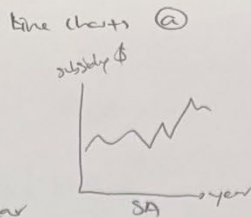
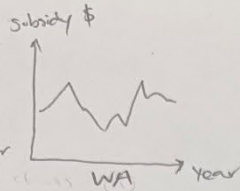
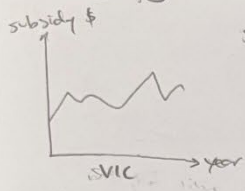
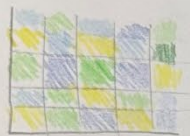
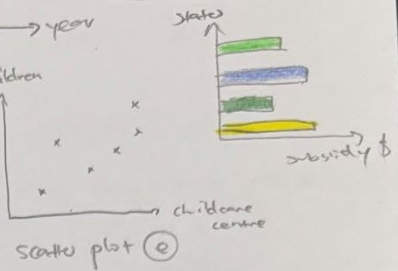
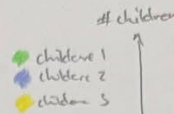
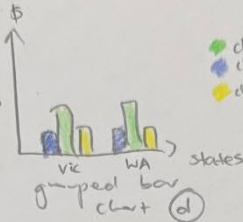
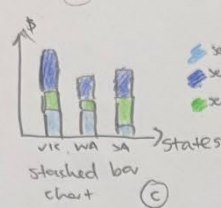
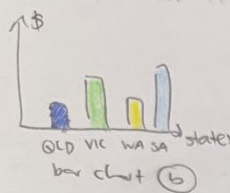


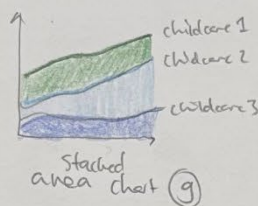
IDEAS:



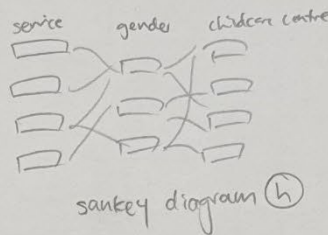
Title: Brainstorm
Author: Yating Li
Date: 20/9/2025
Sheet: Number 1



heat map (f)



stacked area chart (g)



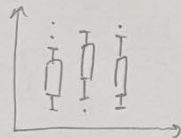
sankey diagram (h)



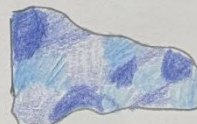
pie chart (i)



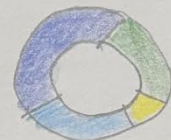
Australia map (j)
Chloropleth



box + whisker plot (k)



Victoria map (l)



donut chart (m)

FILTER:

- Could combine the line charts (a) so there's multiple in one chart.
- Sankey diagram (h) might be a bit too messy/complicated for dashboard
- box-whisker plot might not be applicable for this dataset. other charts potentially more suitable

CATEGORISE:

- Distribution of age/gender
 - pie/donut chart (i), (m)
- Childcare services data
 - heatmap (f)
 - bar charts (b), (c), (d)
 - line chart (a)
- Distribution of childcare centres
 - chloropleth map (j)
 - vic map (l)

QUESTIONS:

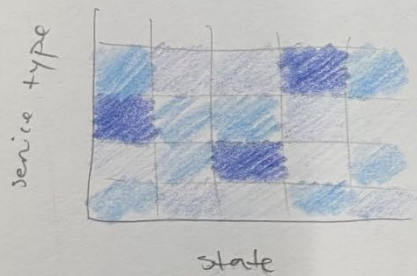
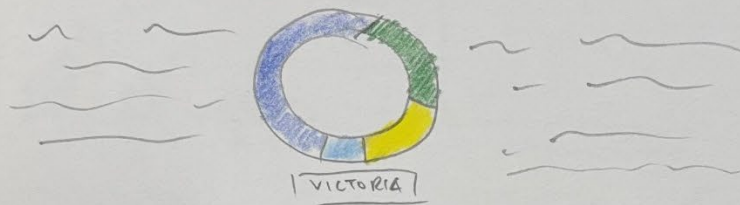
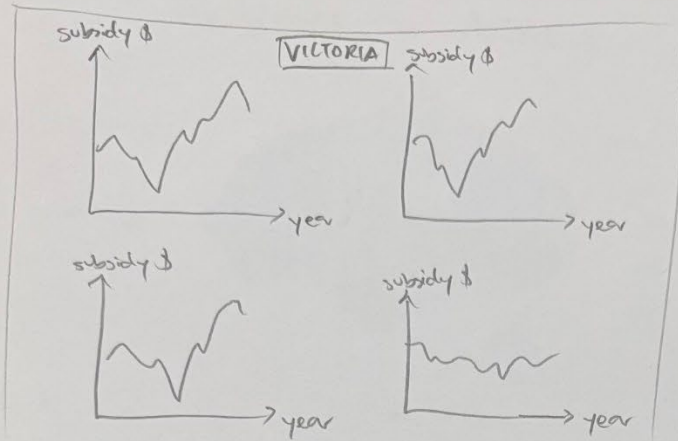
- is sankey diagram too confusing to understand?
- is a scatter plot too simple?
- do I need a world map?

COMBINE + REFINE:

- can choose between one of b, c and d. or could do all of them for different categories/data
- stacked area chart (g) not sure if applicable for my datasets but could be potential option. For now maybe not.
- pick between (i) and (m) as they are basically the same.
- could expand each Australian (j) state of and show cities of each state?

LAYOUT

Childcare in Australia



Title: Storytelling
 Author: Yating Li
 Date: 29/9/2025
 Sheet: 2

OPERATIONS:

1. Dropdown menu:
 - click*
 - VICTORIA
 - QUEENSLAND
 - WEST AUSTRALIA
 - SOUTH AUSTRALIA

can click and change based on state in Australia. Line charts and donut chart
2. Tooltip
 - hover and tells specific details of each heatmap section

DISCUSSION:

PROS:

- clear layout and easy for users to follow along
- well segmented

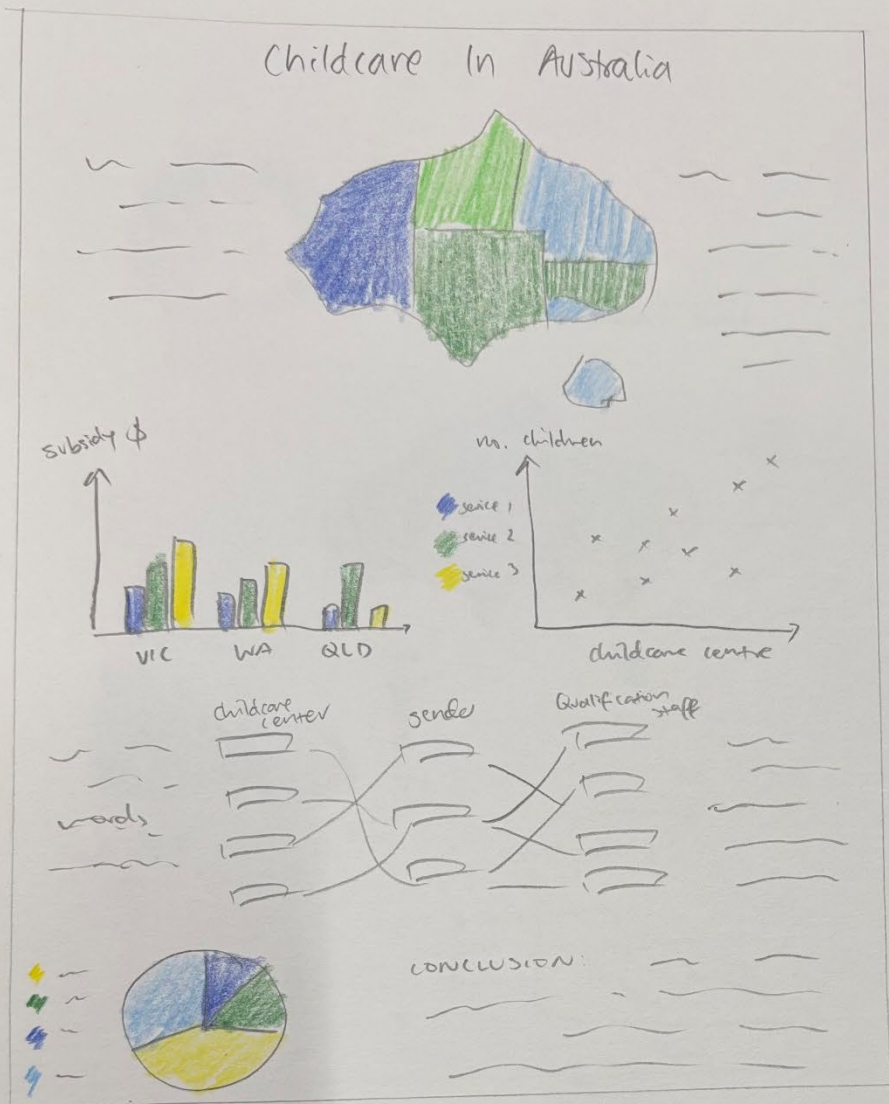
CONS:

- bottom section a bit heavy without much analysis written space
- different scales need to be labelled well to avoid confusion.

FOCUS:

- The combination of visualisations first start with highlighting the subsidy difference per state in Australia with easy to interpret line charts.
- then a donut chart tells data of childcare centres' service type distribution of workers in different states in Australia
- This leads to the heatmap going more in depth and the Australian map to tie everything together

LAYOUT:



Title: Partitioned
Poster
Author: Yating Li
Date: 30/9/2025
Sheet: 3

OPERATIONS:

→ Tooltips:

↳ hover to get specific details on map and specific numbers on charts

→ Click to expand pie chart



will show composition of age group or state

DISCUSSION:

PROS:

- Lots of details and various charts
- each section is able to convey its data it is showing clearly

CONS:

- could be a bit too cluttered
- change colours users could get confused especially with Sankey diagram

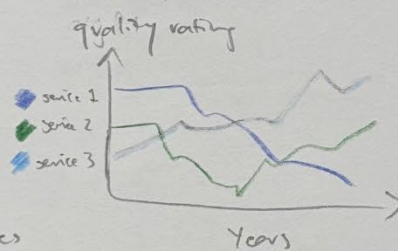
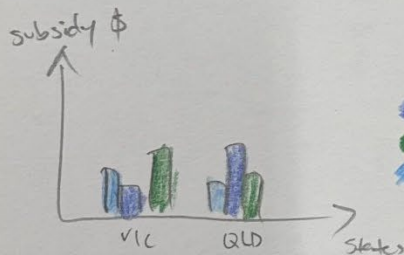
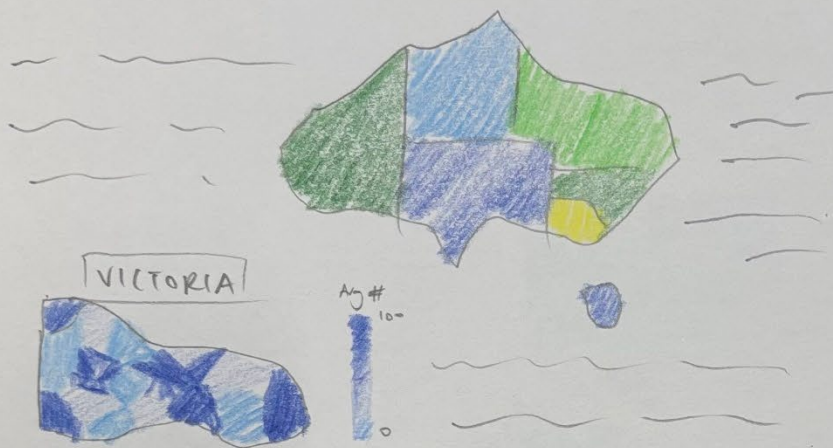
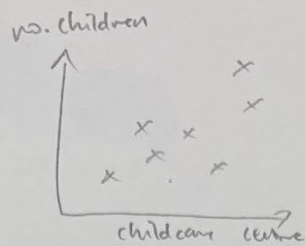
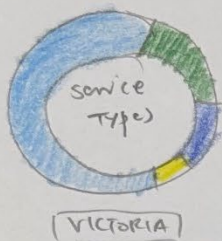
FOCUS:

4 sections that help tell the story:

- ↳ First section gives overview of all childcare centers or just general overview of centers in Australia and introduces the topic
- ↳ Next part dives into the costs and demand of childcare centers
- ↳ Then we get to see into each childcare center's staff and qualifications
- ↳ Finally, with a simple pie chart show ^{total} amount of children / families using the services and conclude.

LAYOUT:

Childcare in Australia



Title: storytelling

Author: Yating Li

Date: 31/9/2025

Sheet: 4

OPERATIONS:

Drop-down menu:

↳ switches the which 'state map' is shown

↳ switches state data for donut chart

Tooltip

↳ hover to get more specific details of each state on Australia map, donut chart, bar chart and line charts

DISCUSSION:

PROS:

↳ 2 maps can go in depth per state

↳ clear layout

↳ utilises various charts

CONS:

↳ used the specific state map be necessary

↳ users could get confused with the two maps and colours

FOCUS:

Storytelling dashboard begins with simple charts. Donut chart tells different service types each childcare offers in each state and the scatterplot reveals the demand for each center.

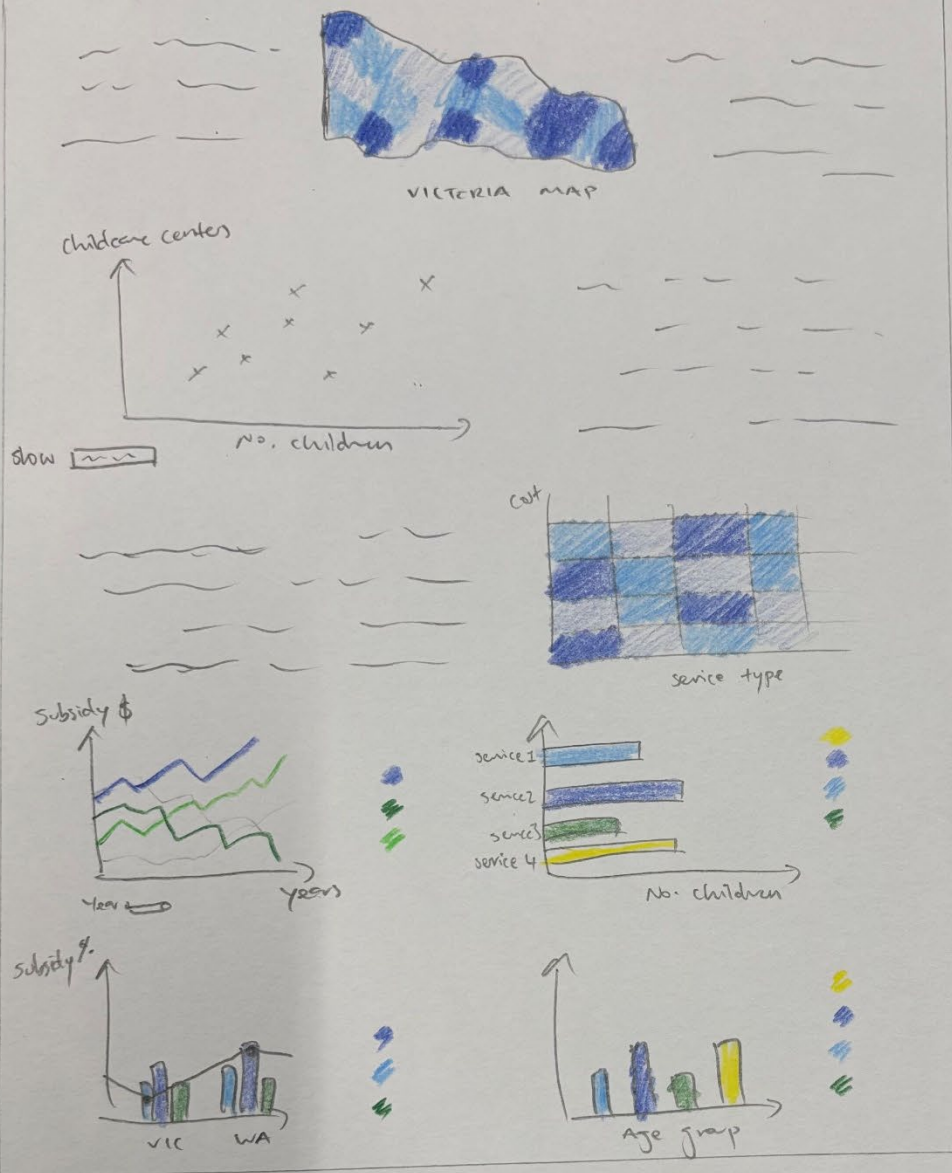
↳ Then move onto the choropleth map comparing avg fees spread across Australian states.

→ specific state map shows each cities' avg fees

↳ last 2 graphs focuses on the funding and quality of each childcare service. Revealing Australia's need to improve or already good focus on childcare

LAYOUT:

Childcare in Australia



Title: Final Design

Author: Yating Li

Date: 1/9/2025

Sheet: 5

OPERATIONS:

↳ Drop-down menu
- shows different childcare services
- different states

↳ Slider

- changes the year on the line graph to reveal time data

↳ Tooltip

- have to get specific details on all charts and maps

DETAILS:

↳ Dependencies:

VS Code → python and vega-lite

html and css code excel

Specific Requirements:

↳ ensure visualisation is clear on screen and not cramped

↳ ensure map has gridlines / layer

↳ Estimated time and effort:

8 days to build all idiom and 2 days for final design and layout.

↳ 3 days data research and potential cleaning

↳ 1 day for bar charts and line charts

↳ 1 day for heatmap + scatter plot

→ 3 days for map

FOCUS:

- Storytelling dashboard where we begin in Victoria. Get an overview of childcare around Victoria and understanding of topic

- then go into detail about demand and need for services across Australia

- move onto the different service types for people to learn about and see their most costly states

- bottom half is able to dive into deeper data and understanding. Going into the specifics of each state's subsidy for childcare services, no. of children enrolling and the type of staff qualification level at each childcare center.