

Questions

1. How does the violation locations distribute?
2. How does these traffic violations differ from different genders?
3. Does the traffic violations have seasonal behaviours and characteristics?

Why

The preliminary analysis of the data shows that traffic violations tend to occur at certain locations. The distributions of traffic violations occur at certain borderlines and concentrated areas in Montgomery County, Maryland. The analysis of this distribution will lead us to discover the causes of violation and how we can mitigate different types of violation happening in these areas.

Analysing the traffic violations between genders we want to find insights on the different driving habits from men to women.

How to answer the questions

1. Plotting data (Using Geolocation) on the map and compare it with Montgomery County map.
2. Analysing the traffic violations between genders. Plotting data on graphs with genders separated by colours (Gender vs Violation type, Fatality, Seat Belts, Personal Injuries etc.)
3. Comparing different correlations between different months or seasons.

Limitations

1. Do not have data of the road conditions in Montgomery County, Maryland.
2. Do not have data of drivers driving experience.

These are the limitations that are related to the traffic violations but we do not have the access to these data.

Who else answered the questions

1. An anonymous author published the Point distribution of traffic violation in Montgomery County, Maryland based on government data. The data include all "electronic traffic violations" since January 1, 2012. This analysis is based on 34 months of records. (<http://vizual-statistix.tumblr.com/post/101677467941/i-came-across-a-database-of-traffic-violations>)
2. The Maryland Statistical Analysis Center, Governor's Office of Crime Control & Prevention published "ELEVENTH REPORT TO THE STATE OF

MARYLAND UNDER TR 25-113 2013 Race-Based Traffic Stop Data"
Analysis ([http://www.goccp.maryland.gov/msac/documents/
TSDReport2014.pdf](http://www.goccp.maryland.gov/msac/documents/TSDReport2014.pdf))

How can we build on other projects that are done?

The data used by other work are similar to the data we use. (E.g. using government data). We are doing more specific analysis of the data (like relations between injuries, fatality related to gender) which are not covered by previous projects.

References

1. Quick-R (<http://www.statmethods.net/>)
2. Traffic Violations in Montgomery County, Maryland ([http://
catalog.data.gov/dataset/traffic-violations-56dda](http://catalog.data.gov/dataset/traffic-violations-56dda))

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