Weekly Journal (Week 12)

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| Week | Concept | How I've used it | Line number | Filename |
| 1 | Course Introduction: Environment setup | - | - | - |
| 2 | Intro to HTML and CSS | I have used it to edit the template I have downloaded from the internet (<https://html5up.net/>) .  I have used it to create more “articles”, “bodies” and headings.  I had to create additional container boxes for additional content for the timeline and “status of languages in Singapore”. | index.html | index.html  appscripts  css  images |
| 3 | Variables, conditionals, and functions | I am intending to use it to create buttons on the website but intend to do so when most of my charts have appeared in my website.  The buttons on the website now are not made by me, they came along with the website.  I am also using variables to define my variables in my charts, such as ‘years’, ‘english’.  For functions, I use it to create charts, such as in “myChart”, “piechart”. | Main.js.1  Main.js.35  Index.html.16  Main.hs.61  Main.js.69  Main.js.70  Main.js.71  Main.js.72  Main.js.73  Main.js.74  Main.js.75  Main.js.27  Main.js.61  Main.js.77 | Main.js |
| 4 | Functions, Objects, and the Document Object Model | I am intending to use it for my interactive map and charts. I have also used functions for my charts. Objects also were used, like ‘labels’ all that, as an array. | Main.js.1  Main.js.27  Main.js.35  Main.js.61 | Main.js |
| 5 | Javascript, HTML, and the Document Object Model | I have used JavaScript to create my charts. I created the charts on a separate html css and appscripts initially and transferred them over. However, I met with some difficulties and asked for help in slack. Luckily, it was resolved as I just needed to add the defer line. | Index.html.16  Main.js.27  Main.hs.61  Main.js.69  Main.js.77 | Index.html  Main.js |
| 6 | Data Structures (Collections, and Arrays) and Loops | I have used arrays to input data of percentages of languages used at homes, and throughout the years. | Main.js.12  Main.js.46  Main.js.69  Main.js.70  Main.js.71  Main.js.72  Main.js.73  Main.js.74  Main.js.75 |  |
| 7 | Common Chartjs elements and customisation | I have used it to create two pie charts with regards to distribution of languages spoken at home.  I have used this to create a line graph to visually demonstrate the changes in the use of languages from 1957 to 2020. | Main.js.27  Main.js.61  Main.js.69  Main.js.77 | Main.js |
| 8 | Preparing and Visualising Data, Meaningful Comparisons; and Questions | I will use this for my graphs, showing the changes in language use. I will see the trends of language use over the years and see if I will use line graphs to represent them. | (for all the charts and maps) | Index.html  Main.js  Map.js |
| 9 | The Fetch API; Storyboards; More fun with more Charts | I have used this knowledge to create charts in my final project. |  |  |
| 10 | Charts with multiple datasets, Dashboards; Effective visualisations | - | - | - |
| 11 | Charts and events; Incorporating events with the Fetch API | - | - | - |
| 12 | Animated charts in d3 | I am attempting the make use of the map function to create my own map for a different purpose. I have found a choropleth map that I may be able to make use of: <https://gistechadventurer.com/2021/11/creating-a-choropleth-map-in-leaflet-with-geojson/>  The map has divided Singapore into different planning areas (town areas). I wish to highlight certain areas that used to be ethnic enclaves where one language was the most dominant in the area. | Index.html.146 – 150  Map.js | Index.html  Map.js |

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| Step 1: Problem  We need to find out Singapore’s languages over the years and changes over the years. | Step 2: Statement 🡪 Question  The changes in languages in Singapore - How it reflects Singapore's demographic change? |
| Step 3: Find Data  data will be found in the sites listed above | Step 4: Visualise    Changes in home language use over time in per cent (based on Wong 2010,...  | Download Scientific Diagram |