

NYC Motor Vehicle Collisions

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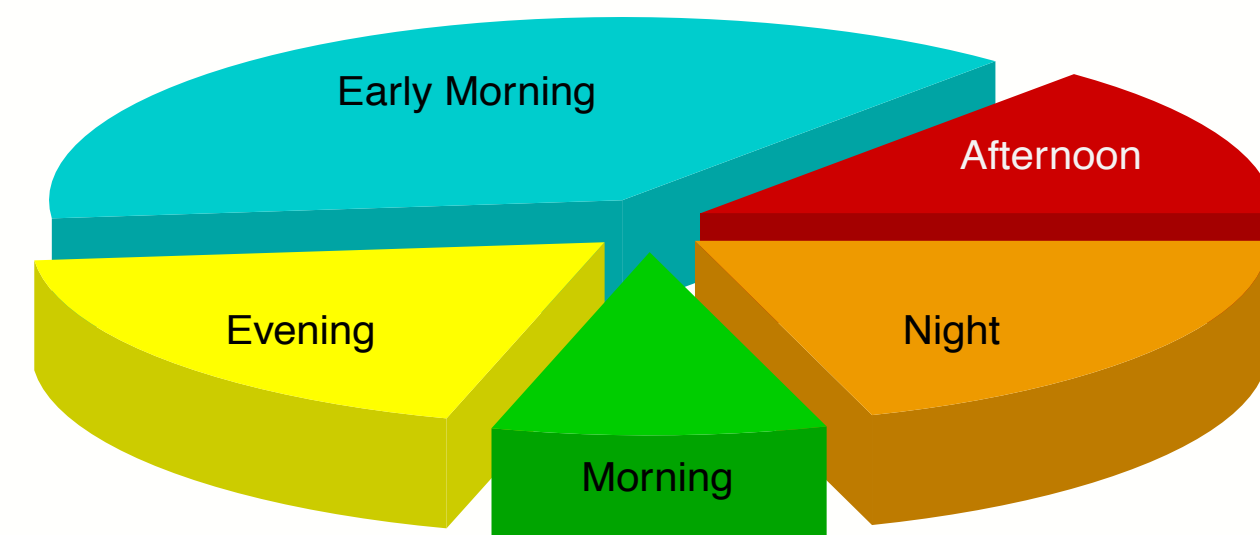
IST 719 | Information Visualization

Source: <https://www.kaggle.com/new-york-city/nypd-motor-vehicle-collisions>

Story

Motor Vehicle accidents are common in the present century, the data can help in preventing such accidents by informing the public and authorities of the New York City about the trend of the accidents like the time, place and cause which was the driving factoring in the past, so that the citizens could be aware.

Time of Accidents



Reference - Time Buckets | Percentage of Accidents

Early Morning : 00:00 - 05:59 | 37.86%

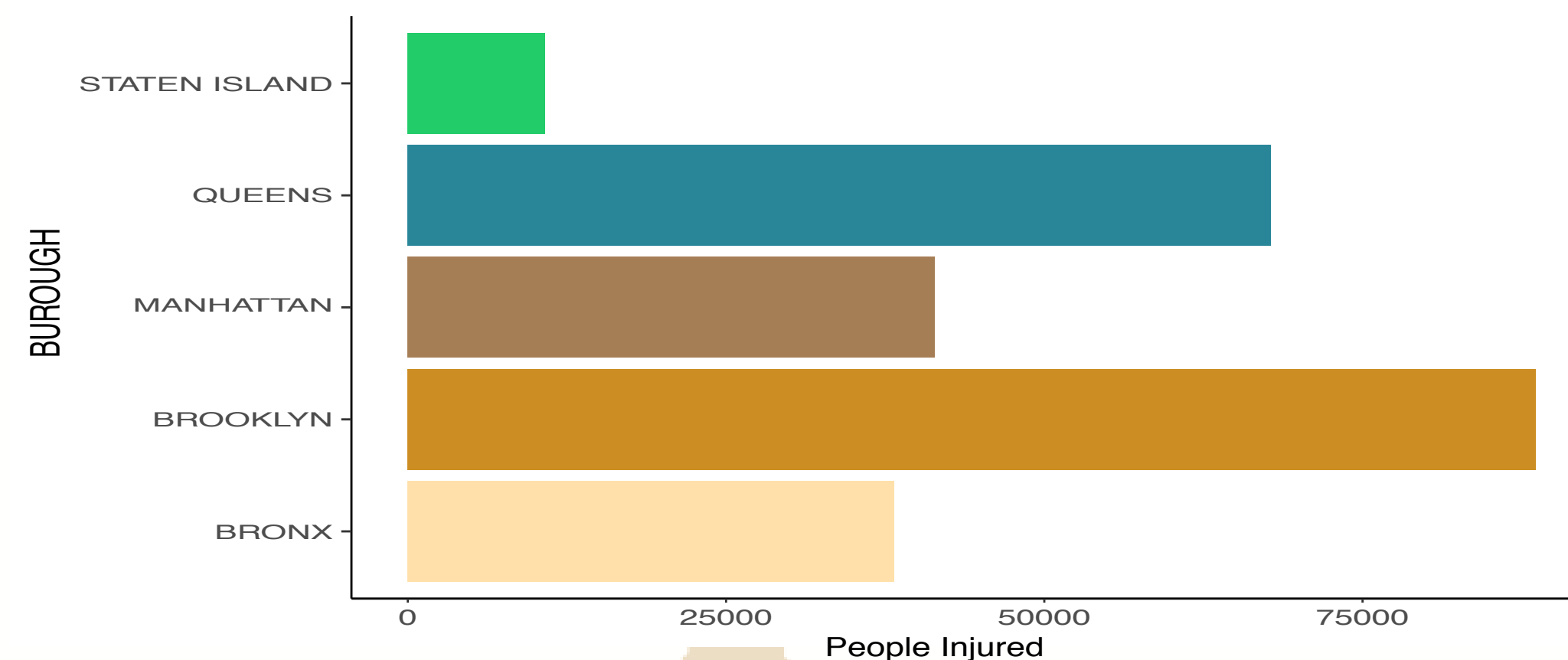
Morning : 06:00 - 11:59 | 9.44%

Afternoon : 12:00 - 16:59 | 13.71%

Evening : 17:00 - 19:59 | 18.97%

Night : 20:00 - 23:59 | 20.02%

People Injured Per Burough



Dataset Description

The dataset is obtained from Kaggle is regarding the motor vehicle collisions which happened over the period of 8 years in New York City. The dataset contains the details of the accident which includes the Burroughs where accidents happened, date and time when the accidents, vehicles involved in the accidents, people injured or killed, etc. The dataset provides data for copious visualizations and storytelling informing the reader about the trend of accidents.

Rows: 1,441,945 | Column: 29

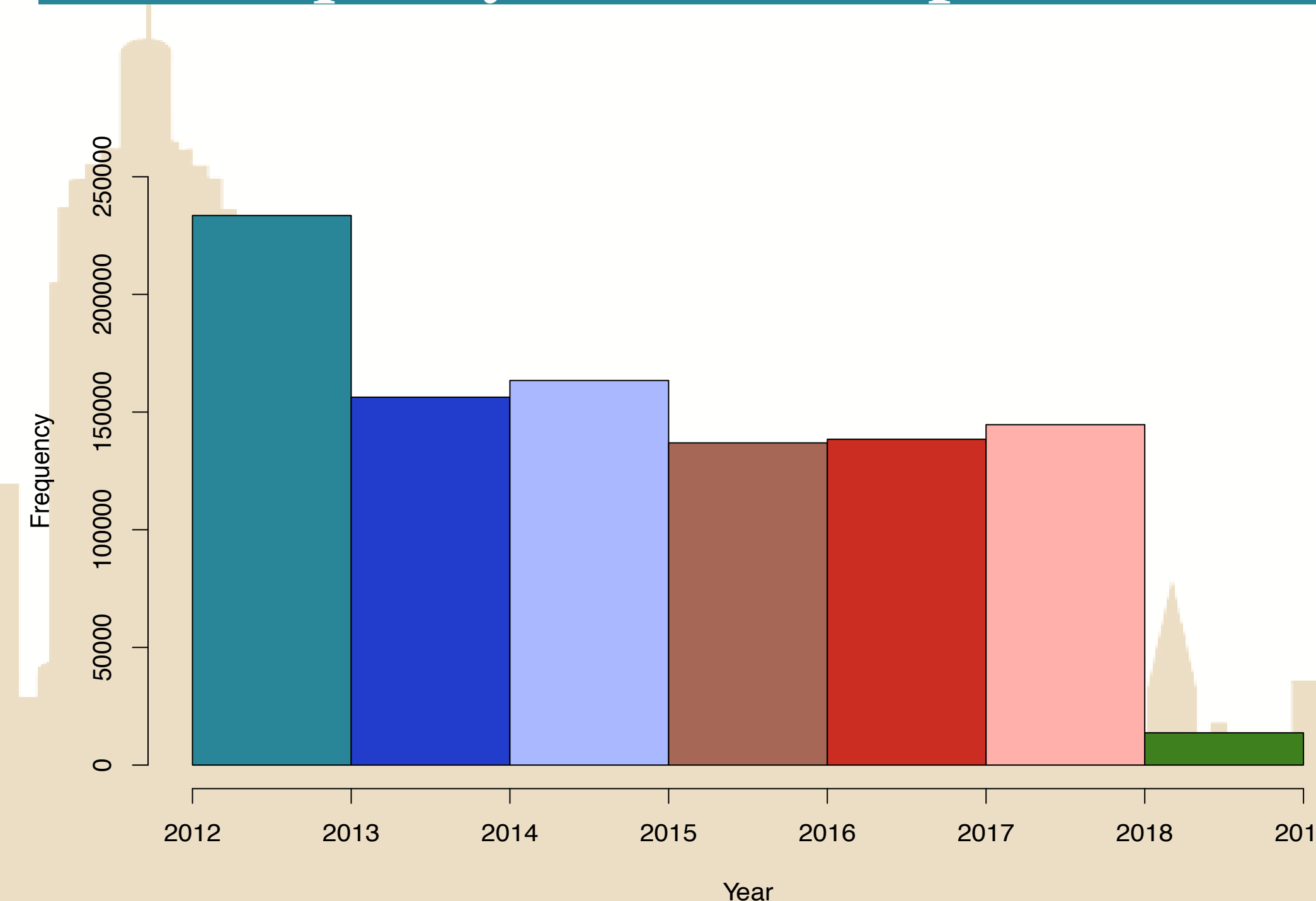
Audience

The audience for the visualizations will be the citizens of New York State and the authorities. It would help them to analyze the accidents trends and be safe for their travel across New York City.

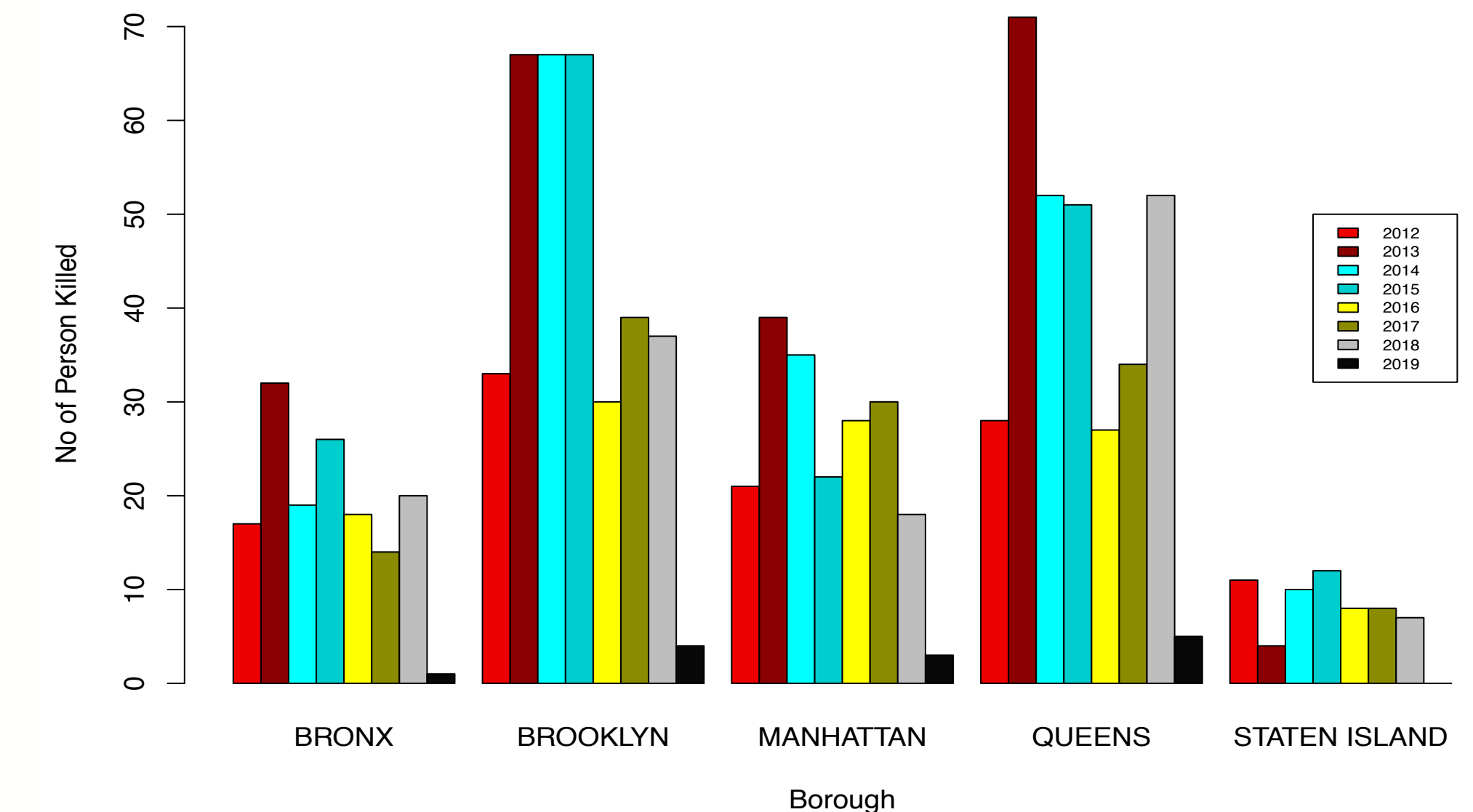
Main causes of Accidents



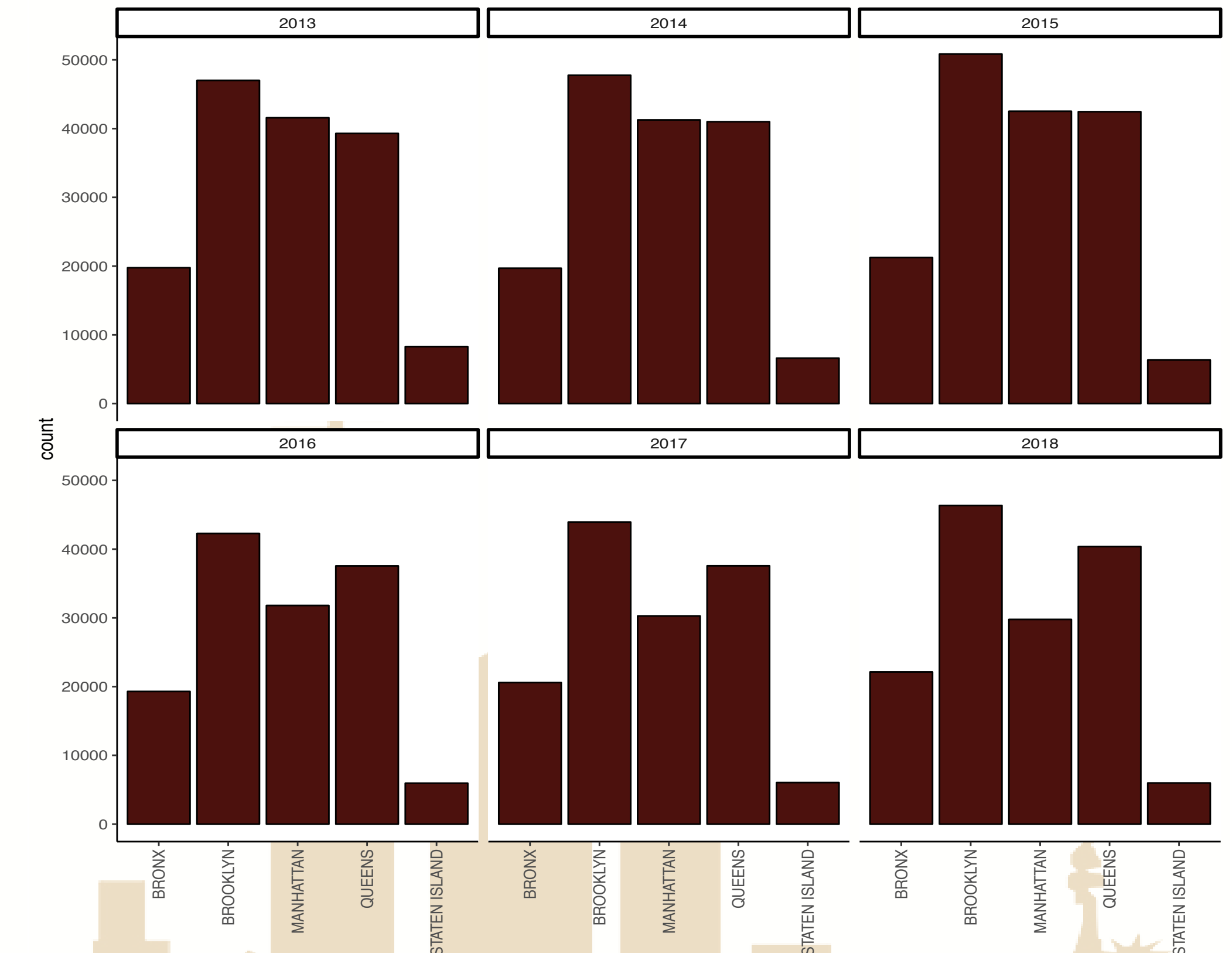
Frequency of Accidents per Year



Fatal Accidents throughout 8 Years?



How many Collision per Borough?



References

Packages Used:GGPlot2 | Lubridate | WordCloud | Plotrix | RColorBrewer
dplyr | stringr
Software Used:R- Studio | Adobe Illustrator