

Design Process:

- How did you go about designing the visualization?

Initially I have taken help of the book Interactive Data Visualization for the Web written about d3.js visualization, I have also checked the some of the bar and simple line chart demos. Line chart looks more appealing for analysis of the data so I have chosen the multi-line chart so I can visualize the data pattern of separate line and I can also compare each line with another to get detailed idea about data.

- What are some of the initial designs / ideas you attempted in the beginning?

Initially I have tried to make a simple line chart and I thought to create a categorical x-axis which can shows some countries (top 10 countries from data-set) and date at y-axis so I can create the line for data for each country on x-axis by given date at y-scale.

Rationale of your design choices:

- I had a thought about analyse the covid deaths data using any chart and after some analysis I thought multi line chart would be best for this type of data
- So, I have chosen the date series as a X axis and created y axis with date count and create the line in between that data-points
- I also have added the zoom functionality to it the reason behind is that there are possibilities of line overlapping because of multi lines so it is difficult to track line at some point so for that I have added the zoom functionality to it so we can stretch the chart and track the relevant line
- I also added the line highlighting for better approach to analysis and focus on any single line from multi lines chart
- Also, I have used the ordinal scale with schemeCategory10 with the help of the book. So, it will be provided 10 unique colours which I can use for the different lines

Describe how you used your visualizations to discover facts or answer questions you had. Include evidence to support your findings as screenshots from the visualization.

- I had a thought like Italy should have the highest deaths as a Covid was on a pick there for a long time but after seen the chart I have realised unfortunately US has highest deaths in the world and I can also analyse when was the Covid pick started in US

Covid Deaths Timeline Chart

