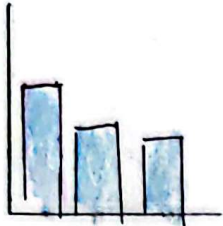
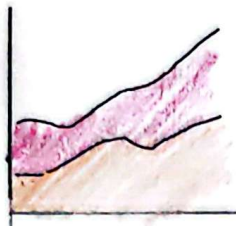


# IDEAS

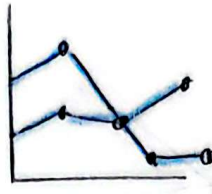
## 1. Trend



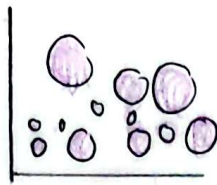
a. Bar chart



b. Area chart

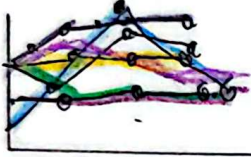


c. Line chart



d. Bubble chart

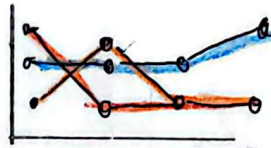
## 2. Comparison



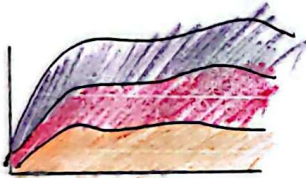
a. Multi line chart



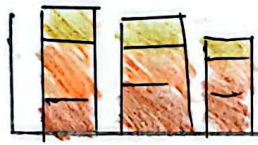
b. Heatmap



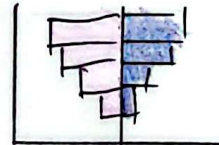
c. Bump chart



c. Area chart

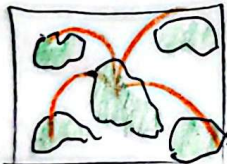


d. stacked bar

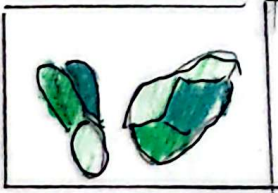


e. diverging bar

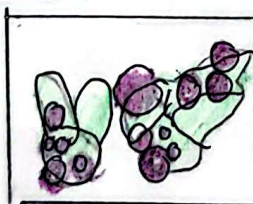
## 3. Map



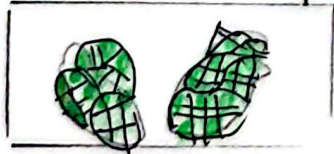
e. flow map



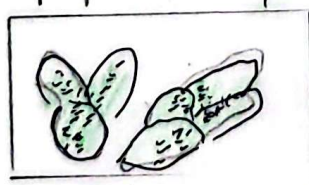
a. choropleth map



b. proportional symbol map



c. bin map



d. dot map



f. sunburst diagram

Title : Final Design Sheet  
Author: Aw Shen Yung  
Date : 19 October 2025  
Sheet : 1

Task : Generate idea ,  
filter, combine

## FILTER

1b. Area chart

2b. Heatmap

2c. Area chart

(Too many states)

3c 3d. bin map ,  
dot map

(not enough data)

## Combine & Refine

1. 2 line chart

combine to show comparison

2. 2 bar chart

merge to show comparison

## Questions

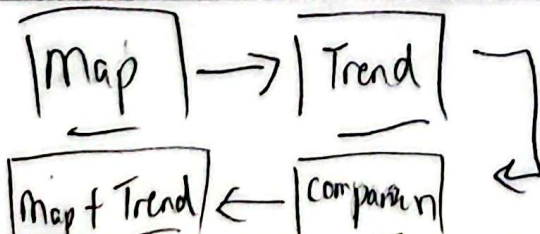
1. Does it answer  
research question

2. Does it tell good story

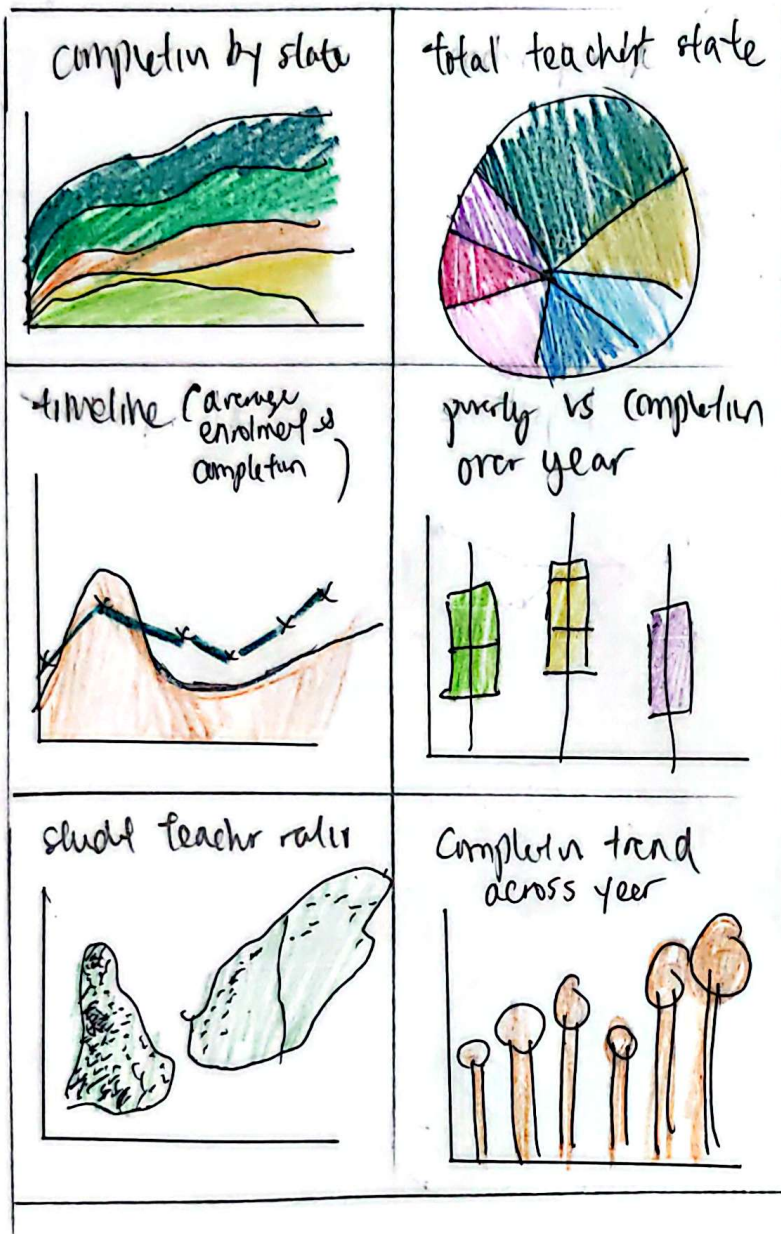
3. Is it engaging

4. Is this doable

## Categorize



## Layout



Title: Sheet 2

Author: An Shen Yang

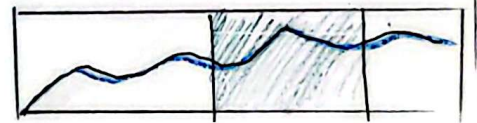
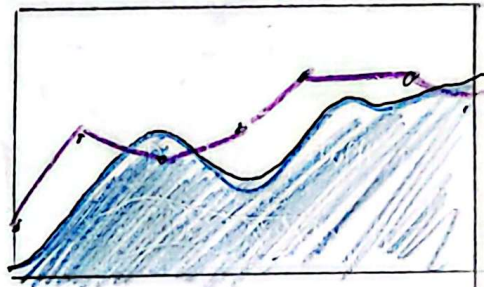
Date: 19 October 2025

Sheet: 2

Task: Narrative style

## Operations

Filter



(select to see year range to focus)

## Focus

All equally important. Start with educational completion to poverty.

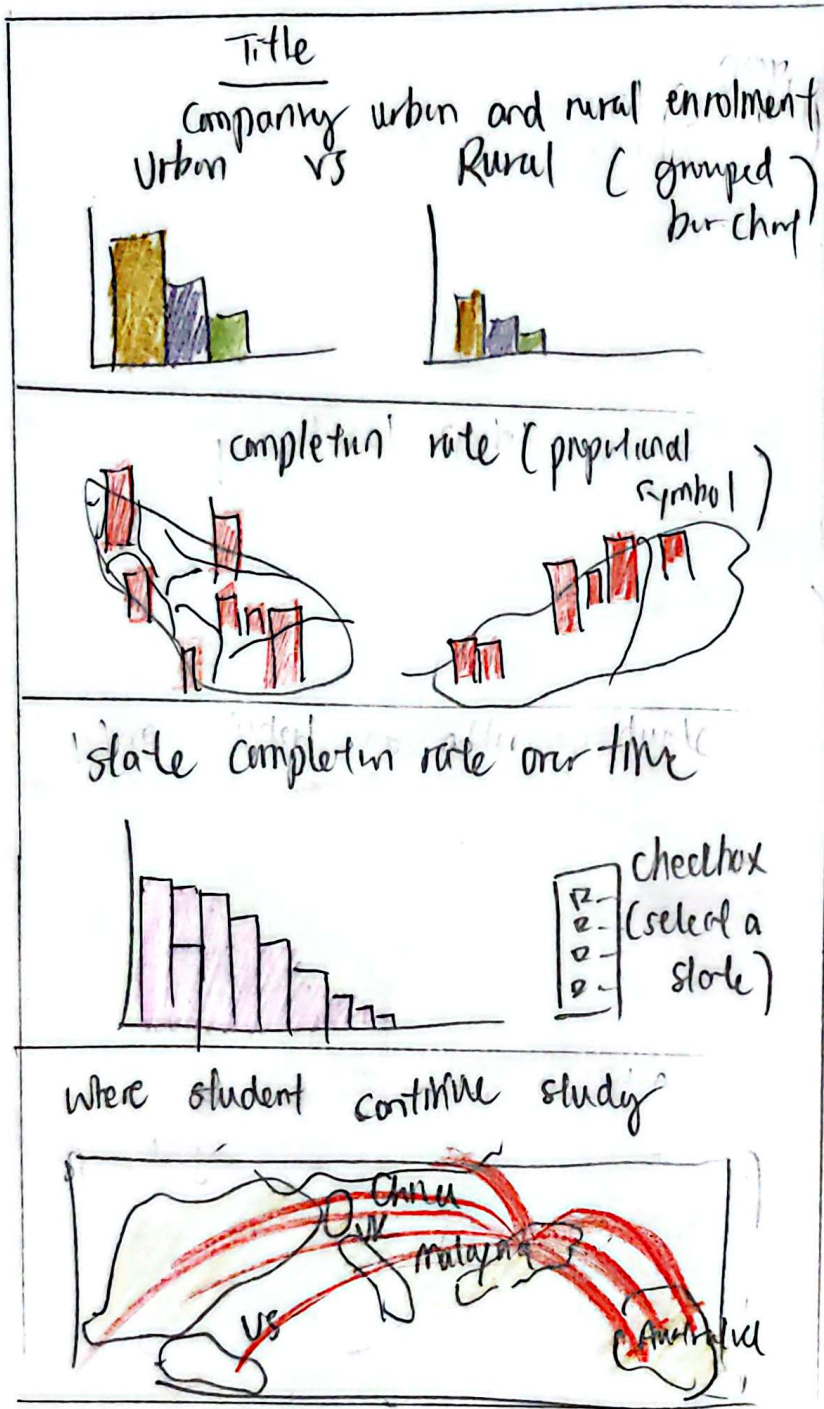
Then compare with resource (teacher & student ratio). And lastly refer back to completion to compare.

## Discussion

- Is it informative enough for story telling
- Is this the best idiom option



# Layout



Title Sheet 3

Author Aw Shen Yang

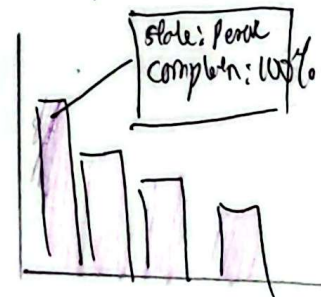
Date 19 October 2025

Sheet 3

Task: Comic style

## operations

Twotip details

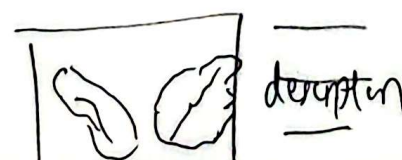
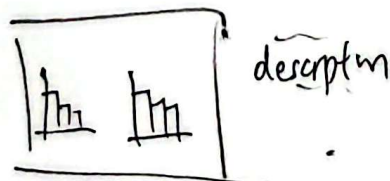


checkbox

☒ Johor  
☒ Kelantan  
☐ Terengganu  
☐ Perak  
☐ Pulau Penang  
☐ Perlis

## Focus

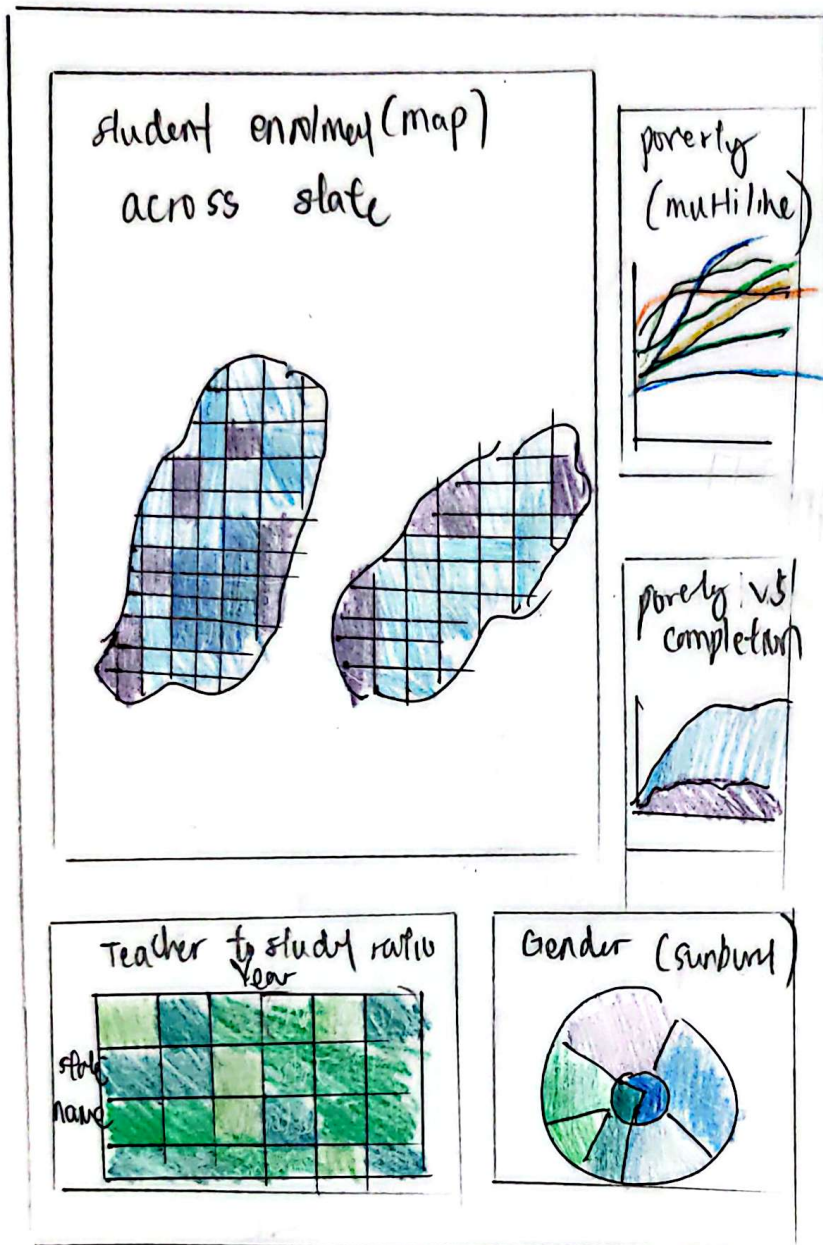
Every graph is equally important, focus with description



## Discussions

1. Does the diagram enough for styling?
2. Is it doable?

# Layout



Title : Sheet 4

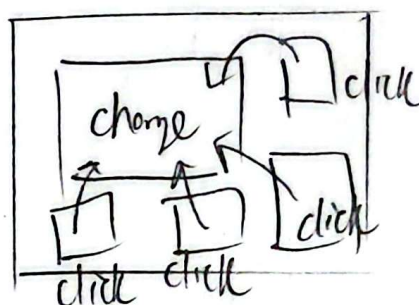
Author : Aw Shun Yang

Date : 19 October 2025

Sheet : 4

Task : Dashboard style  
(Interactive)

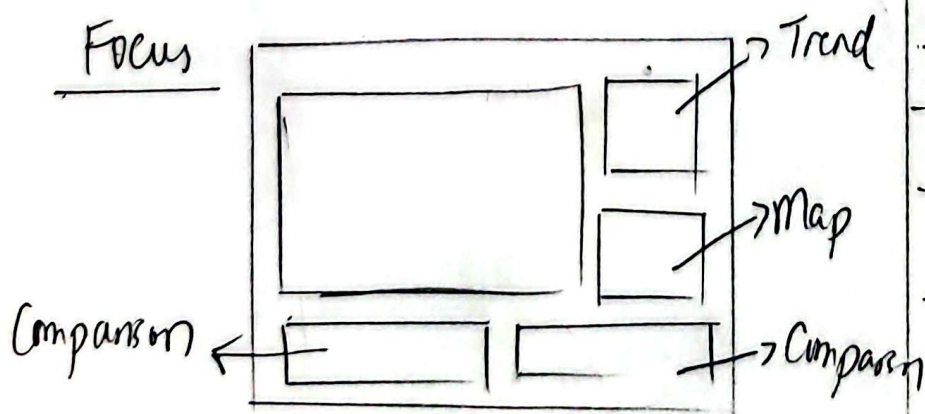
## Operations



Year slider

Year 2022

## Focus

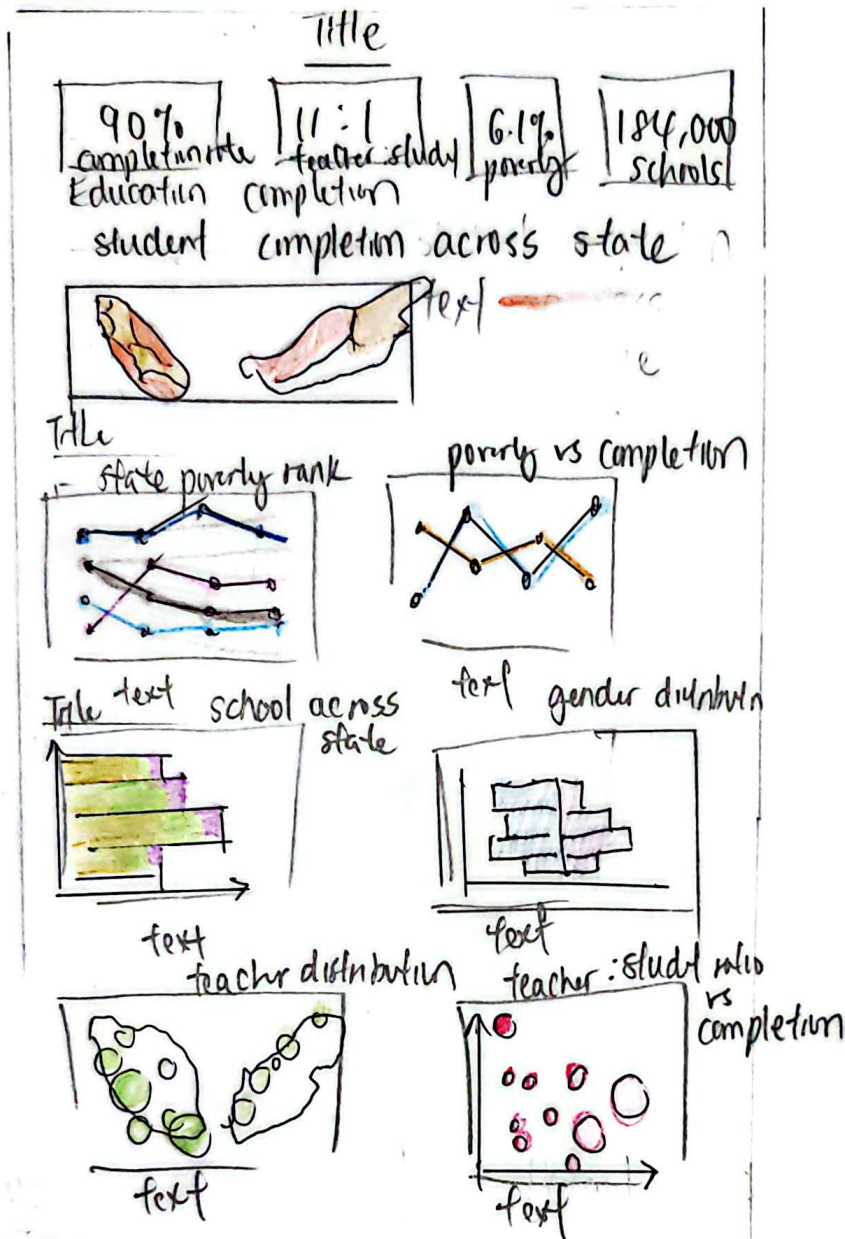


## Discussion

- Everything too compress
- is it doable
- is the information enough for storytelling



# Layout

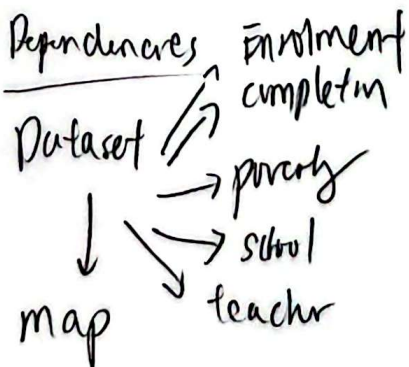


## Metadata

## Focus

focus on the first choropleth map, which show completion across state. Then focus second part, poverty, allocation and resource, then relate it back to completion

## Details



Implement using vegalite

must contain 7 visualisation including map. estimate 2 days (2hrs for SDS)

Title: Final Design Sheet

Author: AW Shen Yang

Date: 19 October 2025

Sheet: 5

Task: Final Implementation Design.

## Operation

### 1. Year Slider

Year 2022  
(From 2016 -> 2022)

### 2. Dropdown menu

Select state ▾
Selangor
Perak
Pulau Pinang
Selangor

### 3. Tooltip Detail

