Covid-19 Dashboard Summary

**Summary**: This dashboard allows users to examine and compare quantitative information related to the Covid-19 pandemic. Its purpose is to assist health officials and government leaders in planning health and public policy.

This dashboard combines the ideas of other dashboard into one place, such as including community mobility data and hospitalization estimates.

**Data:**

* County level Covid-19 cases and deaths data come from USAFacts.org.
  + The CDC uses its data on their website.
* Community mobility data comes from Google’s Mobility Data Reports
* Covid-19 deaths data by Sex, Age, and Race come from the CDC website, which is provided by the National Center for Health Statistics.
* Hospitalization data estimates comes from the CDC’s National Healthcare Safety Network (NHSN).

**About the Dashboard**: The dashboard consists of 5 main sections:

1. National Level Analysis
2. State Level Analysis
3. County Level Analysis
4. Tables of data used
5. Data dictionary
6. Discussion about the data sources.

**Analysis displayed:**

* National Level:
  + Total Number of Cases and Deaths on selected date.
  + County/State map of the United States.
    - Controls:
      * Choose Date
      * Choose Metric: Total Cases, Total Deaths
      * Choose Scale: Regular or Logarithmic
      * Choose View: County Map, State map
  + Data table containing information related to each state.
  + Dual axis line plot to compare covid-19 numbers across time.
    - Controls
      * Choose Left Y-Axis Metric: Total Cases, New Cases
      * Choose Right Y-Axis Metric: Total Deaths, New Deaths
      * Choose Scale: Regular or Logarithmic
    - You are able to click on items in legend to hide them.
  + Dual axis line plot to compare covid-19 numbers to Google Mobility data across time.
    - Controls
      * Choose Comparison Metric: Total Cases, Total Deaths, New Cases, New Deaths.
    - You are able to click on items in legend to hide them.
  + Bar graph of the number of Covid-19 deaths for each age group.
    - Controls
      * Choose Sex: All, Male/Female comparison (grouped bars)
  + Bar graph showing deaths by race from Covid-19
    - Controls
      * Choose metric: Count of Covid-19 Deaths, Distribution of Covid-19 deaths (%), Unweighted Distribution of Population (%), Weighted Distribution of Population (%).
  + Line graph showing statistical hospitalization estimates from the NHSN, with 95% confidence intervals.
    - Controls
      * Choose measurement type: regular or percent.
      * Choose metric: Hospital Inpatient Bed Occupancy, Number of Patients in an Inpatient Care Location who have Suspected or Confirmed Covid-19, ICU Bed Occupancy.
* State Level
  + The same as the national level, but filtered for each state.
  + Map becomes state county map.
  + Table becomes a table of counties.
* County Level
  + Only the map, covid-19 cases and deaths, and mobility data will be displayed.
    - No county level data for other measures could be found.