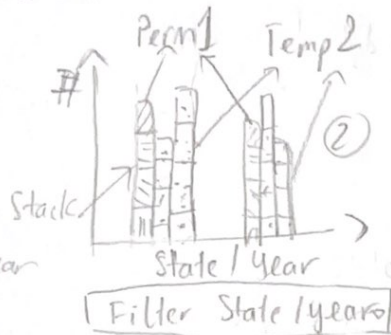
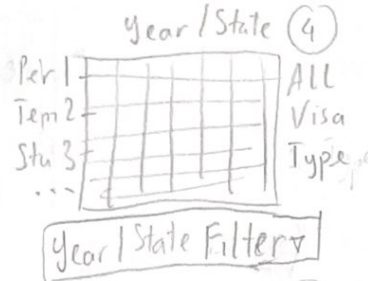


IDEAS

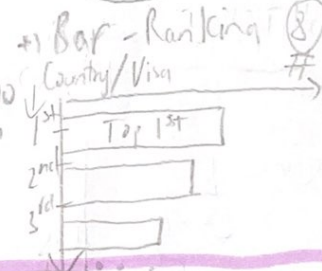
+1 Group (Stack) Bar Chart



+1 Heat Map (3)



+1 Map Citizenship (7)



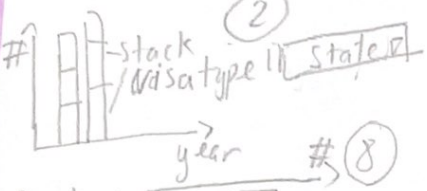
FILTER

+1 (7) Map

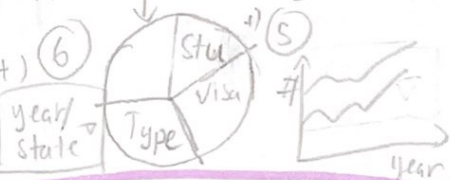
+1 (4) Heat Map



+1 Bar Chart (2)



+1 Ranking



CATEGORIZE

Citizen Preference (Map)

Rank of Citizenship

Visa Distribution over years

Sub-Visa Details (Students / By Types)

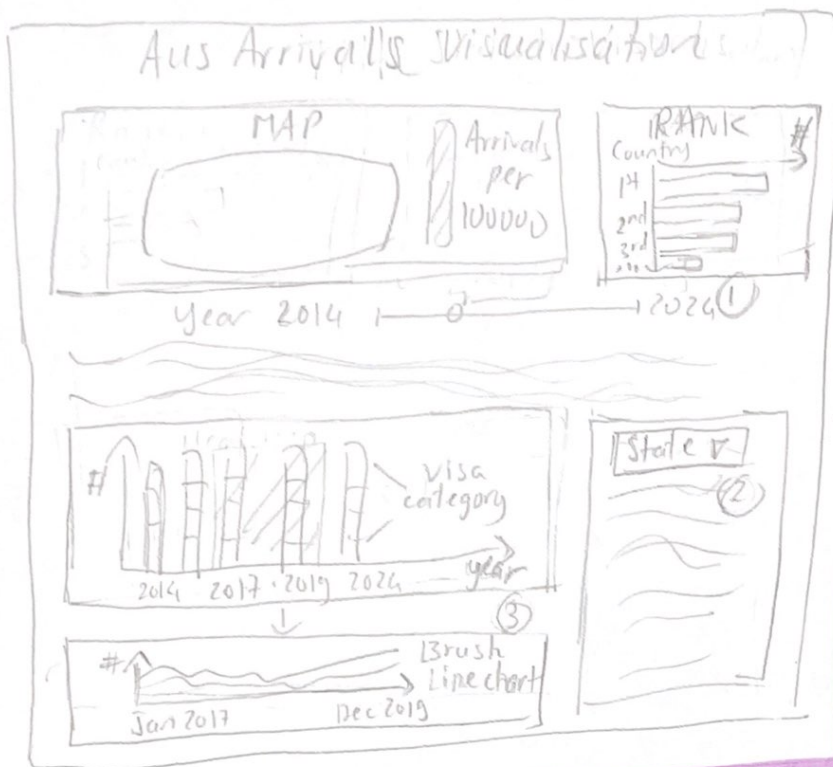
COMBINE & REFINES

- +1 (7) can be used as choropleth of citizen arrivals over each country population
- +1 (4) is more suitable than (3) -> more data shown
- +1 (5) (2) Can be grouped to show brush of specific time
- +1 (8) For small area to support map about ranking of arrivals by countries's residents
- +1 (2) Stack bar can be one of main vis for general data of years/main categories -> trend/compare
- +1 (6) proportion for specific VISA (student/temp...)

Question

- +1 Should multiple vis use the same filter? Feasible?
- +1 Is data pattern weird to show?
- +1 Should the map display one (latest-2024) or multiple years data?
- +1 Can any of the vis be grouped for mutual interactive action? (Brush? facet?)

LAYOUT



Title: Partitioned Poster

Date: 13/10/2024
Author: Phuong Anh Chu

Sheet 2
Task: Viz 2

Discussion

→ highly interactive and
→ suit to show abnormal period
→ can be too complicated and difficult to implement

OPERATION

① Slide year filter to change data of map and Rank bar gets the year

② [State ▾] Filter of [Show All / NSW / VIC / ...] that changes the stack bar & line under

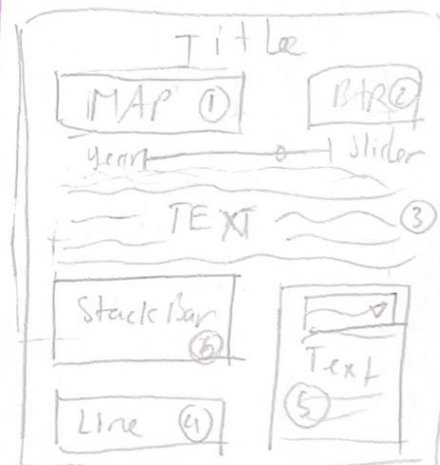
③ Brush Interaction

- Hover, Hold mouse and slide within the stack bar to get deeper view of specific year/month period from the line chart.

④ Tool tip

- Map: Country, #, # over 100000
- Rank Bar: Country, #
- Stack Bar: Year, #, state, visa type
- Line Chart: Year/Month, #, state, visa type

FOCUS

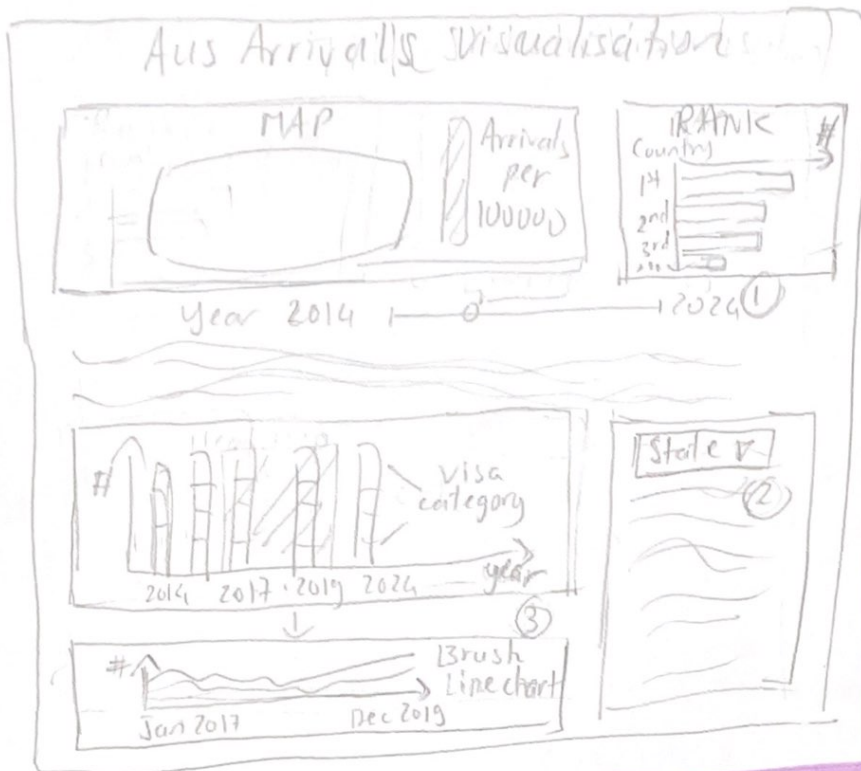


→ 2 sections separately with own jobs

→ ① ② ③ First section - Main layout citizenship #, main because it will occupies all screen initially

→ ④ ⑤ ⑥ Second section
Different data of visa types

LAYOUT



Title: Partitioned Poster

Date: 13/10/2024
Author: Phuong Anh Chu

Sheet 2
Task: Viz 2

Discussion

→ highly interactive and
→ suit to show abnormal period
→ can be too complicated and difficult to implement

OPERATION

① Slide year filter to change data of map and Ranking bar gets the year

② [State ▾] Filter of [Show ALL / NSW / VIC / ...] that changes the stackBar & Line under

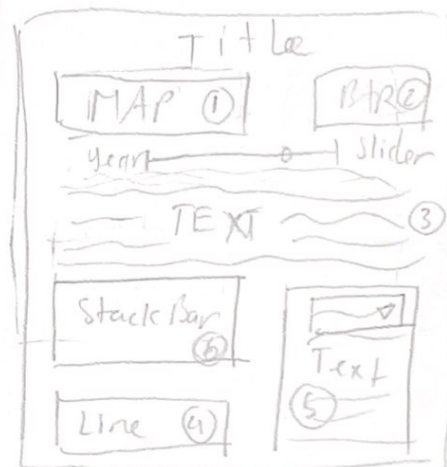
③ Brush Interaction

- Hover, Hold mouse and slide within the stack bar to get deeper view of specific year/month period from the line chart.

④ Tool tip

- Map: Country, #, # over 100000
- Rank Bar: Country, #
- Stack Bar: Year, #, state, visa type
- Line Chart: Year/Month, #, state, visa type

FOCUS

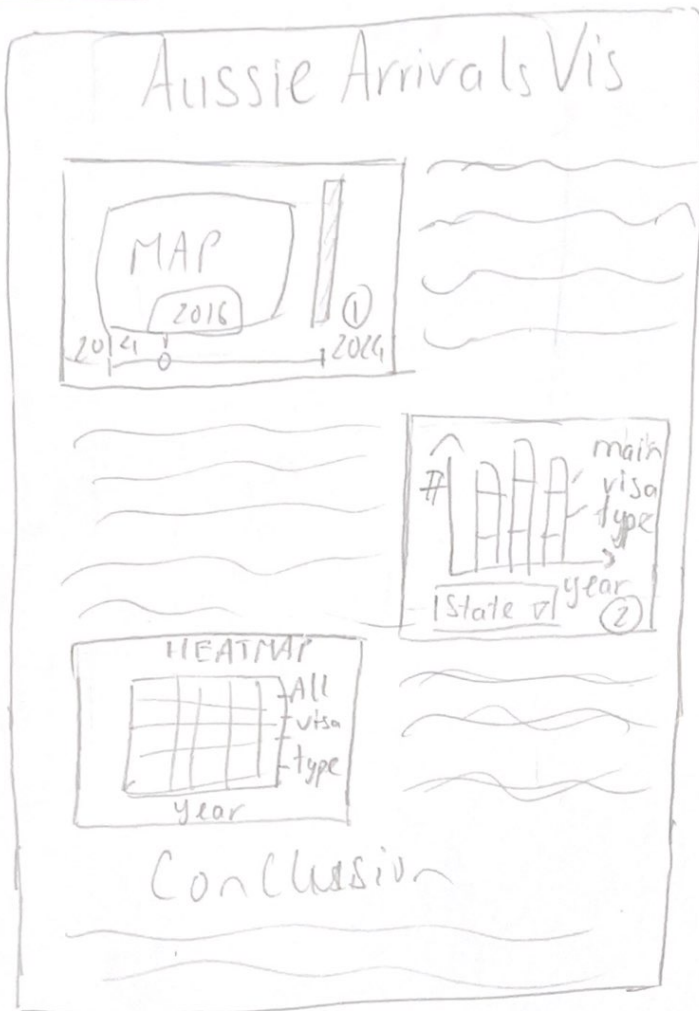


→ 2 sections separately
→ 1st section

→ ①②③ First section - Main
↳ by citizenship #s main because it will occupies all screen initially

→ ④⑤⑥ Second section
Different data of visa types

LAYOUT



Title: Partitioned Poster

Author: Phuong Chu

Date: 13/10/2024

Sheet: 3

Task: Visualisation 2

OPERATION

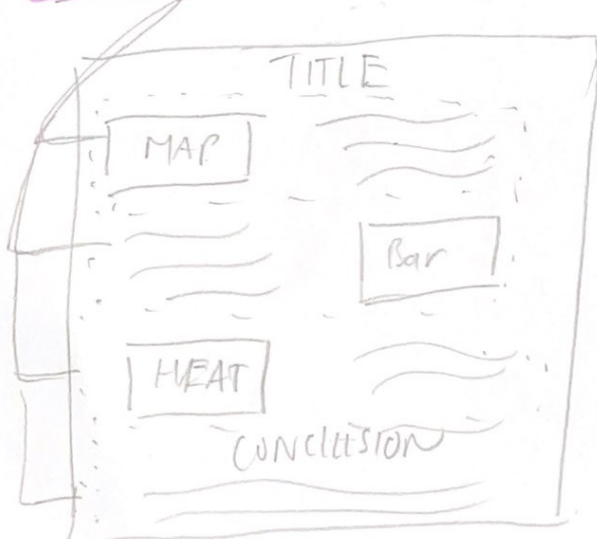
① Year slider to select a year → map display that year data

② Filter of state:
[ALL, VIC, NSW, ...]
to show only related data in the stack bar

③ Tooltip:
- Map: Country, arrivals, arrivals per 100000 pop
- Bar: year, visa type, #
- Heatmap: year, type, #

FOCUS

2 sections with vis and text
→ each is important, read from top to bottom



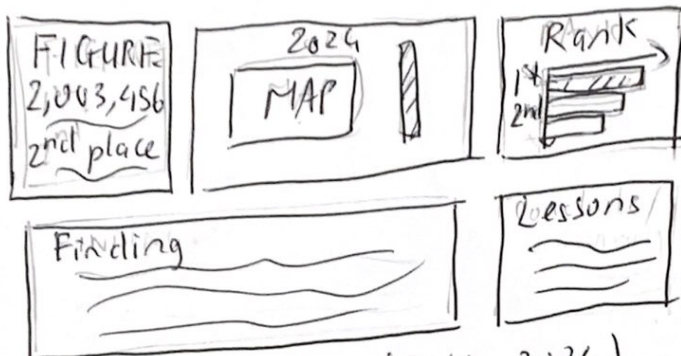
tip to bottom
↓
focus changes as scroll down

DISCUSSION

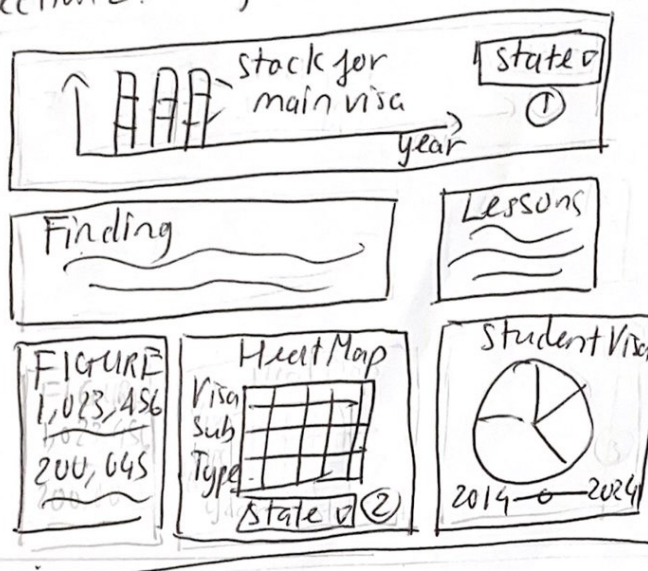
+) Adv
→ clear identification for each data conveyed
→ highly balance, well-align
+) Disadv
→ can be boring due to too simple and few interaction
→ maybe more section to add?

LAYOUT

Aus Arrival Visualisation Section 1: 2024 (Latest Data)



Section 2: 10 years (2014-2024)



OPERATION

- ① ② State v Filter
→ [All, VIC, NSW...] to show specific state data within stack bar (on select)
- ③ 2014 ————— 2024 - year slider
→ slide specific year will show relevant data in the pie chart
- ④ Tool Tip:
→ Map/Bar Ranking: Country name, #
→ Stack Bar/Heatmap: visa type, year, state
→ pie: visa type, #, %

Title: Partitioned Poster

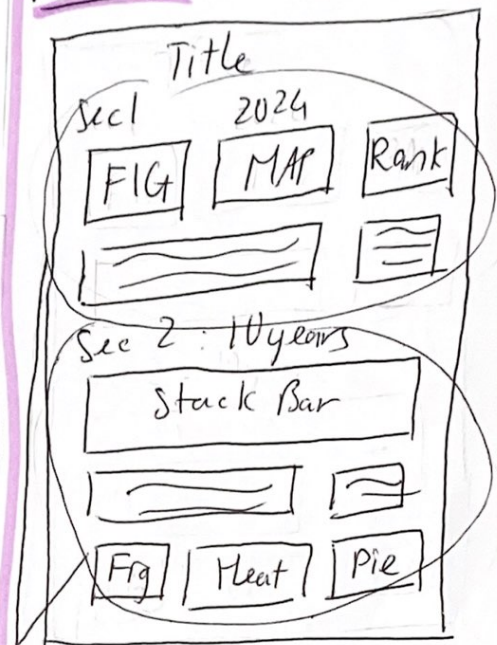
Author: Phuong Chu

Date: 13/10/2024

Sheet: 5

Task: Visualisation 2

FOCUS

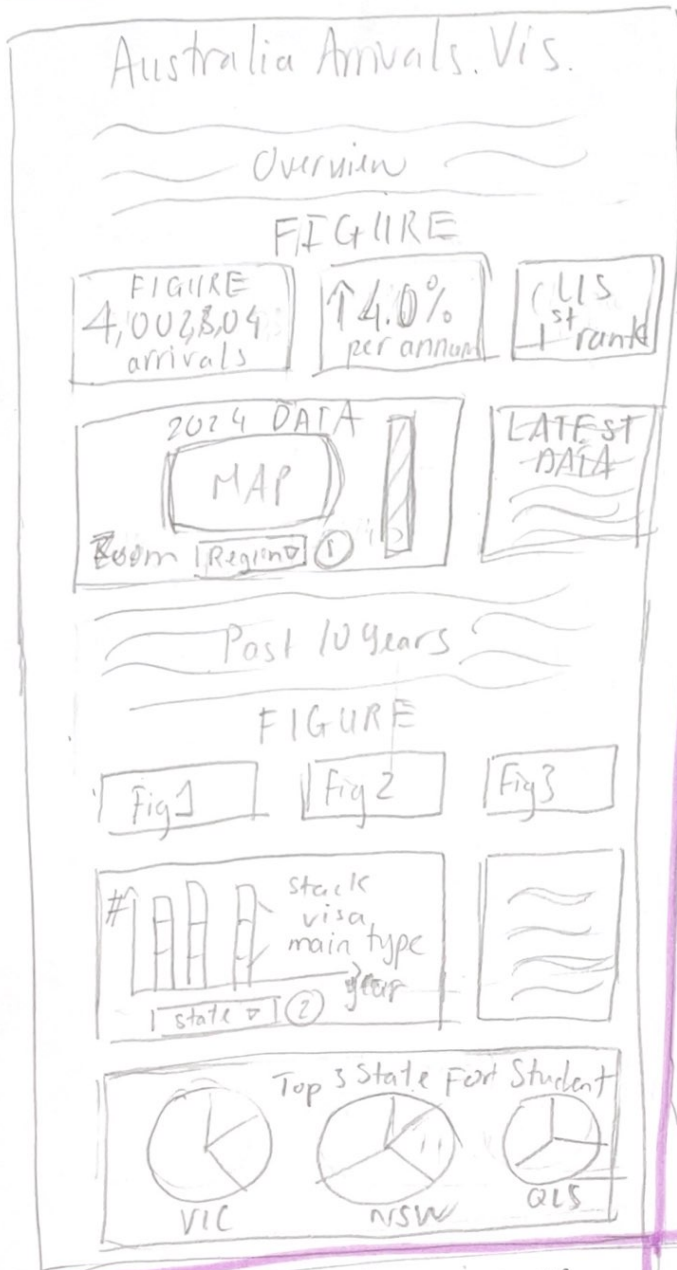


→ 2 sections = 2 main focus
→ First focus for 2024 Data
Then 2nd focus in bottom
for 10 years data & more details

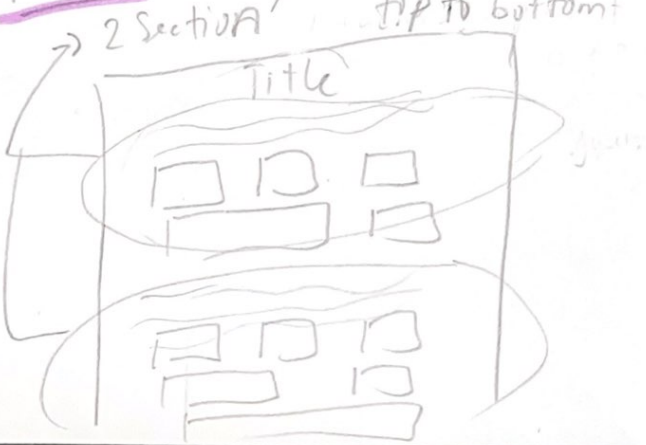
Discussion

- Adv
→ clear sections and sufficient data, text with summary
→ provide insights/analysis
- Disadv:
→ can be too simple (perhaps some more interactive way?)
→ for section 2, maybe add more description/analysis for the last charts/heatmap?

LAYOUT



FOCUS



Title: Partitioned Poster

Author: Phuong Chu

Date: 13/10/2024

Sheet: 4

Task: Visualisation 2

OPERATION

① Zoom [Region ▾]
of continents [Asia, Ebl, ...]
→ display map with projection based on selected region

② [State ▾] filter
→ include list of [ALL, VIC, NSW, ...]
→ show bar chart of relevant state selected

③ Tool tip
- Map / Bar: Country, #
- Stack Bar: visa type, #
- Pie: visa type, #, %

DISCUSSION

Adv

- 1) Interactive Map,
- 2) Comprehensive Data with sufficient text, chart, summary

Disadv

- 1) Feasibility for Map Zoom?
- 2) Data can be similar / having same pattern → pie is meaningless