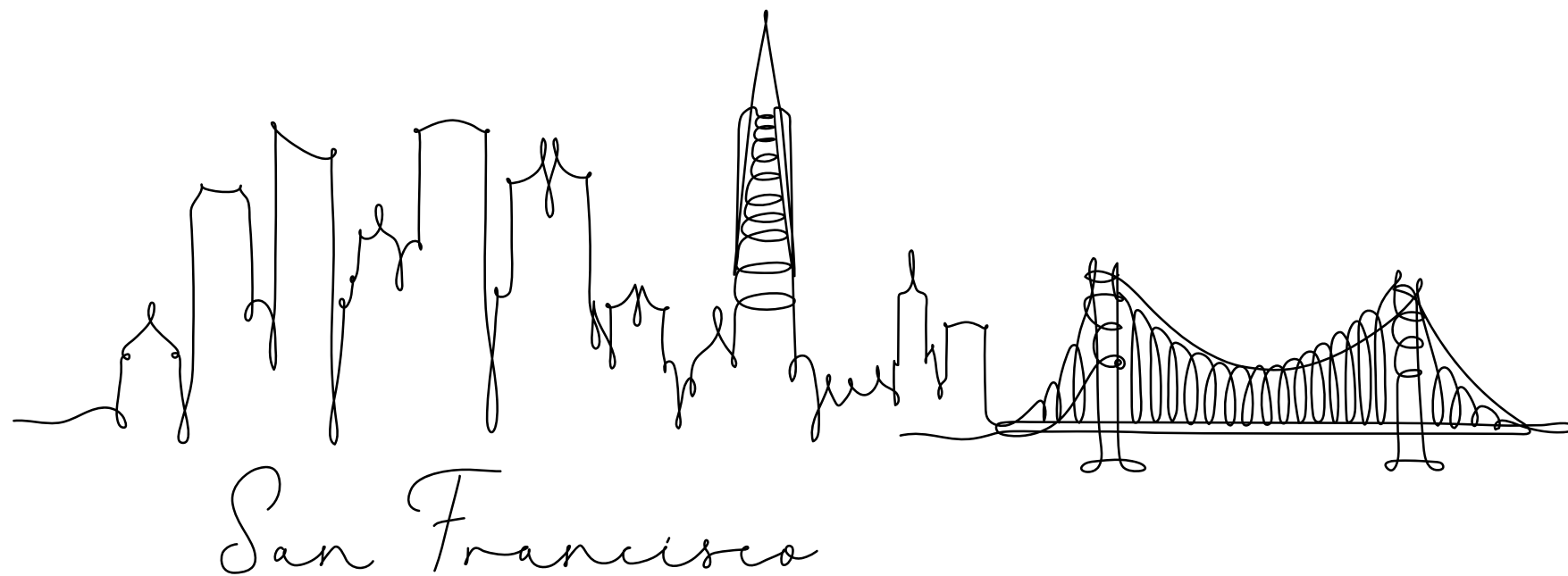# SafetyNet Analytics
Group

Team members: Roland "Coy" Abellano (Data Cleansing Manager), Anushya Mani (Data Transformer), Jimmy Nguyen (Data Analytics Consultant), Michael Jardinico (Market Research Analyst), Diahann Castellon (Cause & Correlation Scientist), & Brandon Ingalz (Project Manager)

Project Scope

- This project was inspired by an article that discusses the 15 most safest neighborhoods in SF
- Analyzing geospatial data involving criminal activities in SF's 41 neighborhoods
- Evaluation of current & potential future residences
- Use data-driven insights on which areas have both the highest & lowest crime occurrences
- Reveal crime-related trends over a 5 year period with specific timeframes

San Francisco

SafetyNet Analytics
Group
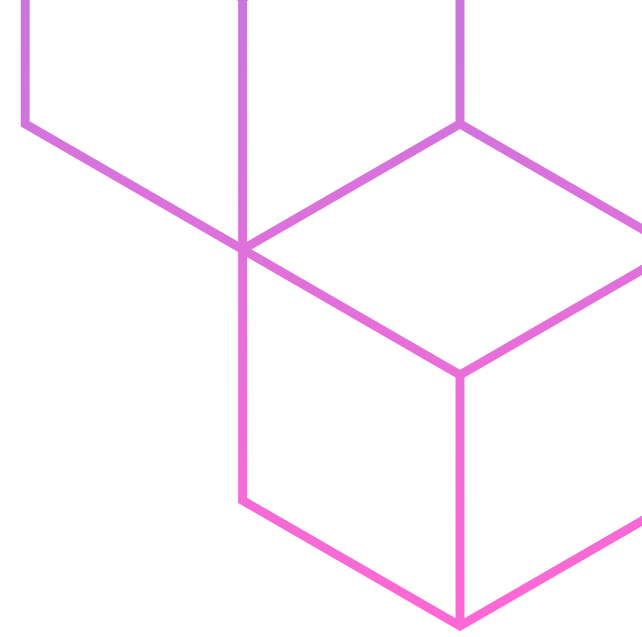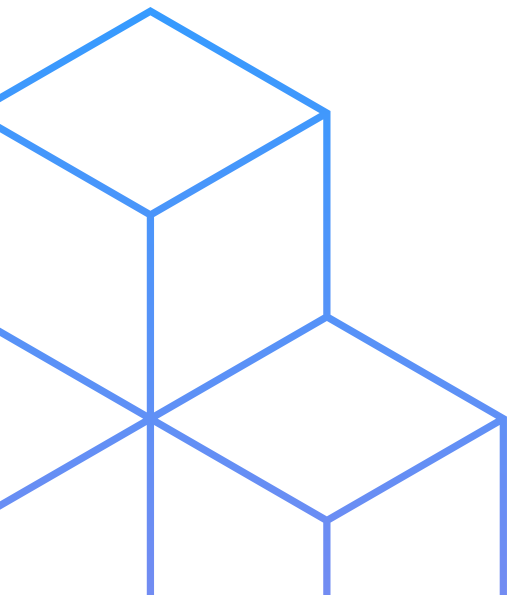
Parameter Considerations Based on Research

- **Source:** San Francisco Police Department Crime Dataset (2018 -2023)
- **Original Crime Types:** 840 categories
- **Original Number of Crimes:** 728,837 reported cases
- **Data Refinement:**
  - Cleaned for accuracy
  - Removed inconsistencies & irrelevant data
- **Transformed into Six Categories :**
  - Violent Crime
  - Property Crime
  - White Collar Crime
  - Drug & Alcohol Crime
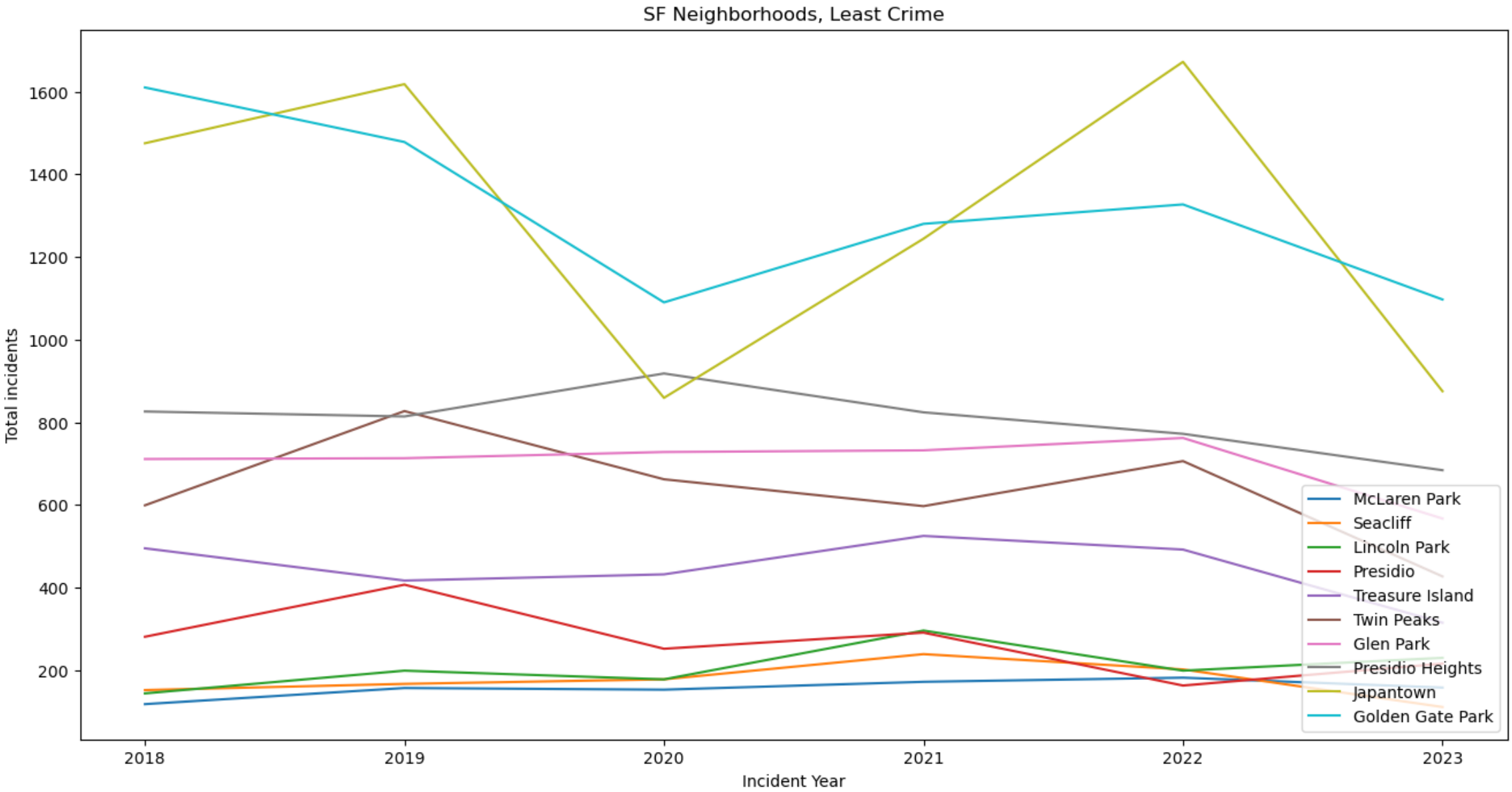 - Hate Crime
  - Qualtiy of Life Crime

SafetyNet Analytics Group

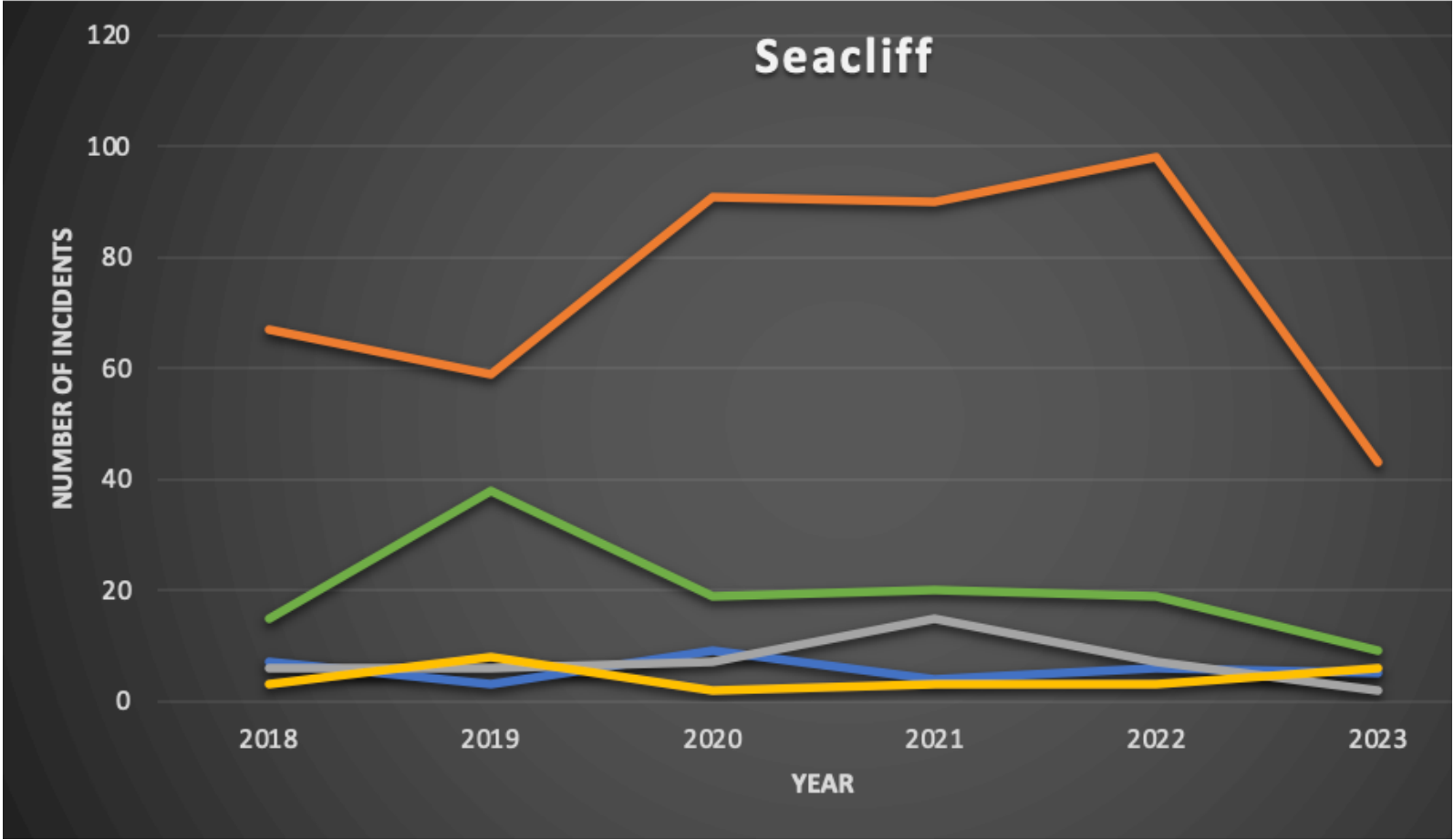# Total Incidents by Crime Type
2018-2023
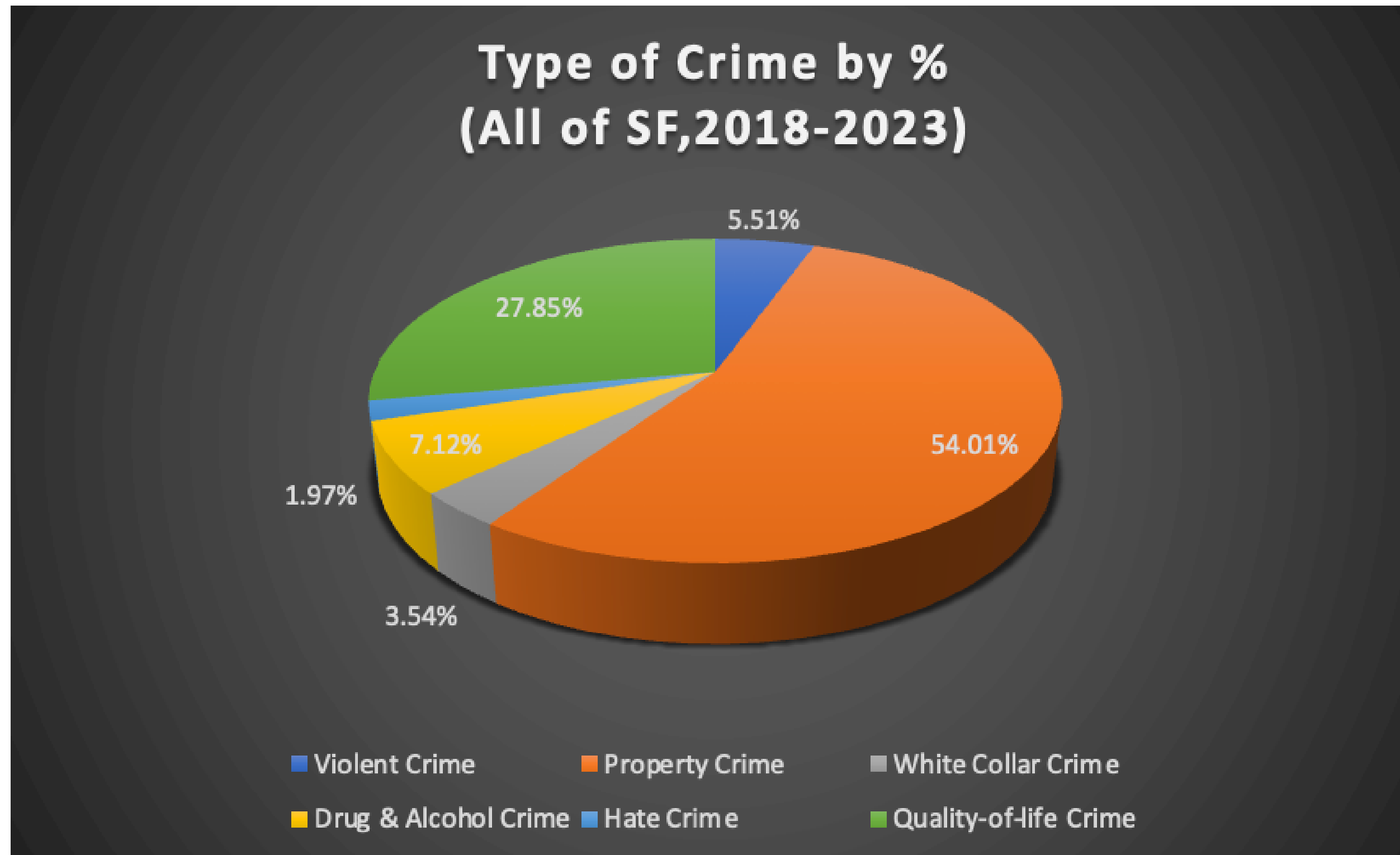
Comparison of Best & Worst Rankings (Article vs. SafetyNet)

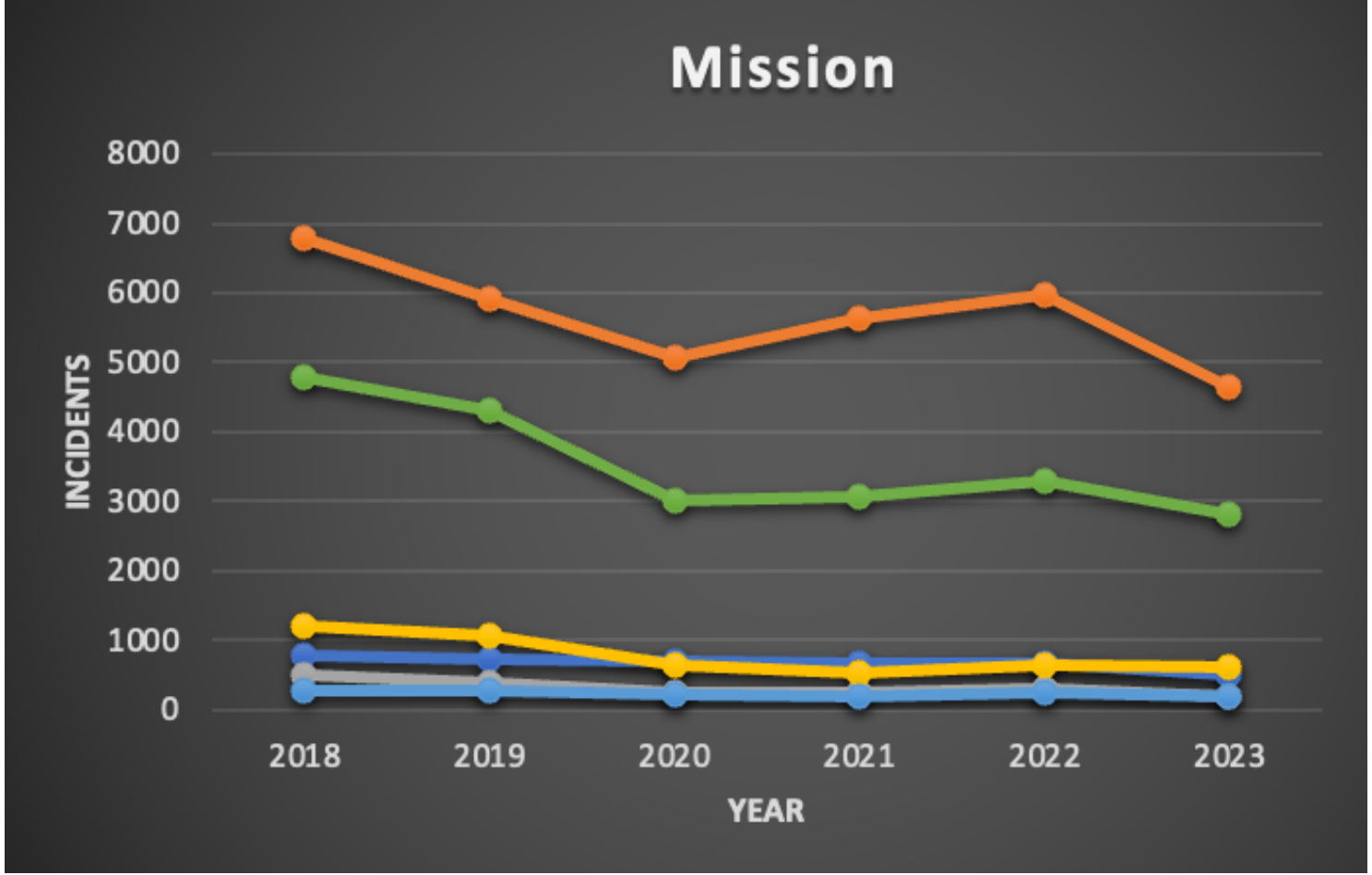| Ranking	Top - Per Article	Top- Per SafetyNet	Worst- Per SafetyNet
1	Outer Sunset	McLaren Park	Mission
2	McLaren Park	Seacliff	Tenderloin
3	Inner Sunset	Lincoln Park	South of Market
4	Ocean View	Presidio	Financial District/South Beach
5	Noe Valley	Treasure Island	Bayview Hunters Point
6	Outer Richmond	Twin Peaks	North Beach
7	Seacliff	Glen Park	Western Addition
8	Excelsior	Presidio Heights	Sunset/Parkside
9	Pacific Heights	Japantown	Castro/Upper Market
10	Lower Nob Hill	Golden Gate Park	Nob Hill
11	Marina	Oceanview/ Merced/Inglesid e	Marina
12	Financial District	Noe Valley	Hayes Valley
13	North Beach	Vistacion Valley	Russian Hill
14	Chinatown	Portola	Outer Richmond

SF Neighborhoods, Least Crime

Legend:
- McLaren Park
- Seacliff
- Lincoln Park
- Presidio
- Treasure Island
- Twin Peaks
- Glen Park
- Presidio Heights
- Japantown
- Golden Gate Park

SafetyNet Analytics
Group

Safest Neighborhoods

Least Safe Neighborhoods

Legend:
- 101 Violent
- 102 Property
- 103 White Collar
- 104 Drug & Alcohol
- 105 Hate
- 106 Quality-of-life

Seacliff

McLaren Park

Mission

FiDi/South Beach
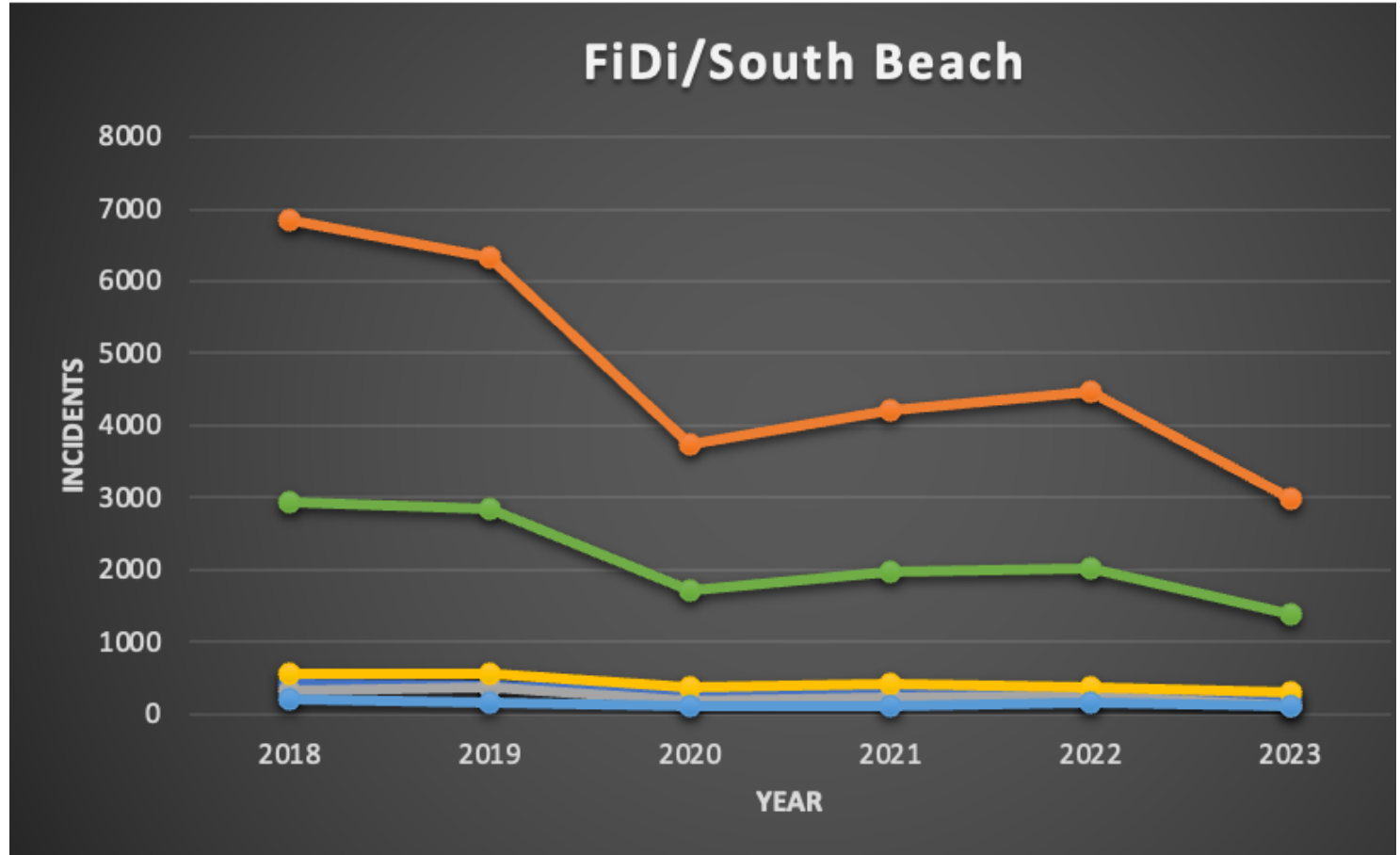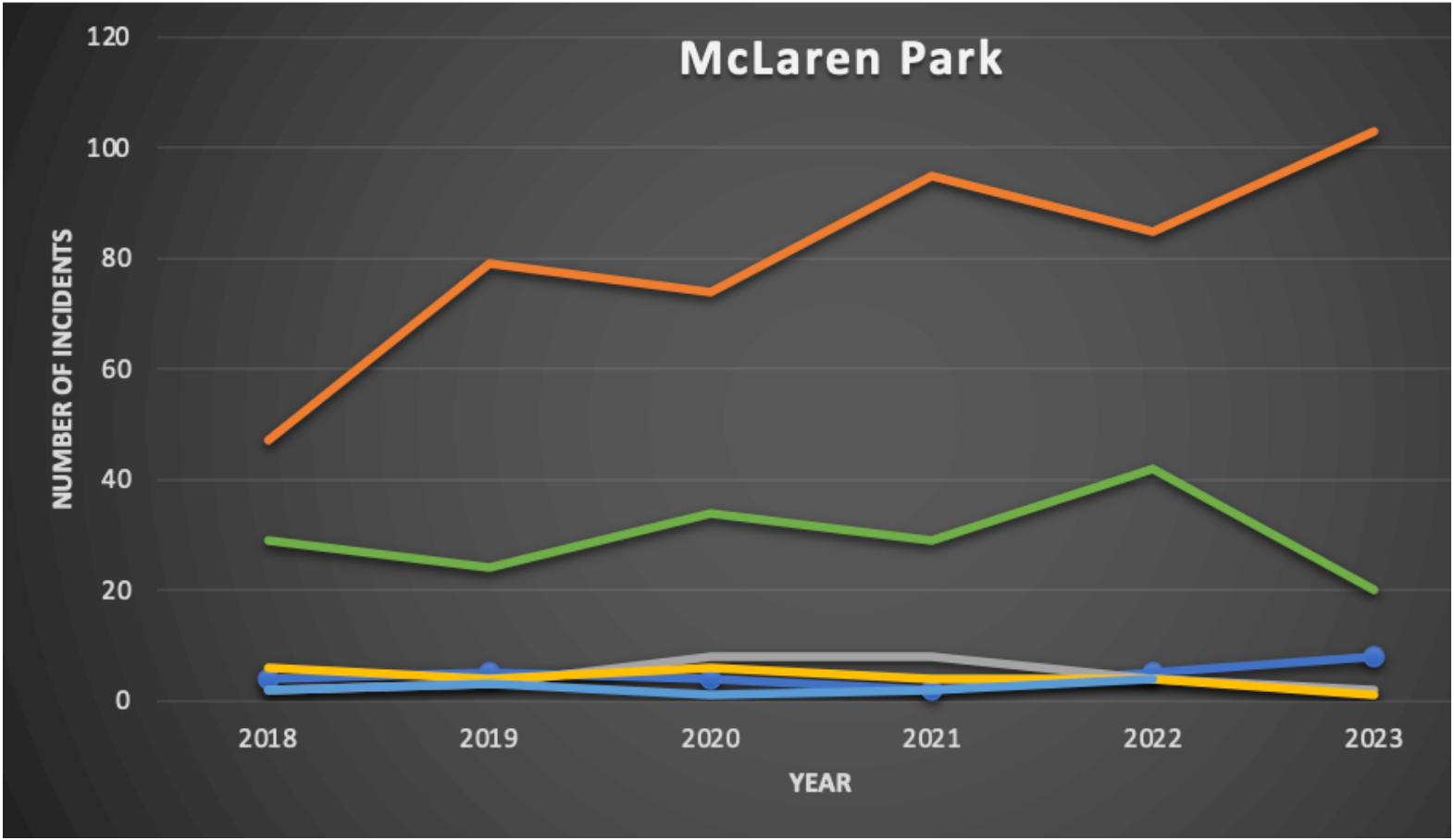
Top 10 Dangerous by Crime Type
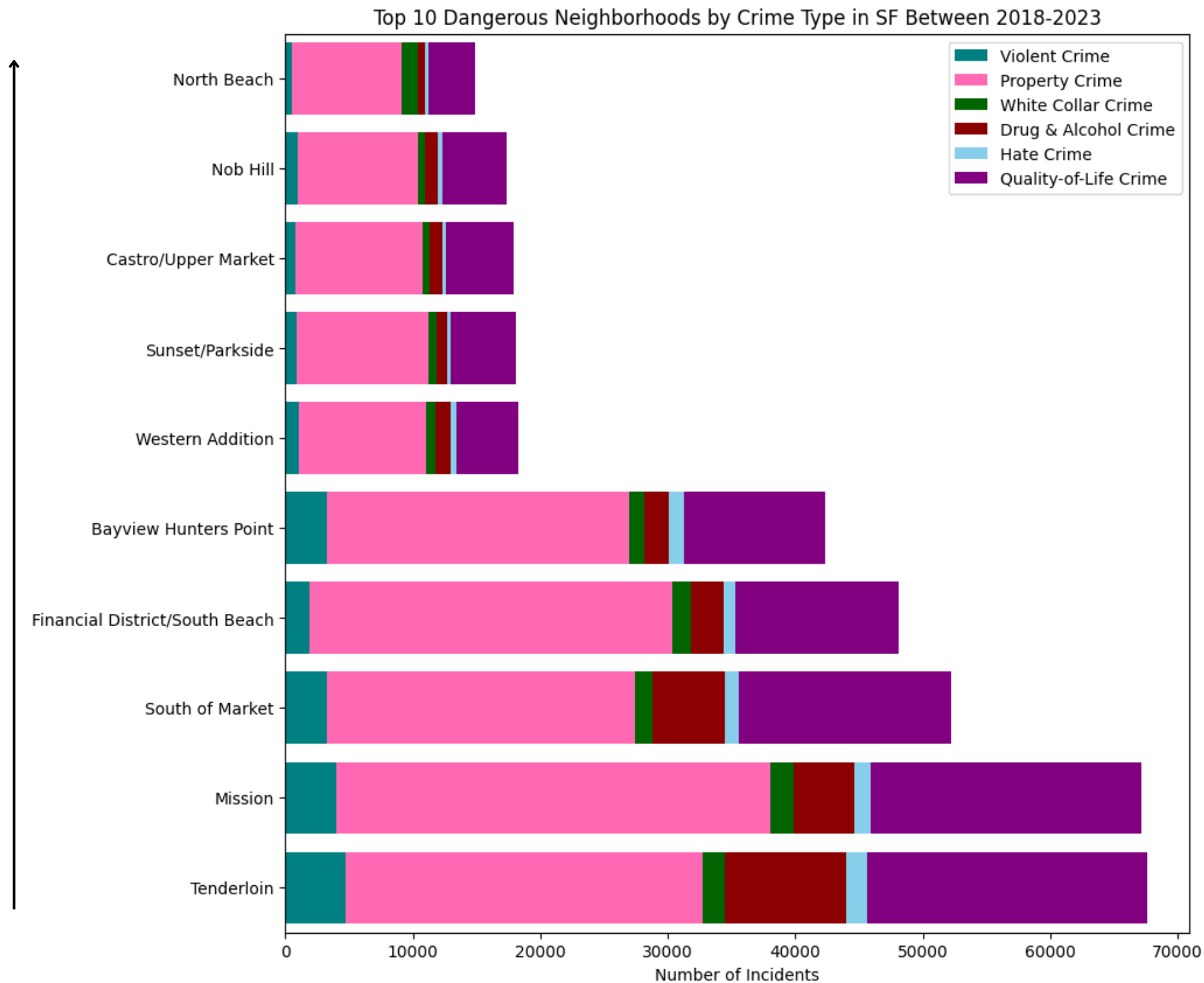
Top 10 Safest by Crime Type

Top 10 Dangerous Neighborhoods by Crime Type in SF Between 2018-2023

Top 10 Safest Neighborhoods by Crime Type in SF Between 2018-2023

SafetyNet Analytics
Group
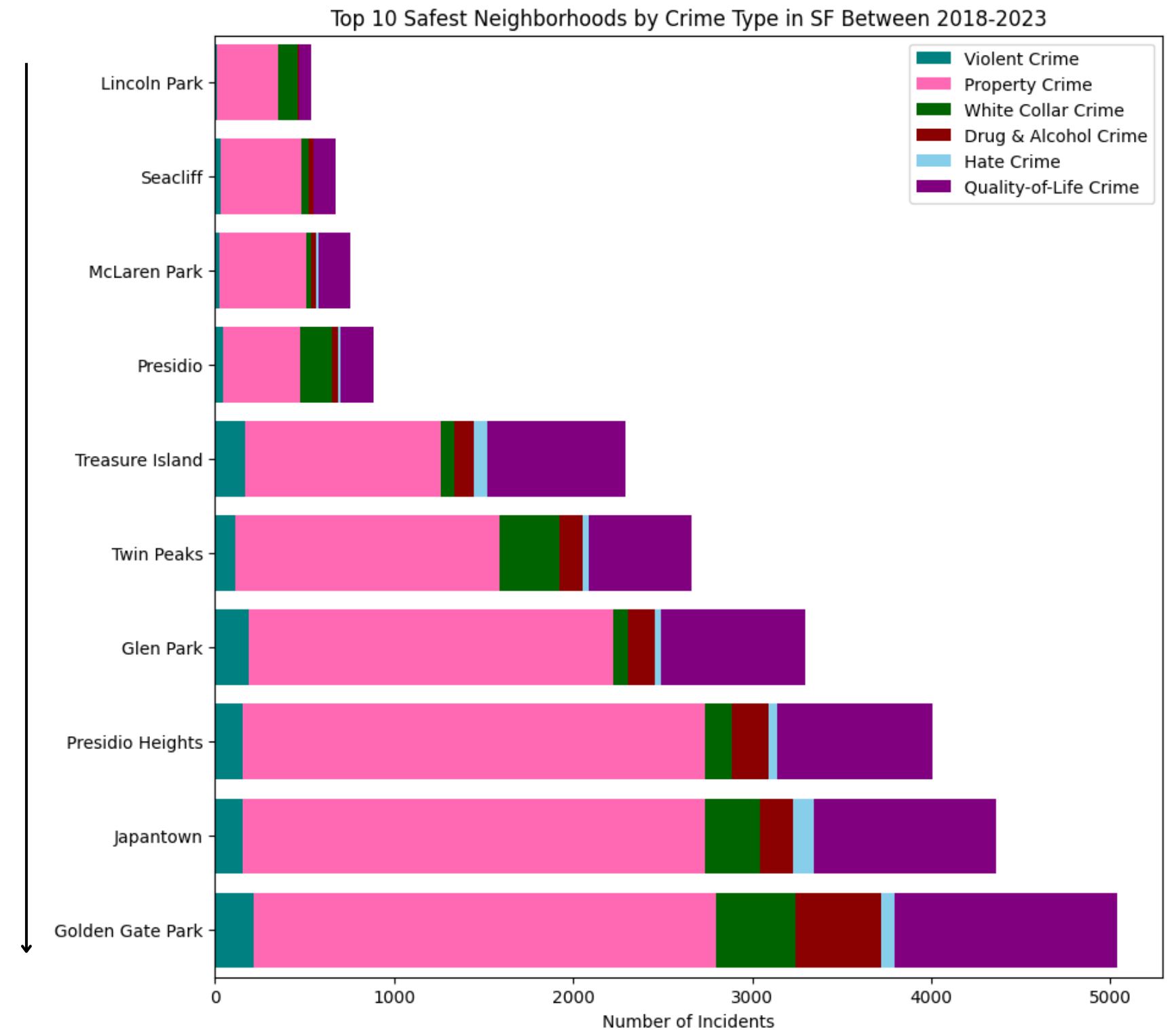
Total Incidents by Category in 2023

1,714 | 1.98%

2,598 | 3.01%

22,911 | 26.51%

51,304 | 59.36%

Recategorization

- Drug and Alcohol C...
- Hate Crime
- Property Crime
- Quality of Life Crime
- Violent Crime
- White Collar Crime

SafetyNet Analytics Group
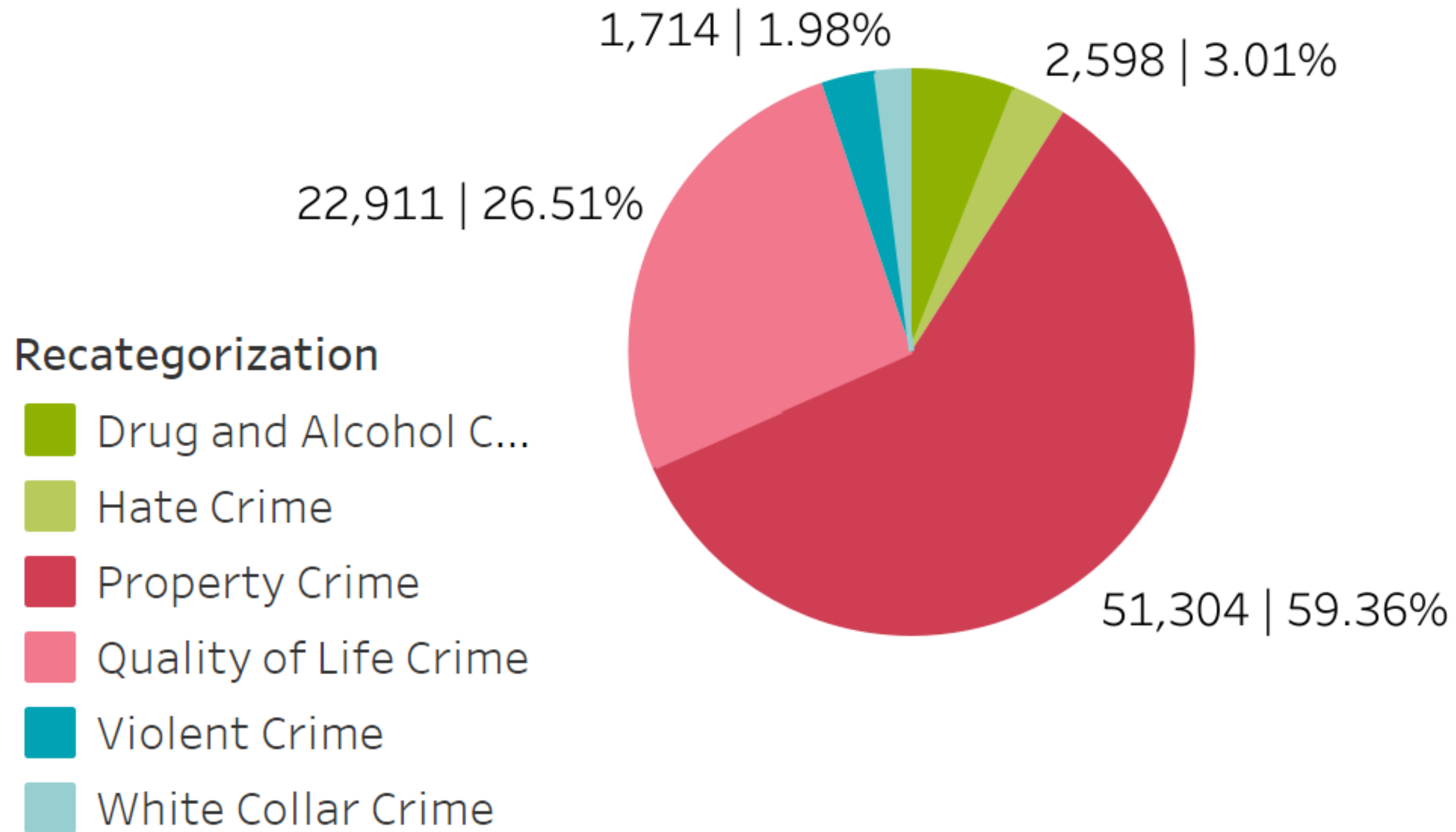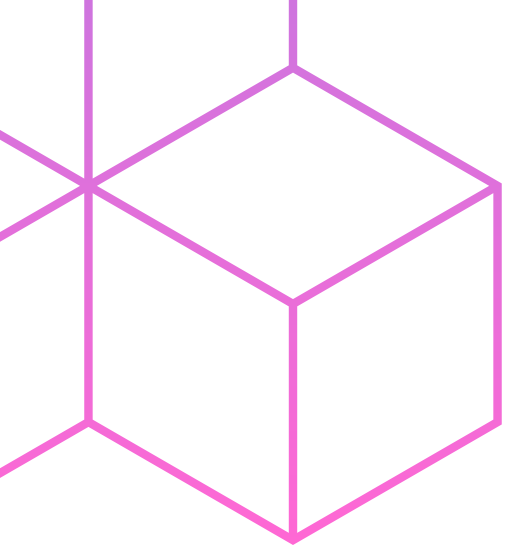
Total Incidents by Time of Day in 2023
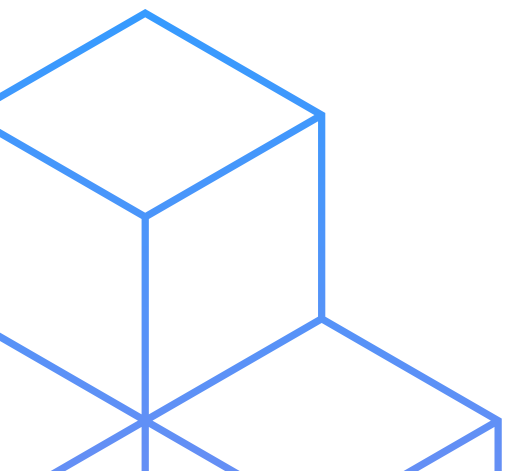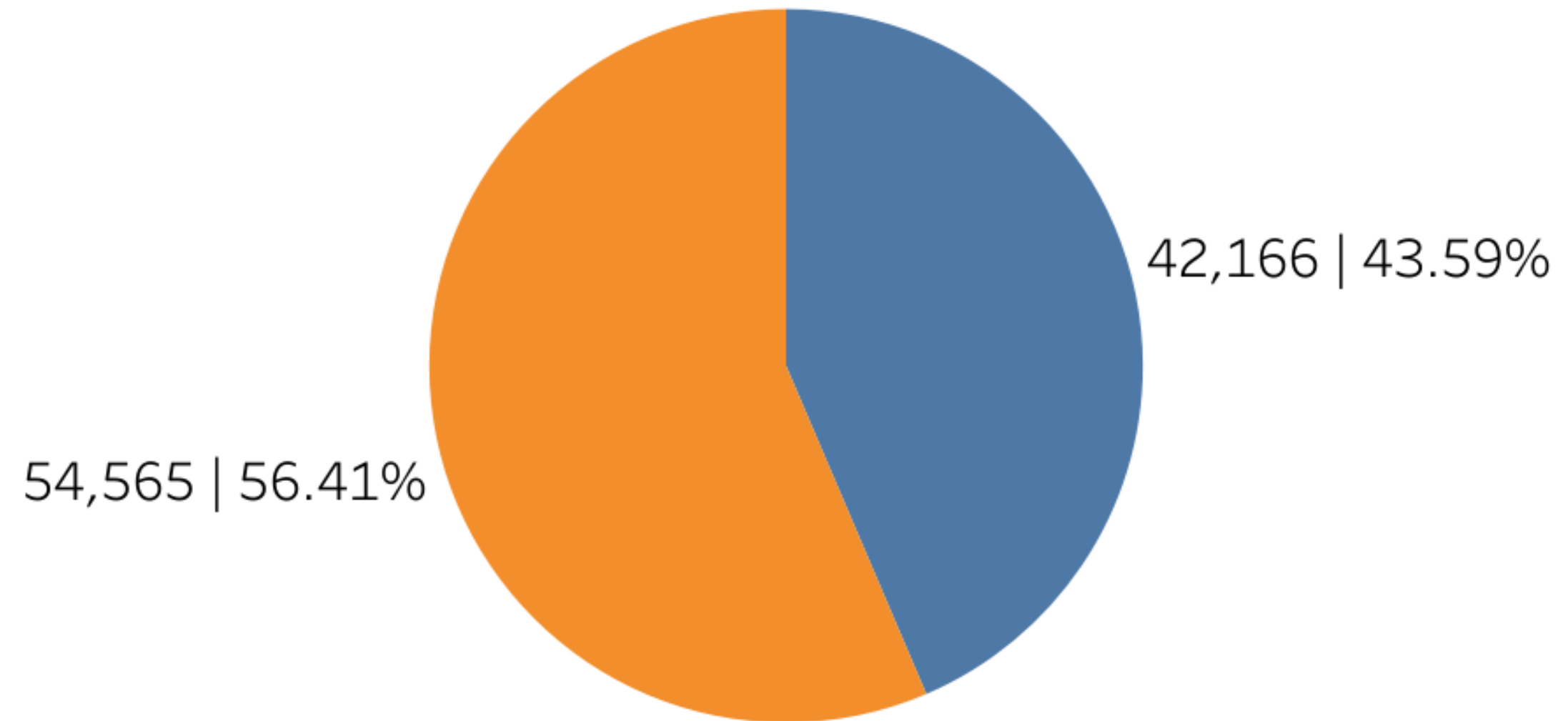
Time of Day
- Morning
- Night

42,166 | 43.59%

54,565 | 56.41%

SafetyNet Analytics
Group

Total Incidents by Time of Day in 2023

Incident Day of Week

- Sunday
- Monday
- Tuesday
- Wednesday
- Thursday
- Friday
- Saturday

13,334 | 13.785%

12,514 | 12.937%

13,566 | 14.024%

14,862 | 15.364%

13,489 | 13.945%

14,213 | 14.693%

14,753 | 15.252%

Incidents Count by Month in San Francisco

Total Incidents by Month & Crime Type

SafetyNet Analytics Group

Total Incidents by
Month & Crime Type

Incidents by Crime Type and Month in San Francisco
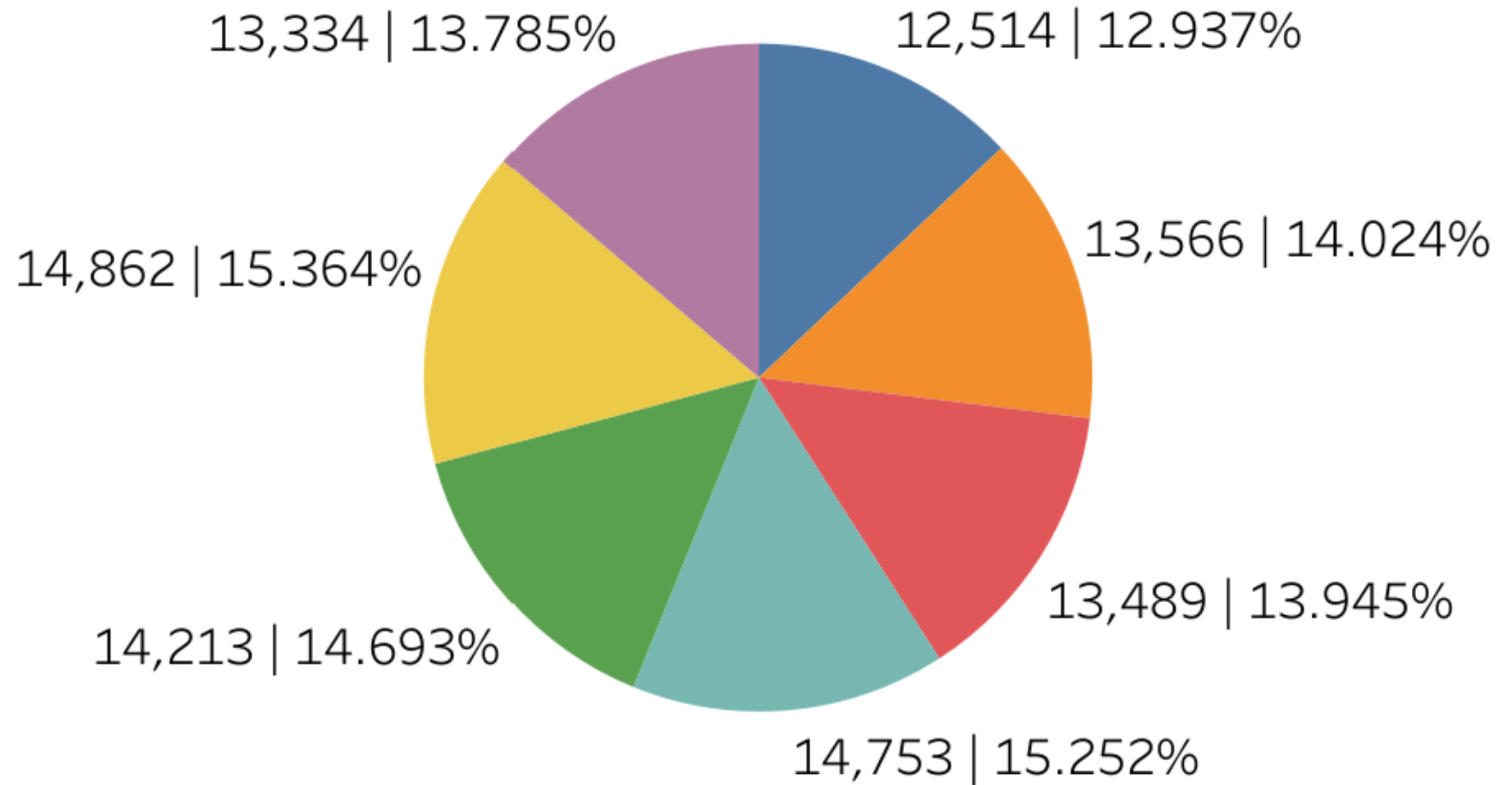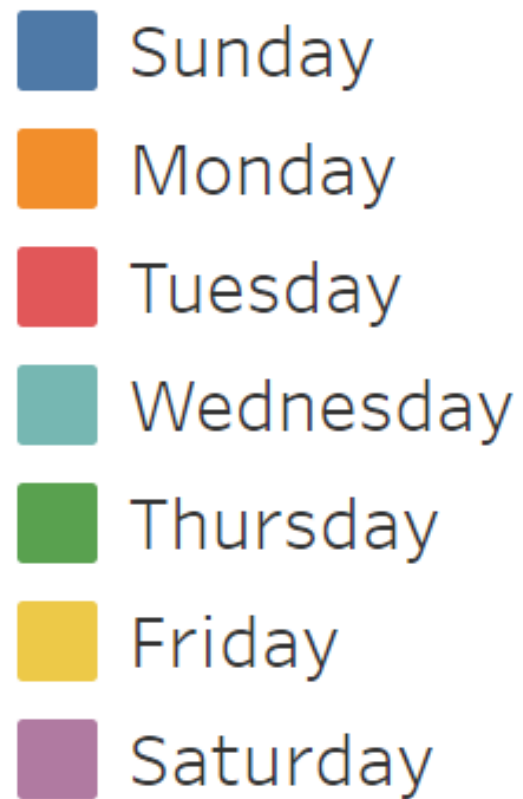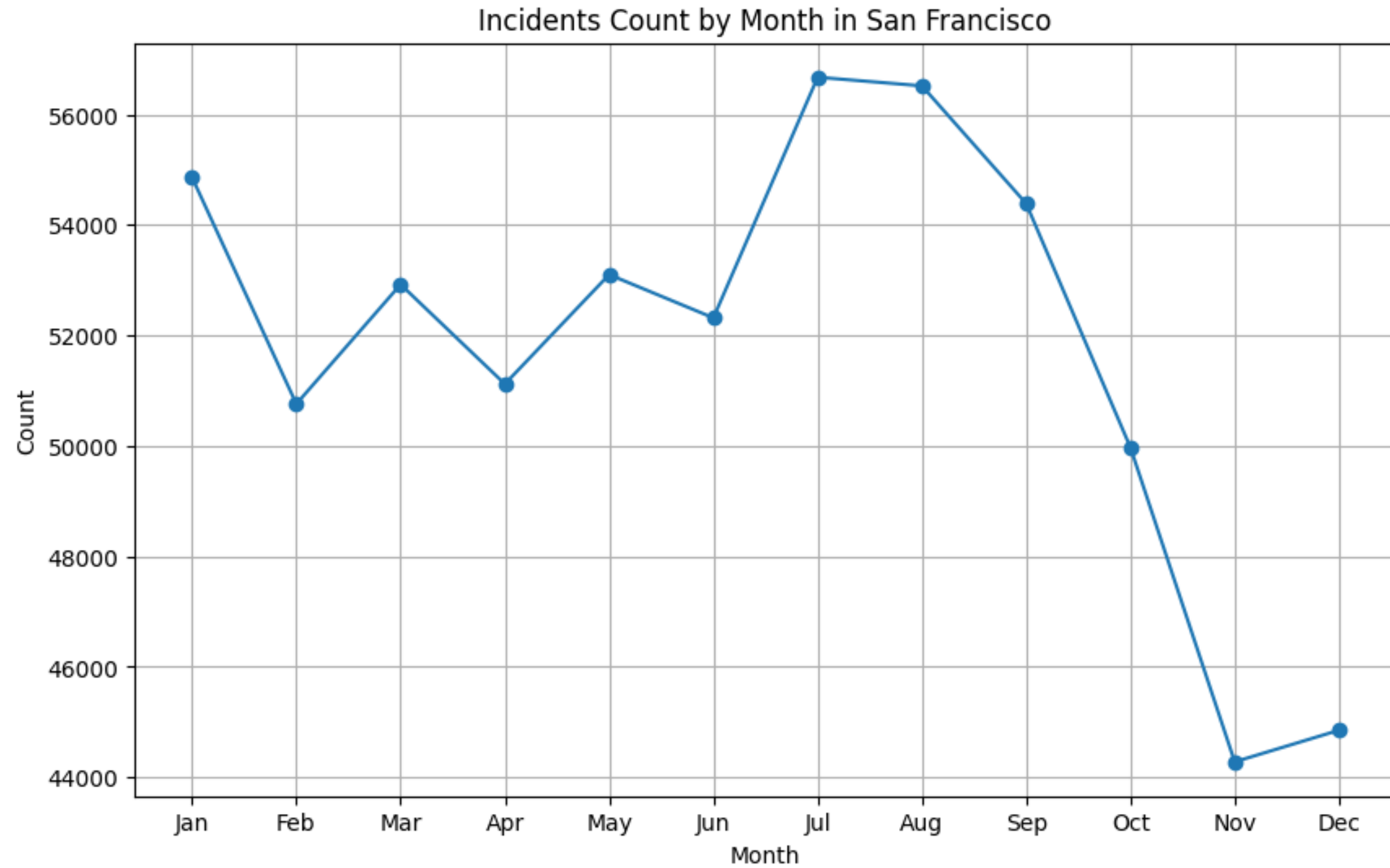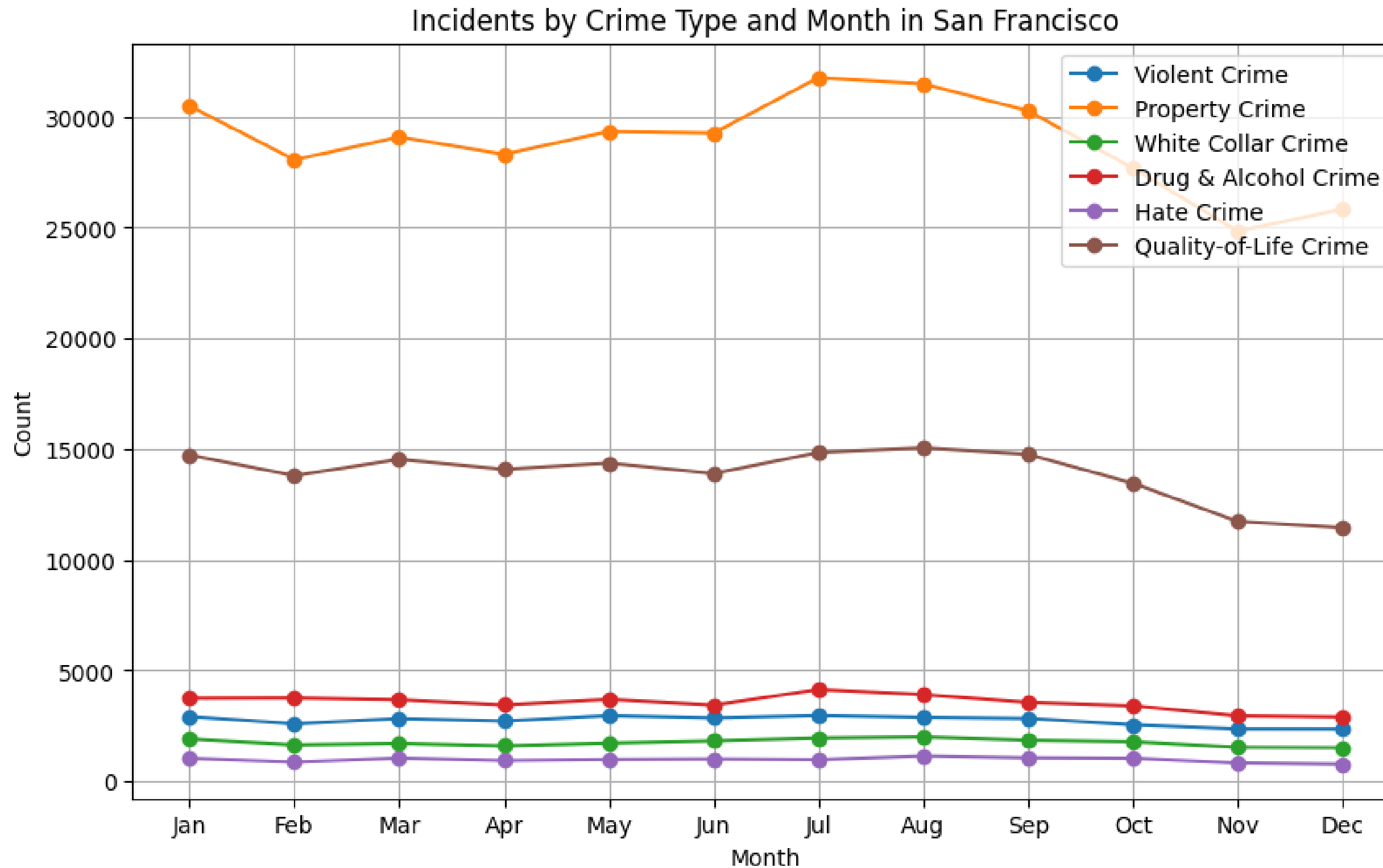
"McLaren Park in Crocker-Amazon?

Isn't that where gangbangers dump
DEAD BODIES?"

SafetyNet Analytics
Group
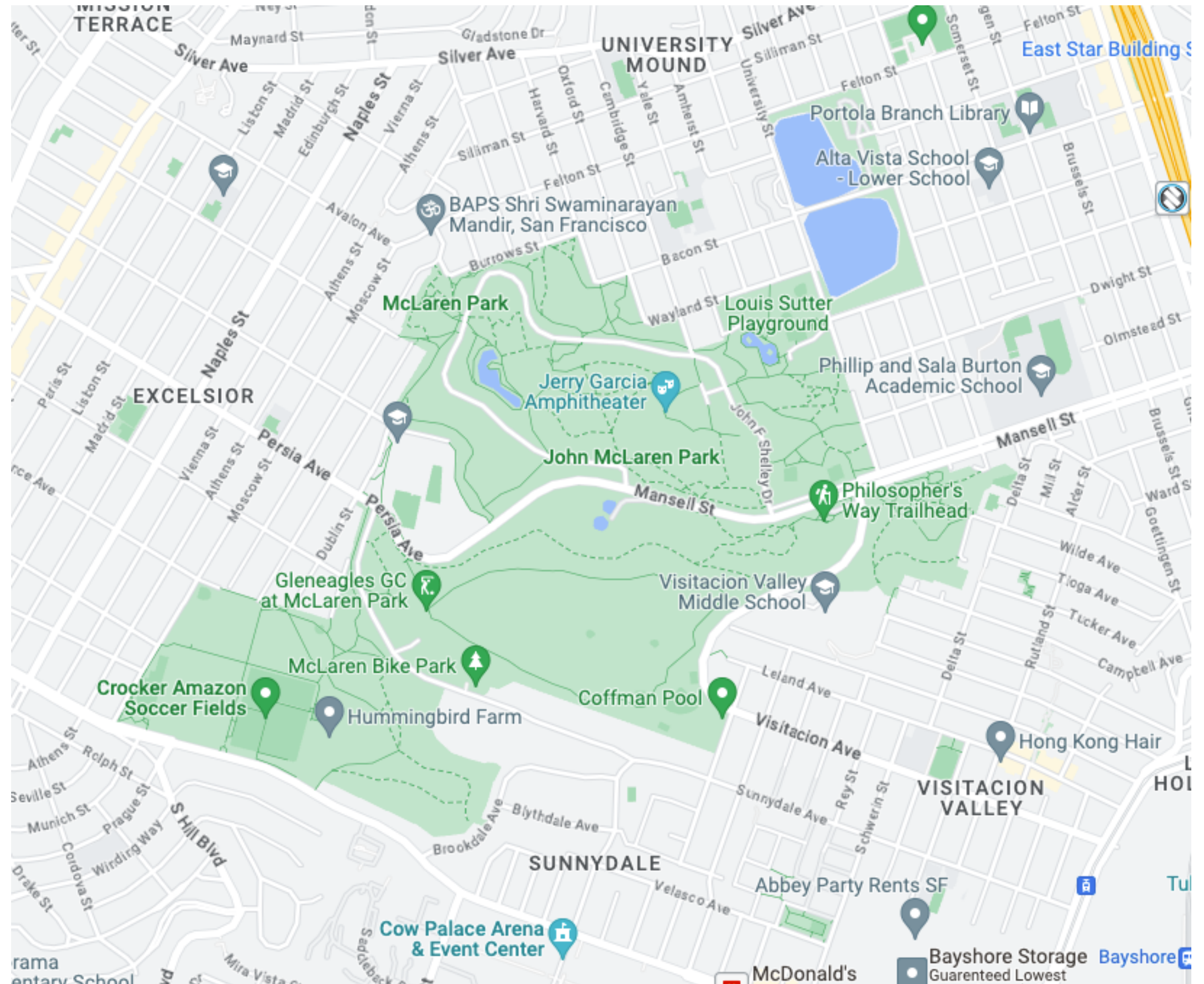
# Crocker Amazon is the Safest District in SF

- Crocker-Amazon
  - **133 reported incidents**
  - **0 violent crimes**
- Mission District
  - **9093 reported incidents**
  - **689 violent crimes**
  - **5057 property crimes**
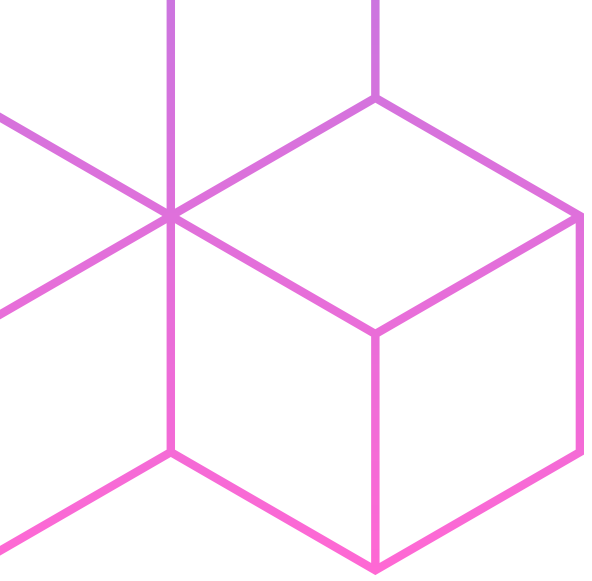
Next Steps

If given more time and resources, SafetyNet would...

- Include other aspects living conditions: Population, income, access to public amenities, geography, etc.

- Run Hypothesis testing on data sets that eliminates or confirms impact of identified variables
  - Examples: Correlation between population ethnicity and income

- Correlate identified trends with major events (e.g. covid, market crashes, etc.) to identify potential causes of safety disruptions

SafetyNet Analytics
Group
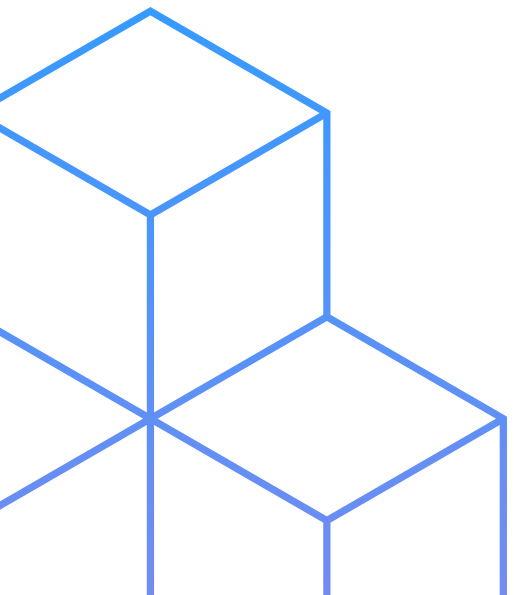
- SafetyNet's conclusions around SF neighborhood safety is based on crime. However, there are other variables such as security/police presence, city planning, etc. that should be considered before drawing conclusions.

- The team acknowledges that 2023 isn't over yet. The number of crimes recorded by the end of the year could increase by ~15% - 20% based on when the data was pulled.

- SafetyNet's categorization of crime did not include all reported incidents and may differ from other sources. The conclusions in this presentation are based on the team's assessment and definition of safety.

- The geographical boundaries and names of neighborhoods in SF can be fluid and may have changed over the course of the 5 years included in SafetyNet's analysis

Limitations of Data

SafetyNet Analytics

Group

References

Article: https://upgradedhome.com/safest-neighborhoods-in-san-francisco/

Data Set: https://data.sfgov.org/Public-Safety/Police-Department-Incident-Reports-2018-to-Present/wg3w-h783

GitHub:

Tableau Dashboard: https://us-west-2b.online.tableau.com/#/site/ucb/views/SafetyNetDashboard/Analysis?:iid=1

Questions?