Project Proposal Group 3

Zhengqi Dong & Cornelius Johnson March 19, 2019

Group 3 members

- Cornelius Johnson
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A summary of what you have done so far.

We have finished all series of the Shiny tutorial, and created some visualization demos based on the examples provided in the Shiny Gallery. Additionally, we also have a shinyapp.io website set up successfully.

A summary of what you still need to do.

In the following week, we will start to draw more graphs and analyze the data to give a specific and concrete answer to those questions that we have proposed. Furthermore, we will pick several appropriate visualization methods to represent our results. For the presentation, we plan to include figures and samples from our shinyapp and aggregate on MS PPT, so, during the presentation, we could discuss/explain based on the evidence, and at the end of the presentation, we could use some live examples to interact with the audience.

dSpecific to-do list:

- Collect summary statistics for each race and state
- Identify rankings for each state, such as which state has the highest stop rate for each race
- Devise a statistical model to test for racial bias
- Create graphics using ggplot to display the spatial distribution of stops
- Transfer this data to a shiny App
- Write a section on solutions to combat racial bias, referencing peer-reviewed sources and comparing our findings to the conditions necessary for each solution

A screenshot of your work in progress app and/or your code.

Please see the attached images for screenshots of our work, and the following links to view our demo apps.

- 1. https://dragoapp4194.shinyapps.io/demoApp/
- 2. https://dragoapp4194.shinyapps.io/05_speedupstockvis/