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# DATA VISUALISATION

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Project



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## Introduction

In this project, I have chosen data visualisation for showing all the data converted from a spreadsheet to a web file using JavaScript to display the data on the graph. I had begun with the Drawing App which was difficult to get started. It started off with problems of extension tool which was not helpful to understand as other tools were getting tricky and stress on working. So, I decided to take the data visualisation which felt comfortable and understanding to use external resources. It was important to get information for making the code follow certain data that was is not easy to find online. I need something challenging as I took this project to improve my skills in data science. I am learning about data coding and face problems to learn from mistakes that can help me understand the tools that were needed to make data better to visualize.

## Plan

The information that I will be providing is the layout of the length of work time, working on the case and extending the ideas and improve on some provided code that was worked on for further development. Firstly, I had worked on the case study to learn how the data works with some help in understanding the spreadsheet table of data that is collected. So, this will be my first stage to get the preparation for the project and research on finding the data and make the coding work using the data scale to apply on the visualizer.

Secondly, the codes that were added were unknown to me so researching on p5.js and other websites was a way of getting inspiration to make data program interesting about ways to approach the project. The extension activity that shows more about codes being created to make it simple was getting ideas which makes it sense of using the further topic for making more data that was needed to produce.

## Making of the project

The project required to achieve the objective that was assigned to do systemically follow steps to get the project with ideas. I have used the constructor function for adding the extension and additional table that makes the data visualizer show multiple records collected and simplify into a chart. For the extension, the pie chart and line graph were worked on making the string of array from the CSV file being displayed on the chart.

During this process, I was working on making data on the total vaccination dose given to the world record in a file. Although the file had to be mentioned and using a for loop that goes through the array of saved records from the string value of rows that will display to run the program. Whereas the use of coding techniques was constructor function, call back function, for loop, etc.

In the Bar chart, the program needs a canvas tag for displaying the data with tags as ID that follows the scripts, given that certain data were used for making the code with complex ways of implement multiple tools given to have interactive statistics showing when it is hover-over to give more detail about the data.

## Challenges

I had problems during the making of this project when the program had to follow the correct data that was imported from the excel CSV file. The data was needed to be edited that is suitable for the project because the information that was been recorded by sources has tailored raw data. The data was not going to work unless it is being polished to make it work on the program when the function calls the data to create a chart that is being coded, as this was not easy when making the number of iterations in a for loop calculated to follow the data.

In the program, creating the COVID vaccine data certain parts of codes was not sure with the conversation for the degree to radian and understand that the map image is a sphere and making flat was to get this longitude and latitude of the correct value was necessary to convert when Web Mercator using the formula. The formula was complex to understand to get the geographic location changes although the function writes the x-axis and y-axis of the map that can display the data from the file loaded.

## What would I do next time?

I would spend more time gather data and make it and use zoom and developing on a 3-dimensional chart that shows the data more different aspects in terms of style to look at something that has all the points of tools that can be produced and detailed to understand the statistics. I would improve on the existing data which can be customized with colours and animation.

The project was a different and unique experience with all the objectives that had issues that can be improved and creating more visualizing data. In the Bar chart, I would spend more time making advance and complex that implement the use of challenging code that follows an array of data that gives a forecast of data. Data visualization could be evaluated average and targeting more sets of ideas and tools that are functional onto this project could be achieving good marks, but this could be further improvement later in the future.

## Logs

In this project managing the time, data, and objectives of completing the work. These records are to show the work I spent is shown below in a table.

Research and Planning	1 <sup>st</sup> week
Collecting data and work on the extension	2 <sup>nd</sup> week
Making the project	2 <sup>nd</sup> week to 3 <sup>rd</sup> week
Report	2-3 days

Finally, the project has come to an end, given all the data and code files the reference is mentioned in the code about how I got the data records from online and ideas of data visualisation application.