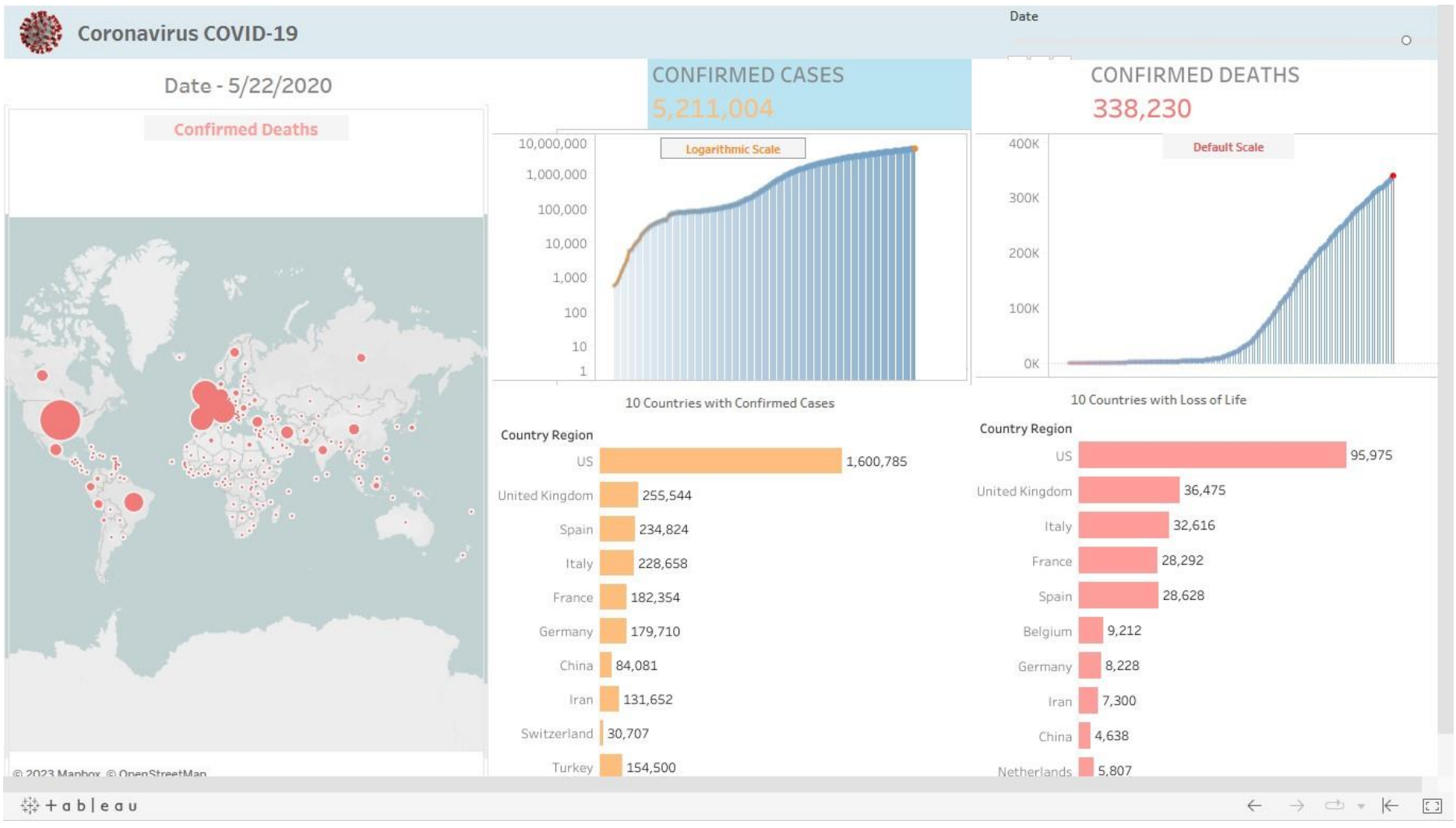
Covid-19 Dashboard

INTRODUCTION:

The COVID-19 pandemic has had a significant impact on the world, with millions of confirmed cases and deaths reported across different countries and regions. The pandemic has highlighted the importance of data visualization and analysis in understanding the spread and impact of the virus. The aim of this project is to create a COVID-19 dashboard that provides an overview of the pandemic from January 22, 2020 to June 4, 2020. The dashboard is intended to be a useful tool for policymakers, healthcare professionals, and the general public to track the progression of the pandemic and make informed decisions. By visualizing the data in an interactive and accessible way, we hope to increase awareness and understanding of the COVID-19 pandemic and its impact on different parts of the world.



Data Sources:

The dataset used for this project was taken from this data.world website which contains information about confirmed cases and deaths related to COVID-19. The data includes the longitude and latitude coordinates of each country and region, which was used to create a map visualization in the dashboard. The visualization tool used for this project was Tableau, which allowed for the creation of interactive visualizations.

Dashboard Design:

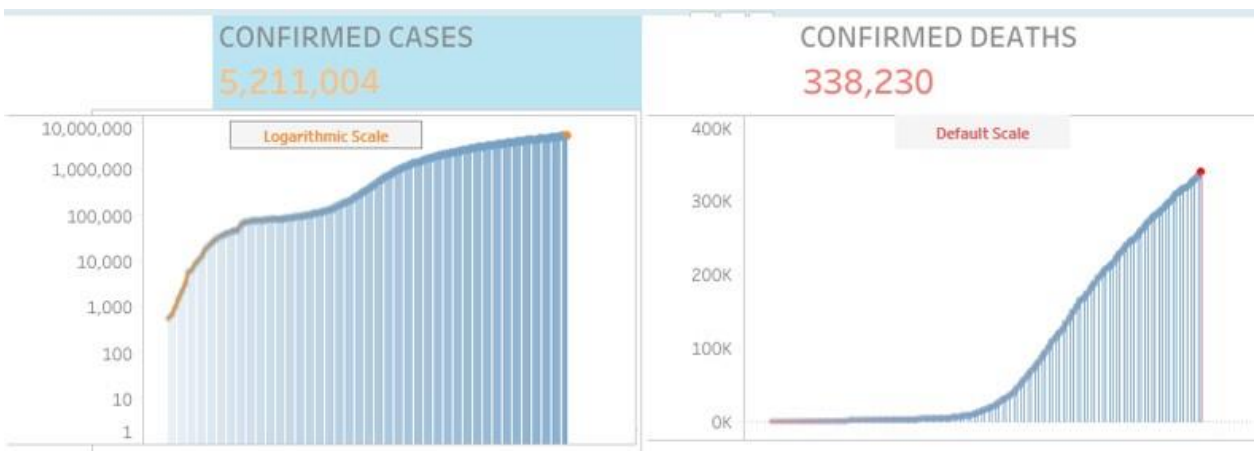
The COVID-19 dashboard has been designed to fit a standard screen size of 1366x768, providing an optimal viewing experience for users. The dashboard includes several visualizations that provide an overview of the COVID-19 pandemic as expalined below:

- **Map Visualisation**

  The left side of the screen displays an interactive world map, where each country is represented by a circle whose position is based on the latitude and longitude data provided in the dataset. The size of the circle is proportional to the number of confirmed cases in that country. The map allows for zooming, selecting, and panning, and a button provides the option to switch between viewing confirmed active cases and confirmed death cases. Confirmed active cases are represented by orange circles, while confirmed deaths are represented by red circles.

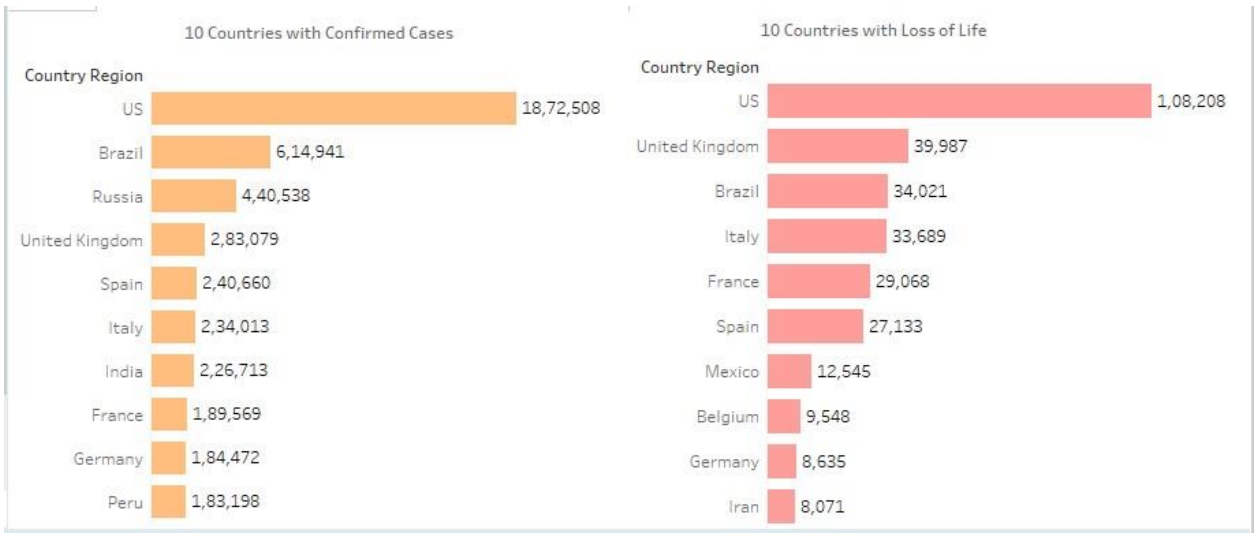
- **Line Graph Visualisation**

  The line graph visualization located in the upper right corner of the COVID-19 dashboard is divided into two sections, with the right side representing the number of confirmed deaths and the left side representing the number of confirmed active cases. Users can hover over any point on the graph to view a pop-up with detailed information about the number of cases on a particular date. Additionally, users can highlight a specific date on the graph to better track changes and trends over time. The graph also offers a logarithmic scale feature, which can be accessed by clicking on a button at the top of the visualization, allowing for more accurate comparisons of growth rates over time.



- **Bar Graph Visualisation**

  The bar graph in the rightmost bottom section of the dashboard is divided into two parts representing confirmed active cases and confirmed death cases, respectively colored in orange and red. The graph displays data for 10 countries using horizontal bars. We chose horizontal bars for comparing countries against their respective population because they allow country names to be displayed horizontally, making it easier to read and compare across multiple countries. The confirmed active cases graph has been represented by orange and confirmed death cases has been represented by red.



Note: This Dashboard is coherence with the criteria of Data Visualisation principles taught in Class.

Dashboard : https://public.tableau.com/views/DataVizuprojectfinallast/Dashboard1?:language=en-US&publish=yes&:display_count=n&:origin=viz_share_link

Data Source: covid-19-data-resource-hub/covid-19-case-counts | Workspace | data.world

Platform: Tableau (This dashboard has been published on tableau Public)

Reference: Build a Tableau COVID-19 Dashboard - YouTube