**Week 9 Submission**

**Project Details**

Idea

* Exploring the importance of mental health and the need to raise awareness for it due to its significant impact on our lives
* Raising awareness 🡪 reduces stigma 🡪 more people willing to seek help 🡪 more likely to get better

Datasets used

* suicide\_total\_deaths.xlsx from Gapminder (<https://www.gapminder.org/data/> > Health > Mental Health > Suicide, total deaths
* Annual number of unique Singapore residents aged 30 years and below who sought care in a public or private healthcare institution for a psychiatric condition between 2013 and 2019 (<https://www.moh.gov.sg/news-highlights/details/breakdown-of-data-on-number-of-patients-with-mental-illness-or-psychiatric-issues-in-private-and-public-health-institutions-by-age-range/>)

**Storyboard**

Problem

* Mental health is not talked about enough
* There is still stigma surrounding mental health issues, and people generally find it difficult to speak up about their personal experiences

Statement 🡪 Question

* How can we share the importance of mental health and raise awareness for it in the process?

Data

* Gapminder data on total deaths by self-inflicted injuries in various countries (under mental health) 🡪 This highlights how mental health can bring about dire consequences when neglected
* Data showing an increasing trend in the number of people seeking help for their mental health issues 🡪 Shows how raising awareness can encourage people to seek help and get better 🡪 This data also corresponds with the decreasing trend in suicide rates being correlated to more people seeking help over the years

Visualise

* Bar chart
* Line chart

**Project Document**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Week | Concept | How I’ve used it | Line number | Filename |
| 2 | Adding links and images/tables to a webpage | I plan to add an interactive button which would link to a website with hotlines for mental health support | 73 | finalProject.html |
| 3 | Declaring and assigning values to variables + math and functions | I plan to calculate the rate of increase in the number of people who sought help for their mental health issues in Singapore | 115 | finalProject.js |
| 4 | getElementbyId() (functions, objects, and the Document Object Model) | I plan to add a function which triggers a window alert when the user clicks on the interactive “Click me!” button in line 221 of finalProject.html | 116 | finalProject.js |
| 5 | JavaScript, HTML, and the Document Object Model; event listeners | I plan to add a click counter which counts the number of times users click on the “Click me!” button in line 221 of finalProject.html | 117 | finalProject.js |
| 6 | Data structures (collections and arrays) and loops | I used arrays when I typed in my data points into the datasets in finalProject.js | 42 | finalProject.js |
| 7 | Creating bar chart and importing data | I imported data from the excel sheet (suicide\_total\_deaths.xlsx) into finalProject.js | 37-73 | finalProject.js |
| 8 | Filtering data | I filtered data in the excel sheet (suicide\_total\_deaths.xlsx) | Sheet titled “filtered” | resources > suicide\_total\_deaths.xlsx |

**Week 10 Diary Entry**

What is your project about?

* Exploring the importance of mental health and the need to raise awareness for it due to its significant impact on our lives
* Raising awareness 🡪 reduces stigma 🡪 more people willing to seek help 🡪 more likely to get better

What is the data you plan to use?

* suicide\_total\_deaths.xlsx from Gapminder (<https://www.gapminder.org/data/> > Health > Mental Health > Suicide, total deaths
* Annual number of unique Singapore residents aged 30 years and below who sought care in a public or private healthcare institution for a psychiatric condition between 2013 and 2019 (<https://www.moh.gov.sg/news-highlights/details/breakdown-of-data-on-number-of-patients-with-mental-illness-or-psychiatric-issues-in-private-and-public-health-institutions-by-age-range/>)

What is the question you plan to answer?

* Why should we care about mental health?

Why is this an important question?

* According to a 2018 mental health survey conducted by the Institute of Mental Health (IMH), approximately 14% of Singaporeans have experienced some form of mental health condition in their lifetime, up from 12% in 2010. Despite this, majority of these people do not seek any form of help for their mental health conditions and those who do tend to do so after a significant delay after the occurrence of the condition.
* According to World Health Organisation, over 450 million persons were reported to suffer from mental or neurological disorders in Asia in 2001. This number has since increased.
* World Health Organization (WHO) predicted that by 2030, mental disorders will account for 13% of the total global burden of diseases.

Which rows and columns of the dataset do you plan to use, to answer this question?

* Rows I plan to use: Indonesia, Japan, South Korea, Singapore, Taiwan (I decided to focus on 5 counties in Asia)
* Columns I plan to use: 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019 (I selected the 10 most recent years of available data)

**Week 11 Diary Entry**

I used JS to calculate the rate of increase in the number of people who sought help for their mental health issues in Singapore. I let the number of people who sought help in 2019 be x, and the number of people in 2013 be y. I subtracted y from x, and let this value be “difference.” Next, I assigned “difference” to be the value of a new variable “result.” Lastly, I let the variable “finalResult” take on the value of “result” divided by 7 (the total number of years the data spans across).

The final value initially had many decimal points which I didn’t want, so I had to limit the number of decimals using .toFixed(). I got this from w3schools.

I used document.getElementById().innerHTML to allow the value to show on my webpage.

This part was relatively straightforward, so I didn’t face too many issues while doing it. I also referred to previous tutorials to get a clearer idea of how to do calculations in JS.

**Week 12 Diary Entry**

I added a window alert function for my “Click me!” button in my html code. This was relatively simple to do, and I cross-checked my code with what was available on w3schools.

I also tried to add a click counter function for the same button, but it didn’t work. There also wasn’t any error showing up on the webpage’s developer tools.

I later realised that we could only input one function to each button. Hence, I decided to make another button to input the click counter function.