

IDEAS

Number of Deaths per Annua

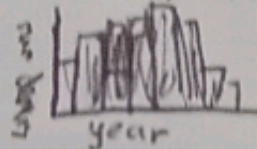
Categorical

- states
- gender

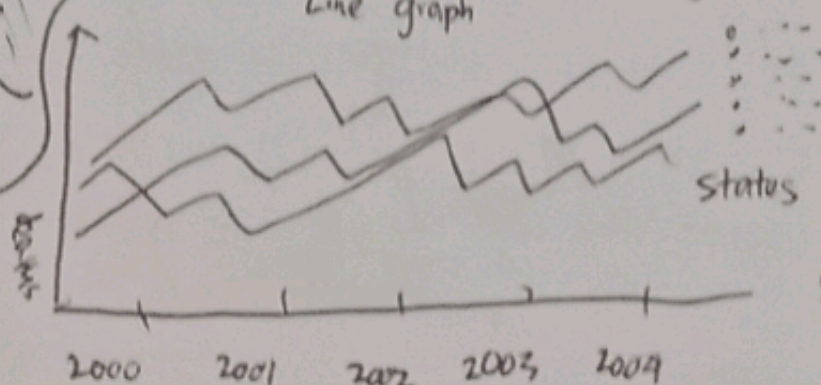
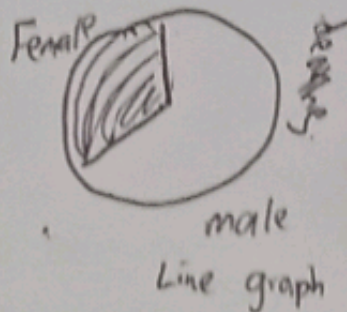
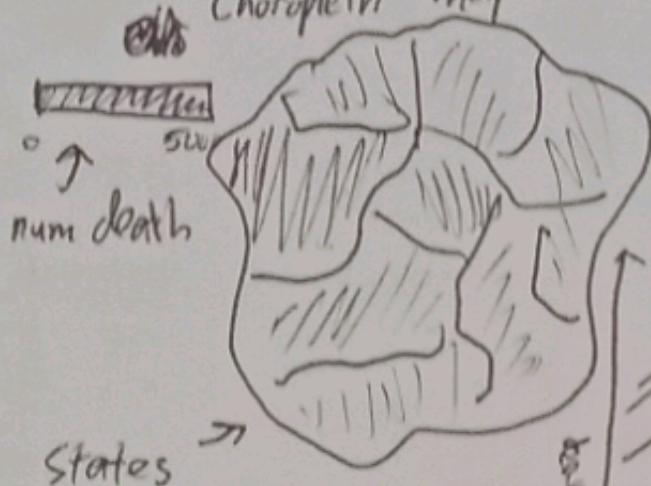
Numerical

- number of deaths

histogram

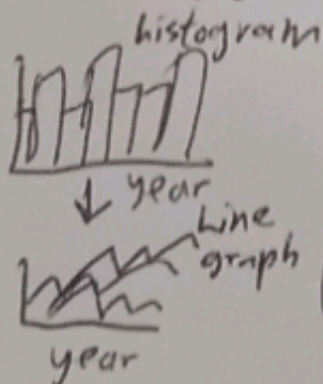


Choropleth map



FILTER

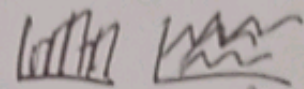
- pie chart is redundant
- Can combine with map
- histogram doesn't show different states and trends



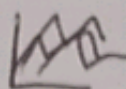
COMBINE & REFINE

Categorize

• Bar and Line graph



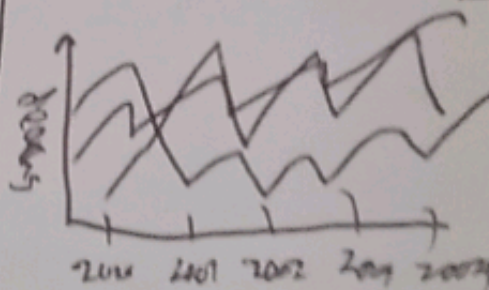
Which one tells more valuable information?



Line graph not only shows different states but also compares trends and lower ink ratio

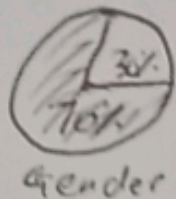


pie charts for gender in choropleth map?

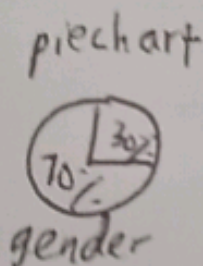
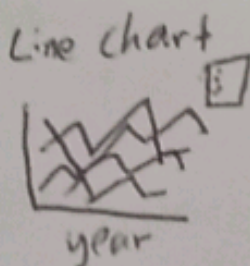
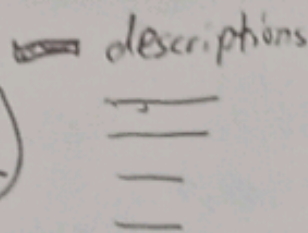


Line graph to compare?

LAYOUT



FOCUS



1. Map to show locations and deaths
2. Line chart to show trends through timeline
3. Pie chart to show gender

Title: Number of deaths ~~Analytically~~ in Malaysia
 Author: Lim Kai Ying
 Date: 5/10/2024
 Sheet: 2
 Task: Visualize sufficient information

OPERATIONS

- Website showing my visualization
- On click filter out the states for the map and line graph
- Map allows enlarging
- bar to show the number of death based on the luminance or saturation

DISCUSSION

Advantages:

- represents all data and variables
- gives viewer a description about the visualization
- different graphs give viewers the ability to use it for different story.

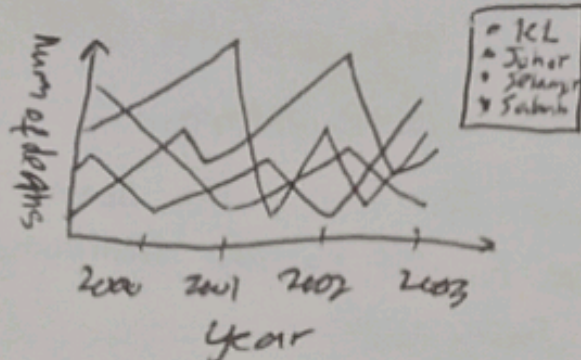
Disadvantages:

- A lot of graphs and takes space
- Lack of context for all graphs
- Does not guide viewer to understand the layout flow to tell a story.

LAYOUT



deaths
0 5000

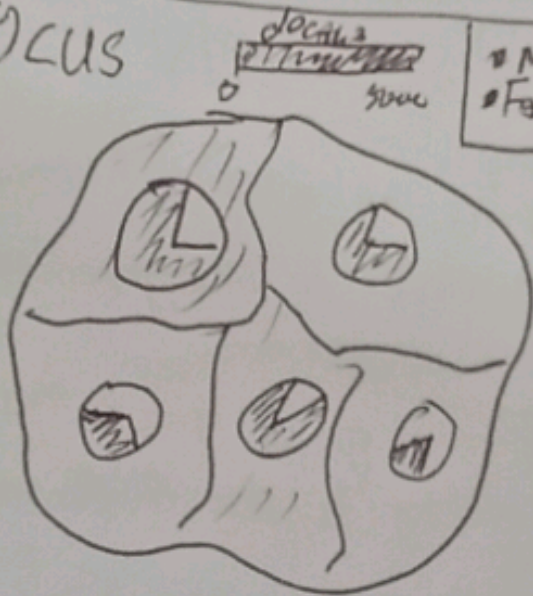


Title: Number of deaths annually in Malaysia
Author: Lim Kai King
Date: 5/10/2024
Sheet: 3
Task: A simpler view combining the graphs

OPERATION

- Map allows enlarging
- on click filters the states
- bar to show number of deaths
- annotation to show gender in the pie charts

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deaths
0 5000

Male
Female

DISCUSSION

Advantages:

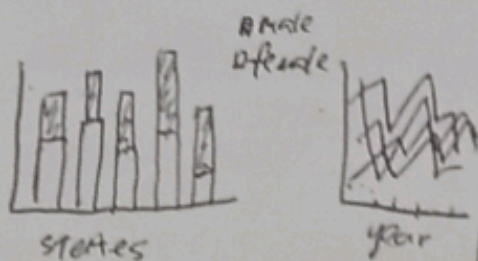
- Group together charts for viewers to view all relevant data (one eye see all)
- description about the visualization to communicate objective

Disadvantages:

- Complicated to understand at first sight
- data ink ratio will be lowered due to many pie charts

1. Pie chart in map to show the percentage of male and female deaths
2. Reduce space used

LAYOUT



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Stacked bar chart



Instead of pie charts in map, this visualization uses stacked bar chart to show gender distribution in every states.

Title: Number of deaths annually in Malaysia

Author: Lim Kai King

Date: 5/10/2024

Sheet: 1

Task: Add the advantages of sheet 2 & 3

OPERATION

- map allows enlarging
- on click filters the states
- bar to show number of deaths
- annotation to show gender in the stacked bar chart

DISCUSSION

Advantages:

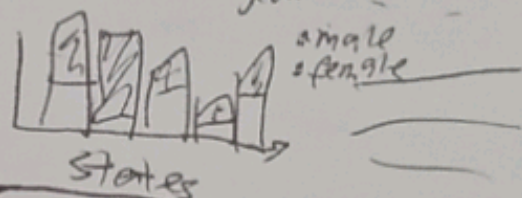
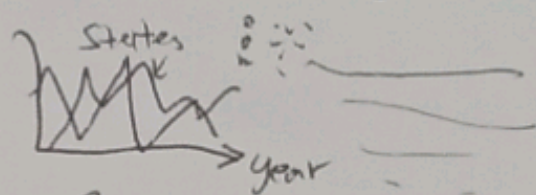
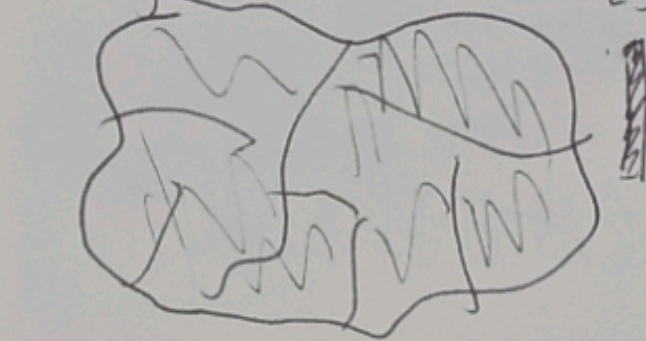
- Does not have repeated graphs for gender distribution
- Easy to understand from a stacked bar chart
- description for explaining the visualization

Disadvantages:

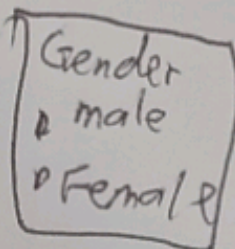
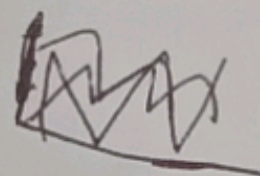
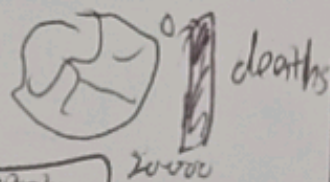
- stacked bar chart doesn't show trend like line chart thus we cannot combine them
- map already shows ~~death~~ number of death by states

LAYOUT

Malaysia Death Statistics



FOCUS



Title: death statistics in

Author: Lim Kai King Malaysia

Date: 13/10/2024

Sheet: 5

Task: detail the chosen visual

OPERATION

- webpage allows enlarging
- toolbar to display data information
- ~~bar shows~~ toolbar to show number of deaths
- annotations for states and gender

DETAIL

- data source, retrieved from government site
- Use vega-lite for the data visualization
- Use html and css for the webpage and styling
- 3 days time for the visualization project
- done with a laptop and mouse to write the script and research.