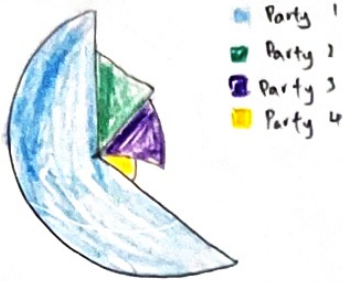
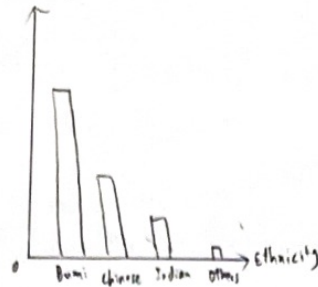


1. Ideas

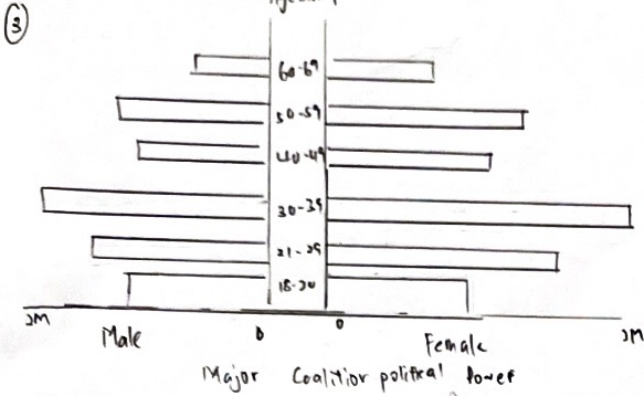
① Seats by Parties



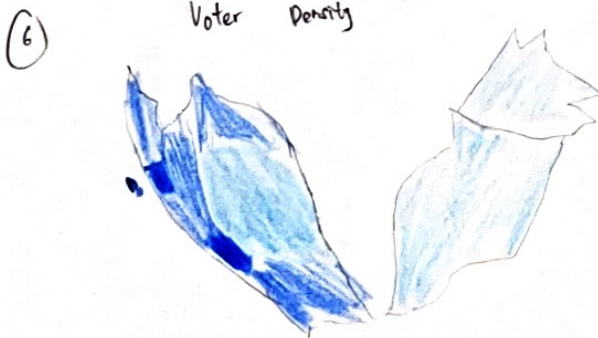
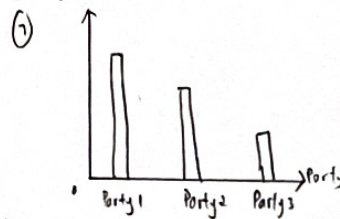
② Percentage



Number of Voters in each age group



④ Ethnicity



2. Filter

i) ② and ④ shows the same data. Use ④ instead as it is suitable for data with less categorical data.

ii) ① and ③ shows the seats by parties. I would choose ① for visualizing this data.

3. Categorize

Map

Graph: ⑤ & ⑥

(i) Ethnicity

Graph: ③ & ④

(ii) Number of seats for each parties

Graph: ① & ⑦

(iii) Number of voters by age group

Graph: ②

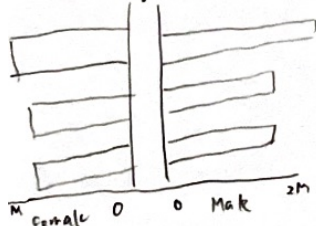
4. Questions

The solutions provided in the sheet does satisfy the WHY? as readers can analyse and identify the results and the political power for each major coalition in Malaysia.

5. Combine and Refine

Combination 1: ③ & ④

Number of voters by age group



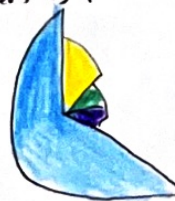
Ethnicity



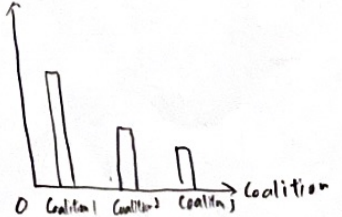
Shows the demography statistic of Malaysia.

Combination 2: ① & ⑦

Seats by parties

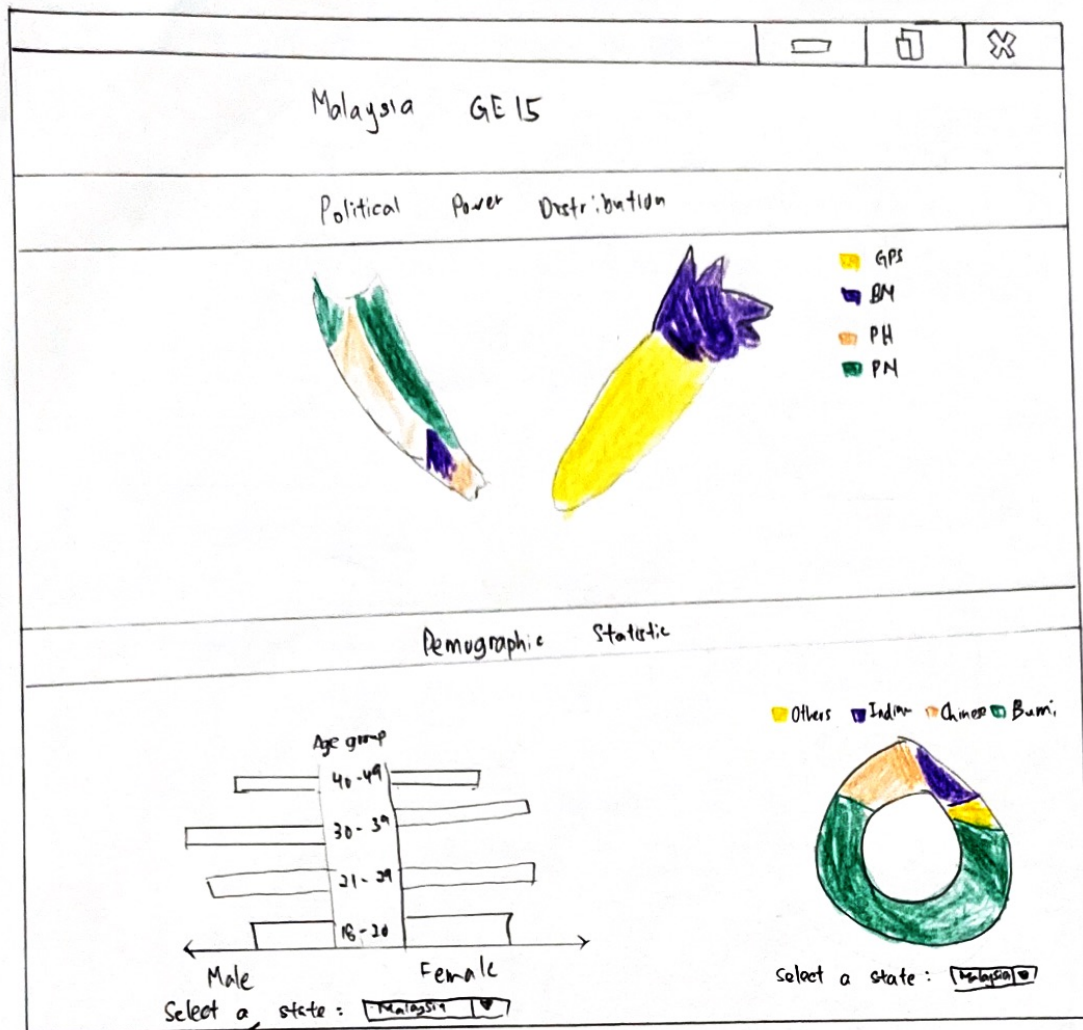


seats



Shows seats for each coalition in ⑦ instead of each parties. Create a radial pie chart for each coalition to visualise seats by each parties in the particular coalition.

Layout



Author: Ting Gwoing Xun

Date: 15/10/2024

Sheet: 2

Operations

- User can filter the coalition by directly selecting the legend to view its political power distribution
- User can select a specific state to view its population pyramid and ethnicity structure.

Focus

(i)

Malaysia	▲
Kedah	
Kelantan	
Pulau Pinang	
Selangor	
Terengganu	
Sabah	
Sarawak	
Johor	
Pahang	

- Users can select a state to view its details on the chart

(ii)



- When selected a particular coalition, the map highlights the state where the coalition gets majority parliament seats

Discussion:

- Users can identify the political influence of a specific coalition

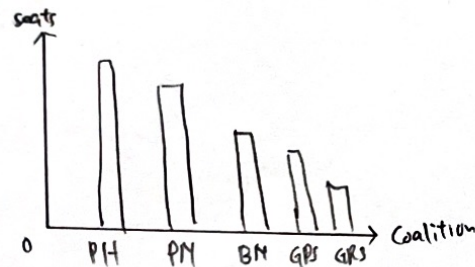
Users can't visualise the total number of parliament seats that each coalition or parties had gained

Malaysia GE15 Results

Governing coalition by each state



Seats by Coalition



Operations

- Users can directly select the coalition in the legend to see which state is governed by them.

Focus



When users select the coalition in the legend, the map will highlight the state which is governed by the selected coalition.

Discussion

+ Users can visualise which state is governed by which coalition, which is important for analysing the coalition-based support.

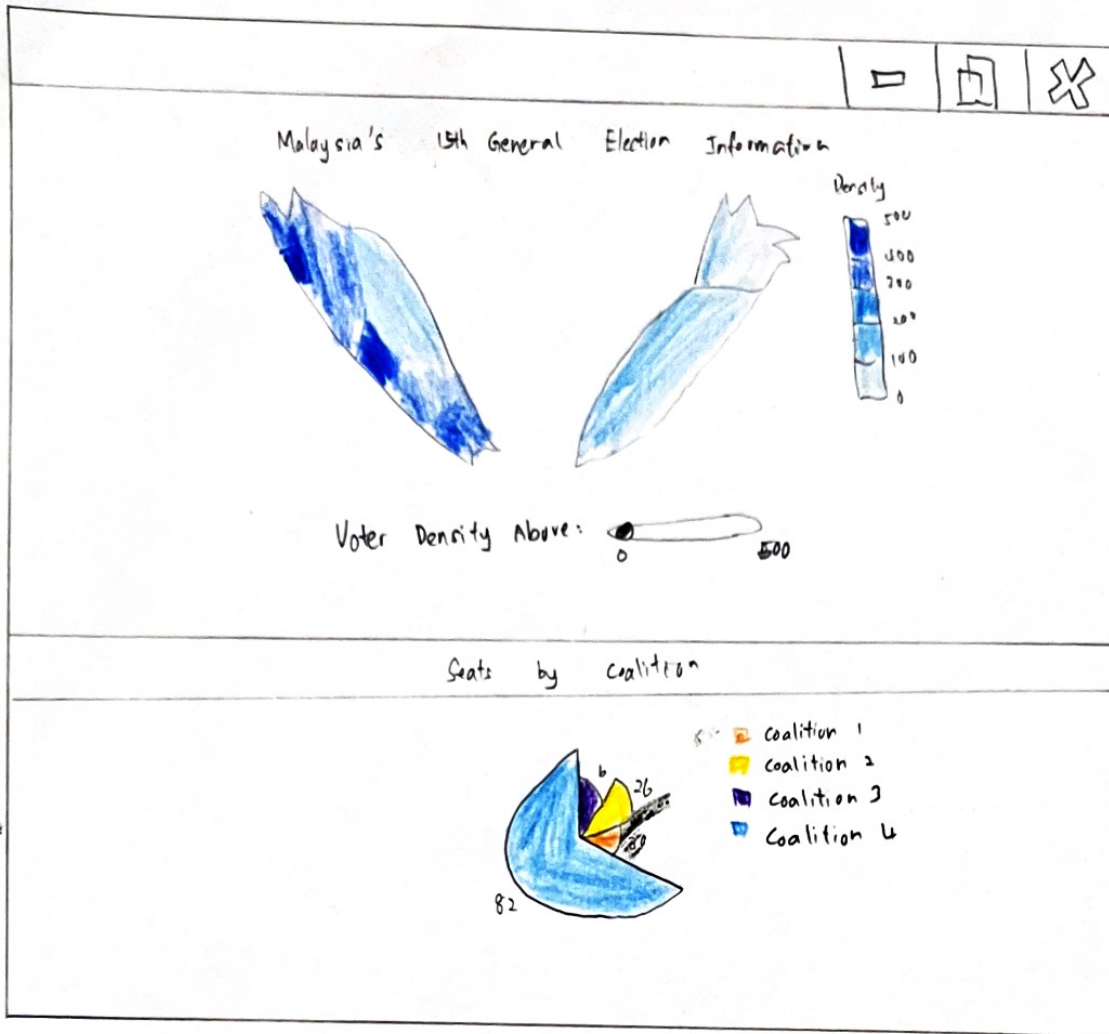
- Users can't visualise the demography statistic for the country or each state.

Layout

Author: Ting Guang Xun

Date: 15/10/2024

Sheet: 4



Operations

- Users can use the slider to filter the state with density higher than the slider value
- Users can select the coalition in the legend to visualise the specific coalition

Focus

Discussion

(i) Voter Density Above: 0 200 300

- when users filter out states with voter density ≥ 300 , only states with voter density equal or higher than 300 would be remained

+ Users can easily filter out state with low or high density

+ Users able to identify which coalition has the most seats

(ii)

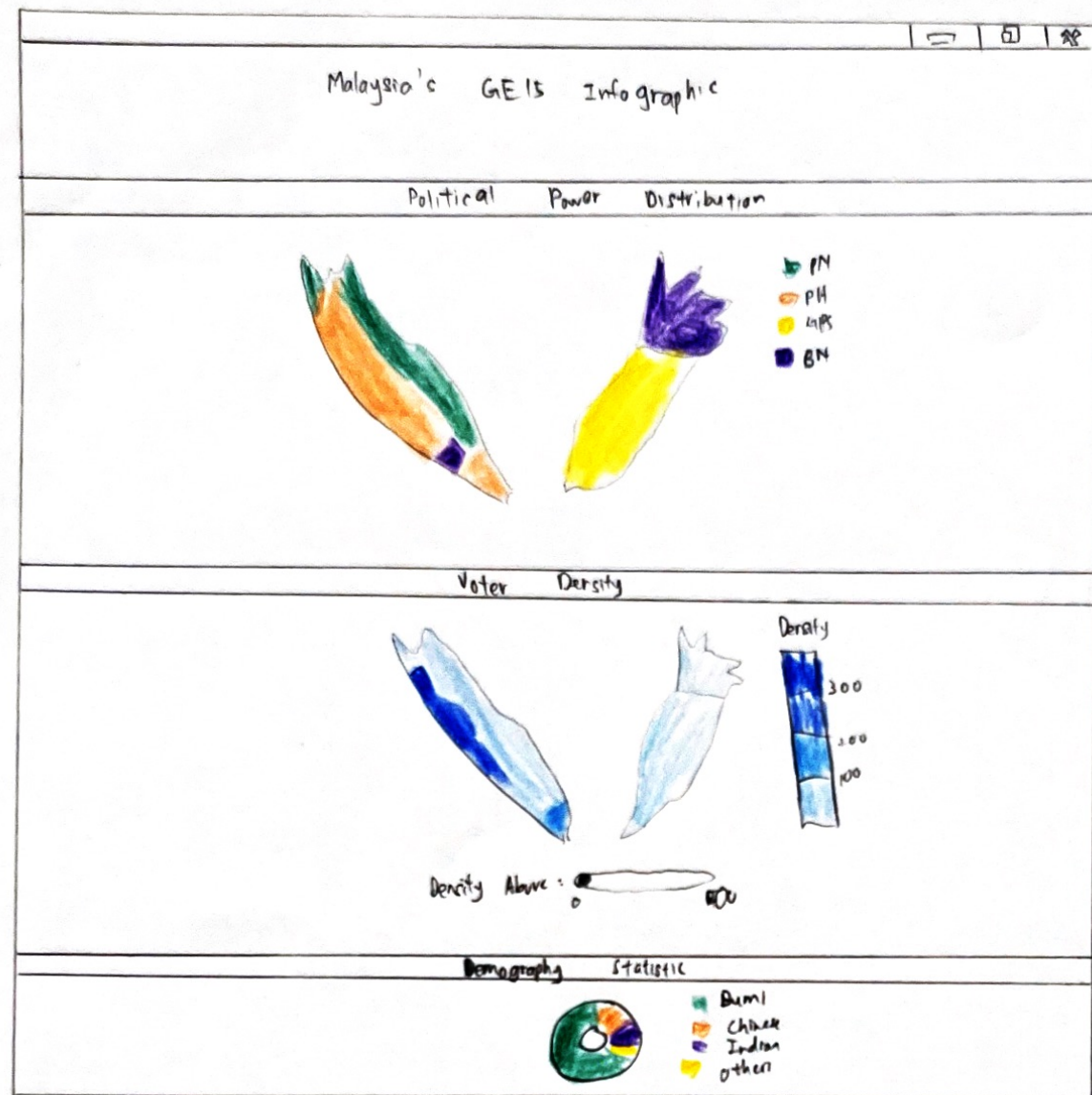


Coalition 1
Coalition 2
Coalition 3
Coalition 4

- The radial pie chart will highlight the selected coalition

- Users can't identify the political influence of each coalition.

Layout



Author: Ting Guang Xun

Date: 15/10/2024
Sheet: 8

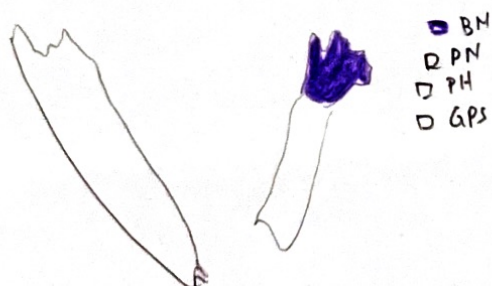
Operations

- Users can select the coalition to see its political influence on the map
- Users can use the slider filter to filter the high or low density state.

Focus

(i) \Rightarrow Only shows the states with voter density ≥ 200

(ii)



• Highlights the state that the selected coalition has majority parliament seats.

Detail

- Dependencies
 - HTML
 - CSS
 - Javascript
 - Vega lite
- Estimated Effort needed
 - can be done individually
 - can be done within 2 weeks
- Requirement
 - stable connection