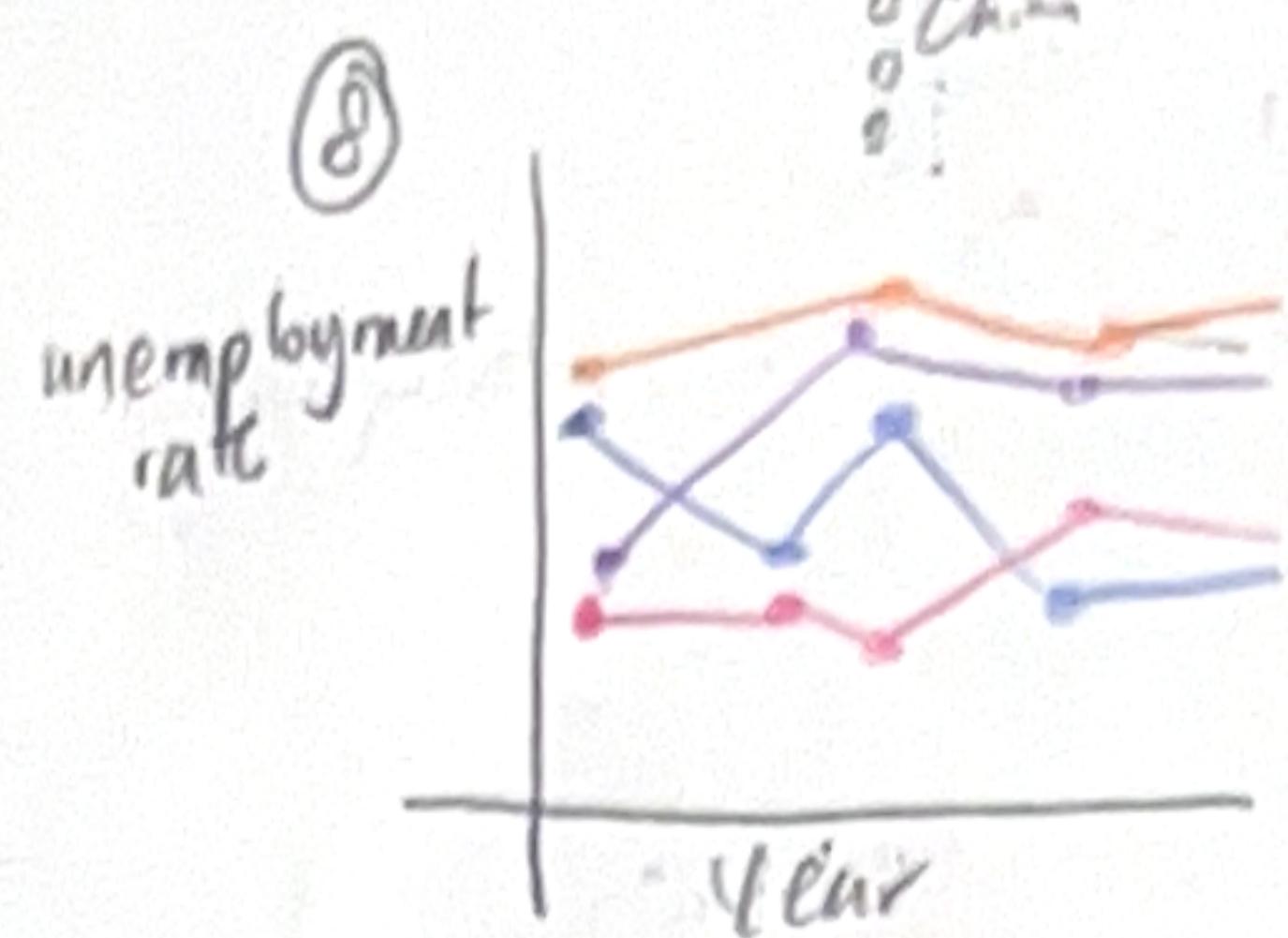
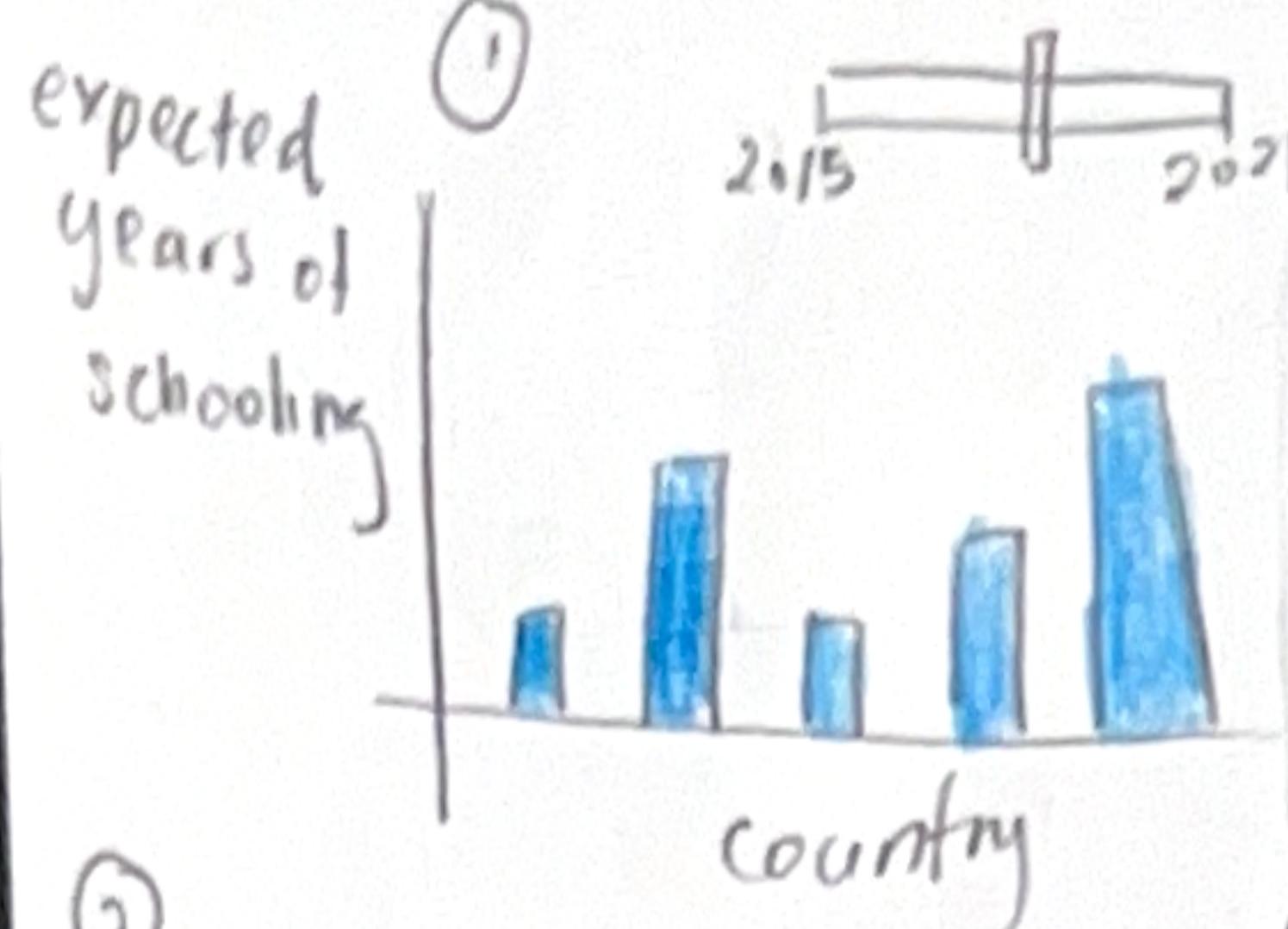


# Ideas



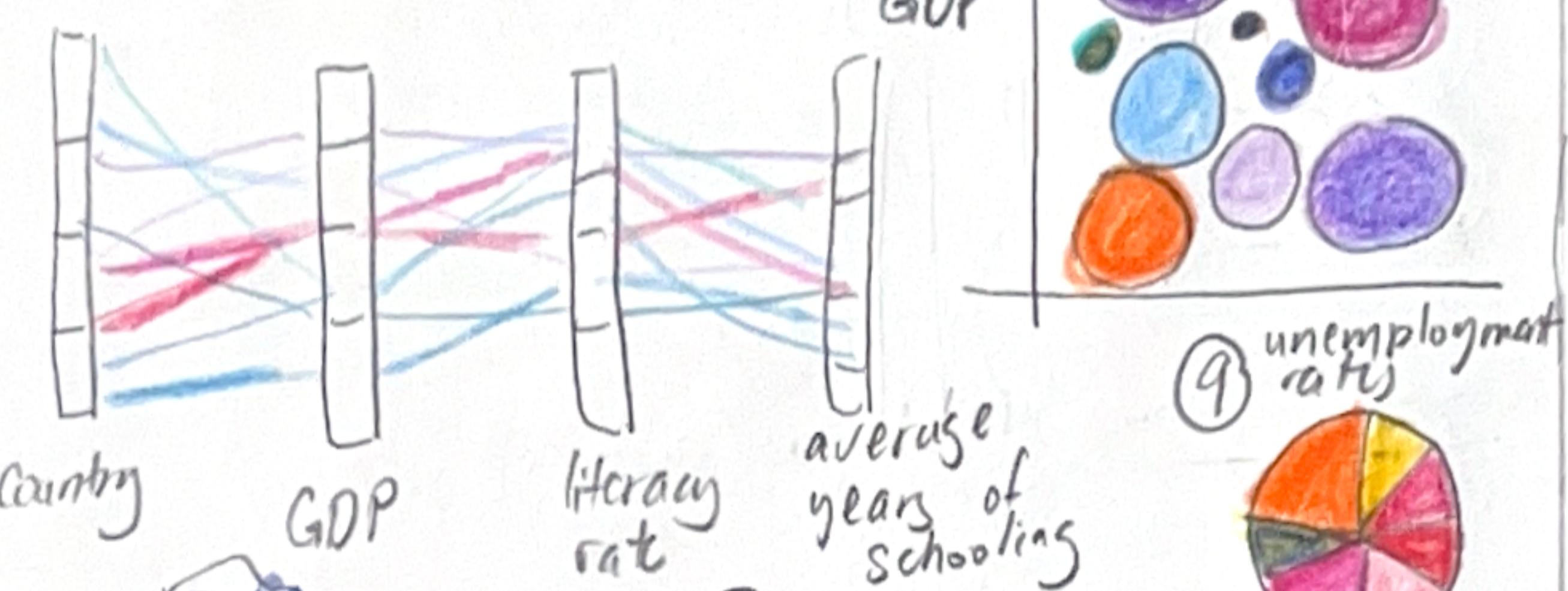
②



③ Primary-Secondary-Tertiary Education Enrollment



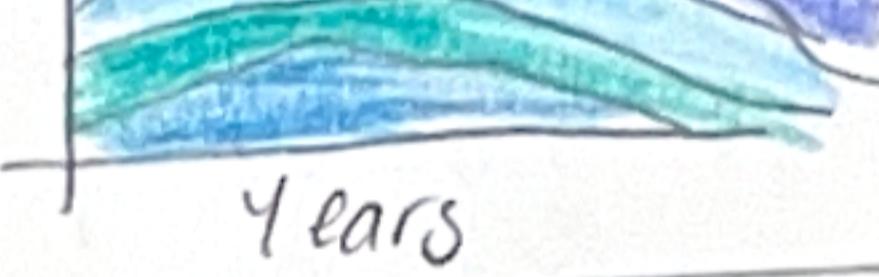
④



⑥



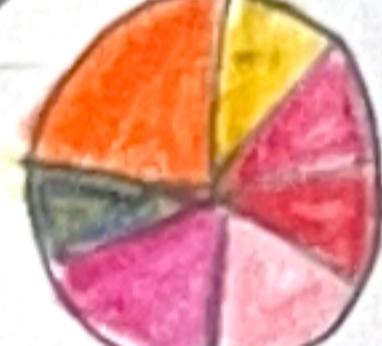
⑦ Harmonized Test Scores



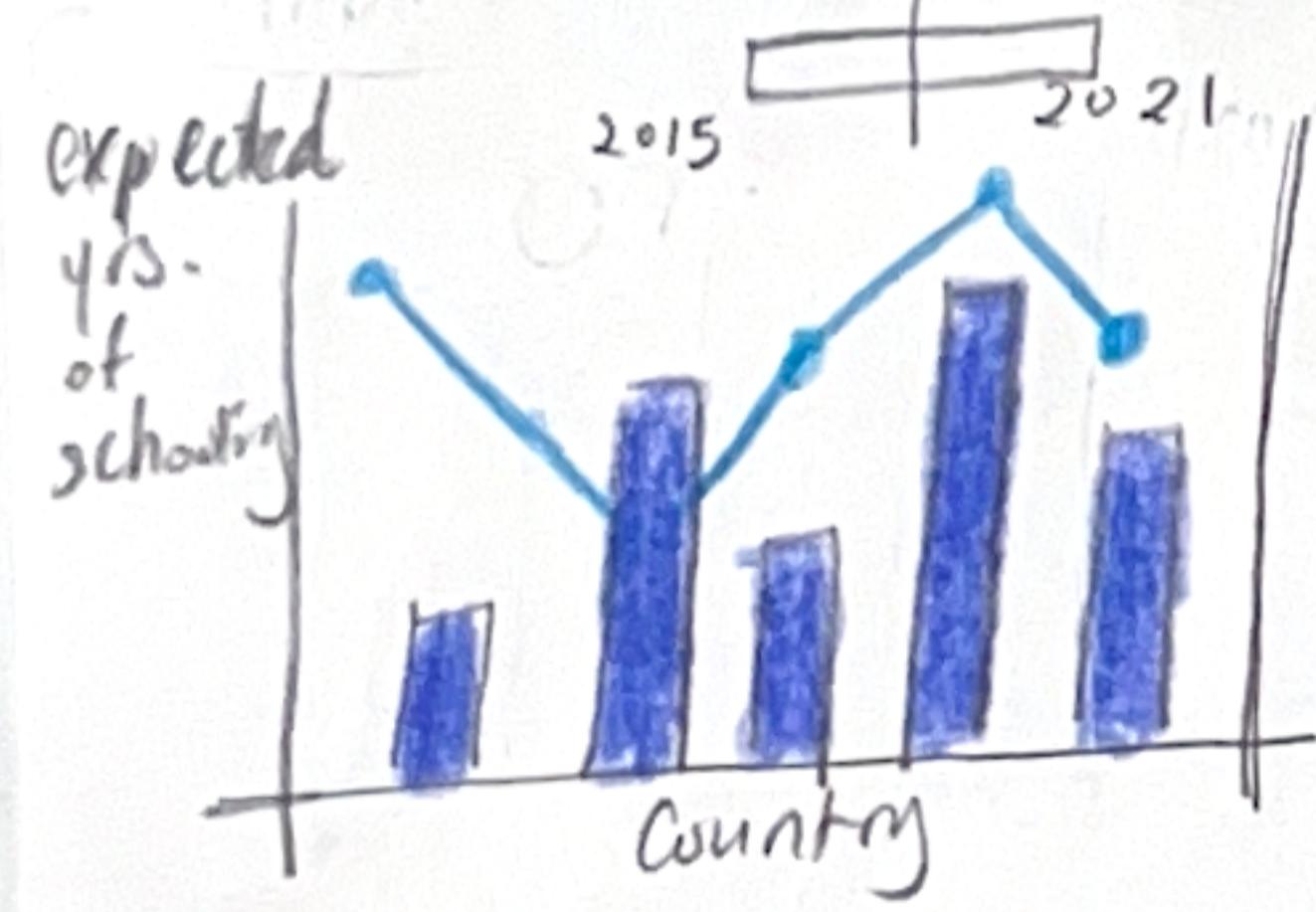
⑤ GDP



⑨ unemployment rate



## Combine and Refine



- combine ① + ⑧  
- year slider ensures only 1 line is on chart for unemployment rate  
- reduces overcluttering like ⑧ while keeping its information

Primary v  
dropdown to choose education level

Helps to reduce repetition  
Saves space on dashboard  
introduces interactivity

on click

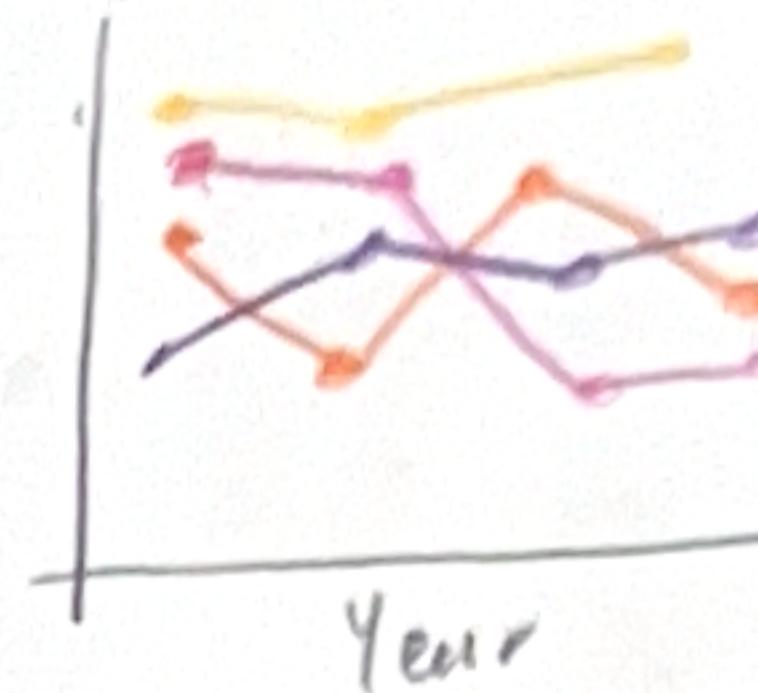
Tertiary v

## Filter



unemployment rate

Can be used if show top # countries...  
not very useful since global scale has too many classes to include visually difficult to read



- too many countries may cause overlapping lines, difficult to read. Not very useable or useful.

## Categorise (brief overview)

access to education

Harmonise scores of expected years of schooling  
Primary, Secondary, Tertiary Education Enrollment  
Spending on Education as part of GDP

has an...  
a form of socio-economic indicator

affection  
employment  
income

GDP  
Unemployment rate  
enrolled  
Tertiary  
Educated  
Secondary

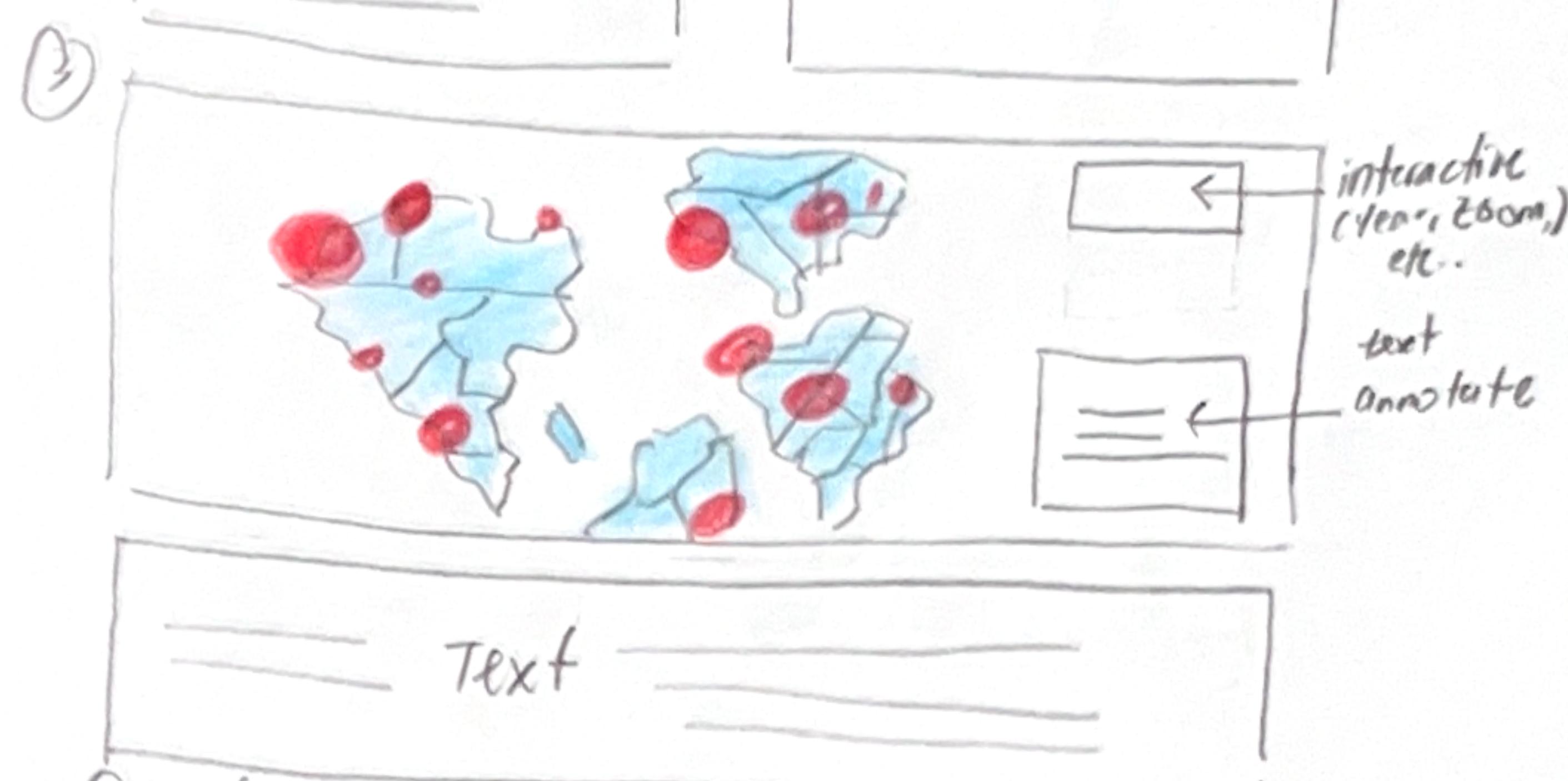
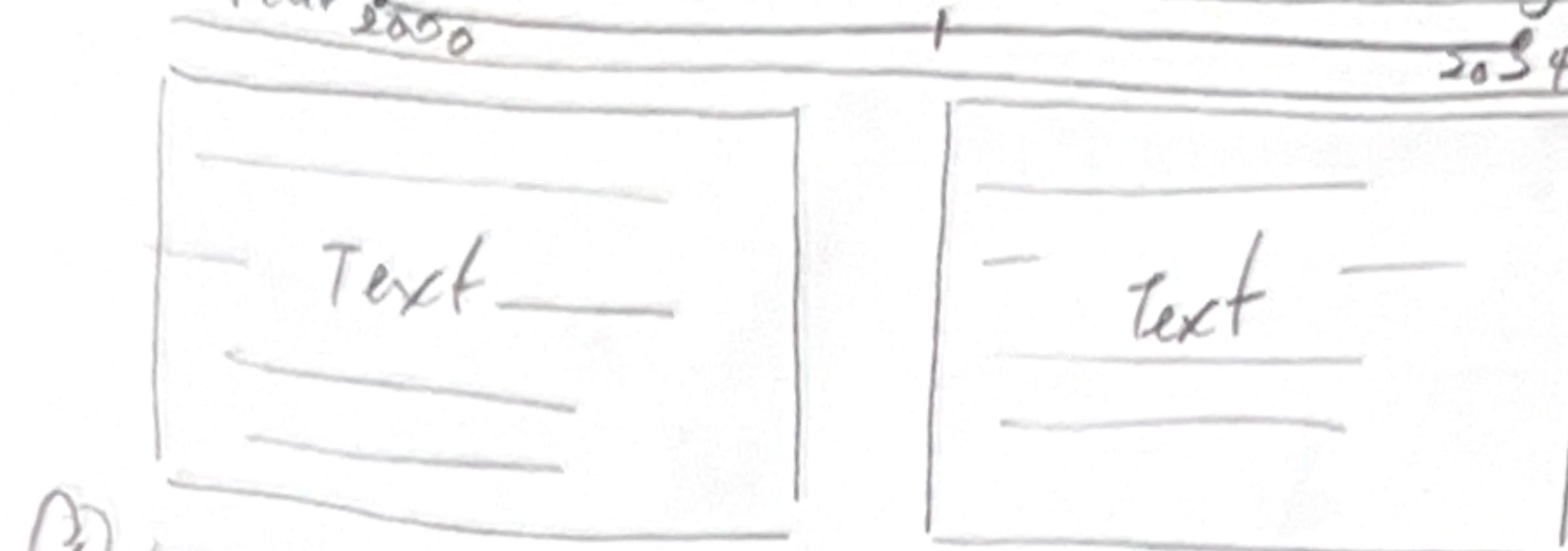
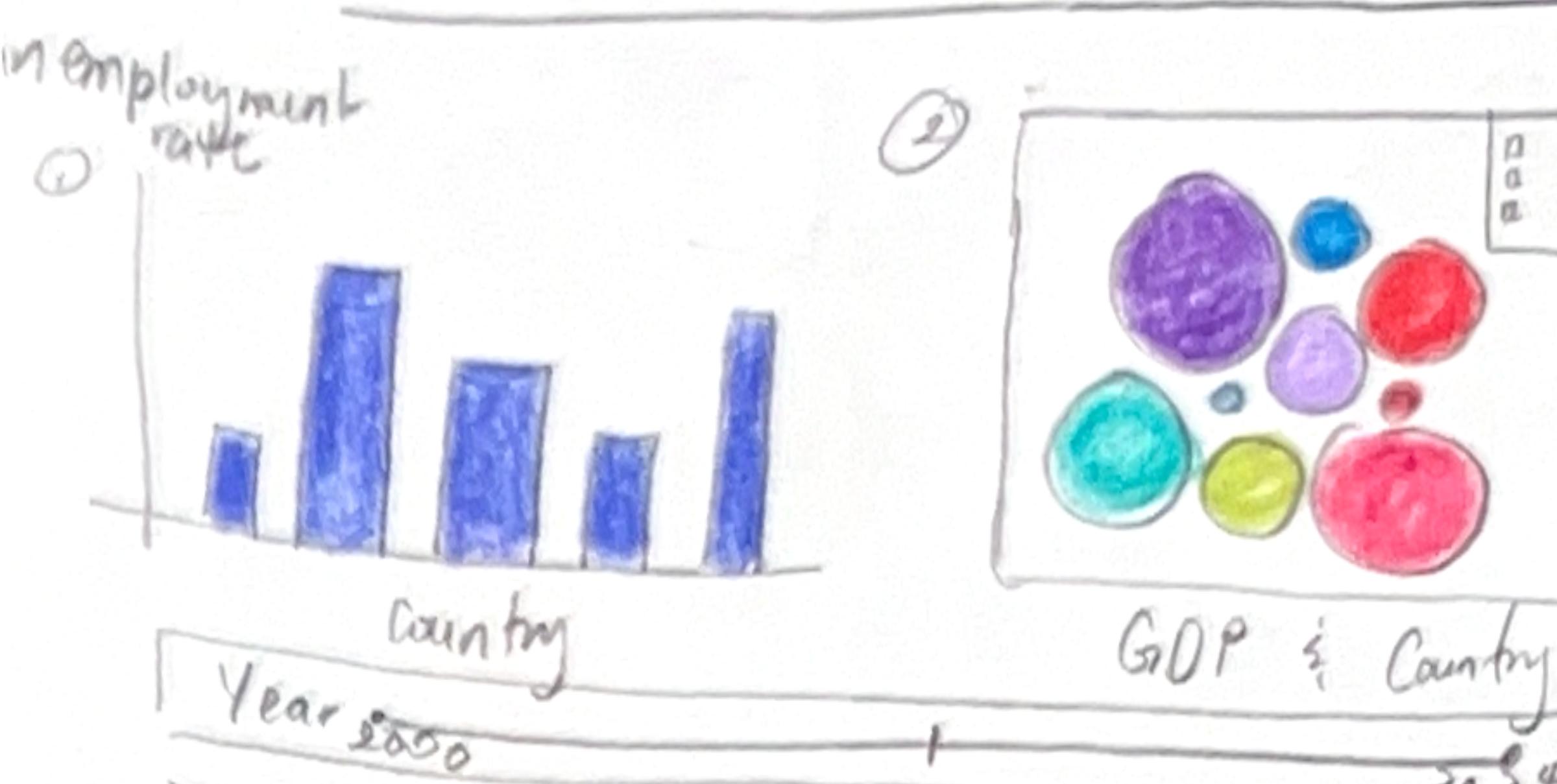
Quantitative - Population of (...) - GDP  
Qualitative - Country  
Ordinal - unemployment rates (ranked)  
- harmonised test scores (ranked)

## Question

- Is the interactivity doable?
- Are the visualisations a good choice in case some datasets have a lot of empty entries?
- Can the combine and refine ideas be easily implemented?

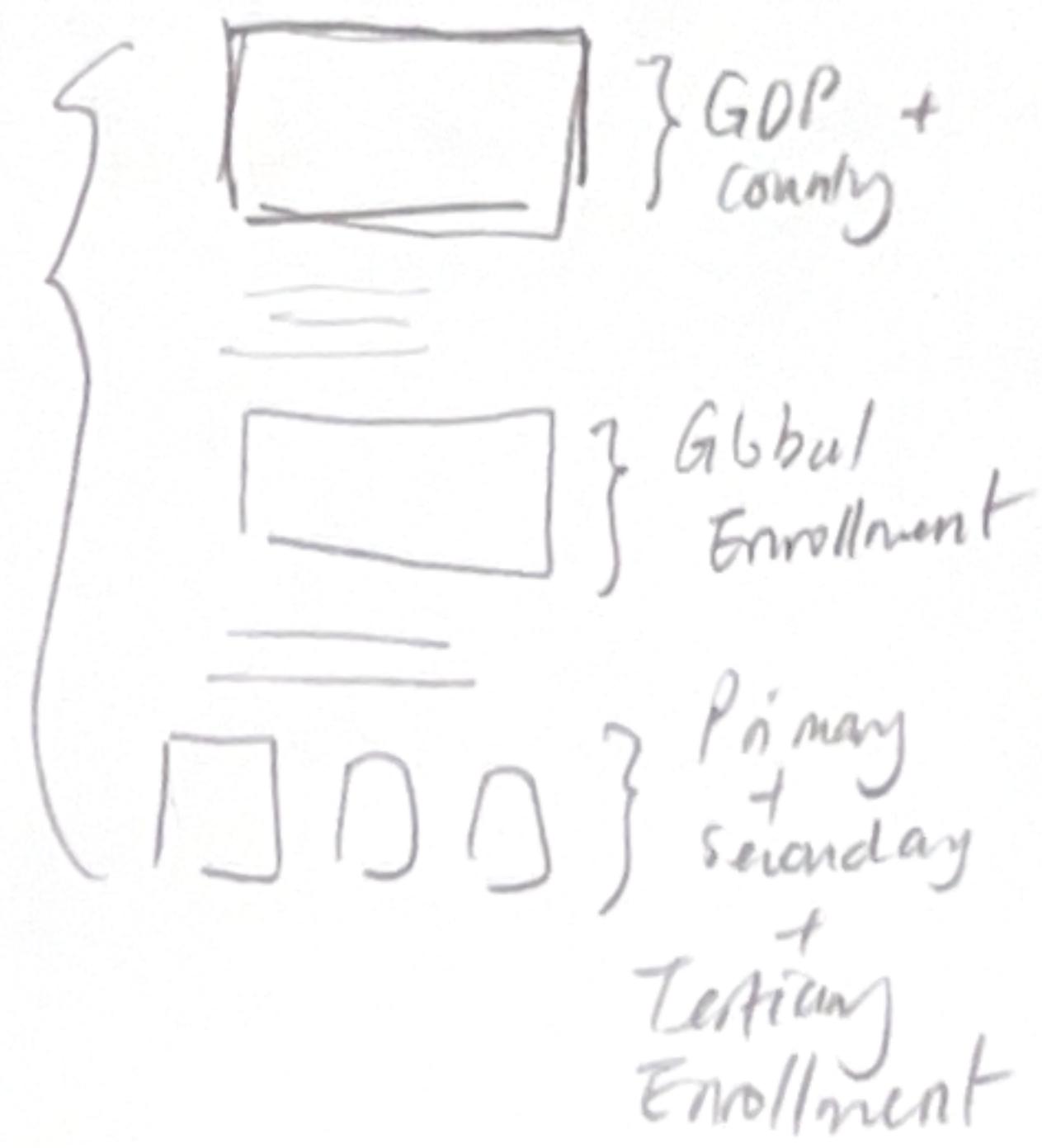
Lay out

# Global Education and Socioeconomic Indicator



## Focus

- All graphs have equal focus
  - Focus Organisation



Title Global Education and  
Socioeconomic Indicators  
by Mann

Autor: Erin Choi von Ley

Date: 5/10/2024

卷之三

Sheet 2

Task: visual

## Operation

② legend

③, ④ Year slider to display changes over time

- ③ zoom functionality
- dropdown functionality
- year slider

optional: ① = year older,  
zoom function

② Legend for different country.

(4) Year older

Teal tips /

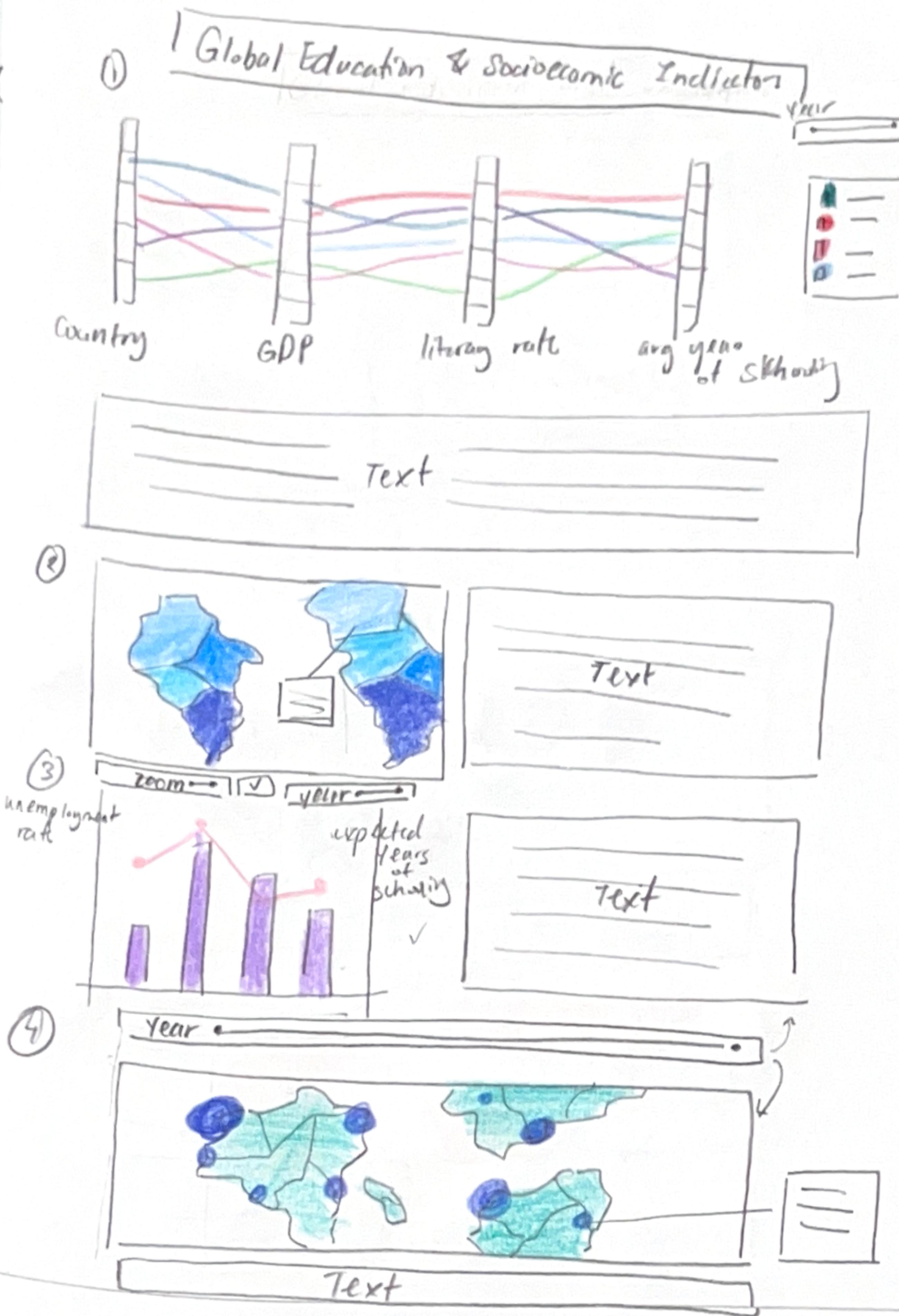
Annotations (Text) — ④

## Discussion

① Maps at the bottom  
might require more  
spacing or be organised  
differently since it's small

② Interactive slider for  
① and ② charts will  
require time and effort to  
implement since its connected  
via interaction

## Layout



## Focus

- All graphs equally important
- ① stands out to viewer because it conveys the most information
- interaction focus is heavy on the the lower half of page.

Title: Global Education and Socioeconomic Indicators  
Author: Erin Chee Yu Lynn  
Date: 5/10/2024  
Sheet: 3  
Task: visualize visualization

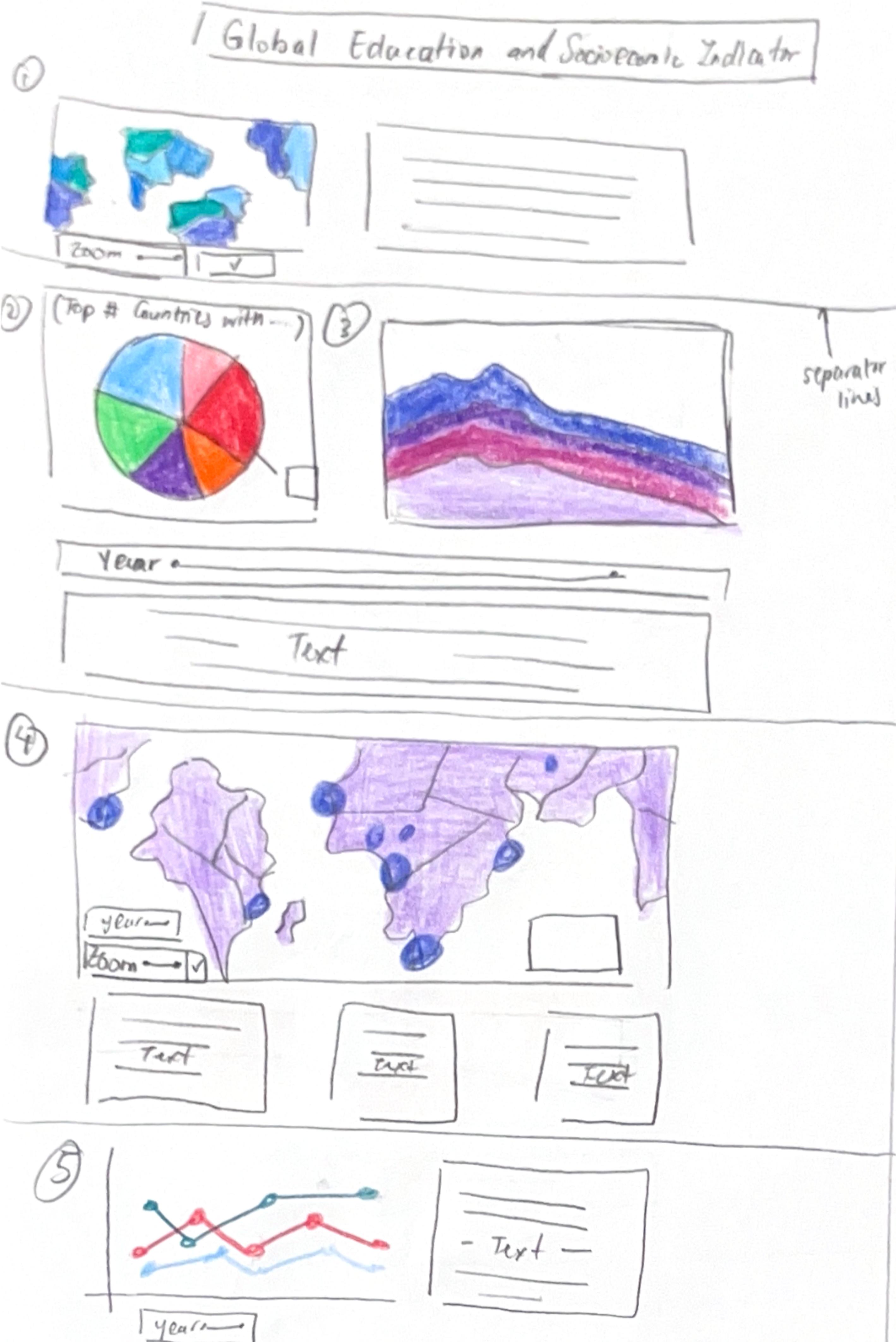
## Operations

- ① Year slider,  
Legend for countries  
Dropdown Selection,
  - ② {Zoom slider,  
Year slider}
  - ③ + ④ } - Year slider  
controls both  
- Bar-line chart  
changes according  
to year slider,  
and proportional  
symbol map also  
changes
- Tool tip: ②, ④ : displays population statistics.

## Discussion

- interactivity may be reduced to avoid clutter
  - ↳ can make annotations easier if remove year slider for some maps / charts.

Layout



### Focus

- all charts/maps equally important
- ① will stand out more as its larger, it also has more text and interaction

Title: Global Education and Socioeconomic Indicator  
Title: Global Education and Socioeconomic Indicator  
Author: Erin Chai Yu Lynn  
Date: 5/10/2024  
sheet: 4  
Task: vegatitive visualisation

### Operation

- ① Zoom functionality, Dropdown selection
- ② - Annotate on the largest class  
- legend
- ② + ③: year slider
- ④ Annotate based on key findings
- ④: Year and zoom slider with dropdown
- ⑤ Year slider

### Discussion

- Arrangement/layout has good balance of text / visual
- Reduce text for ② and ③
- interactions may be reduced for ① (just have dropdown) as it is already small.

## Layout



## Focus

- All charts/maps equally important
- organisation
  - { 1,2,3 } } (Top # countries which ...)
  - { 4,5 } } Map visualisations with heavy interaction
- ①, ②, ③ points out key findings. ④, ⑤ gives big picture view.

Title: Global Education and Socioeconomic Indicators

Author: Erin Chen & Lynn

Date: 5/10/2024

Sheet: 5

Table: vegalite visualization

## Operation

- ① Year slider
- ② Legend
- ③ - Annotate key findings
  - Year slider
- ④ - Year, zoom slider
- ⑤ - Dropdown selection
  - Annotate key findings
  - Tooltips

## Details

- All charts/maps are available via CSV.
- Minimal javascript should be required
- JSON file will require a lot of work → combine interactions
- Time: 1 week +
- Difficulty: Hard
- Platform: vscode / vegalite