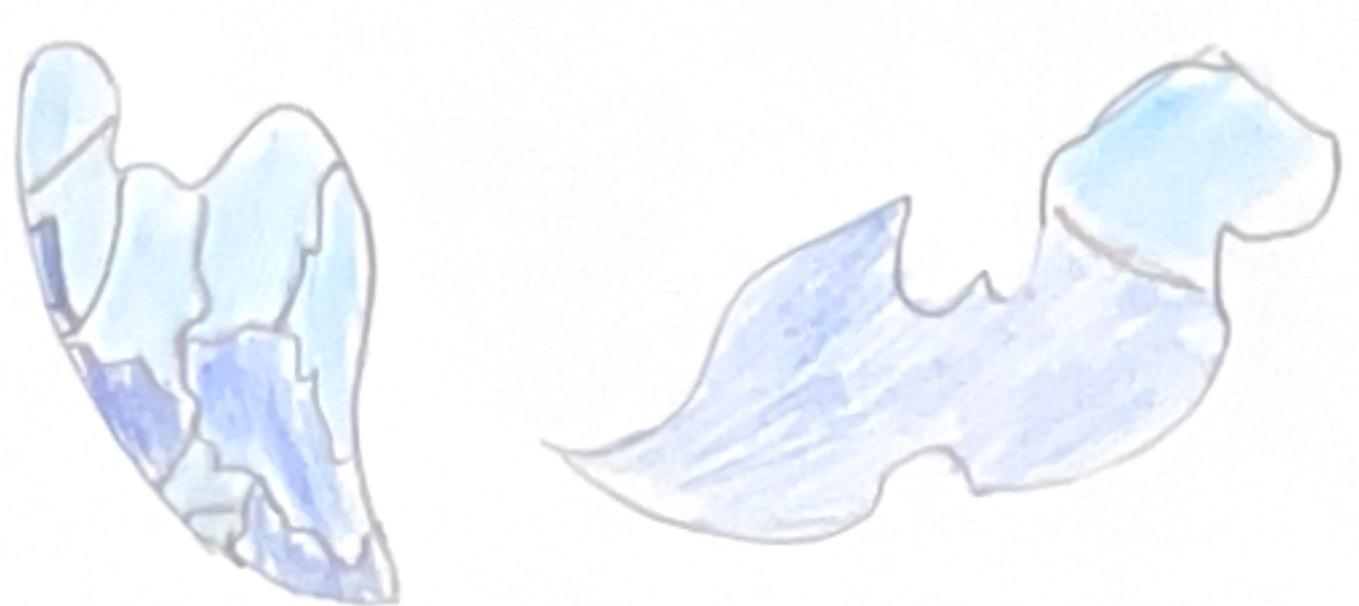


1. Ideas

① Choropleth Map



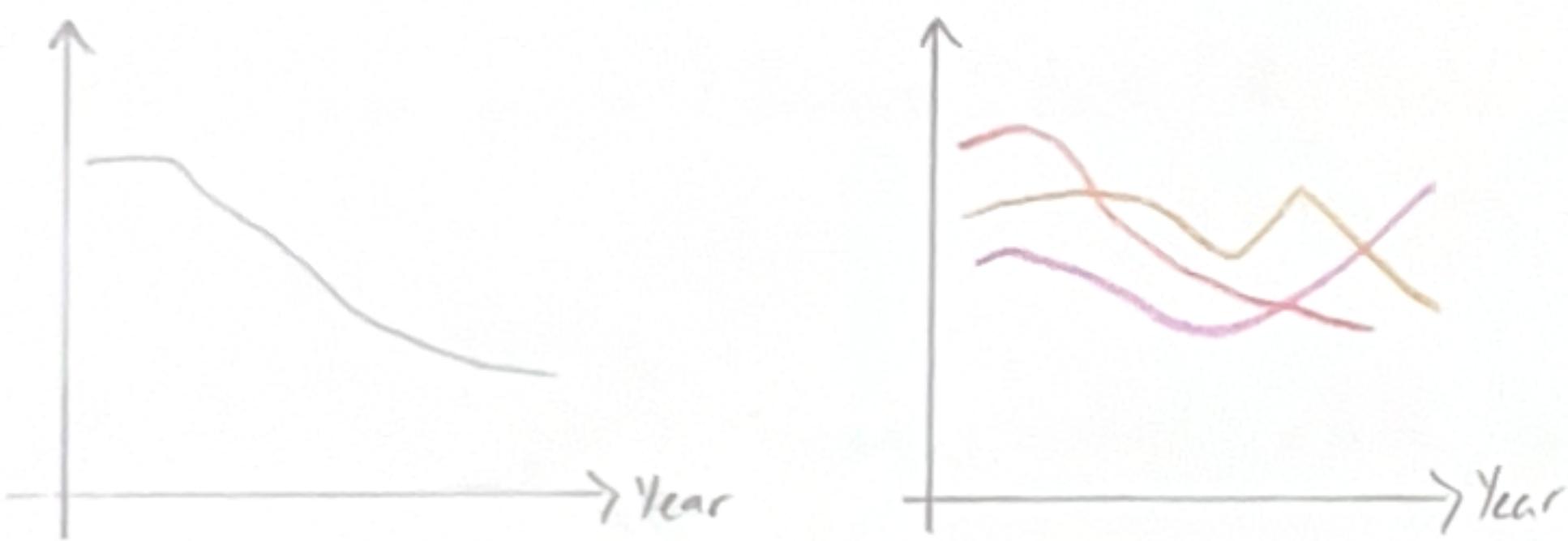
② Proportional Map



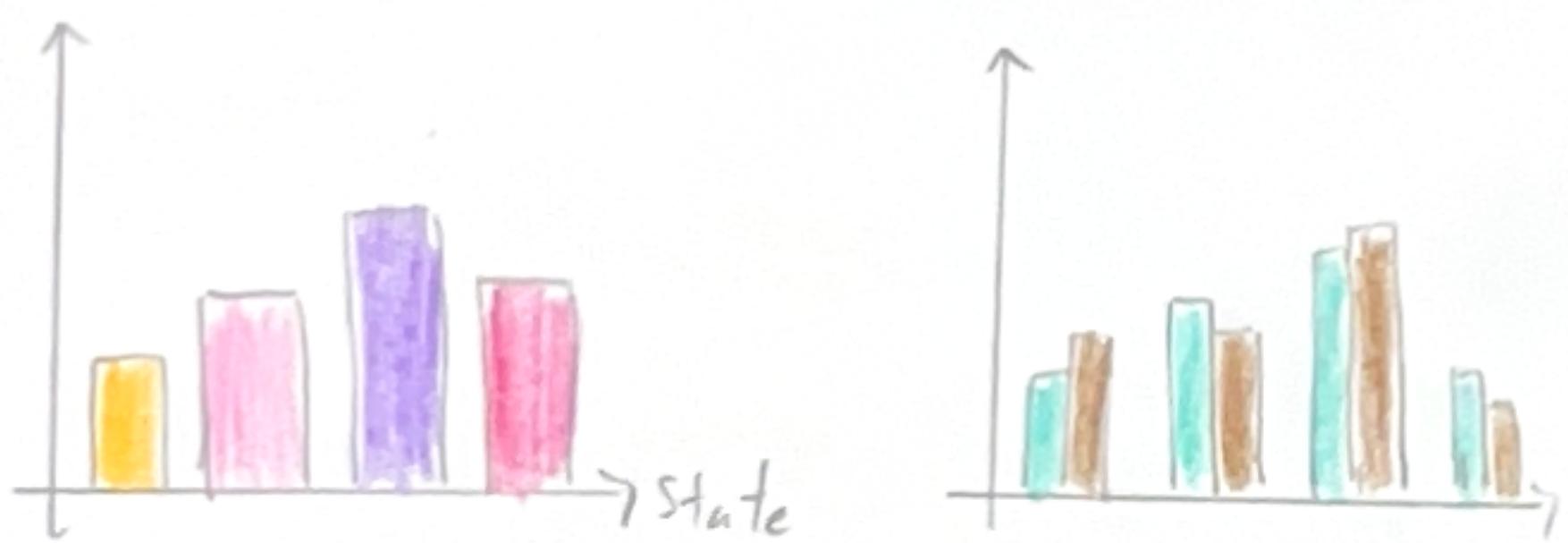
③ Area chart



④ Line Chart / Multi Line chart



⑤ Group Bar Chart / Bar Chart



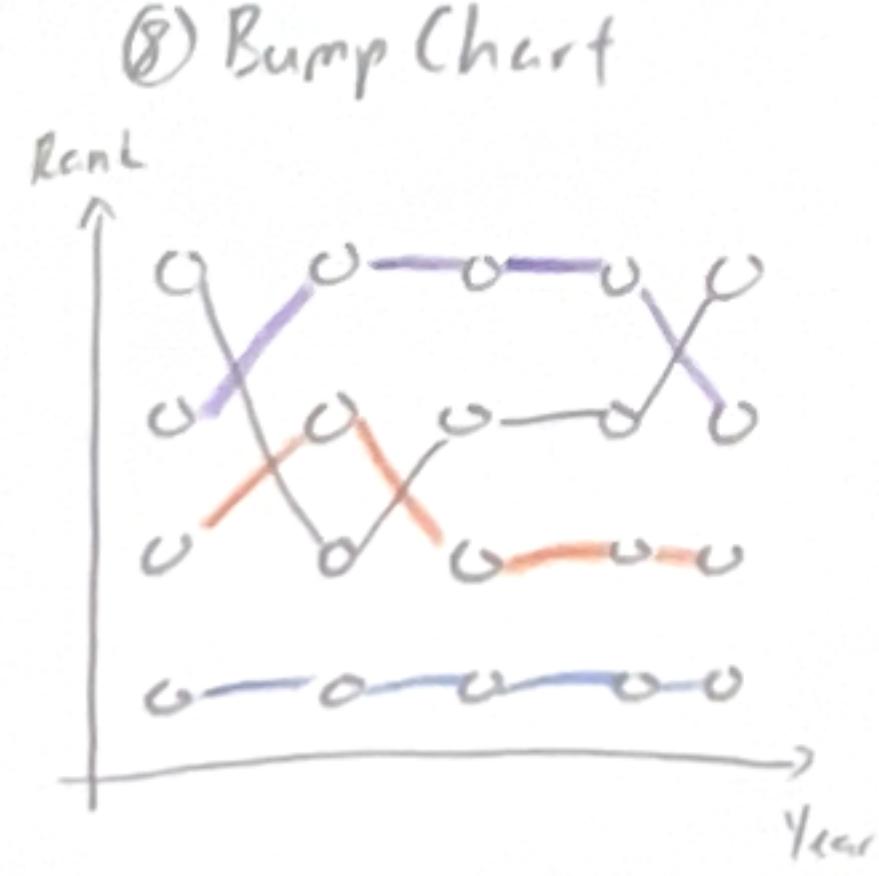
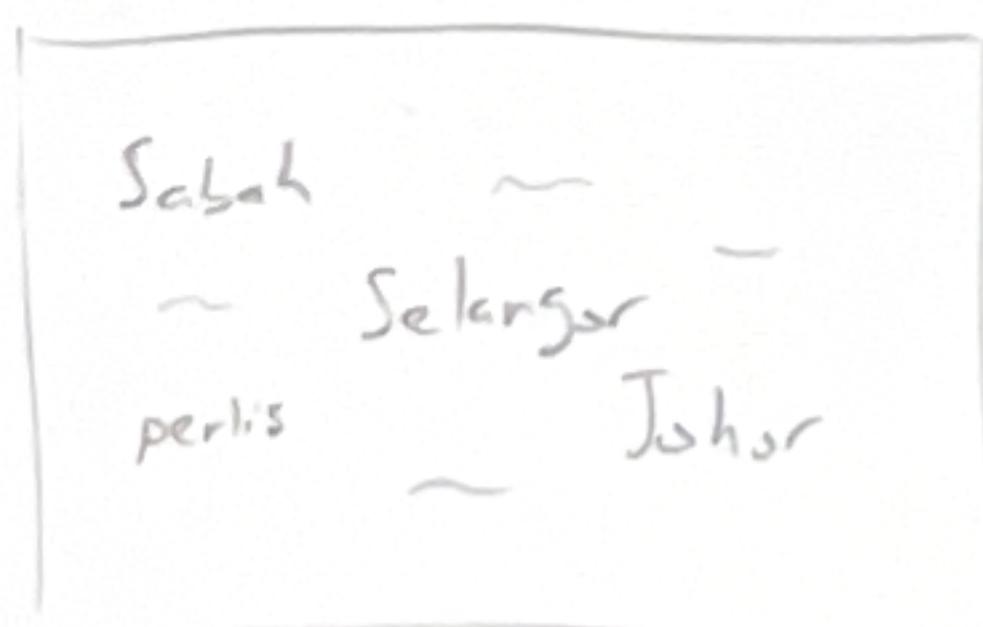
⑥ Donut Chart



⑦ Pie chart



⑧ Word Cloud



2. Filter

① Line Chart



② Bar chart



3. Categorize

Trend of income

Trend of Poverty

Trend of Gini Coefficient

4. Combine and Refine

Combine line chart and barchart

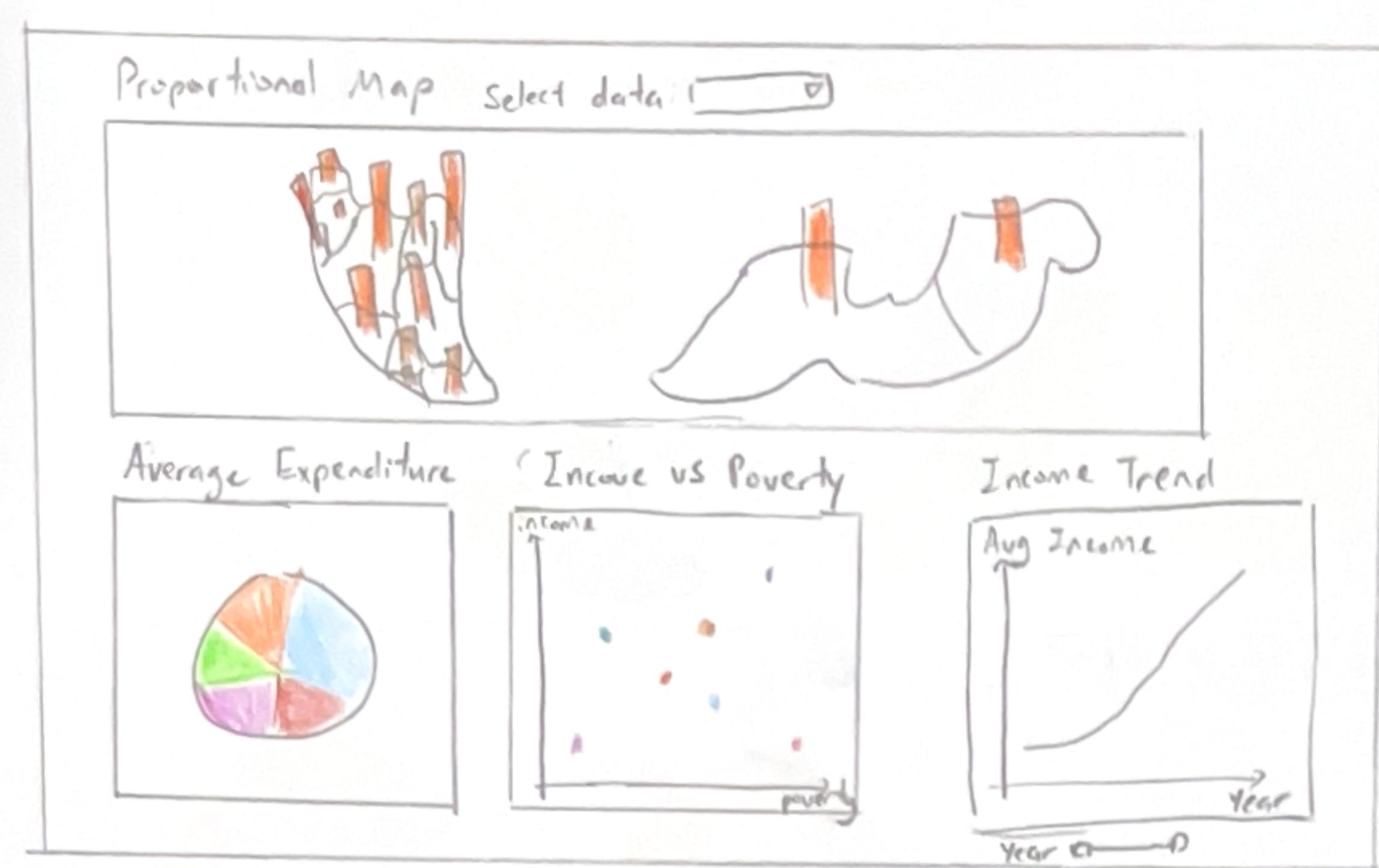


5. Question

- ① Does visualisation show trend accurately
- ② Is the colour suitable for everyone
- ③ Is the visualisation easy to understand
- ④ Are the implementation doable

Author: Anson Lean Huai Shen
Date:
Sheet: 1
Task: Brain Storm

Layout



Title: Visualisation 2
Author: Anson Leean Huai Shen
Date: 06/10/2024
Sheet: 2
Task: Simple Design

Operations

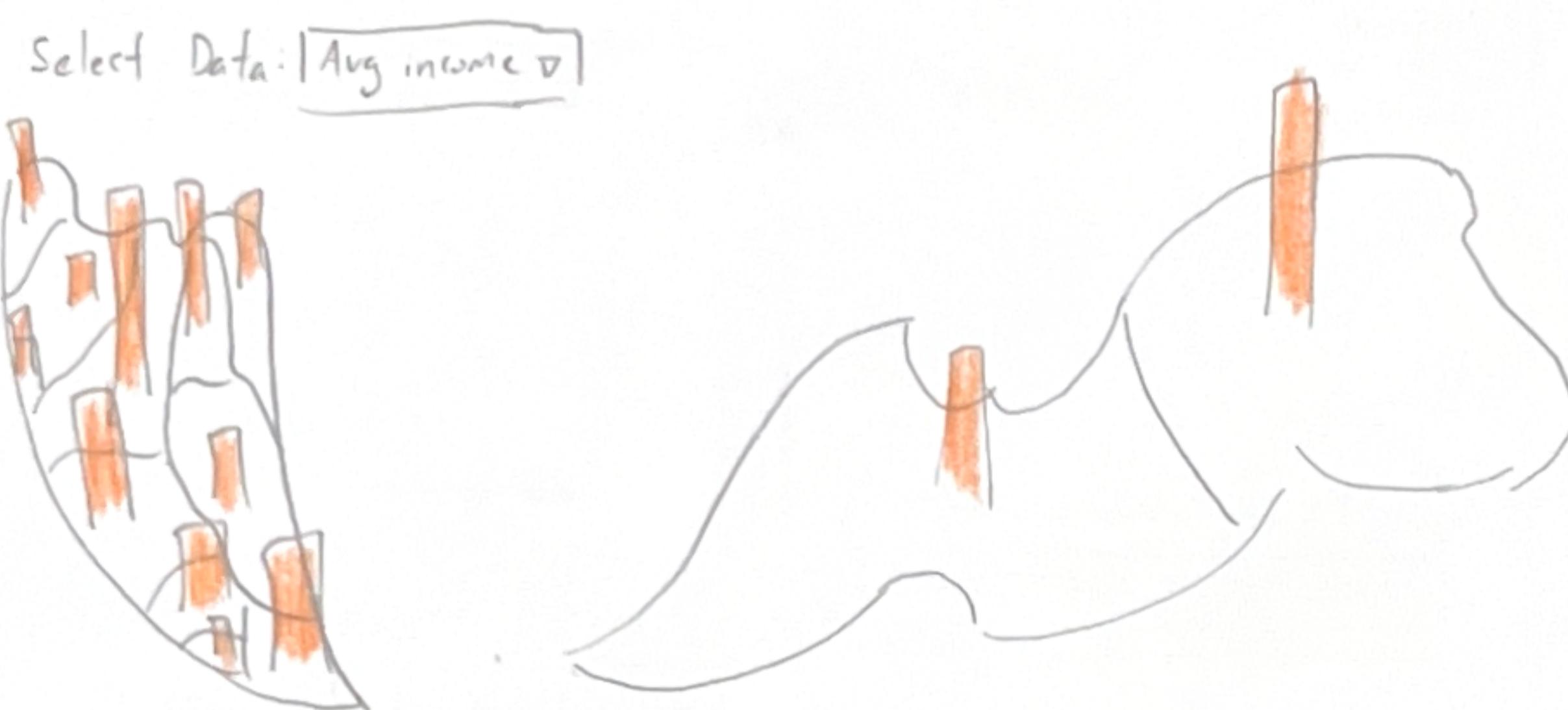
→ Drop down box for map to choose data

[Average Income ▾]

→ Slider for year to look at trend of different range



Focus



→ Focus on many different data [Avg Income, Avg Expenditure, Poverty Rate, Median Income]

→ Uses bar chart to show which state has higher value

→ Dropdown box to choose data
→ Has tooltip to show info

Discussion

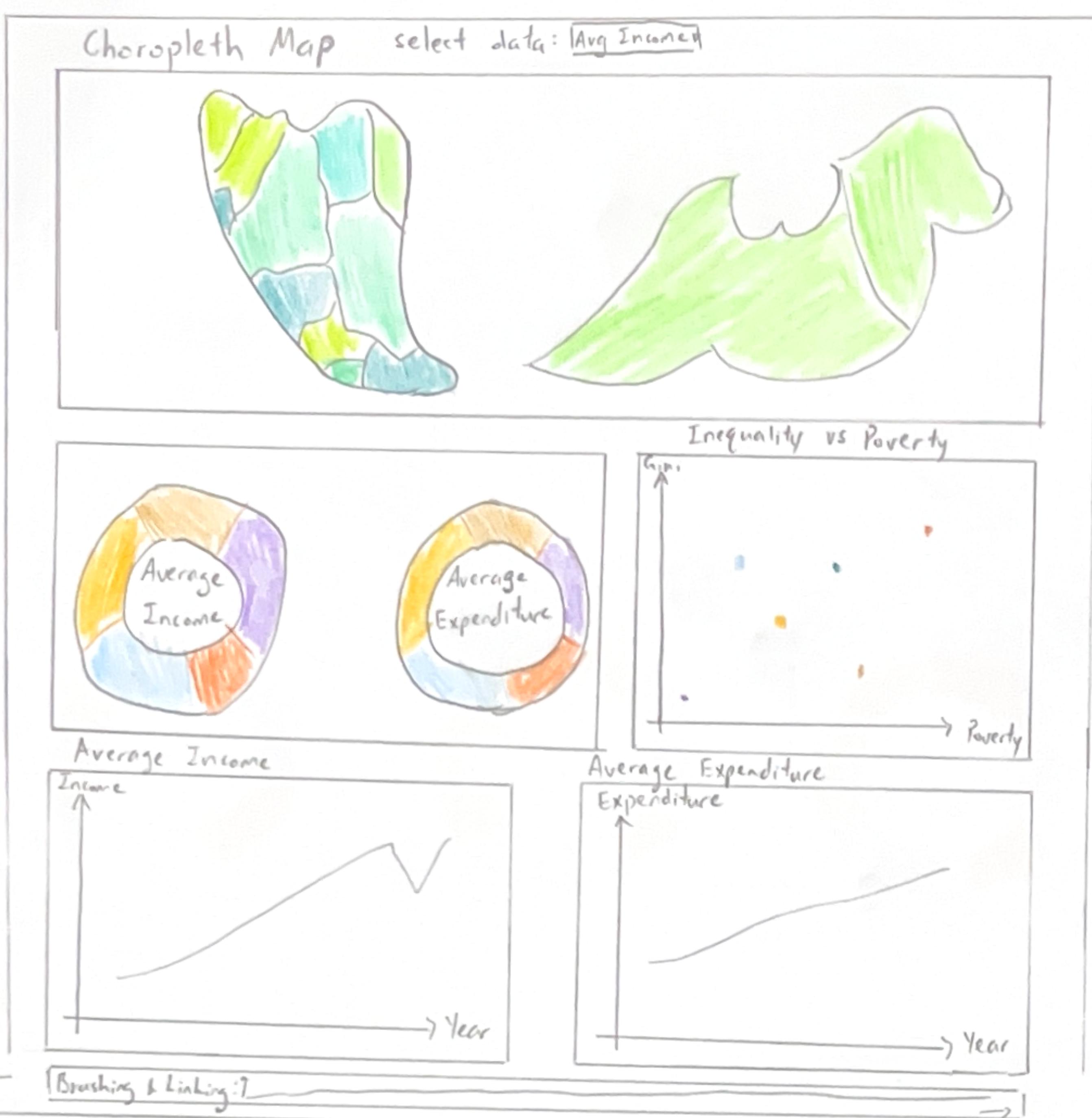
Advantage

- Has simple design. Easy to follow
- Has visual hierarchy (Map)
- Sufficient white space
- Has sightline

Disadvantage

- Pie Chart could be misleading / lying
- Less interactive feature
- Bar chart on proportional symbol map might overlap, so not clear

Layout



Title: Visualisation 2
Author: Anson Lean Huai Shen
Date: 06/10/2024
Sheet: 3
Task: Improved Dashboard

Operation

→ Drop down box for map to choose data

[Average Income]

→ Brushing & Linking for Line chart



Focus

Select Data: Avg Income



- Focus on many different data [Avg Income, Median Income, Avg Expenditure, Poverty Rate]
- Dropdown box to choose data
- Tooltip to show info

Discussion

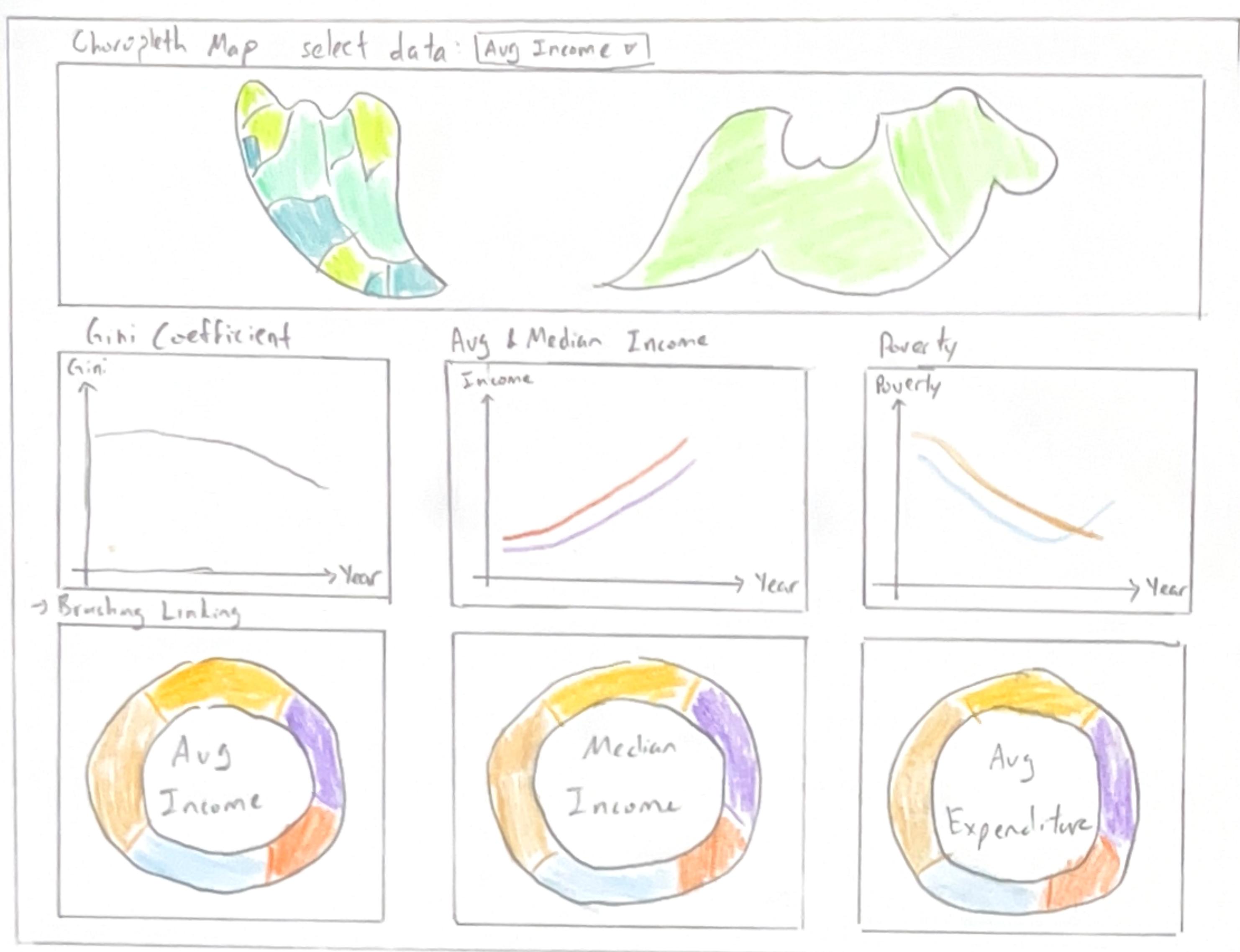
Advantage

- Sufficient white space
- Has visual hierarchy
- Map is better than sheet 1 since no overlapping

Disadvantage

- Donut Chart can be misleading
- Not much sight line
- Less similar interactive feature

Layout



Title: Visualisation 2
Author: Anson Lean Huai Shen
Date: 06/10/2024

Sheet: 4
Task: Detailed Dashboard

Operation:

- Drop down to choose map data

[Avg Income ▾]

- Brushing & Linking for line charts



Focus

Select data: [Avg Income ▾]



- Focus on many different data

[Avg Income, Avg Expenditure, Poverty Rate, Median Income]

- Dropdown to choose data

- Tooltip to show info

Discussion

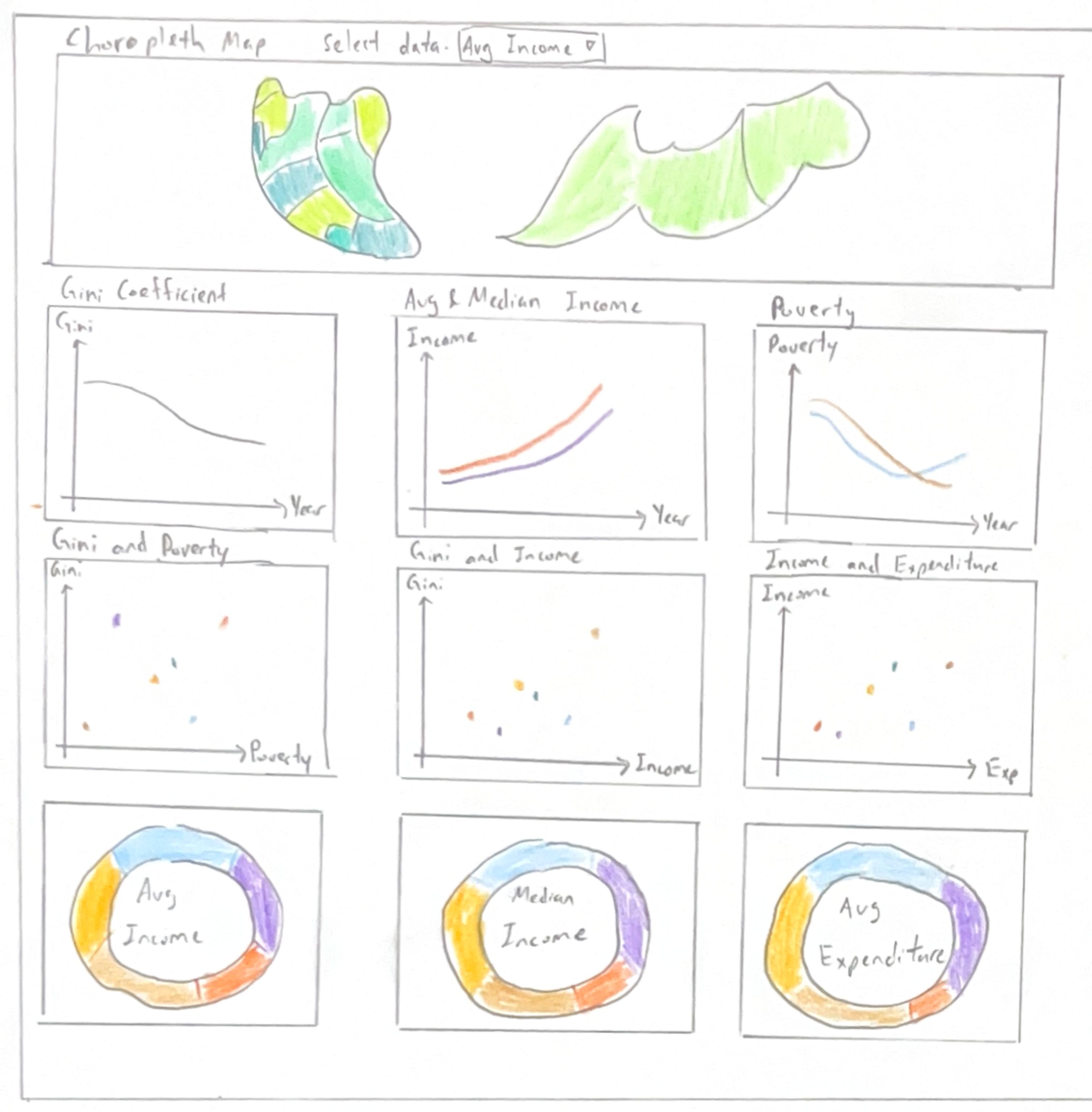
Advantage

- Contain more information than other 2
- Sufficient white space
- Has sight line
- Has visual hierarchy
- No overlapping data on map

Disadvantage

- Donut Chart can be misleading
- Less interactive feature

Layout



Title: Visualisation 2
 Author: Anson Lean Huai Shen
 Date: 06/10/2024
 Sheet: 5
 Task: Final Implementation

Operation

→ Drop down to choose map data

Avg Income ▾

→ Brushing & Linking for line chart



Focus

Select data: Avg Income ▾



→ Focus on many different data
 [Avg Income, Avg Expenditure, Poverty Rate, ...]

→ Dropdown to choose data

→ Tooltip to show info

Discussion

- Chosen from sheet 4
- Has key visualisation, easy to follow
- Has sight line
- Has visual Hierarchy
- Has sightline

→ Donut chart can be misleading