

# Education Around The World

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M/2

A2-F05

Sheet 1

10/10/2024

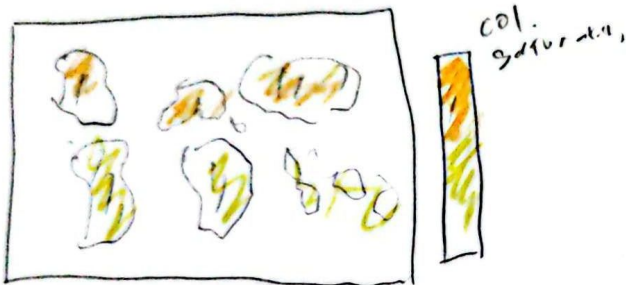
## Ideas

1. Literacy rates around the world
2. Meanly GDP expenditures, highlight top 5 and bottom 5 countries
3. Countries' school completion rate (primary, sec, tertiary)
4. Male vs female % literacy rate

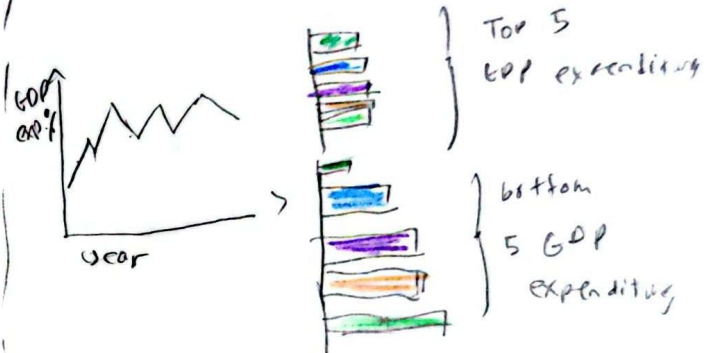
~~5. ~~Wage comparison~~~~

5.) Radar chart for comparison

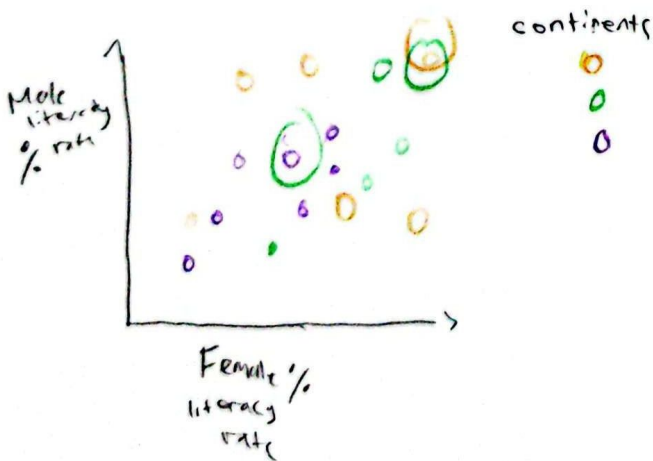
Graph 1



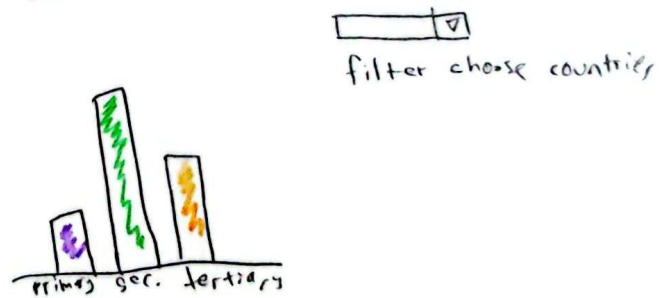
Graph 2



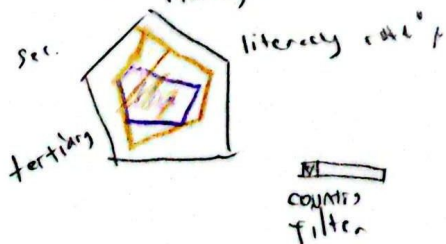
Graph 3



Graph 4



Graph 5

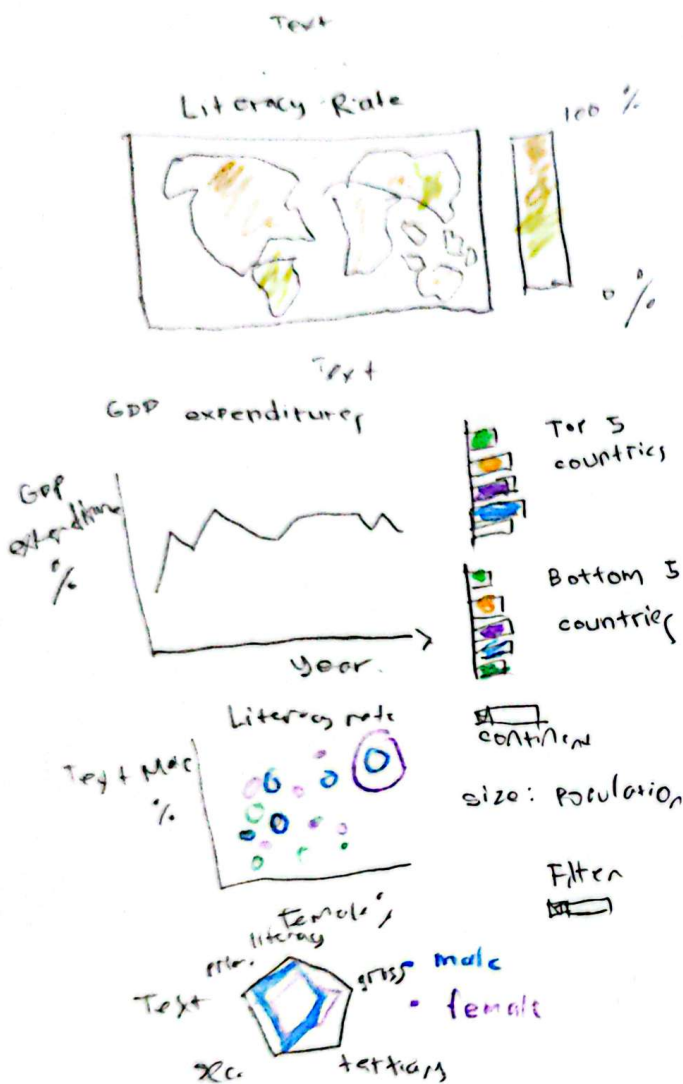


## Layout

Sheet 2

10/10/2024

Time: A2-FDS



## Operations

1. can use ~~filter~~ drop down filters to check for specific countries/~~continent~~ continents
2. Hover on areas/points for additional data

## Pros

- 1.) Simple and easy to read as charts used are common and fit well
- 2.) Can go into <sup>more</sup> specific details for certain areas via the filter

# Layout

Sheet 3

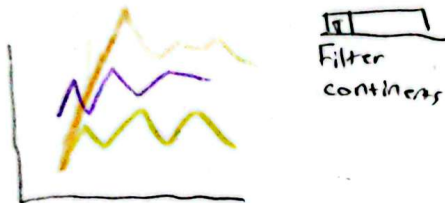
10/10/2024

Title: A2-EDS

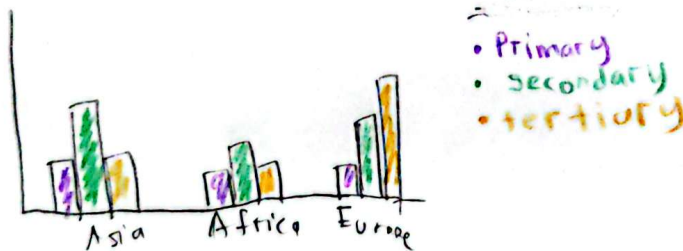
Literacy Rate Map



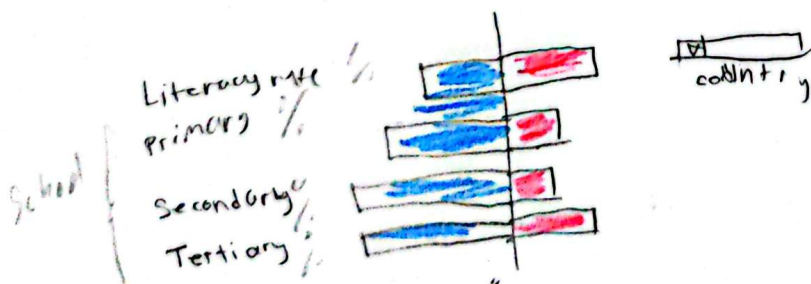
Mean GDP Expenditure



School completion rates



Male Female



## Operations

- Hovering over a mark will provide more data
- Filter allows selection of specific areas

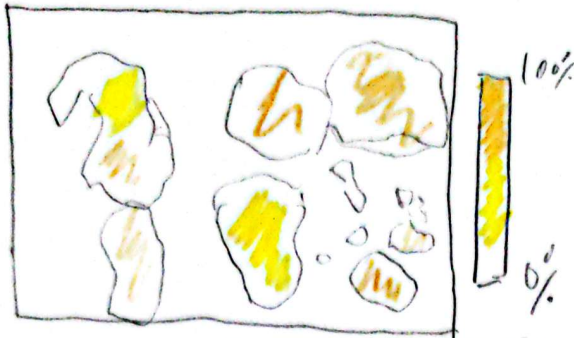
## Pros

- High focus on comparison between large areas (continents)
- easily comprehensible data
- simplicity

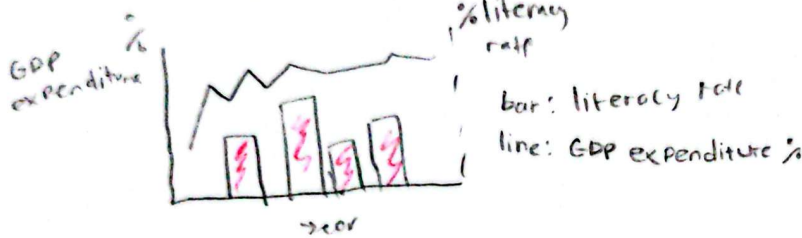
## Cons

- lacks comparisons for smaller areas (countries)
- lacks more complex charts

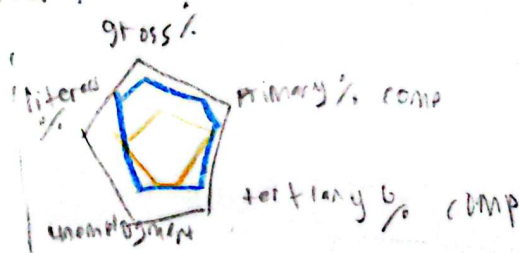
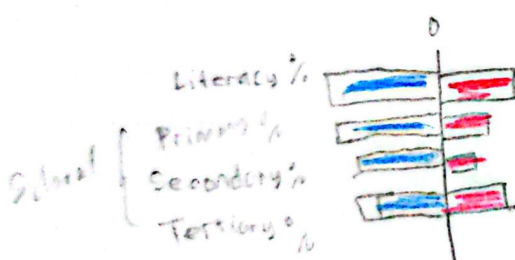
Global Literacy Rate



Mean Expenditure vs Literacy rate



Does Gender Matter? Does age matter?



~~Filter count~~

Operations

- Hover over maps for more data
- drop down filter for more specific area data

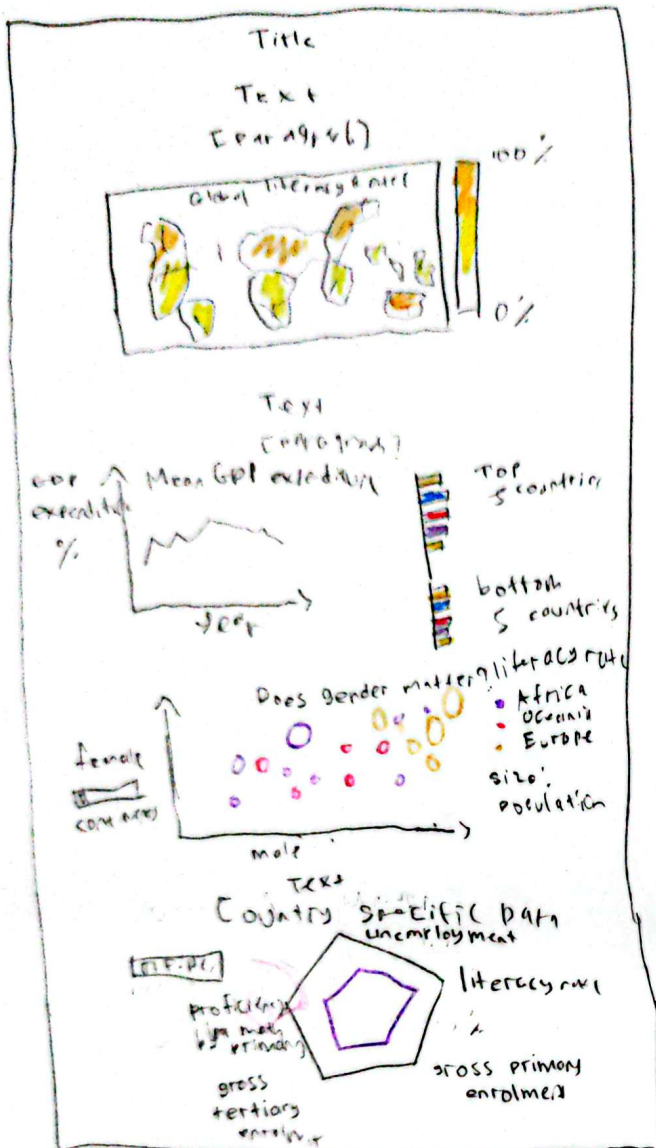
Pros

- see correlation of expenditure with literacy rate
- detailed comparisons between groups through usage of filters

Cons

- Hard to compare between <sup>data</sup> countries
- can be overwhelming





## • Map:

- choropleth map
- when hover shows: literacy rate, count, last year recorded
- color saturation shows literacy rate

## • Line:

- shows overall mean GDP expenditure throughout the years
- bar charts show for 5 and bottom 5 countries

## • Scatter Plot

- plot each country's:
  - x-axis: female literacy rate %
  - y-axis: male literacy rate %
  - size: population
- has filter for continents

## • Radar Chart

- literacy rate %
- unemployment %
- gross primary enrolment
- gross tertiary enrolment
- math proficiency by primary
- has filter for country

## Details:

1. Vega-lite, GitHub
2. Time to build: 5 days
3. datasets:
  1. data world bank
  2. our world in data
  3. Kaggle