

Boston Crime Incident Data Analysis

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Problem Statement

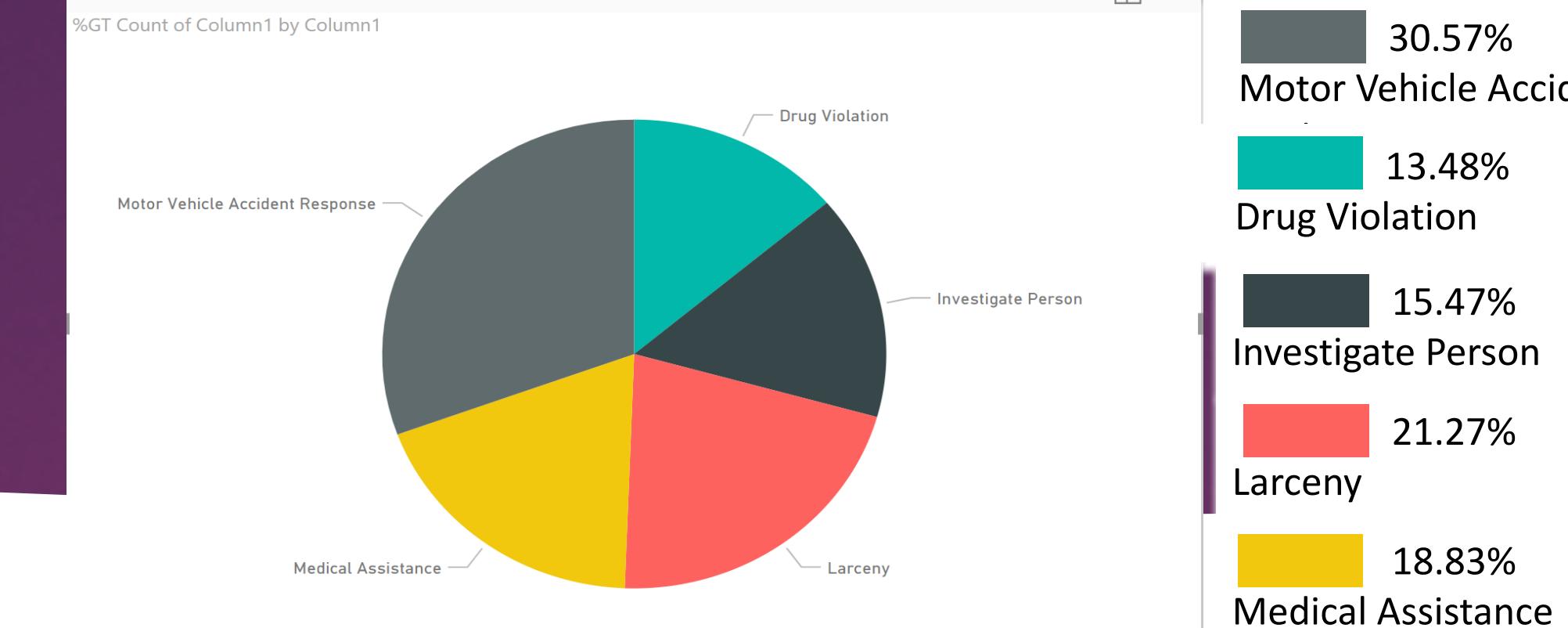
Boston is one of the most popular cities in United States and one of the biggest hubs for technical startup's, universities and historic places. This analysis and visualizations aim to help the residents and visitors stay safe. Also helps Boston police to identify the crime hotspots and improve security in menacing areas.

Tools: R and Tableau

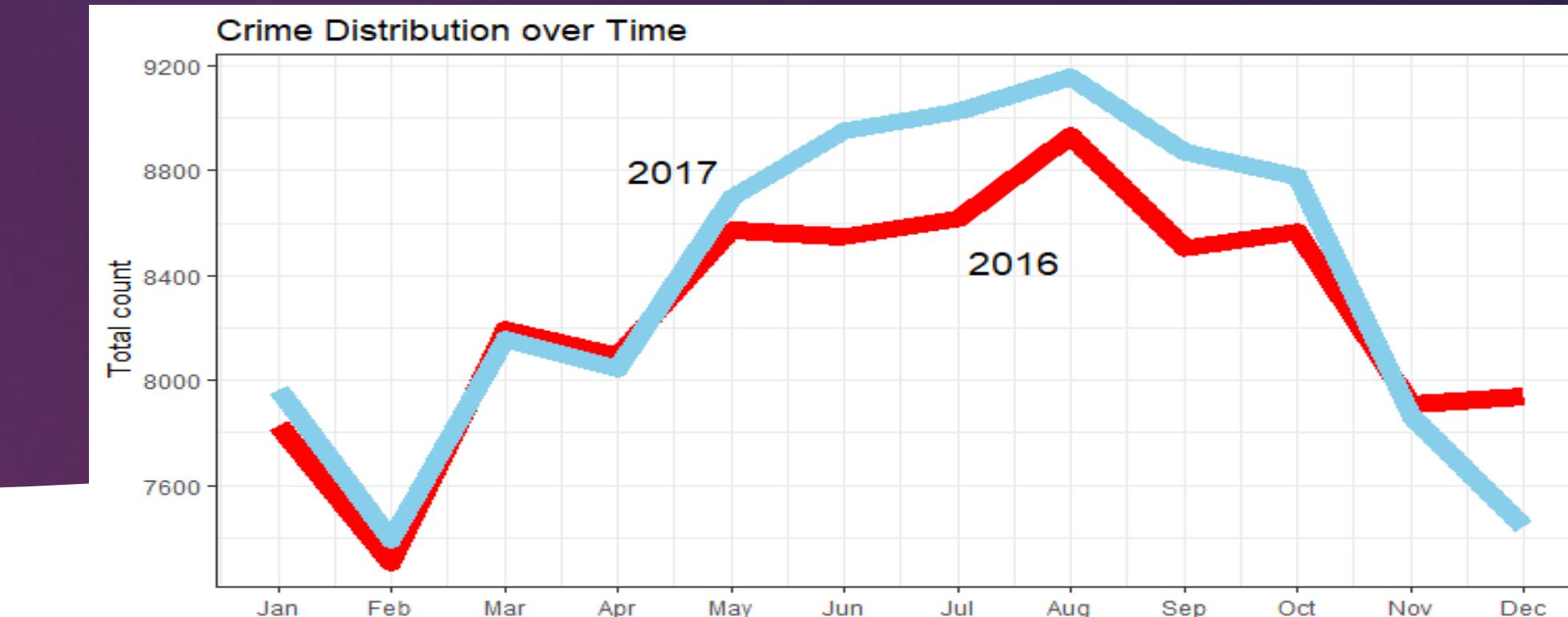
About the Data

Used Boston crime incident reports dataset starting from June 2015 till date. The set of fields in this dataset focuses on capturing the type of incident, when and where the incident occurred in Boston.

Top 5 Crime Category Distribution



Annual Fluctuations Over Time

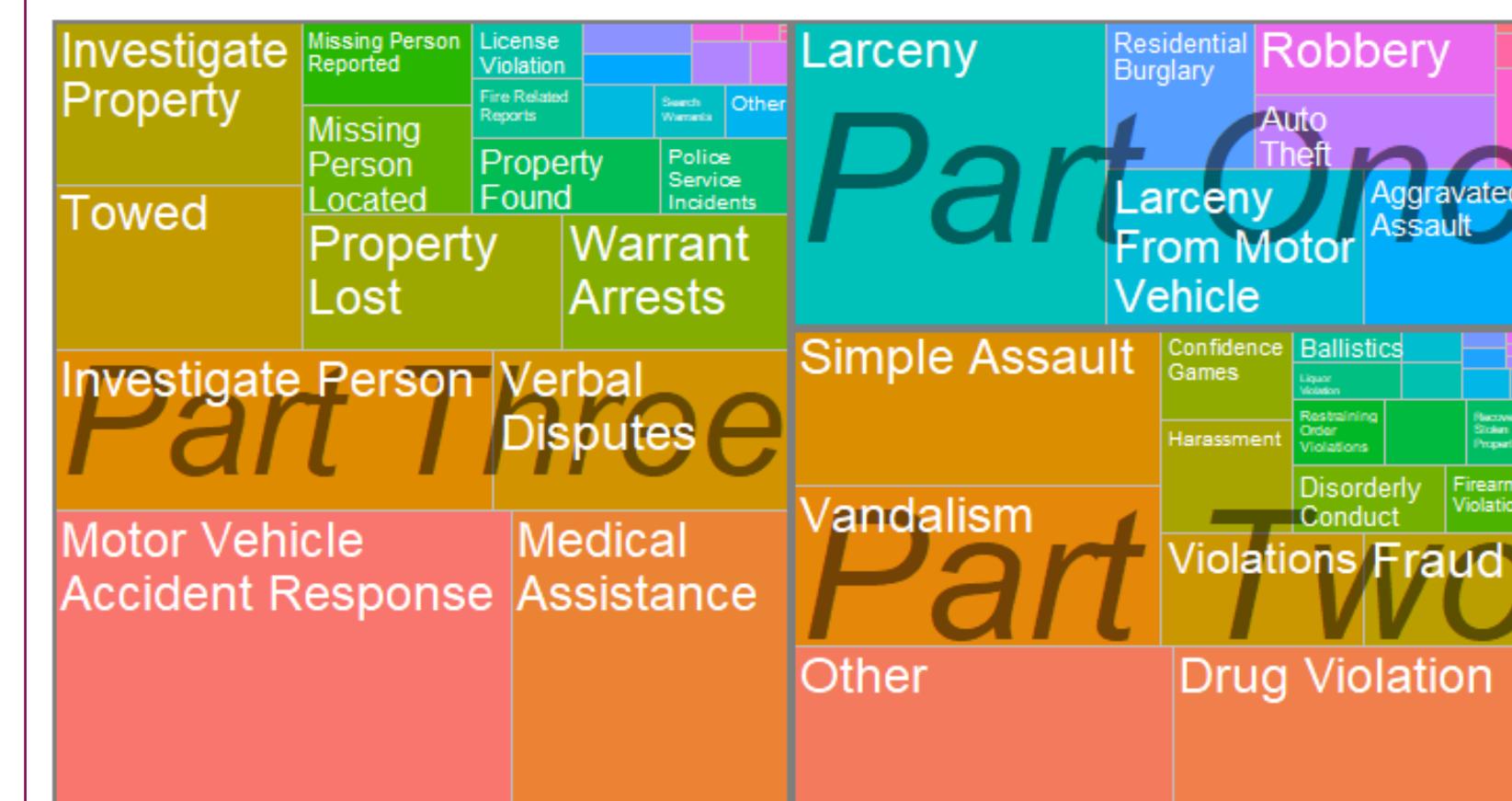


Mapping Crime Density

This illustration helps to view the crime density in and around Boston.



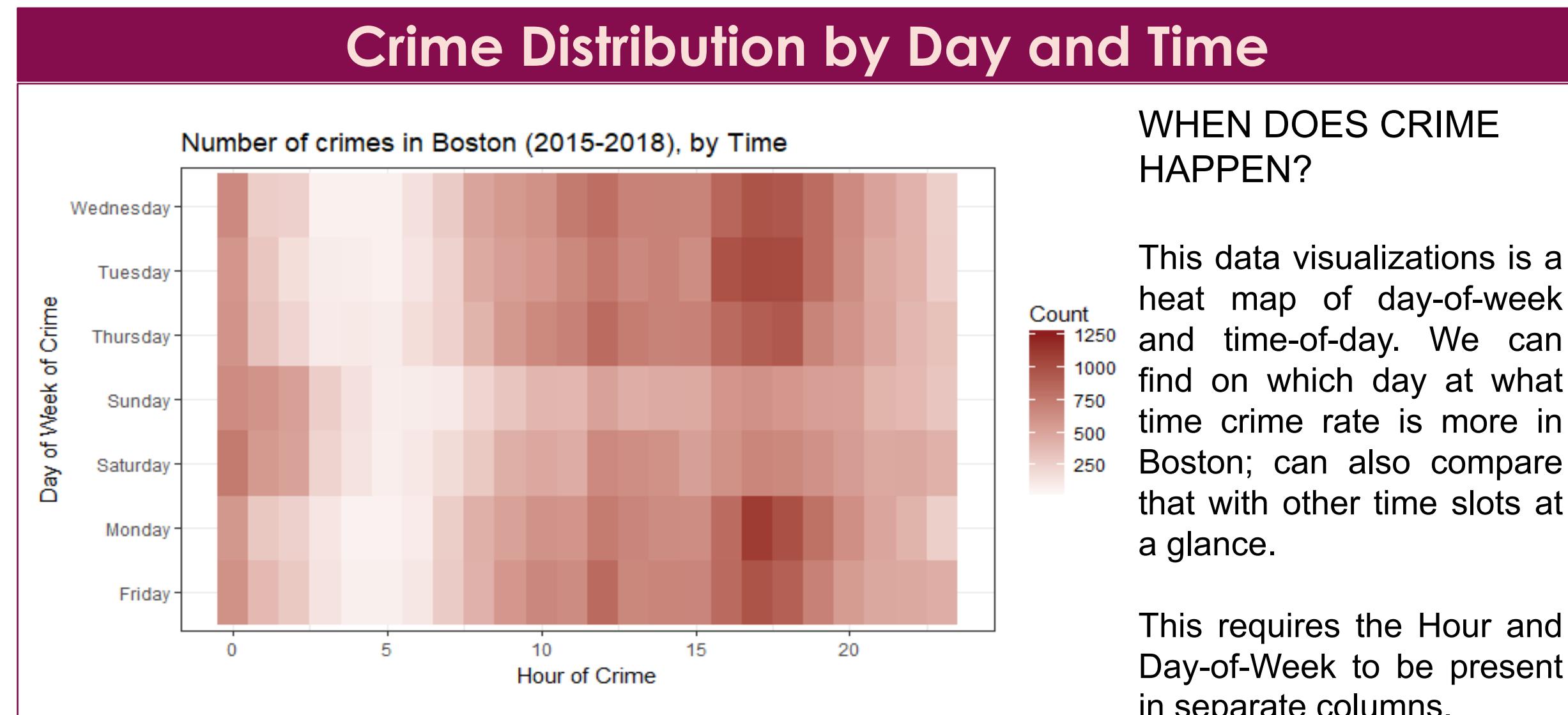
UCR Index Crime Rate



This is a tree map used to display the crime incident reports hierarchical data.

Used UCR (Universal Crime Reporting) part numbers 1, 2, 3 as the variables that describes the area of titles.

In this map the color and size depicts the number of crime incident reports of a particular UCR part number.



WHEN DOES CRIME HAPPEN?

This data visualization is a heat map of day-of-week and time-of-day. We can find on which day at what time crime rate is more in Boston; can also compare that with other time slots at a glance.

This requires the Hour and Day-of-Week to be present in separate columns.

Mapping Top 20 Menacing Areas

FIND THE CRIME HOTSPOTS IN BOSTON

This data visualization helps in identifying the top 20 dangerous locations. This map is generated by considering number of crime incident reports at a particular location. Ranking of these places can be given by density of crime.

crime distribution

