# Assignment 2

In this assignment, I made 3 visualizations for one dataset. I used covid dataset given by TA for exercise 3. These visualizations are choropleth map, bar and line graph. Choropleth map is interactive; you can hover over a country to see the number of total confirmed cases. Optionally, you can update the map according to a date chosen by you. It will show the total confirmed cases up to the specified date on the map and change the colors accordingly. The other two visualizations are static but there is filtering option. In bar graph, you will see covid deaths trend and in line graph you will see covid cases trend. As a default, it shows the deaths trend worldwide in bar graph and top 10 countries with the most severe covid cases trend in line graph. However, you can pick a country to see covid deaths and new cases trend of it. The overall picture of my website is as follows:
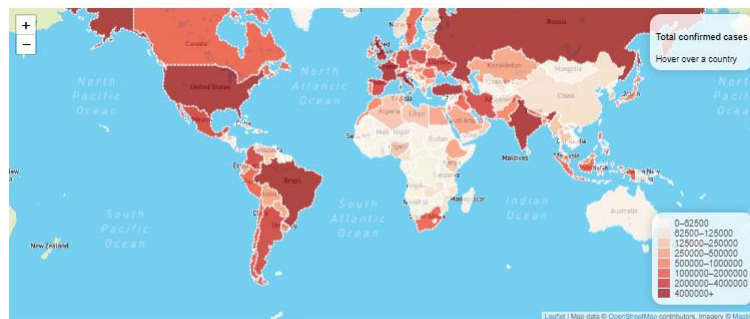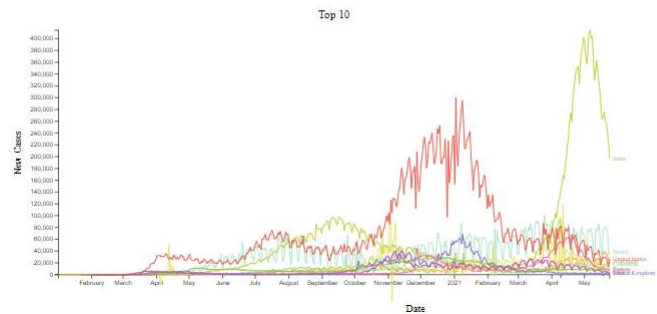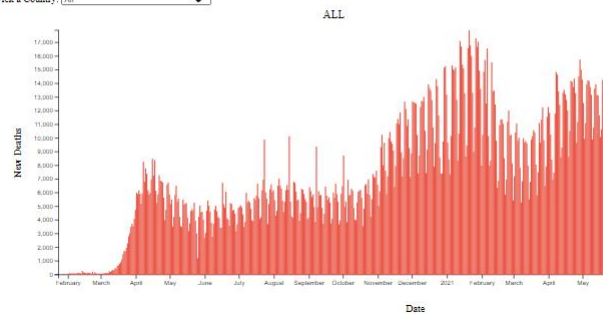

The reason why I chose line graph is it is the simplest yet effective way to visualize time series data. It is intuitive, easy to create, and helps the viewer get a quick sense of how something has changed over time. Same applies for

bar graph as well. Here is one example. I chose the country as Azerbaijan for the graphs.
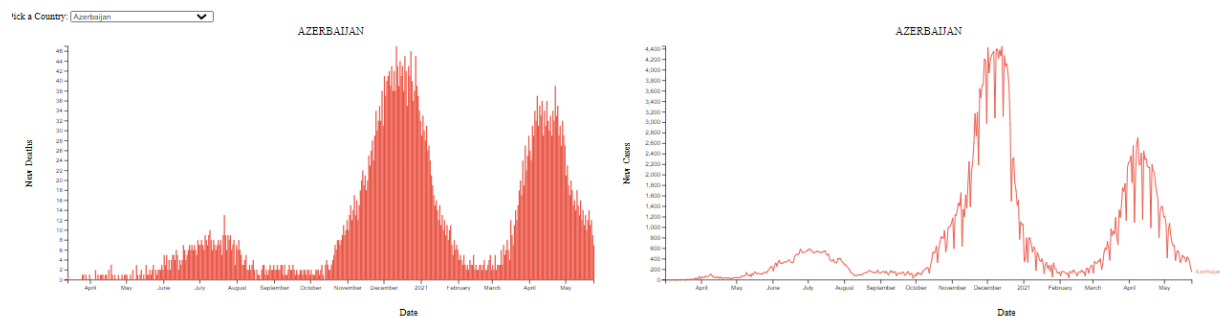
As you can see from the picture, it is easy to observe the covid trend. It looks like Azerbaijan had 3 covid waves till now.

I used choropleth map to let viewers see how well their countries manage the covid compared to other countries. The redder means the government is unable to control covid. Here is one example. I chose the date the latest.
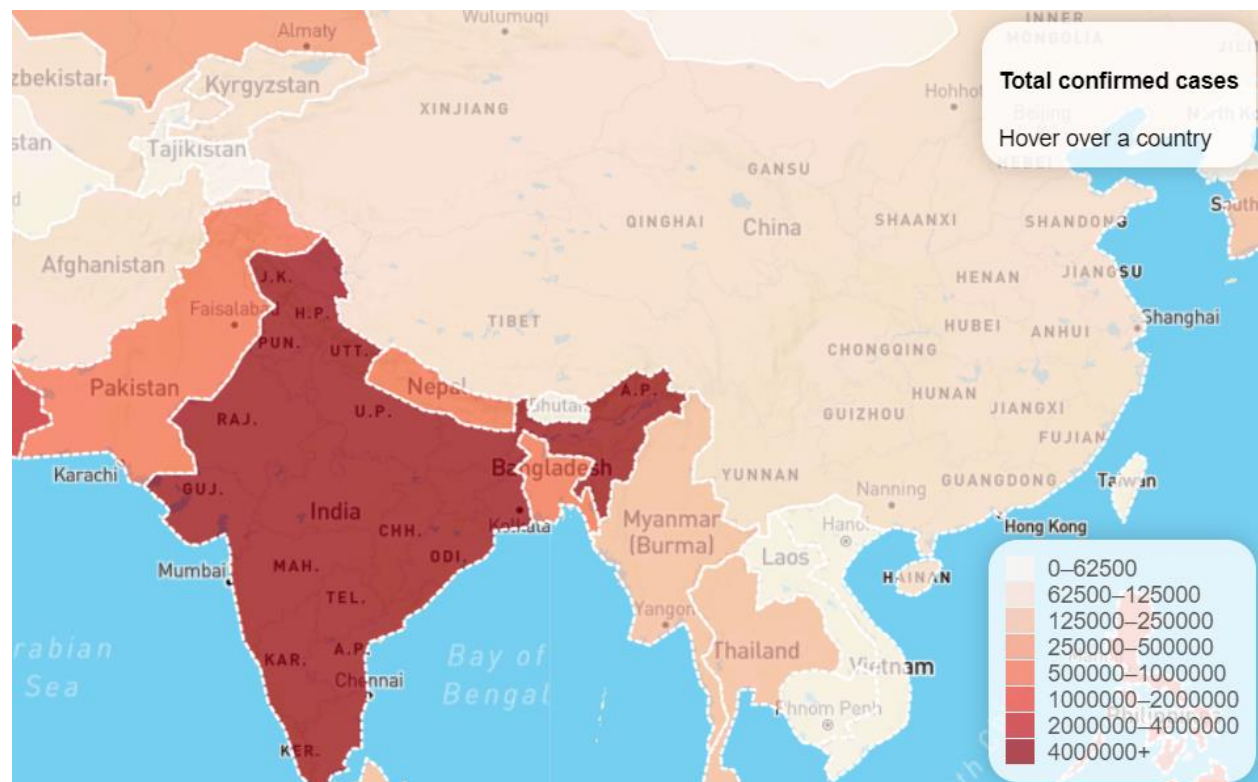
As you can see from the map, it looks like India has a serious problem about covid compared to its neighbor countries in terms of total confirmed cases. It

implies that the government of India could not control the covid better than any neighbor countries around.

As you noticed, I chose the red color for both deaths and choropleth map to alarm the viewers about their countries' current situation about covid. My website does not require a software to be installed, but I used leaflet, d3.js, jQuery JavaScript libraries to make this website.