# Periving Attributes

Title: Visaglization 2 FDS

Author: Justej Singh Gill

Date: 16/9/2024

Sheet: 01

Datasets Grouped by State (2007-2022)

> Normalised with population by Stake

mean-income (autrage monskly household income) Household Income - median\_income ( median gross monthly income)

powerly-absolute (proportion benow PLI)

Poverty Rate

poverty-hardcore (proportion below FPLI)

Relative poverty Rose ( intome below median state in

Total Fertility Rak (TFR)
(yearly)

- Find correlation with TFR, study trends " Identify reed for change, demographic colo - Need for New Folicies, economic development

Inboar fora Size (Employed + unemployed)

Employment fase by Sex \_ labour Force employed

Total Fertility 9 = Number of employed population Must be narmalised

lapour love animplosing

unempayment rape (unemployed: labour force sze

employment ravial employed: Working age popula

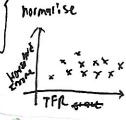
Bubble Size represents

Bubble colour represents astrage household income

O Employment State

#### Fillter

1) Total Fortility Rade by





(3) Household income + POVICTY LAN

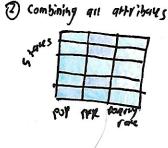


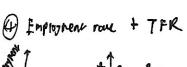


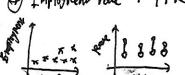
Gussions Does this show after

POVILTY & TER

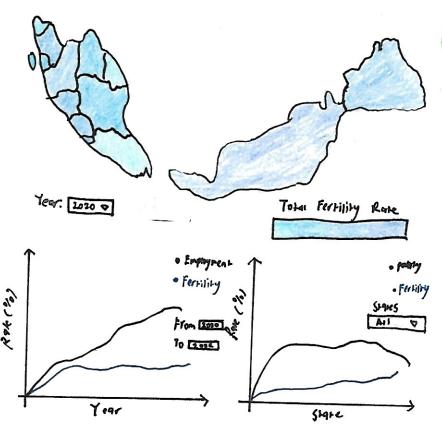
- State Does this show portry & inforc in ever State to suggest compares







# Layout



# FOC45

Map Toolrip



State: Pahang
Fertility Rate: 4.2
Population: 9,000,000

Map Your Solect

2020	<b>\( \rightarrow\)</b>
2019	
2019	
2020	
1021	
2022	

All A
Selonger III
Pelong III
Kedoh III
Kelonkon III
Sabah III

State Select

Title: Visaglization 2 FDS .

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Sheet: 02

#### Operation

- Map is a Chloropleth map used to show the fertility rate of each state using TFR which is hormalised to the population number
- User can select year to display TFR which Vill allow them to view changes over time and draw comparison between states
  - User can select which squee to include in poverty and fertility line chart to display poverty and fertility in specific stores
  - Employment and fertility rake against time shows down combining all states to highlight Correlation between the two which can be filtered by selecting year range

#### Positives (+)

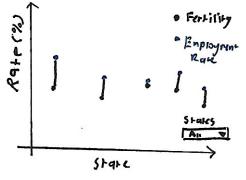
- User can customise Visualization by selecting Jear, year range & state
- Map tooltip 9110w user to view scaristics for each
- Part (%) against year show direct correlation between

## Negatives (-)

- Rak (%) against stake can be better Visualized With a map chart
- More insight can be added by including howerhold income statistics
- Line thank may not be the most expective to compose emptyment & fertility races

### Layout





#### FOCUS





State: Pahang

Poulsty flow: 7.6%

Median Insore: RM 2,500

Population: 9,000,000

Map Year Solect

2020	4
2019	
2019	
2020	
202 1	
2022	

Stare Sourt

AIL	•	
Schongor	딘	
Pohony	Ø	
Kess	N.	
Kelamon		
soper	rosi.	

Title: Visualization 2 FDS

Auchor: Jussej Singh Gin

Dare: 17-18/2024

Sheet: 03

#### Operation

- Chloropieth map used to disping poverty
- Bubble size is used to represent the median income of each state
- Lollipop chart is yest to show direct comparison between tertility and employing races to showcase their relationship
- · Toolkip for each state shows exact povery
  - User can sever Year and Stave in map and lollipop Chart Tespectively

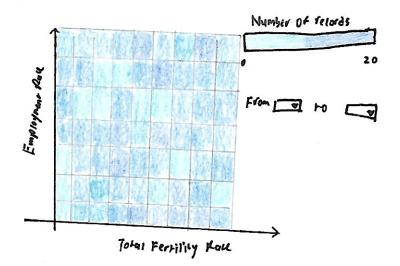
#### Positives (+)

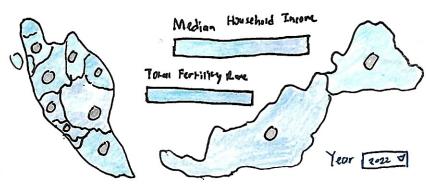
- -Lollipop Shows direct Comparison between fertility and employ here raws to see how one attribute affects another
- Bubble Size indicates median income to anow map to fulilitate comparison of median incomparison of median income to anow between successive comparison of median income to an ordinary comparison or median income to an ordinary comparison ordinary c
- User can lastomise stak & year

#### Negatives (-)

-Bubble colour is not used and can be added to convey additional information

# Layout





#### Focus

Map Toothip



State: Pahang

Total fertility Race: 7.5° 10

Median Household Income: RM 2, 800

Population: 8,000,000

Year seach

2020	A
2019	
2019	
2020	
2021	
2022	

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# Operation

- -Histogram hearings show number or Stake entries for each (e)
- User can select specific range of years
  to display records
- Bubbles on map are Equally Sized
- Colour of bubble & may show hospital income and the ferrility race respectively
- Ver can sever year to display dara

#### Positives (+)

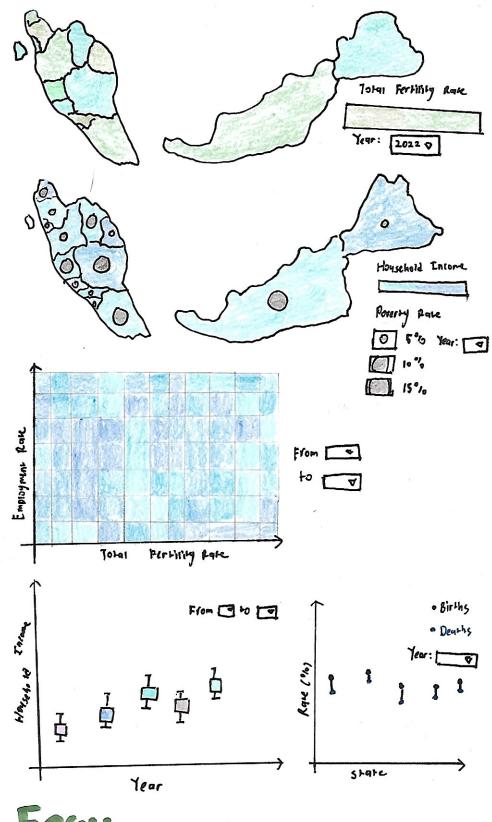
- (orderion between total ferritity race and employment race are exteriorely highin Using 21) histogram hearmap with colour representing number of some entries
- Colour on bubbles effectively contrast with colour on map to facilitate comparison

   User can customise years to view

#### Negatives (-)

- Poverty rak is not visualized
- Lack or contrast bornesn bubble k map

Loyout



Map tooltips

State: Pahang

stare: faheng

Poverty Race: 50%

Population: 4,000,000

Total Persity Race: 7.6 %

Median Household Income: RM 2,900

bobuldrion: d'000'000

Year scient

D Range, from & +6
Boxpion
Foothip

2 Specific Year

2020 V
2019
2019
2020
2021

Q1: Q2: T Pedias: Q3: Q3: Title: Visualization 2 FDS

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#### Operation

- First map is a chloropieth using colouhue to show difference in fertility roves accross states

- Second Map is also chloropieth to Sh hausehold income disporting, with Poverty faces highlighted using bubb Sizes

- 21) histogram hearmap shows correwords
between Employment & Fertility

- Box plot shows the changes in house home over the years

- Lovipop thank shows disparity between humber of deaths & live births in each search

- Year (specific / range) can be estimated; each chart

#### Desgils

- Dependencies

- lata gov my for datases
- Js + Vegy-site
- HTML + CSS
- Time to build: 18 hours
- Dara must be normalised to population
- Allows Malaysian besidents to find correct and spread quarants on need for pollarial Changes