

3

Stotes

Rate

Age

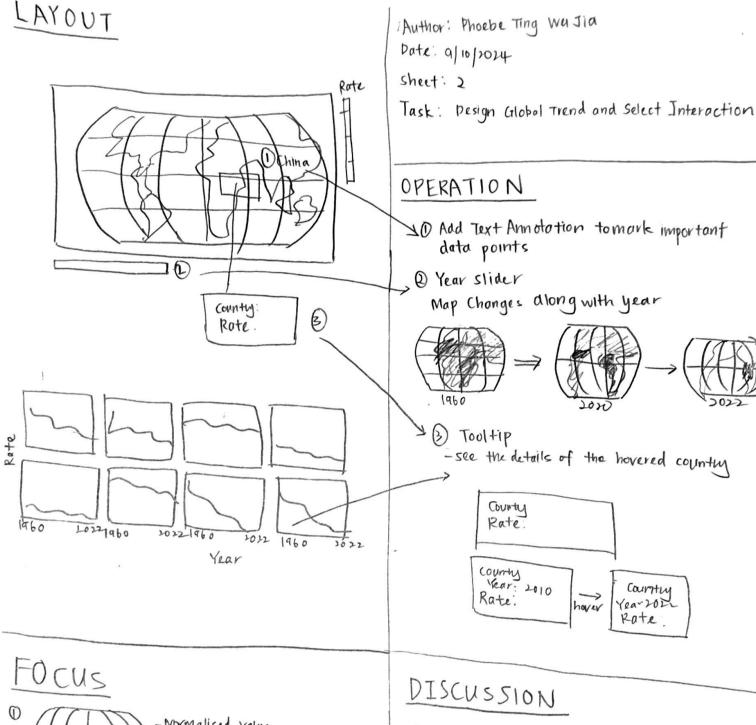
# - Poesmy visualisation present a clear and interesting

Questions

Interesting Facts

Patasets and show Trends of Fertility Rate in Malaysia - story - soes it have a appropriate level of interactive exploration

- Is there any chart too complicated to understand?

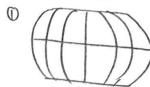


## Advantages:

- -clear visual stoutelling
- -consistent layout
- use of color
- descriptive titles, immediately let users know nhot each section discusses
- annotations making madatamore acceptible and easier to understand

#### Disadvantages:

- potential overlaping
- may ovarwhelm user with too many grophs shown at once

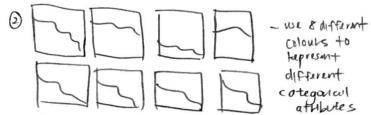


-Normalised value we use sequential colour scheme to represent the quantitative

- select proper omount of threshold

yearslider

- important interactive elements



- choose the most with ulsualising ooun-tiles
- from different continent
- -different history, polictical issues, and family planning

LAYOUT

minimum population

Continent selection

Duration (Year

Author. Phoebe Ting Wa Jia

Date. 9/10/2024

sheet 3

Task: Design Factors that wight Affect Fertility Rate & Interesting Questions

## OPERATION

minimum population

determine the B varge of data to usualise

slide right and filter

color of the selection

calcet from T continents

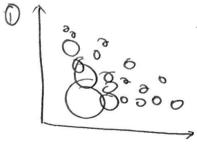
to see particular data of Continent selected

Asia

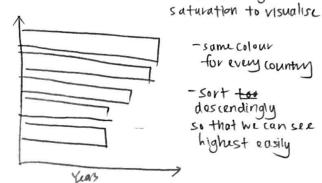
Africa

#### FOCUS

0



- different size of bubble and represents different population amount
  - select different (olour for categorical attributes
- male sure highs saturation to visualise



## DISCUSSION

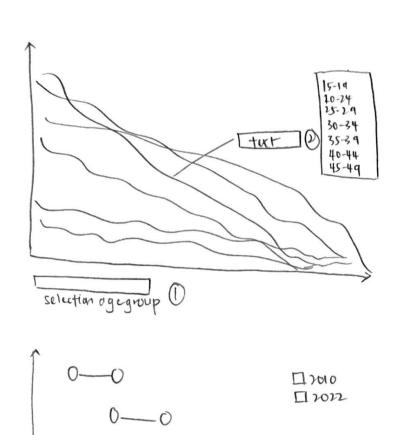
#### Advantages:

- Clear relationship representation show hegative correlation poturen factor and furtility rate
- Interactive filters to explore data from different angles

#### Disadvantages.

- scale misinterpretion for loganthmic scale
- clustered long lists, if it is larger datasets, there bar chart might become cluttered and difficult to scrool through

## LAYOUT



Author: Phoebe Ting Wel Jla

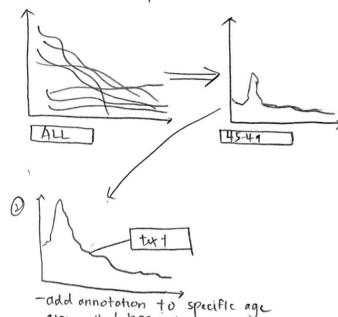
Date: 10/10/2024

Sheet: 4

Task besign graphs to visualise the structure or trend of furtilityrate of Malaysia

#### OPERATION

(1) select age group



-add annotation to specific age group that has interesting patterns

- find the reasons behind it and annotate it

## OCUS

stotes



- choose different colour for different categorial attributes

Fertility Rate

- make sive the lines are not too Overlapping

- filter to see the specific agregioup trend



- choose two different opposite hue for the thoyears

- not green and red - not frundy for colour Hind

#### DISCUSSION

Advantages

-clarity in presentation, structured format and present data clearly

- ease of comparison, fertility rate are Visually distinct, straight forward to compare

Disadvantages:

-complexity for general audience

- limited untext

- 11 meted interactions

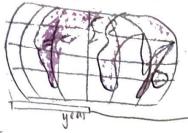
-should proude additional context

## LAYOUT

Worldwide Fertility Trends And Malaysia's Story

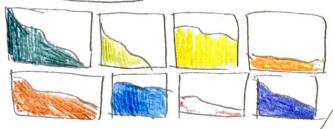
How Does Fertility Lang Across our World in 2013

text description

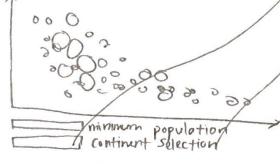


Fertity Rate Trends Across 8 Nations (1960-2022)

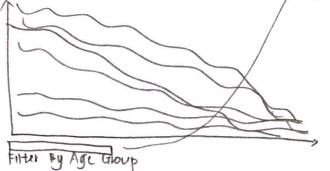
text ducuption



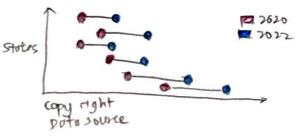
Poes Economic Growth Affect Futility Rates?



How poes Fertility Rote lay by Age in Woloycia?



How Has Fertility Rate Change ACross Malaysia over the perades?



Author Phoebe Ting Wel Jia

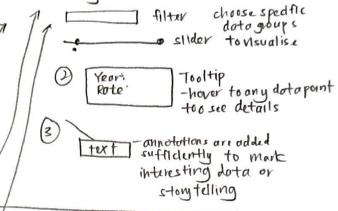
Date: 12/10/2024

Sheet 5

Task: Final Implementation Design

#### OPERATION

1) Interactivity



#### FO CUS

-choose appropriate color for different -> quantitofive : sequential colour scheme La qualitative value: hue colour scheme

- make sure data points are chosen with appropriate colour

- some color may be too hard to see

- some size of dota points should rang obviously to observe patterns

- choose appropriate interactivity for every graphs.

#### DETAIL

- data will be preprocessed to ensure it is in a suitable format for visualisation

- in exal or using pandos

- doshboard created using vego lite and use Python pandos for dota deaning and appropriate piroted before plotting graph using vega lite

- Github Link and Github Repository are acessile via web browsers ensuring cross platform compatability

- Estimated Time.

-software Github, web brows or VS code

Li pota Preparation. 4-6 hours Ly pash Board Deign: 10-12 hours

Ly Interactivity Implementation: 4-6 hours

Lo Testing and Refinement: 3 hours