# H517 Visualization Design, Analysis, & Evaluation

Project-1

Name: Siva Rahul Gupta Chebolu

Design Process:

After seeing the data sets, I understood that my visualization should contain a map and the graphs which gives me a visual understanding of the data sets. I should be able to see the number of deaths occurred on a particular day. And should be able to see the gender of the victim. My visualization should allow me to see any relations between the age groups and deaths, and gender and deaths. So, I thought my dashboard should look something like this.

Diagram, schematic

Description automatically generated

Rationale of my design choices:

* While drawing map lines, I thought the black color would suit the best and drew black lines.
* As green is considered as a good color, I used it to plot pumps which played a vital role in identifying highly affected areas on the map.
* Male and Female were distinguished with blue and red colors on the map respectively.
* While constructing the dashboard, I wanted to know how many deaths are occurring on a day and wanted to know their location on the map. So, I placed the bar chart having deaths plotted against dates next to the map.
* And the next important thing is to find which age group people are highly affected. For this I created a bar graph showing age groups versus the deaths.

Chart

Description automatically generated with medium confidence

From this bar graph, we came to know that the most number of deaths occurred on sept 1st and the locations of the victims can be found in the map.

Chart, histogram

Description automatically generated

If we observe this bar graph from 19th August to 29th September, as the days proceed the number of deaths has increased to certain number and then decreased. If we plot this as a smooth curve, we will get a curve like the below drawn curve. It depicts the severity of the disease has increased in the initial stage and then decreased.

Chart, sunburst chart

Description automatically generated

This pie chart shows that the age groups which were highly affected were the younger ones with less than 10 age and the older people with age greater than 80.

Chart

Description automatically generated

This graph has the distribution of deaths according to the age of the victim. We can also visualize the number of deaths occurred with respect to the gender in different age groups. So, this gives the information about which gender is highly affected in a certain age group.