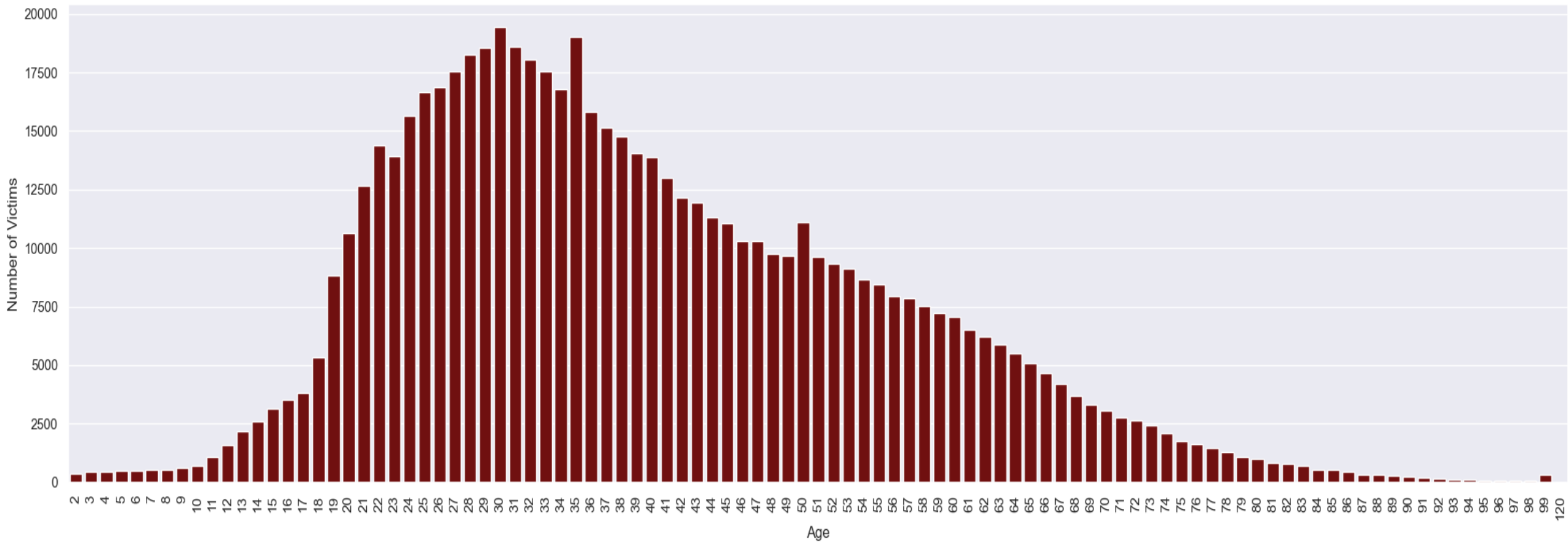






**ARE THERE ANY DEMOGRAPHIC GROUPS  
DISPROPORTIONATELY REPRESENTED AS  
VICTIMS OF CRIME?**

Distribution of Crime Victims by Age

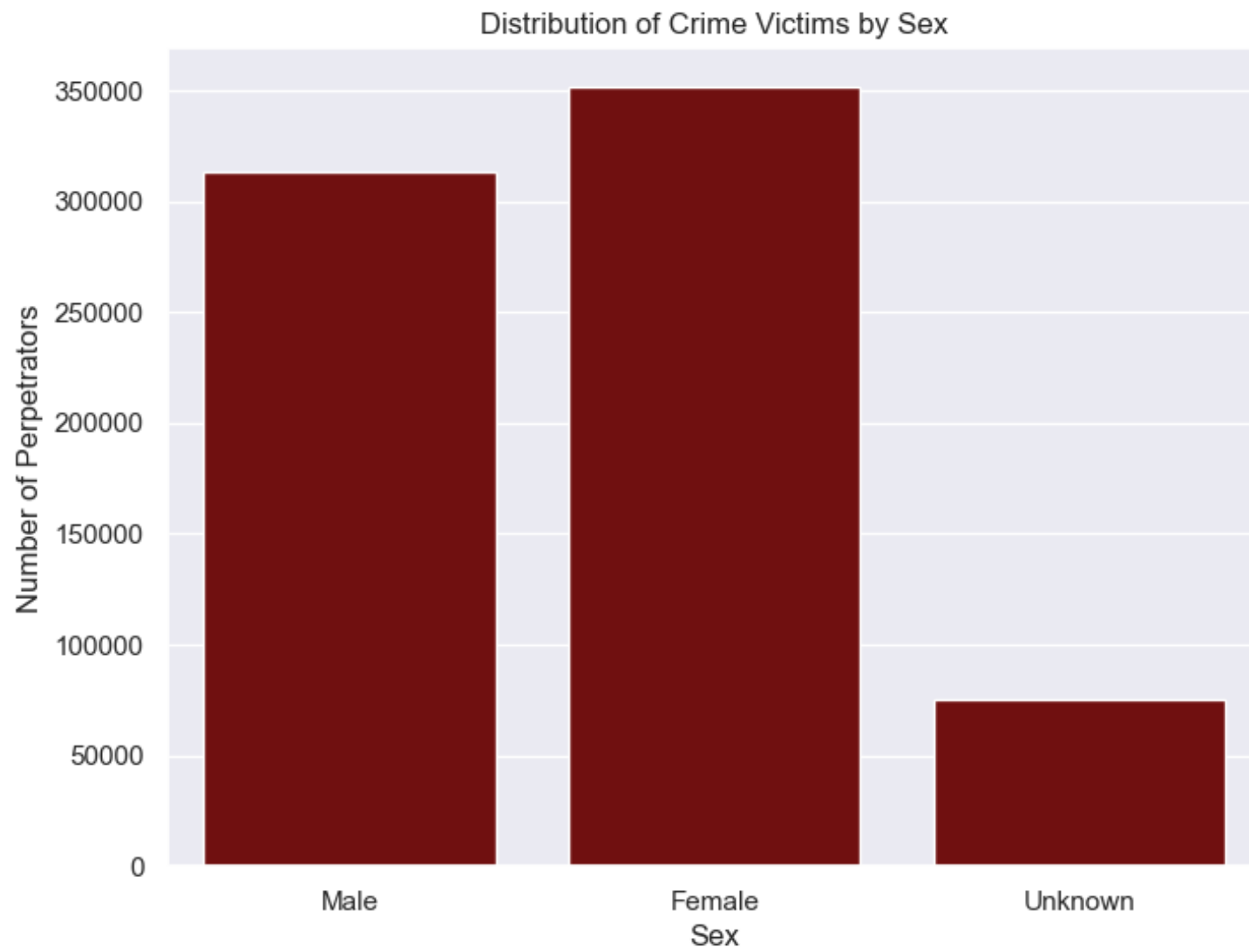


# VICTIMS BY AGE

- **Highest in age 29 then 35**
- **Overall trend shows an increase from 20s-early 40s**



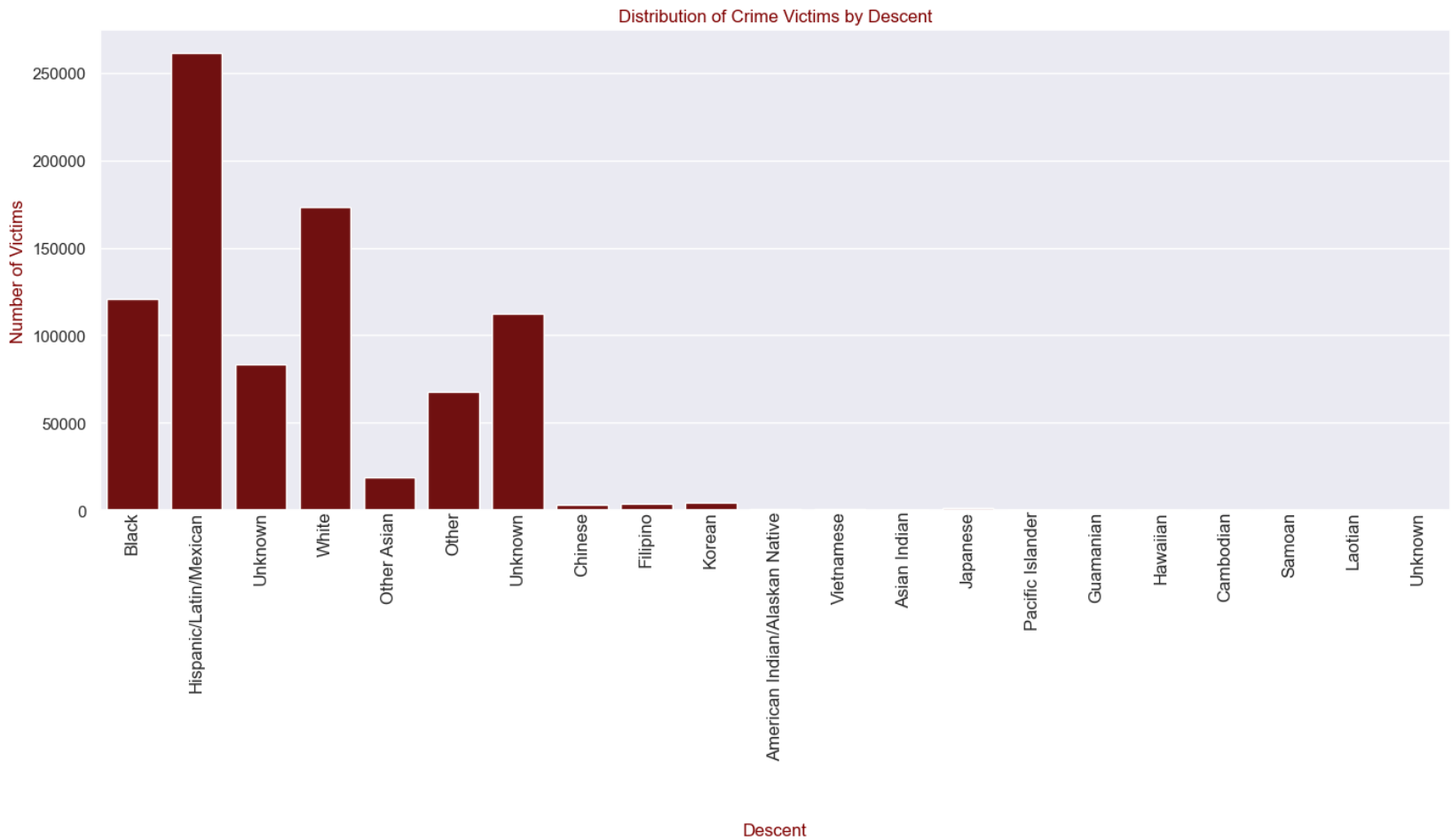




## VICTIM BY SEX

- **Females are the highest by around 30,000.**





# VICTIMS BY DESCENT

- **Highest in Hispanic, Latin, Mexican.**
- **Second highest is White.**





# WRAPPING IT UP

- Central precinct had the highest rate of crimes.
- People from 20s-early 40s were targeted more for crimes.
- Females, Mexican/Latino/Hispanic and White people were higher in number in terms of ethnicity.
- Geography influenced the amount of crime, not the existence of crime in each category.
- Crime rates fell at the beginning of the lockdown, started rising in Oct 2020, especially property crimes and peaked in January 2023.
- Overall, there was an increase in crime, with the most significant impact observed in ID theft.





CASE NO I67

*Evidence*  
Certain kinds of evidence,  
such as documentary evidence,  
are subject to the requirement  
that the offeror provide the  
original of evidence (which need  
not be such and is not  
the very strong) suggesting that  
the offered copy of complete  
evidence (e.g. a check)  
is the authentic  
original.



# CONCLUSION

