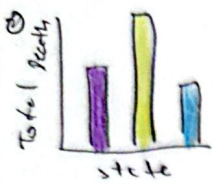
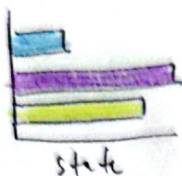


Ideas

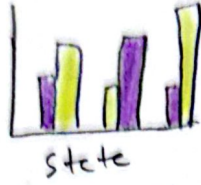
Filter



Vertical bar chart



horizontal bar chart

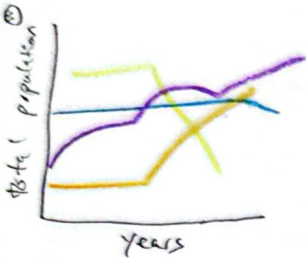


state

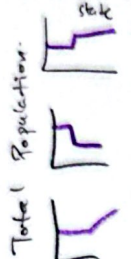


state

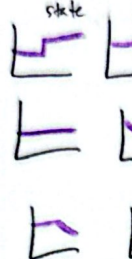
stacked bar chart



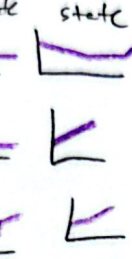
multi line plot



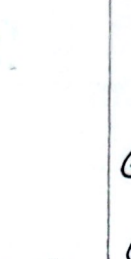
state



state



state



state

multi line plot (small multi plot)



donut chart



Chinese



Indian



Malay



Chinese



Indian

pie chart



radial plot

① Use chloropleth map instead of proportional symbol

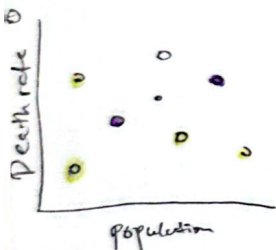
② Use stacked bar graph so its more informative

③ Use small multiples of line graph, as 1 multi line graph would look too crowded for all the states to be plotted

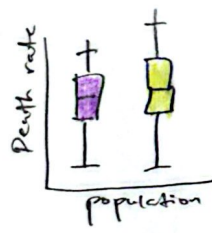
④ Use Pie chart, would be quite informative (Male/Female)

⑤ Use scatter plot, but might be hard to understand

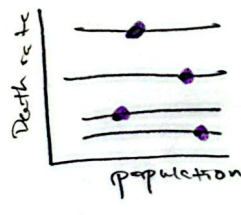
⑥ Use a tree map, look visually interesting



dot plot

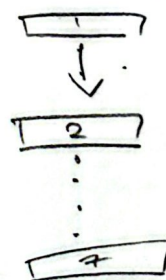


box plot



dumbbell plot

category



Flow just like the "Idea" section from chart 1 to chart 5

Questions

- Would radial plot be suitable?  
- Are there any visualisations that are redundant?

- Do I need to write explanations of my visualisations or is it enough for my viewers to understand?

Combine & Refine

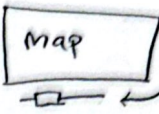
- Bar graph can be combined into stacked bar graph/chart & can add filters  
- Using chloropleth map instead of proportional symbol map




# Malaysia's Population & Death Trends & Patterns Analysis

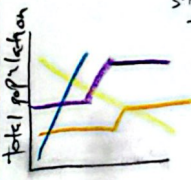
Title: Malaysia Mortality Analysis  
 Author: Lim Ding Long  
 Date: 19/10/25  
 Sheet: 2  
 Task: FIT3179 Data Visualisation 2

## Operations

Map  year slider for the map  
 viewer can see the death rate per year

 ☐ Ethnicity  
☐ Gender

user can click to choose which filter they want to apply

 state dropdown filter  
 total population  
 years

- user can choose which state to filter out using the drop down box

## Focus

## Discussion

- All visualisation are focused, none stand out too much, except for the tree map & the proportional symbol map

Title	
Map	Explanation
Chart 1	Chart 2
Explanation	Explanation
Chart 3	Chart 4
Explanation	Explanation

← Gives user brief idea of visualisation

← Dives deeper & look more closely into the data

## Advantage

- Proportional symbol map catch attention of user
- Has subtle user interaction

## Disadvantage

- Tree map might not be suitable
- Radial plot might be hard to understand



# Malaysia's Population & Death Trend & Pattern Analysis

Layout

Title: Malaysia Mortality Analysis

Author: Lim Ding Cong

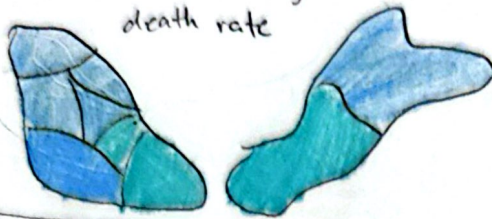
Date: 19/10/23

Sheet: 3

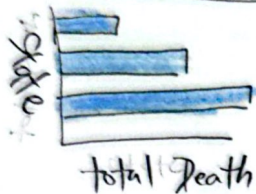
Task: FIT3179 Data Visualisation 2

Operations

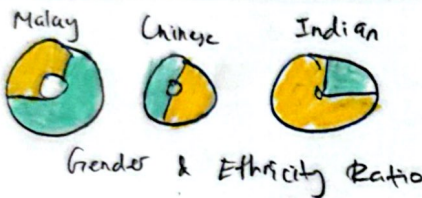
State with Highest  
death rate



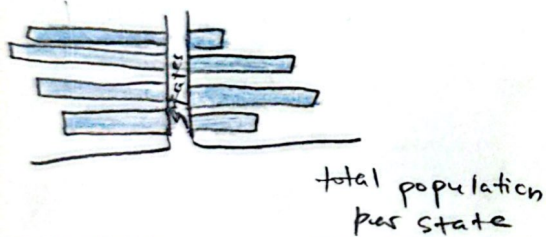
Explanation  
text



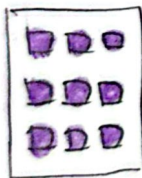
Explanation  
text



Explanation  
text



Explanation  
text



Does death rate  
correspond with  
population size?

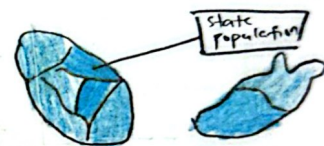
Explanation  
text



Male

Female

can be toggled,  
when clicked on, it'll  
only show the information  
of it.



Tooltip appear when user  
hover their cursor on the  
map.

Focus

Discussion

- Layout might have put too much focus on the waffle chart & the choropleth map
- Organised Layout with all charts on left while the explanations of it are on the right

Advantage

- Easy to view, as layout is organised
- not overwhelming to look at

Disadvantage

- Might have insufficient info
- Visualisation looks too basic

# Malaysia's Morality Analysis

Layout

Title: Malaysia Morality Analysis

Author: Lim Ding Cong

Date: 19/10/25

Sheet: 4

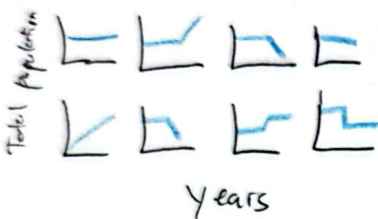
Task: FIT 3179 DV 2

## Gender & Ethnicity Ratio



Text Explanation

## State Growth?



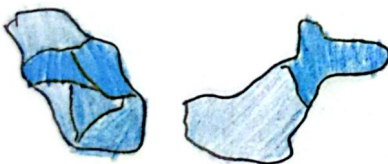
Text explanation

Does death rate correspond to population?

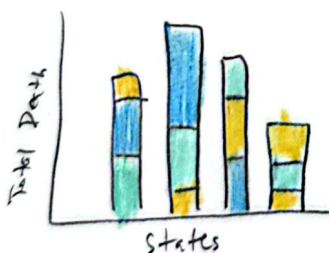


Text explanation

## Highest death rate in Malaysia

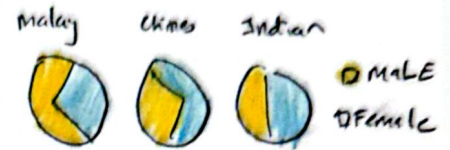


text explanation



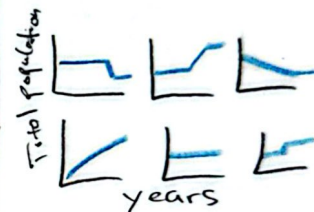
text explanation

## operation



Select year

- Year dropdown selection box, for user to see the difference number of ethnicity between male & female throughout the years.



Start year End year

- Start & end year slider to let user compare the total population based on their own parameter

## Focus

## Discussion

- All graph equally important
- Trying to show the charts relationship

## Advantage

- Has somewhat of a story
- Relationships in chart can be seen

## Disadvantage

- Layout can be better



# Malaysia's Morality Analysis

Layout

Title: Malaysia Morality Analysis  
 Author: Lim Ding Geng  
 Date: 19/10/25  
 Sheet: 5  
 Task: FIT3179 DV2

Highest Death Rate in Malaysia



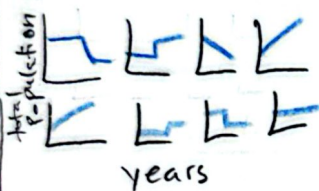
Text Explanation

Death of Malaysian by Gender & Ethnicity



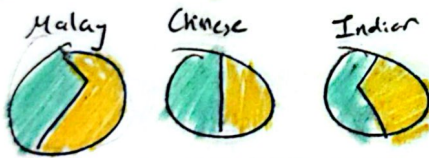
Explanation text

State Grown?



Explanation text

Gender & Ethnicity Ratios



text explanation

Does death rate correspond to population?



text Explanation

operation



year slider for viewer to see difference



☐ sex filter

☐ Ethnicity filter

- Allow user to use the filter on bar chart to see the differences



- year slider

- to allow user to see for each year if death rate correspond with population size

Focus

Detail

- A better layout of sheet 4
- All charts equally important, not 1 chart steal spotlight & become main focus
- Easy to be viewed from top to bottom

- Algorithm: Coding it out in Vega lite
- Dependencies: VS code
- Time: 1 week, as I'll have to get familiar with the coding languages