

Dataset

<https://www.kaggle.com/yamqwe/omicron-covid19-variant-daily-cases/discussion/302862>

About Data:

Location: Where the data was recorded

Date: When the data was recorded

Variant: The Variant of Covid

Num_Sequences: The cases of the variant recorded for that day and location

Perc_Sequence: The ratio calculated by $100 * \text{num_sequences} / \text{num_sequences_total}$

Num_Sequences_Total: Total number of cases for that day and location.

Findings(Based on the DataSet):

- Map Visualization
 - While the specific numbers for cases recorded is questionable, one finding when creating a visual on Tableau is that the United States had the highest number of cases with it being 2,420,758 cases.
 - The United Kingdom was second with 1,703,122 cases.
 - There is an overwhelming spike in cases for the United States and the United Kingdom compared to the rest of the world as their colors really stood out.
 - **WorldMapVisualization:**
https://public.tableau.com/views/DataVisualizationAssignment1Map/HeatMapofFrequency?:language=en-US&publish=yes&:display_count=n&:origin=viz_share_link
- PieChart and BubbleChart
 - The Delta Variant popped up the most in terms of data recorded with 3,834,100
 - The Alpha Variant had the second largest 1,132,595
 - There is an enormous range between variants as the larger cases go up to the millions while some smaller variants are merely in the thousands.
 - **PieChart:**
https://public.tableau.com/views/DataVisualizationAssignment1PieChart/PieChart?:language=en-US&:display_count=n&:origin=viz_share_link
 - **BubbleChart:**
https://public.tableau.com/views/DataVisualizationAssignment1_16431781676700/BubbleChart?:language=en-US&:display_count=n&:origin=viz_share_link

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Data Exploration through Tableau

- LineChart and TreeMap
 - From this LineChart and TreeMap I created, I noticed that through the years, the Covid record has had high spikes, in 2021 that was when there were generally more cases recorded as it slowly trends up.
 - However during the summer time the cases dramatically spiked down, only for it to rise up after August.
 - January 2022 was when there was a massive dip, probably because the dataset was created before the month ended.
 - The TreeMap shows a more discrete representation of the data as it more-so pinpoints the data instead of showing a continuous growth unlike the line chart.
 - **LineGraph:**
<https://public.tableau.com/app/profile/terence.lin/viz/DataVisualizationAssignment1LineGraph/Sheet5>
 - **TreeMap:**
<https://public.tableau.com/app/profile/terence.lin/viz/DataVisualizationAssignment1TreeMap/Sheet4>