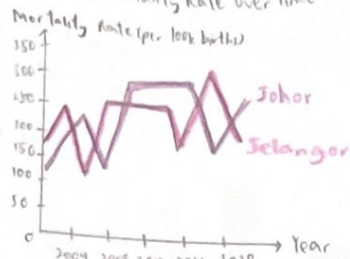
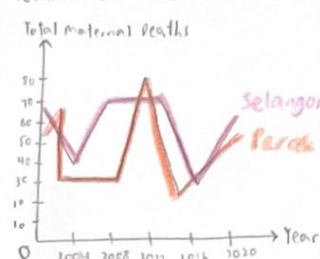


IDEAS

Maternal Mortality Rate Over Time

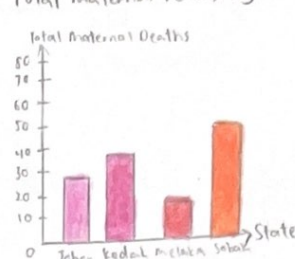


Total maternal Deaths Over Time



FILTER

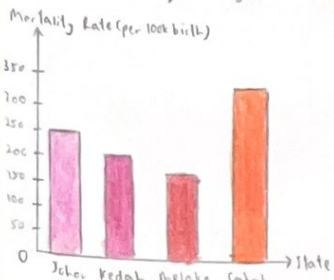
Total maternal Deaths by State



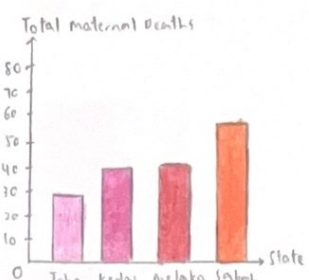
Maternal mortality rate by state over time



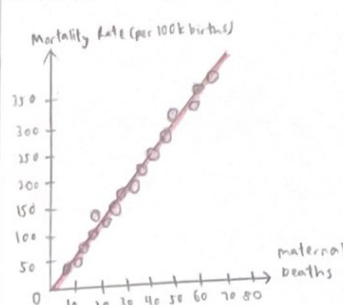
Maternal Mortality Rate by State



Total maternal Deaths by State



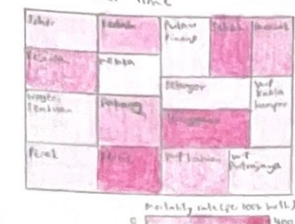
Maternal Mortality Rate vs Deaths



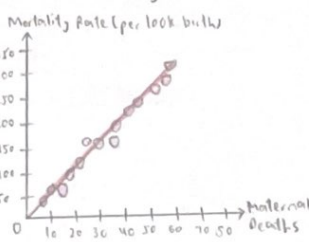
Maternal mortality rate in Malaysia



Maternal mortality rate by state over time



Maternal mortality Rate vs Deaths



Maternal mortality Rate in Malaysia



CATEGORIZE

Regional differences & trend in maternal deaths & mortality rates



Regional and temporal patterns in maternal mortality rates



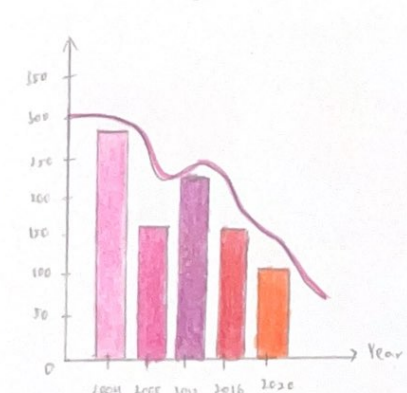
Correlation between maternal deaths & mortality rates



Geographic distribution of maternal mortality rates

COMBINE & REFINES

Maternal deaths & mortality rate over the years



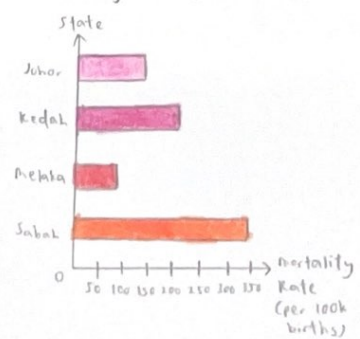
Filter Selection

Select State

Selangor ▼

View Reset

Mortality Rate by state

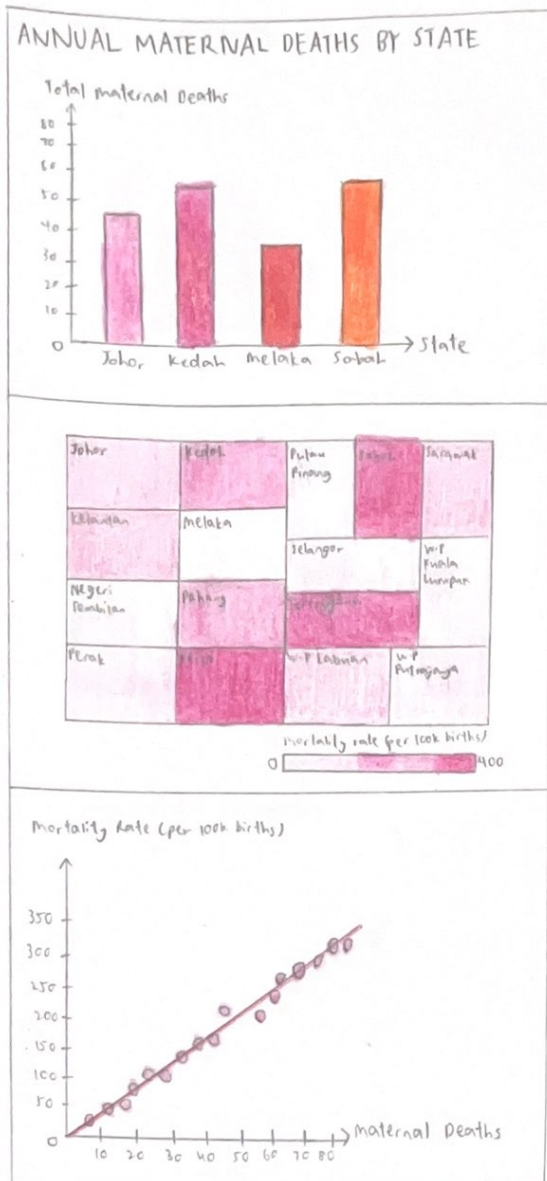


Horizontal bar charts for easier comparison

QUESTIONS

- Does this visualisation lead to a clear story?
- Does this visualisation provide insights for policymakers to allocate resources to state most in need?
- Are combination charts needed?

LAYOUT



Title: Annual maternal Deaths by State

Author: Estee Sia Yin Tse

Date: 2/10/2024

Sheet: 2

Task: FIT3179 Assignment 2

OPERATIONS

Dropdown Menu:

Bar chart & Heat Map:

Filter selection

Select Year:

2021 ▼

Scatterplot:

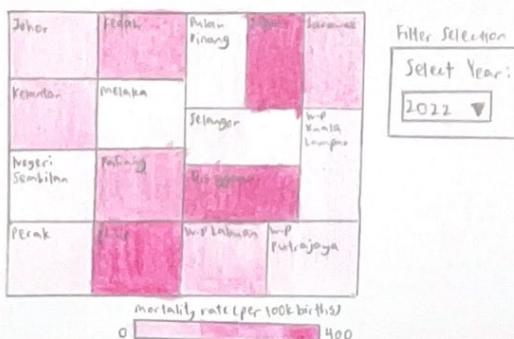
Filter selection

Select State:

Terengganu ▼

FOCUS

- Focus on identifying states with consistently high maternal mortality rates
- Focus on uncovering states with low number of deaths but disproportionately high maternal mortality rates



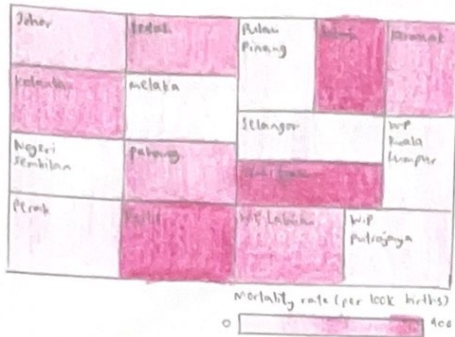
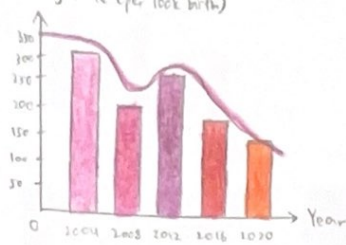
DISCUSSION

- Can the trends in maternal mortality across the states be easily identified?
- Is the correlation between maternal deaths and mortality rates clear?

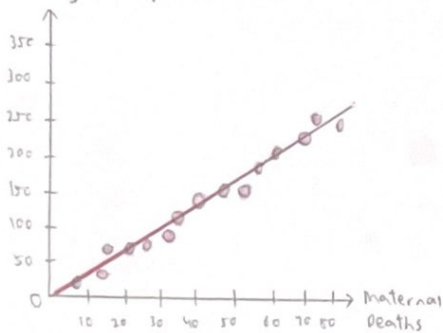
LAYOUT

ANNUAL MATERNAL DEATHS BY STATE

Maternal Deaths & Mortality Rate (per 100k birth)



Mortality Rate (per 100k birth)



Title: Annual Maternal Deaths by State

Author: Estee Sia Yin Tse

Date: 2/10/2024

Sheet: 3

Task: FIT3179 Assignment 2

OPERATIONS

Dropdown menu:

Combo Line & Bar Chart & Scatterplot:

Filter Selection

Select State:

Kelantan ▼

Heatmap:

Filter Selection

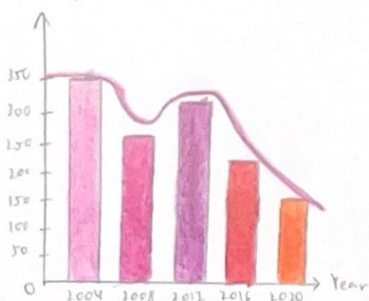
Select Year:

2010 ▼

FOCUS

- Focus on making trends in maternal mortality over the years be easily identified
- Focus on identifying unusual spikes/dips in mortality rates

Maternal Deaths & Mortality Rate (per 100k birth)



Filter selection

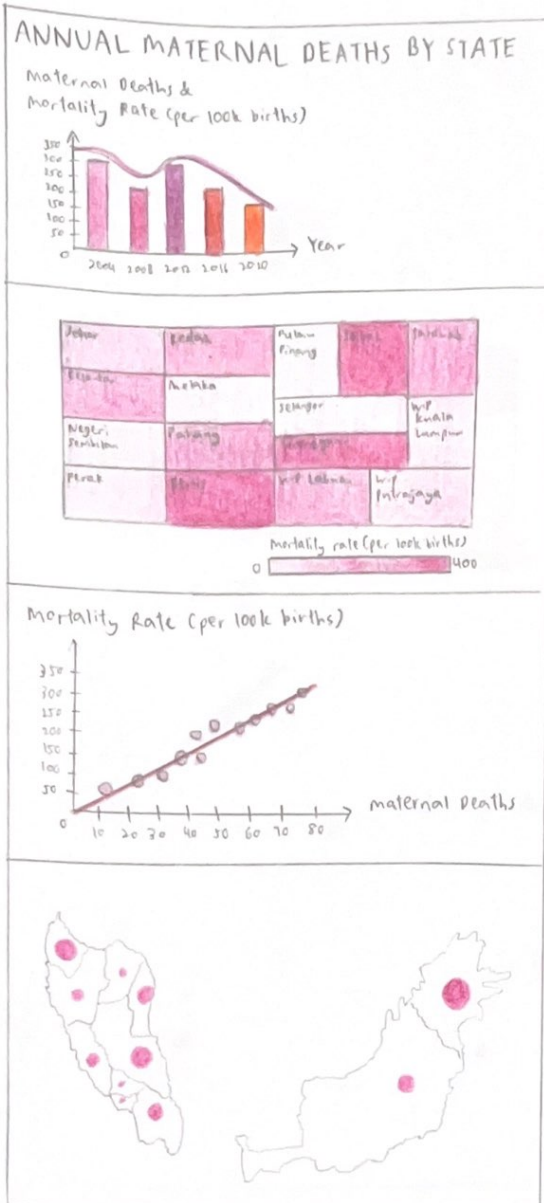
Select State:

Kedah ▼

DISCUSSION

- How to apply figure-ground principle to emphasise the important information?
- Is the visualisation used able to identify unusual spikes/dips in mortality rates?

LAYOUT



Title: Annual Maternal Deaths by State

Author: Estee Sia Yin Tse

Date: 2/10/2024

Sheet: 4

Task: FIT3179 Assignment 2

OPERATIONS

Dropdown menu:

Combo Line & Bar chart & Scatterplot:

Filter Selection

Select State:

Kedah ▼

Heatmap & Proportional Symbol Map:

Filter Selection

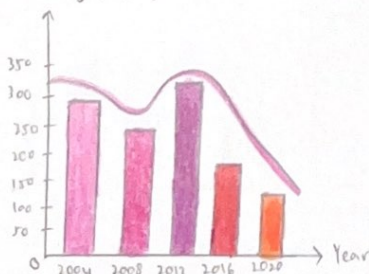
Select Year:

2013 ▼

FOCUS

- Focus on trends in maternal mortality over the years to assess the impact of past health interventions
- Focus on identifying states most in need.

Maternal Deaths & Mortality Rate (per 100k birth)



Filter selection

Select state:

Kedah ▼

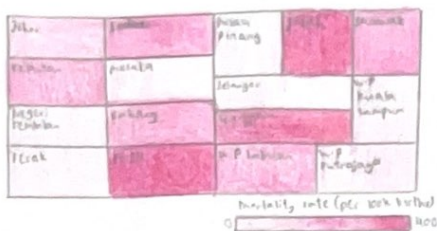
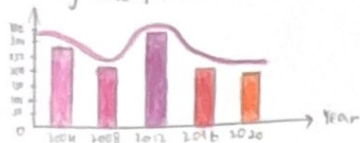
DISCUSSION

- Would having too many visualisations confuse the users?
- Can the states most in need be identified easily?
- Does the visualisation highlight regions with exceptionally high mortality rate?

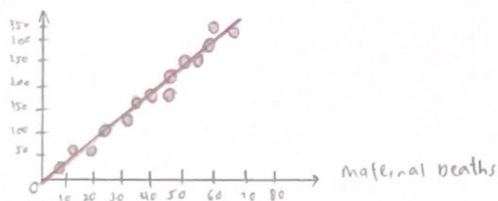
LAYOUT

ANNUAL MATERNAL DEATHS BY STATE

Maternal Deaths & Mortality Rate (per 100k births)



Mortality Rate (per 100k births)



Title: Annual Maternal Deaths by state

Author: Estee Sia Yin Tse

Date: 2/10/2024

Sheet: 5

Task: FIT3179 Assignment 2

OPERATIONS

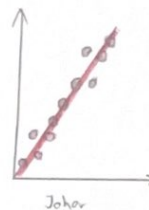
Dropdown Menu:

Select State:

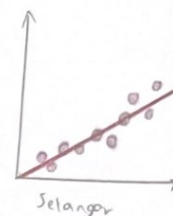
Johor

expand

Johor
Kedah
Kelantan
Malaka
Negeri Sembilan
Pahang
Perak
Pulau Pinang
Selangor
Seremban
Terengganu
W.P. Kuala Lumpur
W.P. Putrajaya

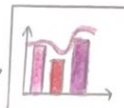
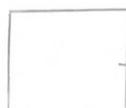


→

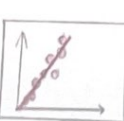
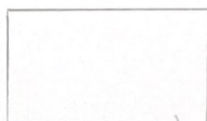


FOCUS

- Focus on trends in maternal mortality over the years to assess the impact of past health interventions.
- Focus on identifying states most in need.



- Focus on identifying unusual spikes/dips in number of maternal deaths & mortality rate



- Focus on the relationship between maternal deaths & mortality rate



- Focus on identifying states with consistently high maternal mortality rate

DETAIL

- Latest update of the dataset is 17/10/2023.
- Proportional symbol map requires longitude and latitude of each state, and requires 2 layers.
- Ensure sufficient annotation, aesthetically-pleasing colour palette for the graphs
- Estimated: 4 days to build the visualisation on vegalite.