Weekly Diary Entries

Week 9

After exploring many different topics and finding available datasets, I finally decided on a topic that is interesting, feasible and relatable! I decided on something closer to home, and intriguing for people of my generation. It's also a question that I have been thinking about for the longest time...

"Would I be able to own a house in Singapore after I graduate?"

"Is there enough space left for me in Singapore?"

I also chose this topic because of the abundance of data surrounding it that I may use for my investigation and analysis of the question. A lot of population data is available on SingStat, plus I can use other housing and job data which would be useful as well.

I decided to name my project SPACE since the central theme of my data story surrounds spatial availability/scarcity.

When storyboarding, I only managed to come up with answering the first 3 parts:



Week, 10

What is your project about? Spatial availability in Singapore

What is the data you plan to use? A data set with population indicators, housing, and job availabilities. Here's a link to the full data set: <u>dataset_space.xlsx</u>

What is the question you plan to answer? "How much space is there left in Singapore?" It aims to investigate whether Singapore can continue to accommodate the growth rate of its population in years to come.

Why is this an important question? According to World Data.info, the population of Singapore had grown from 1.65 million in 1960 to 5.45 million in 2021. As one of the smallest countries in the world with a land area of 728km², we are also one of the most densely populated countries with approximately 8000 people per square kilometre. With this overarching threat of overcrowding and overpopulation, Singapore still encourages a high influx of immigrants. Therefore, can Singapore really ensure that quality of life is not sacrificed as the population keeps growing?

Which rows and columns of the dataset do you plan to use, to answer this question? I plan to use the most recent available data from 2000 - 2022. I acknowledge that there will be anomalies in my

dataset between 2020 and 2021 due to the impact of the Covid-19 pandemic which left a significant effect on the general trends seen.

- 1. Total Population, Resident Population, Citizen Population, PR Population and Non-PR Population over the years 2000 2022.
- 2. Residents 65 years old and above, Youths aged 0-19 years old, from 2000 2022.
- 3. Total Fertility Rate (Per Female), Total Deaths (Number) from 2000 2022.
- 4. Total Marriages (Number), Total Divorces and Annulments (Number), from 2000 2021.
- 5. Resident Households by Type of Dwelling, from 2000 2022.
- 6. Total Employment Level by Industry, from 2016 2022.
- 7. Annual Average Job Vacancy, from 2012 2022.

Week 11

Week 12

SPACE is a data story on the analysis of population growth in Singapore, against a backdrop of scarcity – with limited land, housing, and jobs. It aims to answer the questions: How feasible is it to expect to own a house in Singapore? Can Singapore continue to accommodate the growth rate of its population? Will there be any space left for us, new adults?

concepts & Challenges

encountered while making the data story; documentation of coding

Used CSS styling to create the general look of my page	(see/css/appstyle.css)
Created variables for my functions	(main.js:5)
Created a nav bar but found it hard to access it as I had to scroll all	(main.js:12)
the way up/down to click on it. Therefore, used JS functions to make a	
sticky navigation bar, with the 'ifelse' statement	
Created buttons for users to toggle intuitively	(index.html:50)
Used DOM, and "getElementByld", and event listeners to change the	(main.js:21-41)
graph shown when button is clicked	
Used <div> tag to separate content and organize it</div>	(see index.html)
Used tag to create a list for my navigation bar	(index.html:22)
Used to embed images and charts into my page	(index.html:38,54)
Used different <h1> and <h2> tags to organize the header titles on</h2></h1>	(see index.html)
my page	
There was underlines on my nav bar menu items as they were links.	
Therefore, used CSS and changed text-decoration to "none" so that it	
would not appear to have been clicked before.	
Created classes for different components on my page and gave them	(appstyle.css:68,83)
special attributes in CSS. For e.g. mouse hover on navigation bar will	
make words pop bigger	