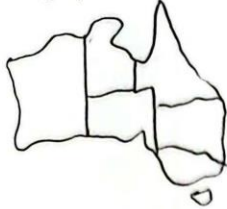


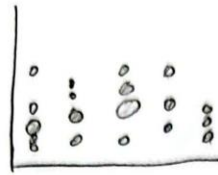
Sheet 1

1. Ideas

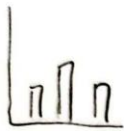
④ Geographic map



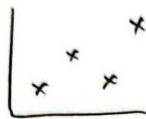
⑤ Bubble plot



③ Bar chart



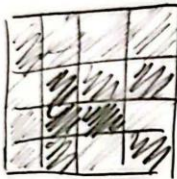
② Scatter plot



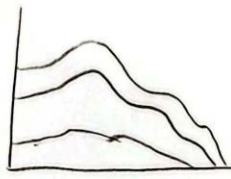
⑥ Grouped bar chart



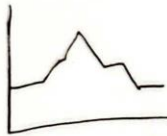
⑦ Heatmap



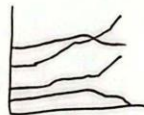
⑧ Stacked area chart



① Line chart



⑨ Stacked line chart



⑩ Pie chart



2. Filter

⑤ Line chart



A stacked line chart would be better due to the number of categories. Also better for identifying patterns and comparing.

② Scatter plot



A bubble plot would be better as more visual elements could be used, allowing the representation of more data.

3. Categorize

Trend over time

⑧ Stacked area chart

① Line chart

Comparison

③ Bar chart

⑥ Grouped bar chart

⑦ Stacked bar chart

Correlation

⑤ Bubble plot

② Scatter plot

Distribution

④ Geographic map

⑤ Bubble plot

② Scatter plot

Composition

⑧ Stacked area chart

⑩ Pie chart

Intensity/ Density

④ Geographic map

⑦ Heatmap

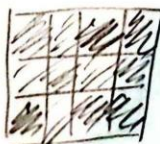
4. Combine and Refine

Line graph + bar chart (combined)

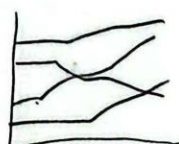


compare between different categories

Heat map + Stacked line chart (multiple views)



+



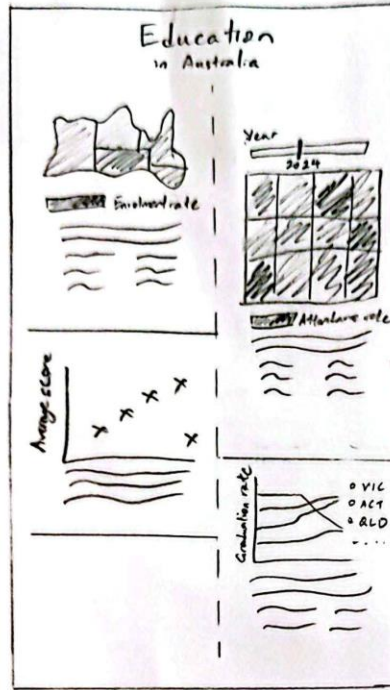
Use same dataset but different attributes

5. Question

- Do these visualisations lead a clear story?
- Are they feasible?
- Are some of them too messy or complex?
- Are multiple views needed?

Sheet 2

Layout



Title: Timeline infographic

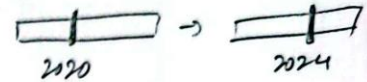
Author: Hui Wen Yap

Date: 13/10/2024

Sheet: 2

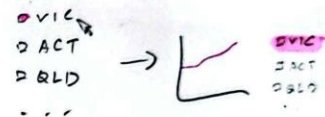
Task: Design a timeline infographic

Operations



slider

- to change visualisation based on year



Highlight filter

→ click on legend to filter by state

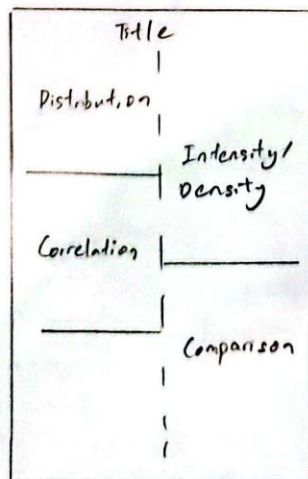
Focus

No main focus, everything is important.



Read downwards in zig zag motion

- flow from enrolment rate to graduation rate



Discussion

+ Sequential events in order
→ easy to grasp progression of events

+ effective for storytelling

+ highlights relationships over time.

- arrangement can be confusing and read in the wrong order

- lots of white space.

- limited data complexity

Sheet 3

Layout

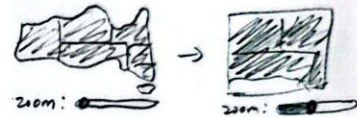
Education in Australia	Education ..
How many students are there in Australia?	no students
What is the student-teacher ratio in each state?	
How is the financial status in the education sector?	State: <u>PAK</u>
Conclusion	

Title: Narrative layout
 Author: Hui Wen Yap
 Date: 13/10/2024
 Sheet: 3
 Task: Design a narrative layout

Operations



Year brush
 - filter data based on selected range of date.



zoom
 - for more data:



Dropdown filter
 - based on selection / all

Focus

Each row has a focus and answers a question.

read left to right,
 top to bottom
 for a storylike
 narrative

1 Title	2 Intro
3 student numbers	4 visualisation
5 student-teacher ratio	6 visualisation
7 financial status	8 visualisation
9 conclusion	10 credits

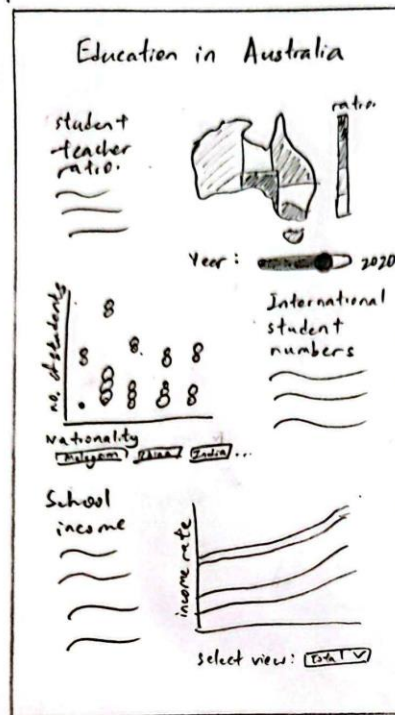
question on the left,
 visualisation on the right

Discussion

- + sequential flow
 → guides viewers throughout
- + engaging
- + easy to understand
- requires space management
- limited space
 → no space for explanations / descriptions
- risk of confusion if read in wrong order

Sheet 4

Layout



Title : Partitioned poster

Author : Hui Wen Yap

Date : 13/10/2024

Sheet : 4

Task : Design a partitioned poster

Operations



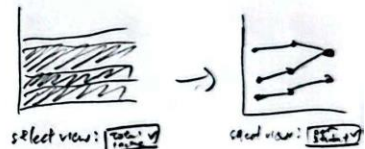
Year slider

- filter based on year



Button filters

- filter data based on nationality

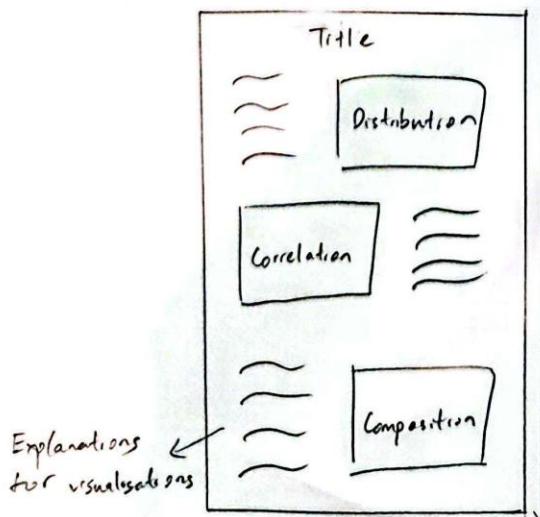


Dropdown view:

- different visualisation based on selected view

Focus

- No main focus, all graphs are important



Read top to bottom

- flow of story

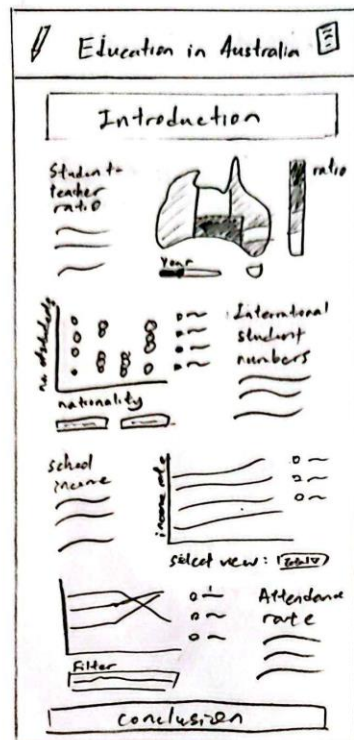
Discussion

+ Informative
+ Clear and organised structure
+ Ease of navigation
+ can utilise space well

- risk of information overload
- structure can be too repetitive.

Sheet 5

Layout (Based off sheet 4)



Title: Final design sheet

Author: Hui Wen Yap

Date: 13/10/2024

Sheet: 5

Task: Design final layout

Operations



Year slider

- filter based on year



Button Alters

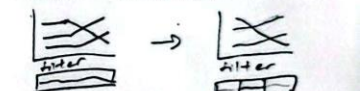
- filter data based on nationality



select view

dropdown view

- different visualisations

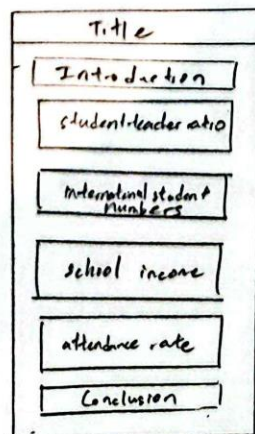


year brush

- filter based on date range

Focus

- No main focus, all graphs are important
- storytelling → connect all visualisations and explanations together.
- clear subheadings and annotations to guide viewers



Details

Dependencies

- Vega Lite
- HTML
- CSS

Estimated time

2 weeks

- 1.5 weeks to build, idioms and final layout
- 0.5 week for report and final touch ups

Requirements

- desktop view
- clean data to reduce loading time