Project 1 Group 3 Proposal

# Heading 1

1. Project Title
2. Team Members
   1. Phil
   2. Rob
   3. Diane
   4. Gurupdesh
3. Project Description/Outline

Alcohol consumption has been an important part of American culture since inception, data is available that allows us to analyze consumer preference based on a variety of variables, race, income, region etc.

During this time of COVID liquor stores were identified early on as essential services and remained open.

We are interested in understanding the impact shutdowns due to covid spread have had on alcohol sales, consumption and/or distribution.

1. Research Questions to Answer
   1. Per census data, what are the consumption trends in the U.S.?
   2. How did COVID shutdowns affect alcohol sales, consumption or tax revenue?
   3. Which regions of the U.S. saw increases in alcohol tax revenue?
   4. Did regions not affected by shutdowns see any significant changes in alcohol consumption/tax revenue?
   5. Alcohol consumption rates associated with infection rates? Or vice versa.
2. Datasets to be Used
   1. U.S. Census Data
   2. Beer, Wine, Alcohol APIs
      1. <https://www.thecocktaildb.com/api.php>
      2. <https://www.openbrewerydb.org/>
      3. Others as needed!
   3. Government/Agency alcohol tax revenue
      1. TBD, by state, probably not API available
   4. Covid
      1. <https://www.nytimes.com/interactive/2020/us/states-reopen-map-coronavirus.html>
      2. <https://covidtracking.com/data/api>
3. Rough Breakdown of Tasks
   1. Identify data sources – first thing Saturday
   2. Pull, clean, merge data sources in Jupyter
   3. Perform statistical analysis on merged data, look for correlations in Jupyter Notebook
   4. Pull insights relevant to research questions from data
   5. Create visualizations, including map to illustrate the final data analysis with Jupyter/Matplotlib
   6. Prepare/draft presentation