

OTOT - Task A1 D3.js
NAVEEN KUMAR JAKUVA PREMKUMAR - A0212252X

Data Set 2 :

Title: Corona Virus Data Visualization

Dataset Name: coronavirus_dataset

Dataset Type: CSV

Data Source: [corona virus dataset in kaggle](#)

Dataset Description:

Column Name	Variable Type	Description
Province.State	Categorical	The province within the Country
Country.Region	Categorical	Name of the Country
Lat	Numerical	Latitude points in Geo Coordinates
Long	Numerical	Longitude points in Geo Coordinates
date	Ordinal	Date ranging from 22nd Jan to 16th March
cases	Numerical	Covid Cases count
type	Categorical	Three categories:- a) Confirmed cases b) Recovered cases c) Dead cases

Purpose of Visualization :

COVID 19 has a huge impact across the world. Economy, healthcare, IT industries and even the lifestyle of people have undergone a transition. These visualization helps us to understand the following:

- a) Which region or parts of the world has more COVID cases count, so that we can impose travel restrictions.
- b) Analyzing Trend in the covid cases count and take actions accordingly to ensure safety of the people.

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Visualization 1: World Map on COVID Cases Count between 22nd Jan 2020 and 16th March 2020

Queries Answered :

- a) Which country has the most Covid cases in the world?
- b) How many Confirmed/Recovered/Dead Covid cases a specific country has?

Insights Found:

- a) China has more Covid cases count.
- b) The European region has more impact on Covid.

Visualization Description:

Marks: **Points**

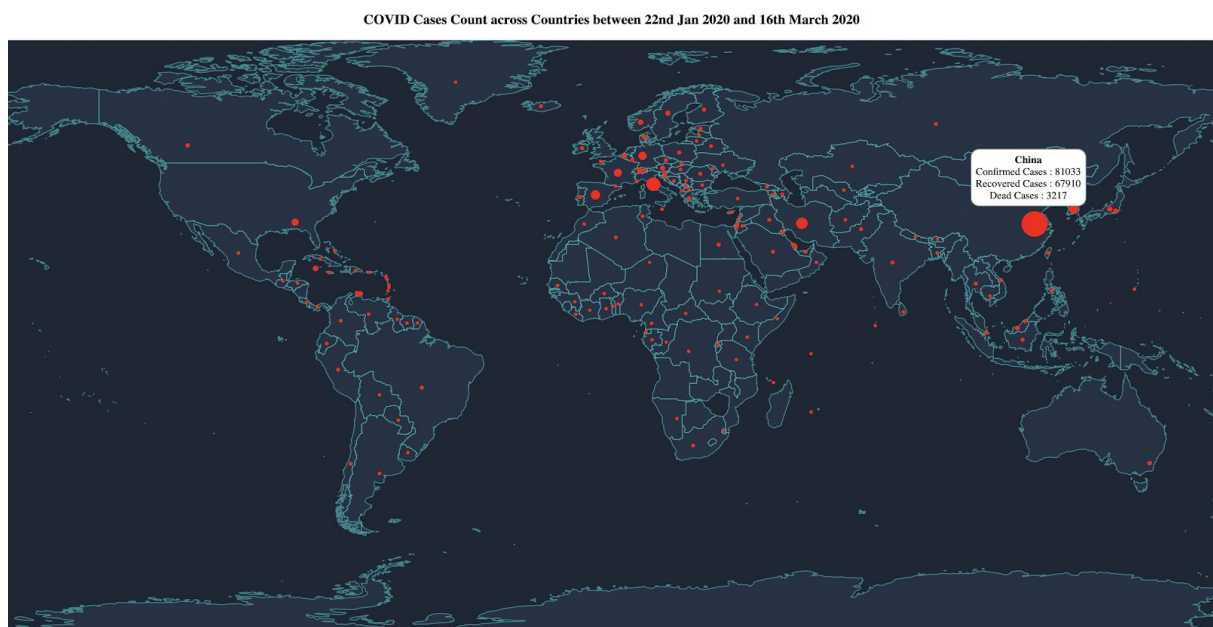
Channels: **Area, Horizontal Positions, and Vertical Positions**

Chart Type: **World Map**

- Categorical variable Country.Region is plotted in world map using numerical variables Lat and Long (Geo-coordinates).
- The area of the circle plotted on the world map depends on the number of Covid cases count (numerical variable).

Columns used: Country.Region, Lat, Long, cases, type

Hovering on each circle shows the Country name, Confirmed cases, Recovered cases and Dead cases count.



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Visualization 2: Confirmed COVID Cases Count across Countries between 22nd Jan 2020 and 16th March 2020

Queries Answered :

- a) Which country has more Covid cases count on a specific date?
- b) How many Confirmed Covid cases a specific country has on a specific date?

Insights Found:

- a) In early February more covid cases were found in China.
- b) In mid-March European countries had more covid cases count.

Marks: **Lines**

Channels: **Horizontal lengths and Vertical Positions**

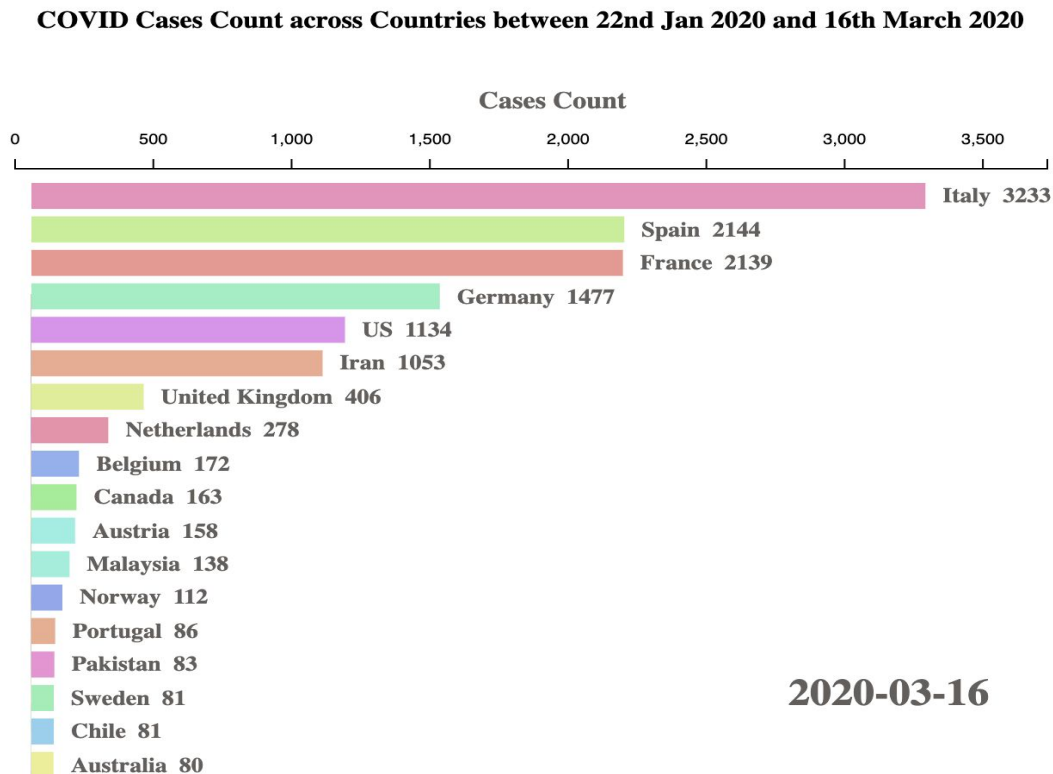
Chart Type: **Bar Chart Race**

X-Axis: Numerical variable Covid cases count

Y-axis: Categorical variable countries ranked based on more number of confirmed Covid cases count.

Columns used: Country.Region, cases, type, date

***(Color has been added to the chart just for the purpose of aesthetic sense)**



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Visualization 3: Trend in confirmed/recovered/dead COVID cases count between 22nd Jan 2020 and 16th March 2020

Queries Answered :

- a) Is there any trend in confirmed/recovered/dead cases count?
- b) How many confirmed/recovered/dead cases count on a specific date?

Insights Found:

- a) There is an increasing trend in the confirmed covid cases count.

Visualization Description:

Marks: **Points, Lines**

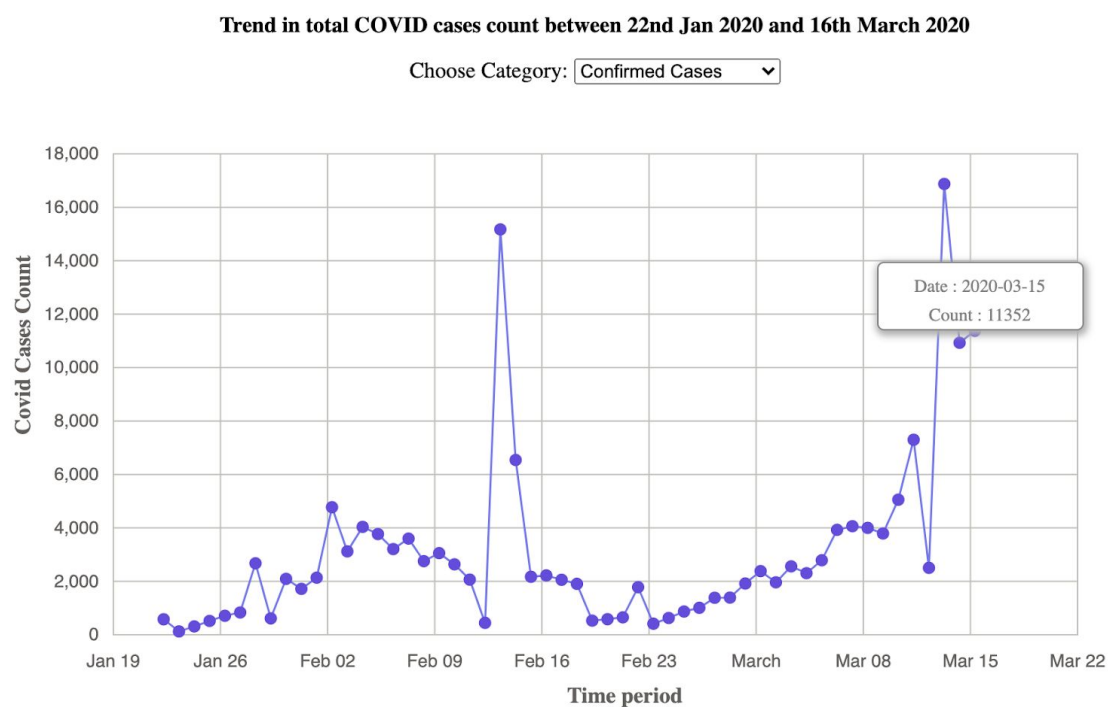
Channels: **Horizontal Positions, and Vertical Positions**

Chart Type: **Line Chart**

- Ordinal variable date on X-axis
- Numerical variable covid cases count on Y-axis

Columns used: cases, type, date

Can switch between Confirmed/Recovered/Dead category
Hovering on dots shows the exact count of covid cases on a specific date



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Visualization 4: Confirmed, Death, Recovered Cases Count for all Countries in the World.

Queries Answered:

- a) How many Confirmed/Recovered/Dead Covid cases a specific country has?

Visualization Description:

Marks: **Lines**

Channels: **Size (Hierarchical Data)**

Chart Type: **Radial Tree Chart**

- Numerical variable covid cases count.
- Categorical variable countries

Columns used: cases, type, Country.Region

Pinch or double tap to zoom and drag to move the Radial Tree.



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Steps To Run the Source code :

1) Start the http server inside the directory Covid / Crime.

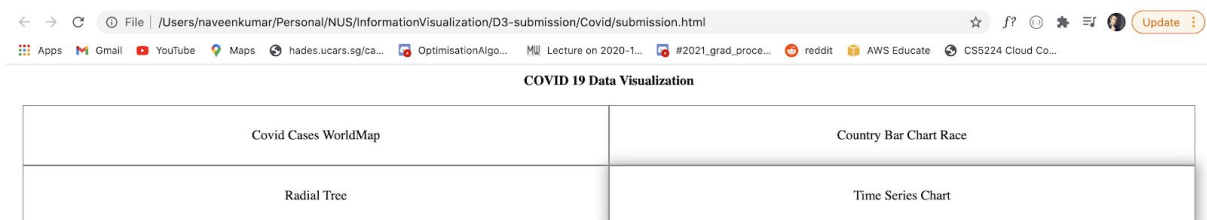
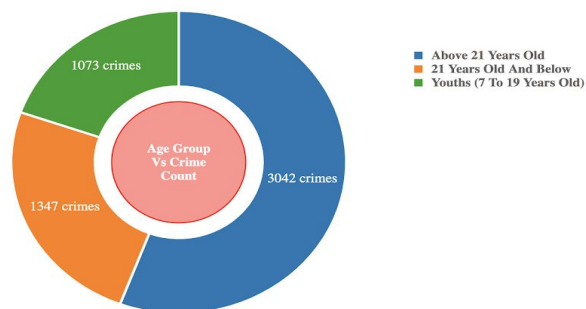
```
http-server --cors (port 8080)
```

2) Open submission.html file inside the directory Covid / Crime in the browser.



Age Group Vs Crime Count By Time Period Donut Chart

Choose Start Year: Choose End Year:



Trend in total COVID cases count between 22nd Jan 2020 and 16th March 2020

Choose Category:

