



Summary

Cities across the world are increasingly launching open data portals to make their data available to the public. Crime data helps us gain insight into a city's organization, population, economic situation, overall safety, and can undoubtedly help individuals and official organizations make more informed decisions to ultimately refrain crime from happening and increase everyone's safety. This article seeks to shed light on crime data for the city of Los Angeles, CA.

About the Data

The dataset was retrieved from Los Angeles's open data portal and it is maintained/regularly updated by the LAPD. The raw dataset contained data from 2011-2019 for the greater Los Angeles area and had 1,914,826 rows and 26 columns. In this article, only data for the year of **2015** was kept and analyzed. After extensive cleaning (there were a great deal of inconsistencies, outliers, and missing values), the final dataset contained 214,698 rows & 20 columns.

Data Source: Crime Data from 2010 to Present (<https://data.lacity.org/A-Safe-City/Crime-Data-from-2010-to-Present/y8tr-7khq>)
R Packages used: dplyr, ggplot2, ggrepel, treemap, stringr, lubridate, wordcloud

Audience

This article may be of interest to Los Angeles residents, travelers, official organizations, and anyone who has an interest in crime data, information visualization, or data science for social good. The findings might help you to know where you should (or shouldn't) be booking your next Airbnb/renting your next apartment!

Questions

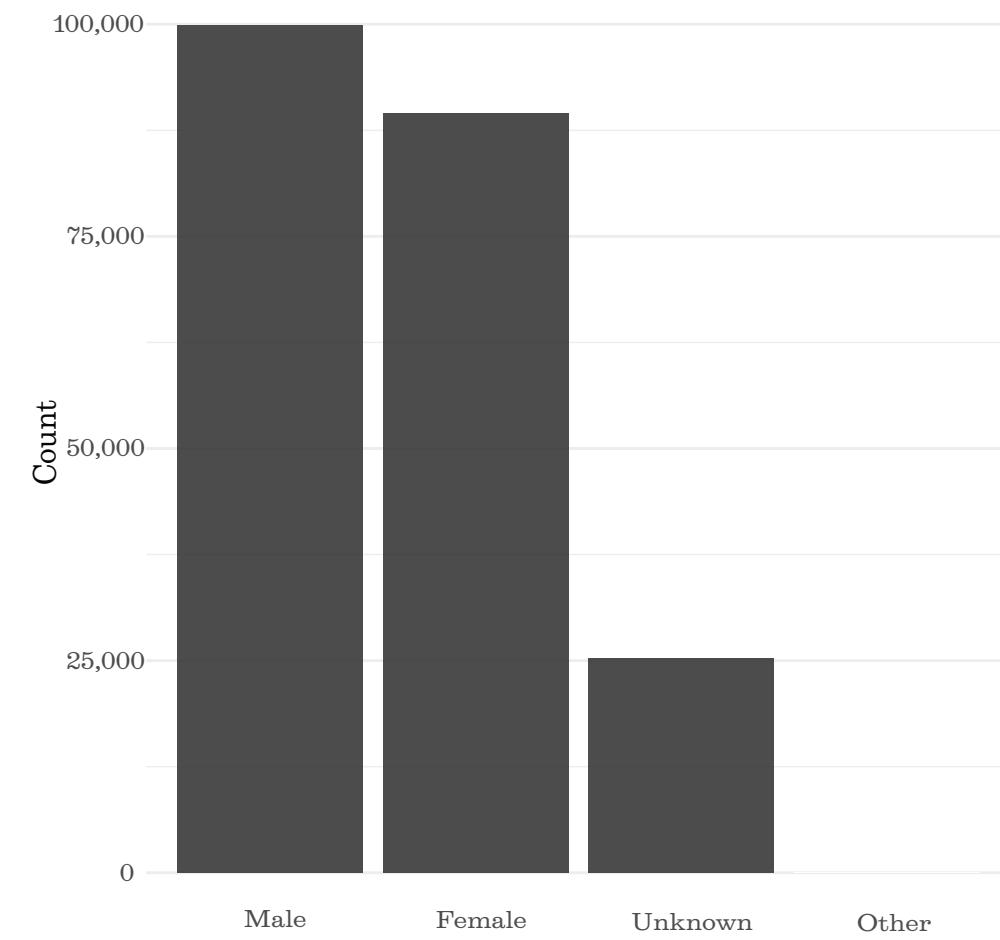
This article will answer the following questions:

- (1) Who were the victims?
- (2) What were the top 6 crimes, top crime premises, and where did crimes happen?
- (3) When did crimes happen?

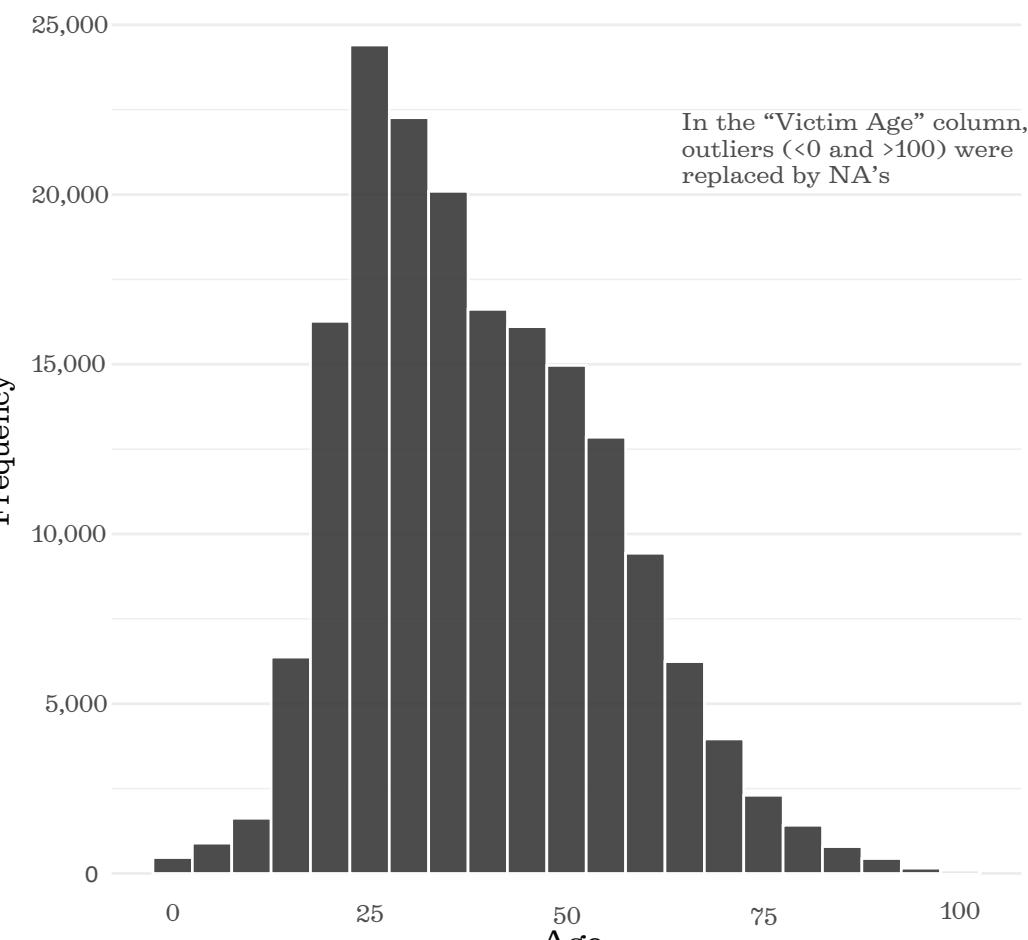
Demographics

The plots on the right indicate that most of the victims were of Hispanic, Caucasian, and African-American descent. There were more male victims than female victims overall, and the age distribution shows that most victims were in their 20s-50s (female victims being slightly younger than male victims).

Number of Victims by Gender (2015)



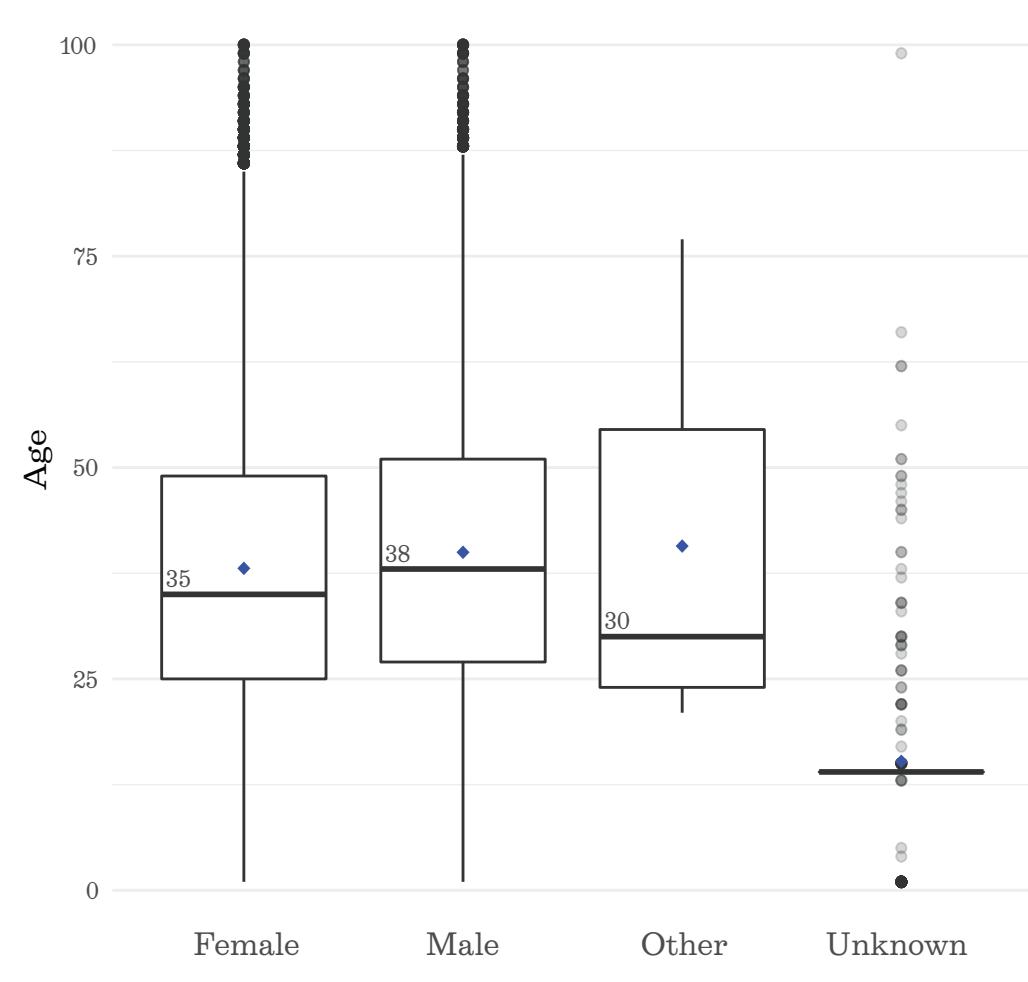
Victim Age Histogram (2015)



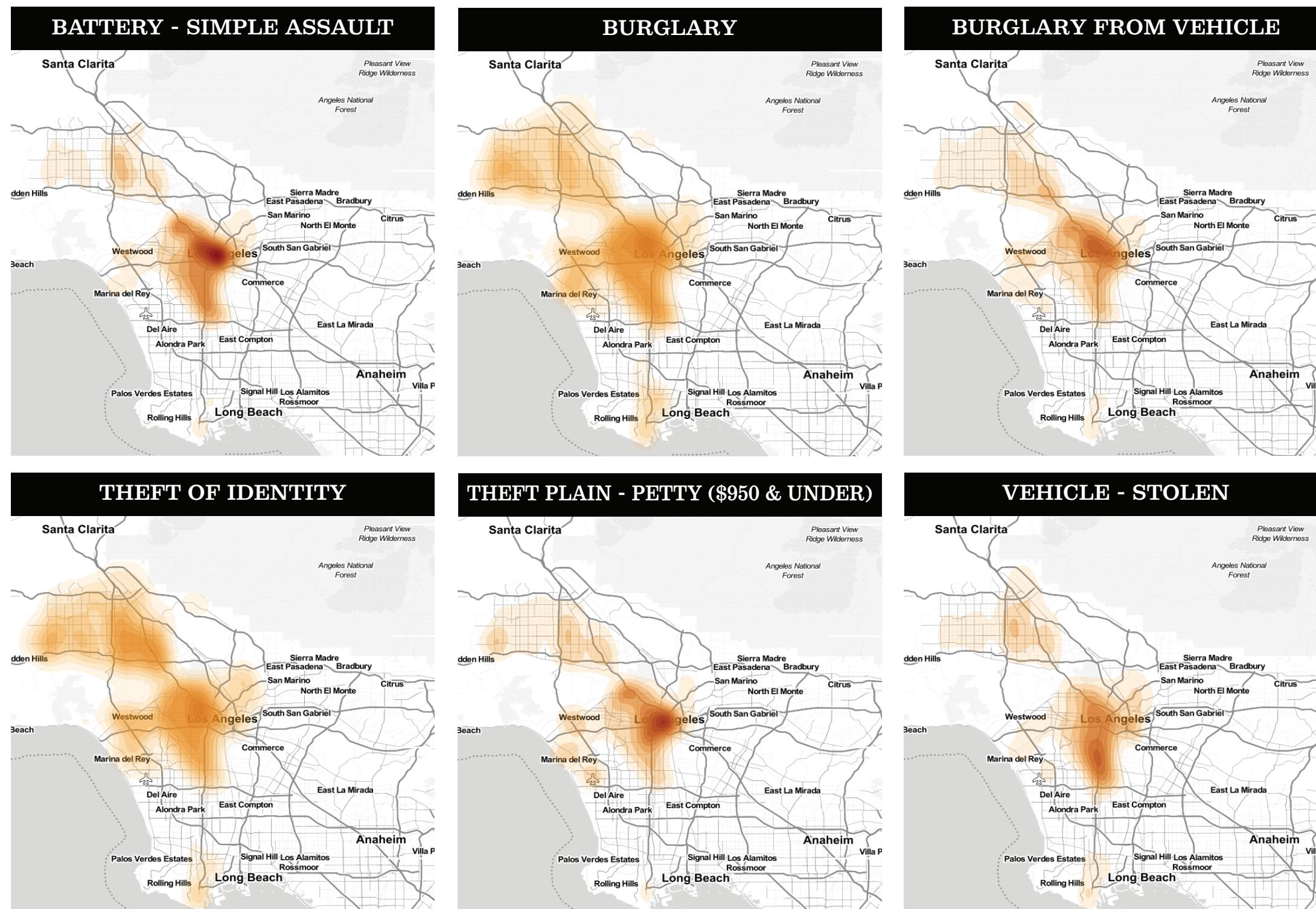
Victim Ethnicity Treemap (2015)



Victim Age Boxplot (2015)



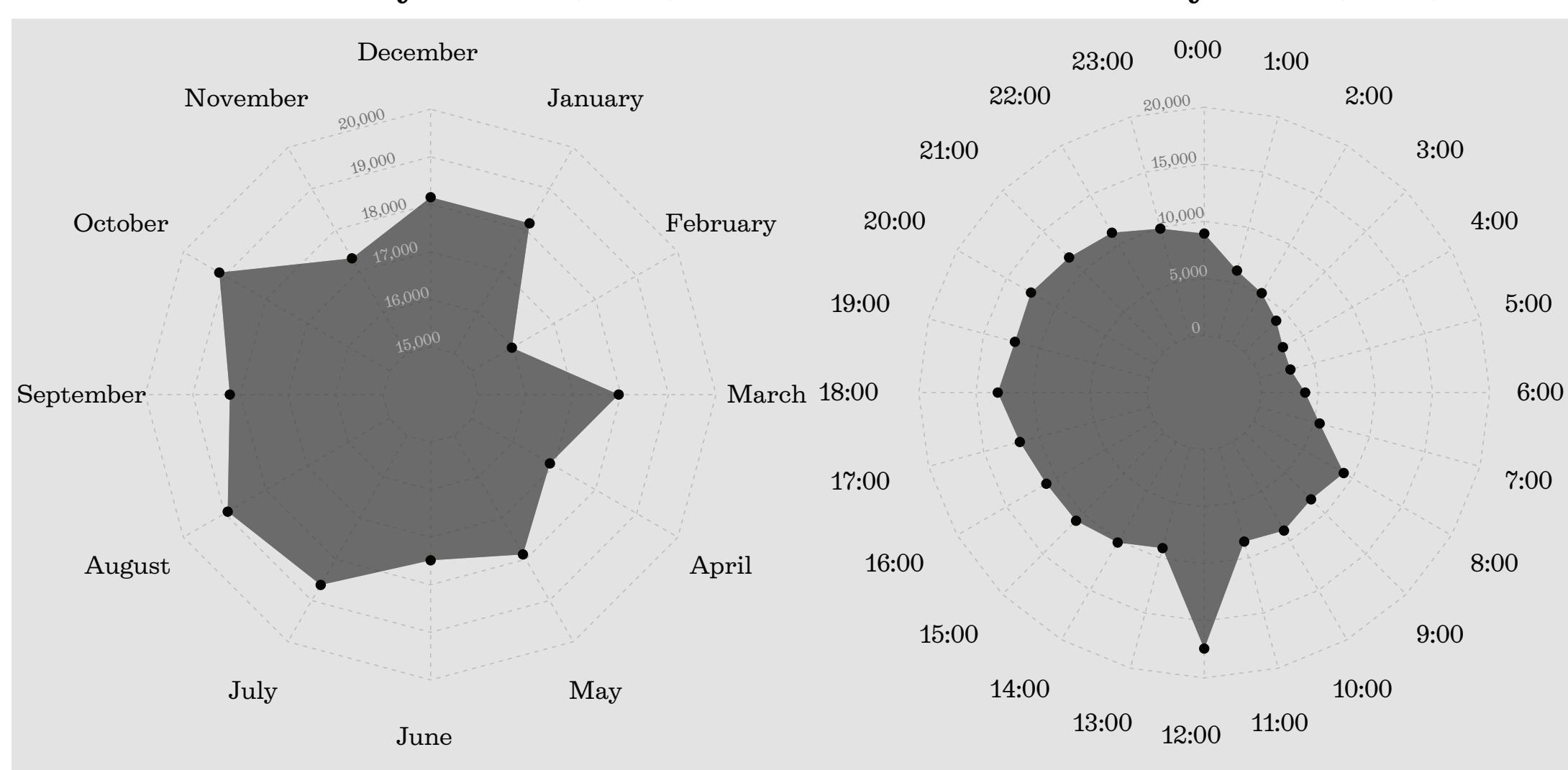
Top 6 Crimes Heatmaps (2015)



Top 30 Premises Wordcloud (2015)



Number of Victims by Month (2015)



Number of Victims by Hour (2015)

