# **Week 10 Diary**

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| **Questions** |
| 1. **What is your project about?** (A 1-2 word answer that describes your main focus, e.g., climate change)   Excessive Gaming |
| 1. **What is the data you plan to use?** (A link to the dataset with one sentence describing it)   <https://osf.io/vnbxk/>  This dataset is a survey of more than 13000 gamers on their hours of gaming and their performance on certain aspects of psychological wellbeing.  *Note: I had to clean and filter the dataset, so I will be using my local csv copy. Current link after hosting on server:* <https://2207-resources.s3.ap-southeast-1.amazonaws.com/GamingStudyData1.csv> |
| 1. **What is the question you plan to answer?** (One sentence that ends with a question mark that could act like the title of your data story)   Would excessive gaming result in lower life satisfaction in youths? |
| 1. **Why is this an important question?** (Three sentences, each of which has some evidence, e.g., “According to the United Nations…” to justify why the question you have chosen is important   According to Harvard Health, playing too many games can be negative for gamers, resulting in effects like diminished physical or psychological health (Grinspoon, 2020). However, Grinspoon also mentions that potential benefits were found in some studies. This contradiction in results prompted me to do a more focused analysis of just gaming hours and life satisfaction to get specific answers. |
| 1. **Which rows and columns of the dataset do you plan to use, to answer this question?** (Actual names of the values you plan to filter (rows) or subset (columns) the data on)   Hours, Gender, Age, Reference, Residence, Region, GAD\_T, SWL\_T, SPIN\_T  Region was not included in the dataset, but I manually assigned the regions based on the participants’ response for “residence” with INDEX and MATCH excel formulas (Look up values in a list of data, n.d.).  I am only planning to discuss life satisfaction results (SWL), but I kept the General Anxiety Disorder (GAD) and Social Phobia Inventory (SPIN) columns, just in case I need to do additional analyses.  I have filtered participants from ages 18 – 24, since according to the United Nations, youths are of age 15-24. Also, I zoomed in on just the game “League of Legends”, since it is one of the more popular games that more people play. I have also removed NA/Unknown results from the participants, and gaming hours which are too unrealistic (>112hours = >16 hours a day). |

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| **Progress** | | | | |
| **Week** | **Concept** | **How I've used it** | **Line number** | **Filename** |
| 5 | Colour gradient | Made my background colour a gradient from dark blue to light blue (CSS gradients, n.d.) | 22 | CSS |
| - | Doughnut chart | Created doughnut charts (da Rocha, 2019) | 164-216 | JS |
| - | Hide scrollbars | Hid y-scrollbar but kept its functionality (How to – Hide scrollbar, n.d.) | 2-7 | CSS |
| - | Pie chart | Created a pie chart (da Rocha, 2019) | 210-265 | JS |
| 5 | Plotly Map Graph | Created a map graph. Mixed the code from Week 5 class as well as from online (robinson projection) to get my desired graph. (Choropleth maps in Javascript, n.d.) Map skeleton created, but data not added yet. Problems stated in error section. | 304-325 | JS |
| - | Toggle button with chart update() | Switched between “Gender” view and “Recruitment Platform” view (da Rocha, 2019) | 218-246 | JS |
|  | Bar graph | Created a bar graph to show the number of participants by age | 248-302 | JS |
| 9 | Fetch API + slicing | Imported dataset through fetch and put them into table, then sliced to get individual variables | 6-29 | JS |
| - | Smooth Scroll | Created smooth scrolling between sections (Chowdhury, 2020) | 10 | CSS |
| - | Scatterplot | Created scatterplot with data. (How to create a chart.js scatter chart with data from two lists, 2017) | 327-371 | JS |
| 5 | Event Listener | Reworked the event listener code that I added from previous weeks / added new event listener codes | 64-89 | JS |
| **Other minor edits:** | | | | |
| 1. Split sections of certain parts 2. Added more text 3. Changed colour scheme | | | | |
| **Future plans:** | | | | |
| 1. IMPT for my website visuals!! 🡪 Create animated scroll such that the elements only appear after scrolling down (from the first bar graph section onwards) 2. Change the scatterplot visuals (colour especially) 🡪 currently having some trouble with this | | | | |

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| **Error Documentation** | | |
| **Error** | **Screenshots of Error** | **Screenshots of solution code** |
| I was unable to get my section divs to be filled fully so the content wasn’t properly centered, although I already used flex to center it. |  | margin-top:0;     margin-left:0;  Not sure if this is a legitimate way of solving the issue, but I did manage to make my divs cover the page fully so this works!  (Note: I removed all divs’ background-colors and used the main body background-color so if you want to check if this worked, you’d have to put another color for the div) |
| I was unable to get the smooth scrolling effect when clicking on buttons to change sections even after putting it under body |  | I put it under html instead and it worked |
| Unable to detect mouseover for class of buttons. | I then edited the code to add buttons[i] but I still can’t solve it. | Still working on it…. |
| Not an error, but a challenge that I’m facing: Not sure how to slice my data to populate my chart. | This is what I’ve done so far, but I’m not sure how to get the averages of the data per country to do my map graph, as well as split the individual data by regions so that I can get a scatterplot for each region. | Need to check with tutor during Session 11 tutorial |

# **References**

Choropleth maps in Javascript. (n.d.). <https://plotly.com/javascript/choropleth-maps/>

Chowdhury, F. K. [Tech2 etc]. (2020, November 5). Pure CSS smooth scrolling animation with just 1 line of code [Video]. YouTube. <https://www.youtube.com/watch?v=u4O2GKjgMlg>

CSS Gradients. (n.d.). <https://www.w3schools.com/css/css3_gradients.asp>

Grinspoon, P. (2020). The health effects of too much gaming. <https://www.health.harvard.edu/blog/the-health-effects-of-too-much-gaming-2020122221645>

Look up values in a list of data. (n.d.). <https://support.microsoft.com/en-us/office/look-up-values-in-a-list-of-data-c249efc5-5847-4329-bfee-ecffead5ef88>

da Rocha, H. (2019). Learn Chart.Js. Packt Publishing. <https://www.perlego.com/book/921361/learn-chartjs-create-interactive-visualizations-for-the-web-with-chartjs-2-pdf>.

How to create a chart.js scatter chart with data from two lists. (2017). <https://stackoverflow.com/questions/47244939/how-to-create-a-chart-js-scatter-chart-with-data-from-two-lists>

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