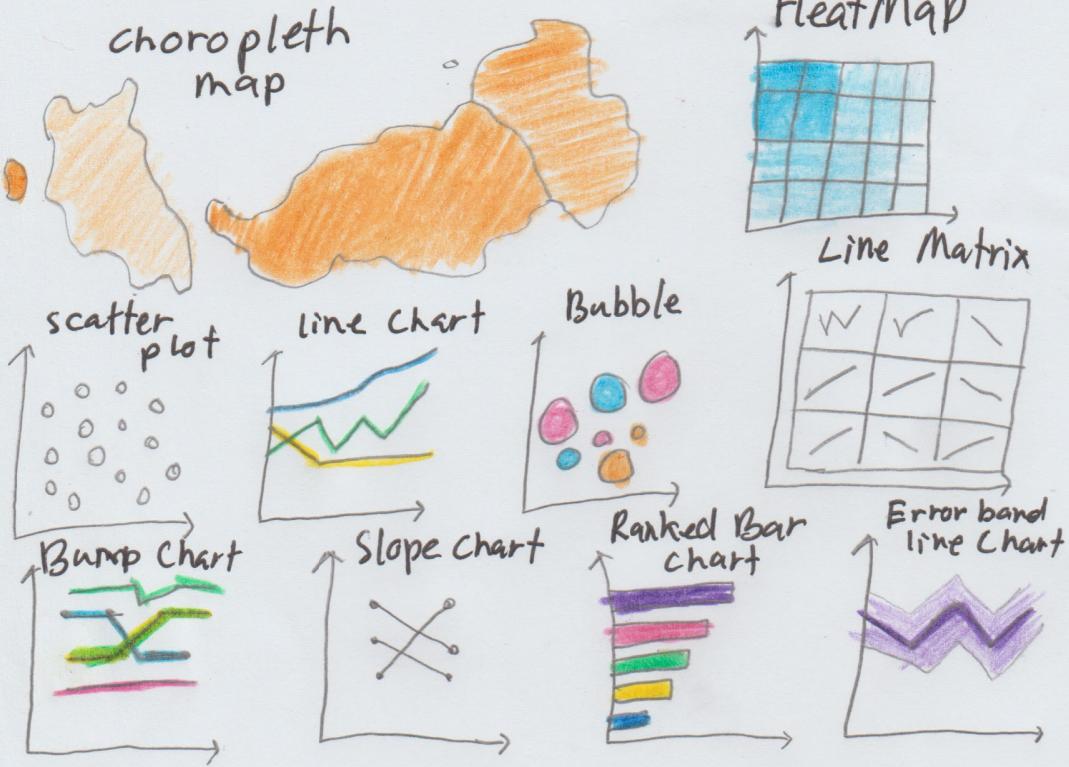


# IDEAS



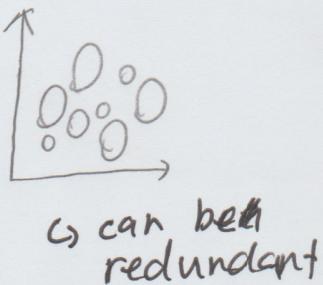
Title: Brainstorm  
 Author: Abdul Rashid Anuar  
 Date: 10/10/2024  
 Sheet: 1  
 Task: FIT3179 Assignment

## Categorise

- Trends
  - ↳ line matrix
  - ↳ line charts
  - ↳ slope charts
- Measure distribution
  - ↳ scatter
  - ↳ heatmap
  - ↳ choropleth map

## Filter

- ① Discard Bubble Chart
  - ↳ data is normalised
  - ↳ may not be suitable as values are in tight range

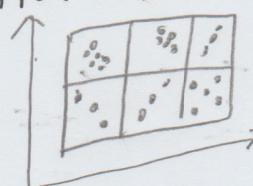
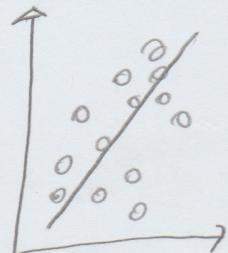


- ② Ranked Bar Charts
  - ↳ might not be suitable to view in whole about the situation/domain



## Combine & Refine

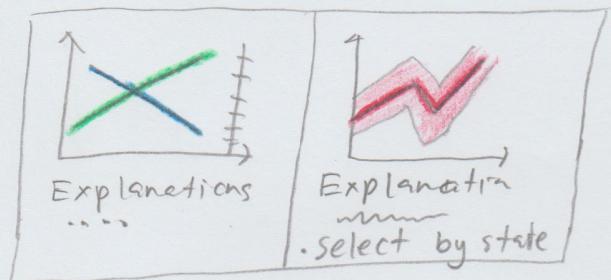
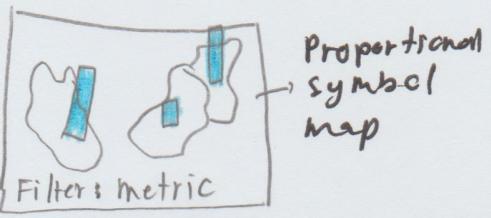
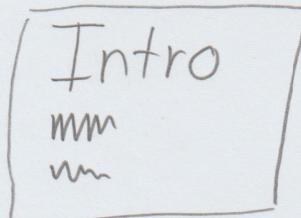
- Scatter plot
  - ↳ create a trend line to see correlation
  - ↳ making it easier for interpretation
- Line Matrix
  - ↳ can be changed to scatter matrix to see correlation between variables



## Question

1. Will it help in finding relations between poverty and unemployment?  
 → Yes through idioms
  - ↳ scatter & line charts
2. Where is more prone to unemployment or poverty?  
 ↳ choropleth and heat map

# Layout



Title : Layout 1  
Author : Abdul Rashid Anuar  
Date : 10/10/2025  
Sheet : 2  
Task: FIT3179 Assignment

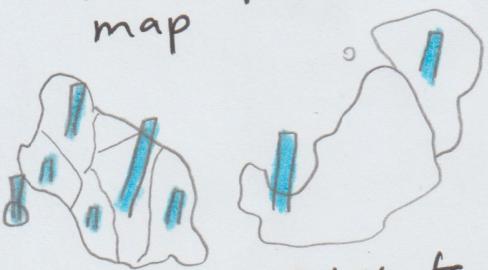
## Operations

↳ filtering by metric or state using dropdown

↳ Tooltip on each charts

## FOCUS

1. The Proportional symbol map



↳ allows viewer to see the distribution of each states across metric

2. Other charts
  - ↳ supporting the investigation of finding the relation between unemployment and poverty

## Discussions

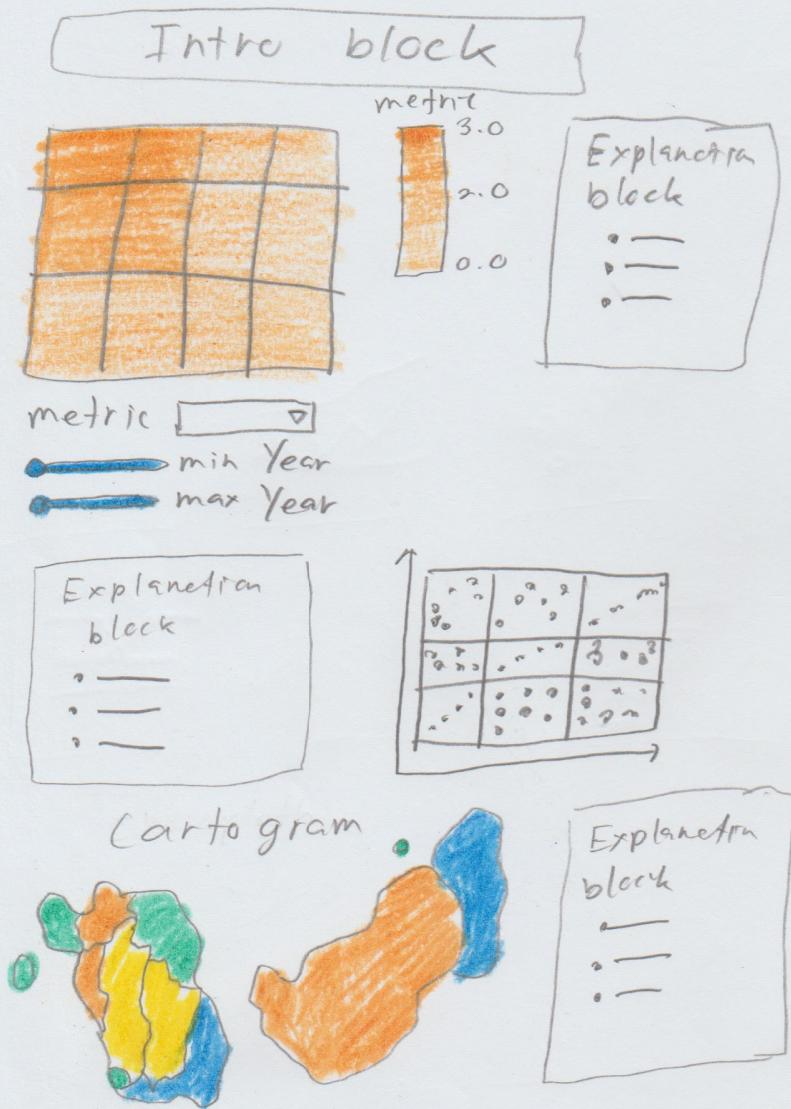
1. Balance and clear sight lines in visualisation

2. Maybe too blocky causing visual cluttering

3. Clear narratives

4. Is it possible to do the mapping on Malaysia's state? - need to check.

# Layout



## Focus

- Each explanation block plays a big role to tell key takeaways of the charts
- Scatter Plot matrix  
↳ to display all possible pairwise relationship between all variable

Title : Layout 2  
Author: Abdul Rashid Ahwar  
Date : 10/10/2025  
Sheet : 3  
Task : FIT3179 Assignment

## Operations

- Sliders to create a range of time period to observe the heatmap at a given range
- Dropdown to select preferred metric to clearly visualise changes between metric

## Discussion

- Visually pleasing with good cognitive flow as key takeaway allows user to understand the visualisation better
- May contain too much whitespace so can insert like facts or instruction how to use certain controls

# Layout

Title

Intro

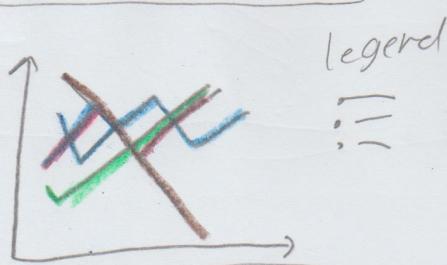
flow to use controls

chart title.

choropleth map

Explanation Block

multi-line chart

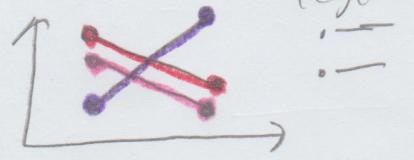


Explanation Block

legend



Slope chart

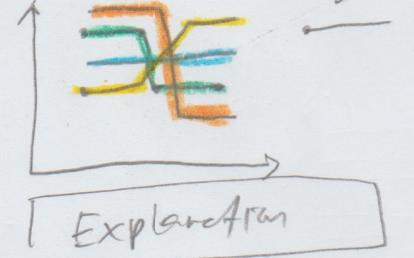


Explanation Block

legend



Bump chart



Explanation

## Discussions

1. Good cognitive flow from top to bottom

2. Is it possible to do in Vega-Lite to filter all 3 line charts with a single click?

Title: Layout 3  
Author: ABDUL RASHID ANUAR  
Date: 10/10/2025  
Sheet: 4  
Task: FIT3179 Assignment

## Focus

- The layout view top to bottom to show clearly which state is in needed for help.
- Slope Charts and Bump Chart to display which state has a high unemployment or poverty

## Operations

- The legend are clickable to filter the charts by state for all 3 charts after map
- colour schemes that are able to distinguish each state clearly

3. maybe the explanation block should placed on the right side or left side.

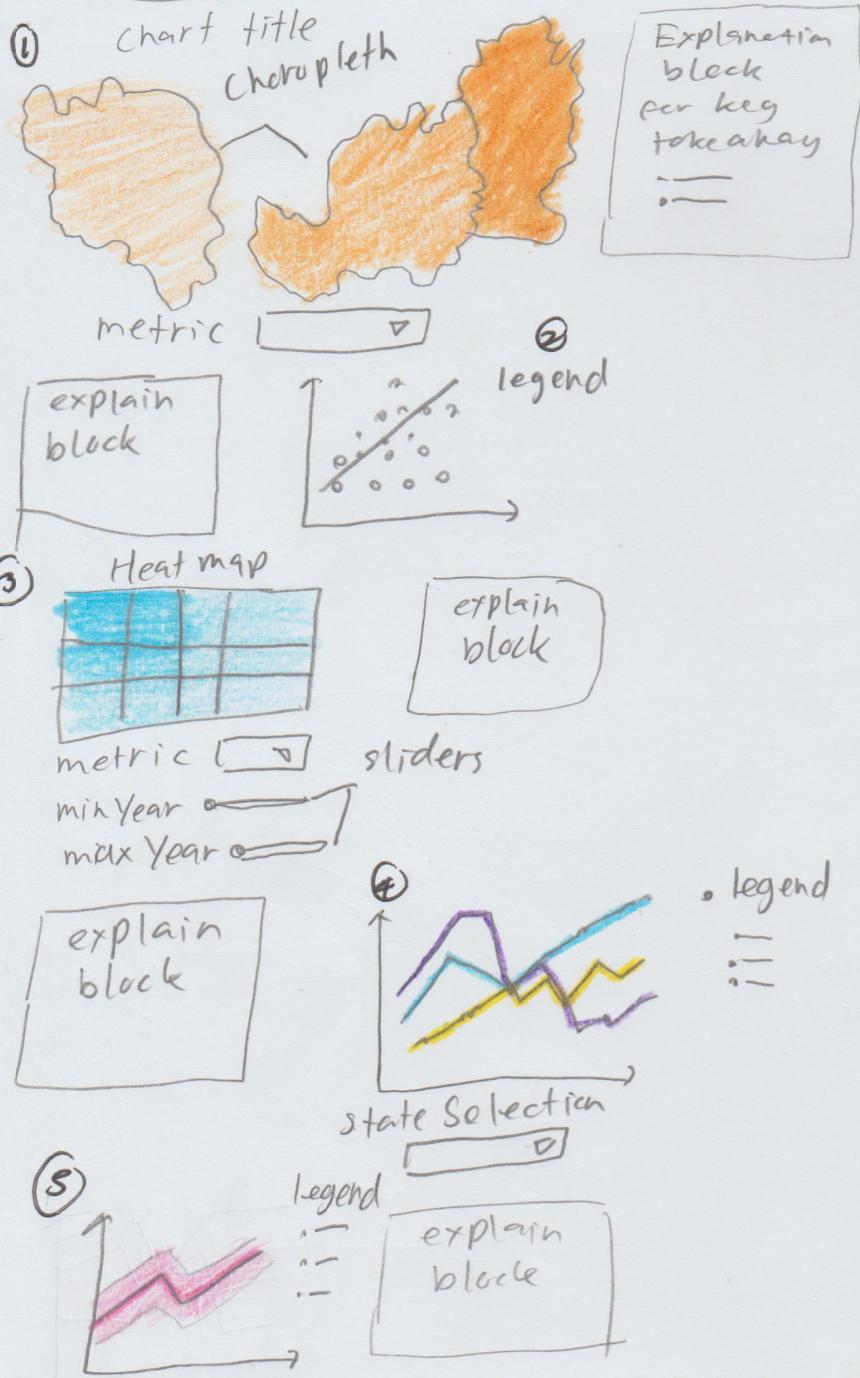
# Layout

**Bold**

Title  $\hookrightarrow$  high font size

Introduction Block

How to use controls



## Detail

- Data cleaning done using R
- Create the filters

## Time

- Create all charts :  $\sim 10$  hours in Vega Lite or 4-7 hours
- Create HTML :  $\sim 8-10$  hours or  $\sim 4-6$  hours

Title: Realisation  
 Author: Abdul Rashid Anwar  
 Date: 10/10/2025  
 Sheet: 5  
 Task: FIT 3179 Assignment

## Operations

- Filter operation should work properly
  - ↳ sliders
  - ↳ dropdown selection menu
- The height of the chart and explanation block must aligned to avoid spillage

## Focus

- Prone to explanation block to point out any key takeaway that able to find the correlation of poverty and unemployment
- Top to bottom and left to right or vice versa to showcase findings