

IDEAS

5. Male Vs Female

6. Trends



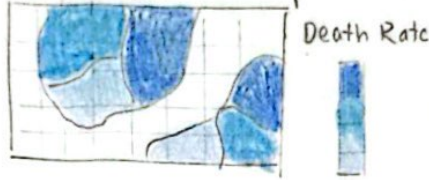
1. Map

Death Rate by Country / States (Malaysia)

(a) Proportional Symbol Map

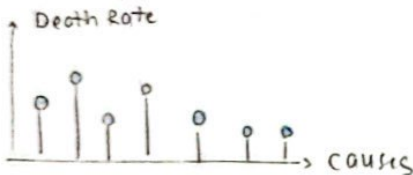


(b) Choropleth Map

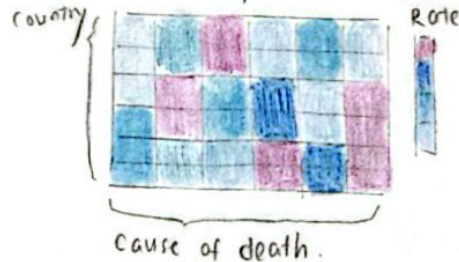


2. Cause of Death

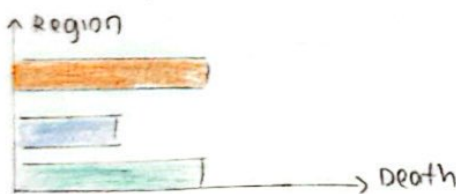
(a) Lolipop chart



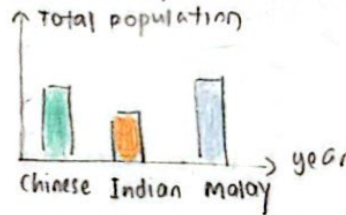
(b) HeatMap



3. Mortality Trends Across Region



4. Ethnicity Distribution



Author : Eunice Lee

Date : 27/9/2024

Sheet : 1

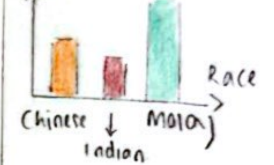
Task : Brainstorm

COMBINE

REFINE

(4) + (6)

Population / Death



Population / Death



Population / Death

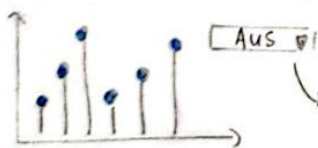


↳ Better view the trends of death for certain race over years.

↳ Different race, different lifestyle, different death rate.

FILTER

2a) Cause of death (Lollipop)

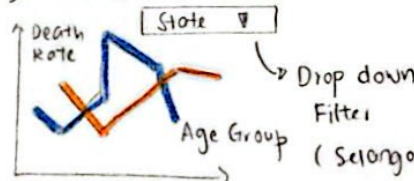


Drop-down Filter for countries.

↳ Too many causes of death, cannot fit in x-axis label

↳ Hard to visualize.

6) Trends



↳ Easy to understand and compare the trends across Age Group

↳ Too Simple

multi (Line chart)

Year Filter

5)



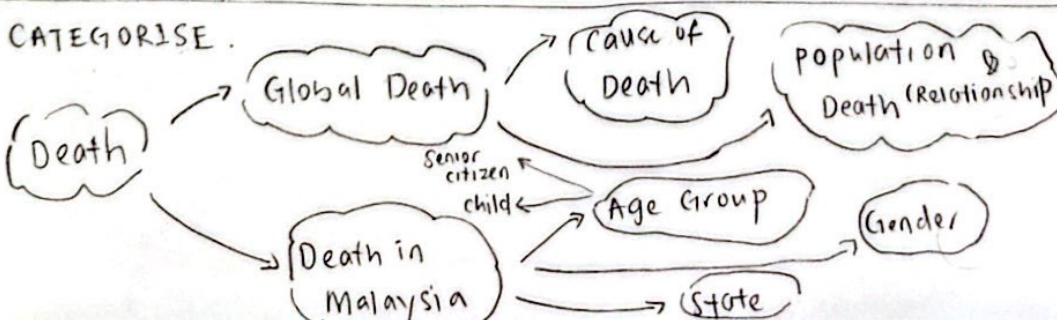
Gender distribution (Pie chart)

↳ Remove pie chart, use donut chart

↳ Donut chart more attractive.

↳ 2 segment: Female & Male.

CATEGORISE

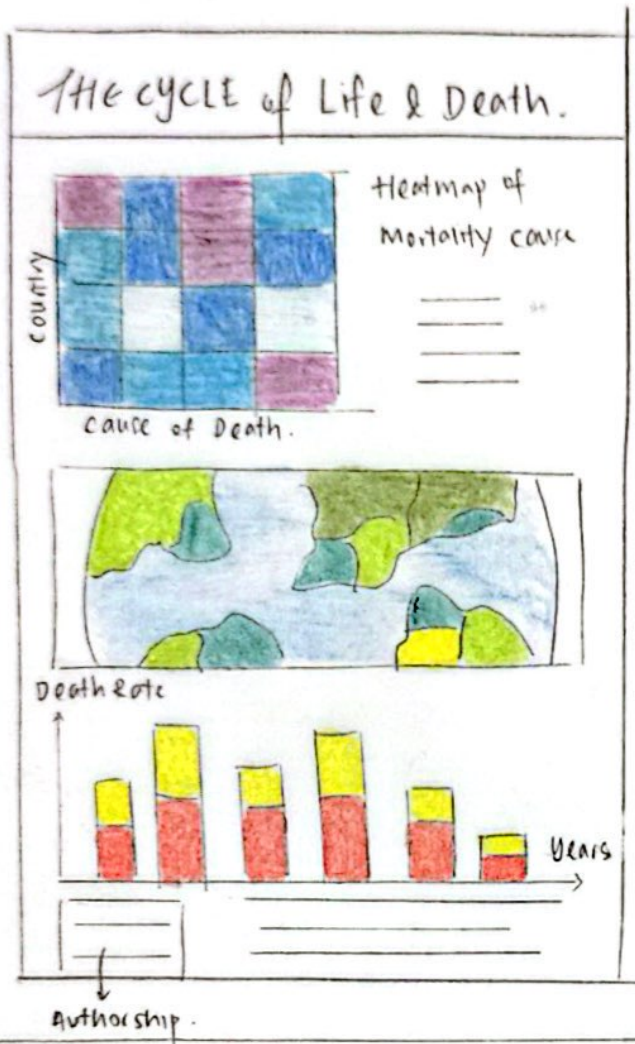


Question ?

1. Which chart is the best to compare different attributes? (Age group, Gender, State)

2. Does the visualization effectively convey clear story about the data?

LAYOUT



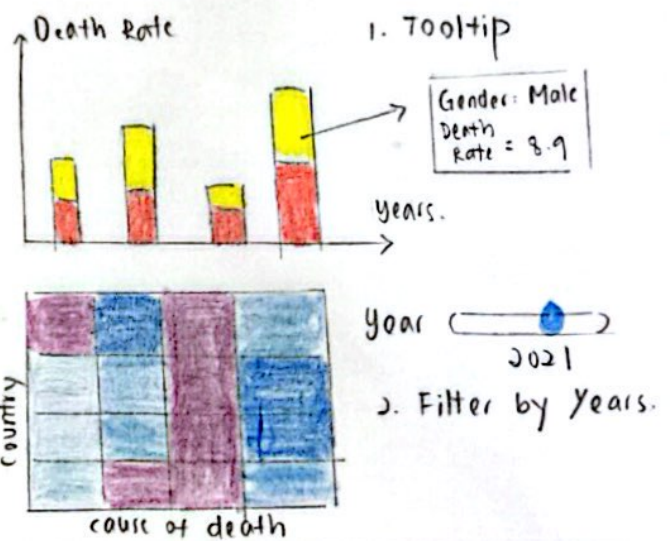
Title : Dashboard View

Author : Eunice Lee

Date : 28/9/2024

Task : Initial Design.

OPERATION



FOCUS.

main title	↳ mainly focus on the global death rate
Heatmap	
Map.	↳ main visualization chart :
Stacked Bar chart	① Heatmap
Author chip	② Map.
Text	

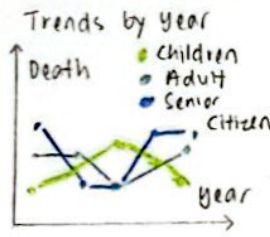
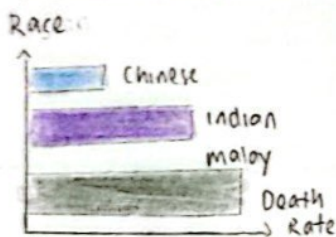
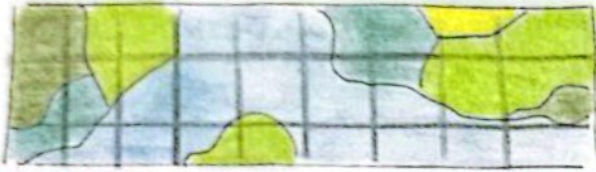
↳ User can get more information in the summary text description bottom right.

DISCUSSION

- ☺ Layout is cleaned and ordered, giving users a clear and nice visualization.
- ☺ Some user interactions (eg. Tooltip, Filters bar)
- ☺ Add in authorship to avoid copyright.
- ☹ more visualization need. 3 charts are not enough to provide sufficient information.

LAYOUT

THE CYCLE of life & Death Mortality Trends.



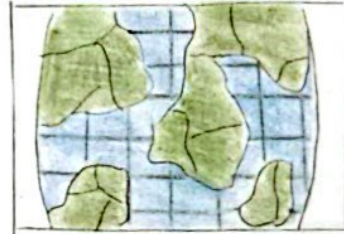
Title : Dashboard View

Author : Eunice Lee

Date : 23/9/2024

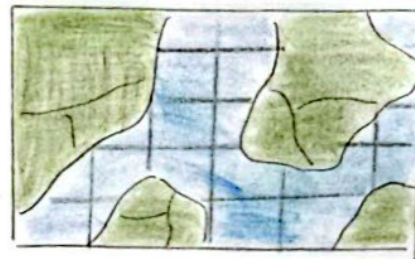
Task : Design 3.

OPERATION



zoom out

- User able to zoom in and out for better visualisation.



zoom in.

Focus.

Title	
map 1.	
map 2.	
Bar chart	Line chart.

↳ Line chart show the trends of death by age group.

↳ map 1 used for global overview of the mortality patterns.

↳ map 2 used to visualize Malaysia's mortality patterns.

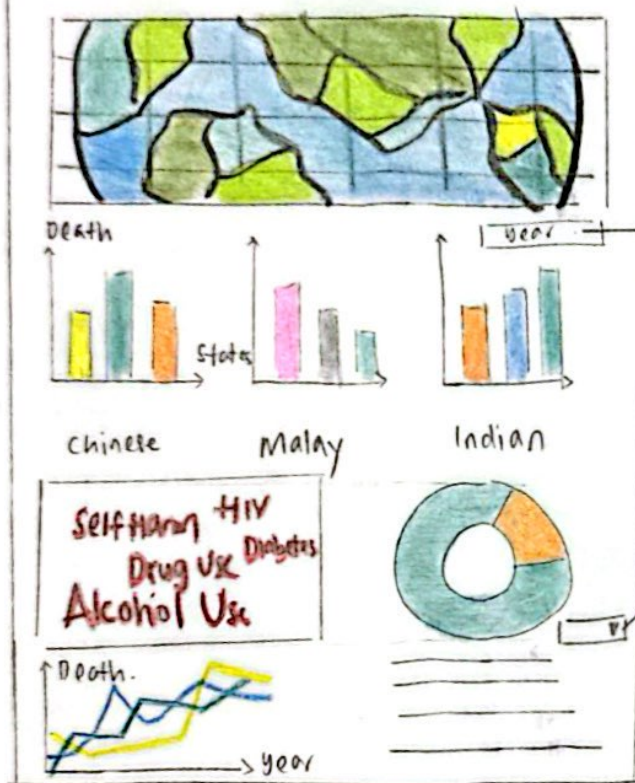
↳ Bar chart show distribution of death rate by race in Malaysia.

DISCUSSION

- 😊 Good use of the cursive font style on the main title.
- 😊 Implement 2 maps on the dashboard. Providing different information.
- 😞 No text description. User might not understand the graph shown.
- 😞 No filters added.

LAYOUT

THE CYCLE OF LIFE & DEATH



Title : Dashboard View

Author : Eunice Lee

Date : 23/9/2024

Task : Design 4.

OPERATION

1) Year Slider on Maps.

2014

2) Region Selector for Female vs Male.

Region
Asia
Europe

↳ User can focus on certain region.

3) Tooltip & Annotation

↳ When user hover on the charts, it will show detailed information.

↳ Applicable for map, bar chart, donut chart, line chart.

FOCUS.

- Focus on the comparison analysis of difference races in Malaysia.

↳ Bar Charts : Title ~ Death rate across states in Malaysia
X-axis ~ States
Y-axis ~ Death Rate per 1000 population.

Title	
Map	
3 Bar Charts.	
Cause of death	Female vs Male
Trends	Text description

DISCUSSION

😊 Viewer can see different perspective of data with different visualization.

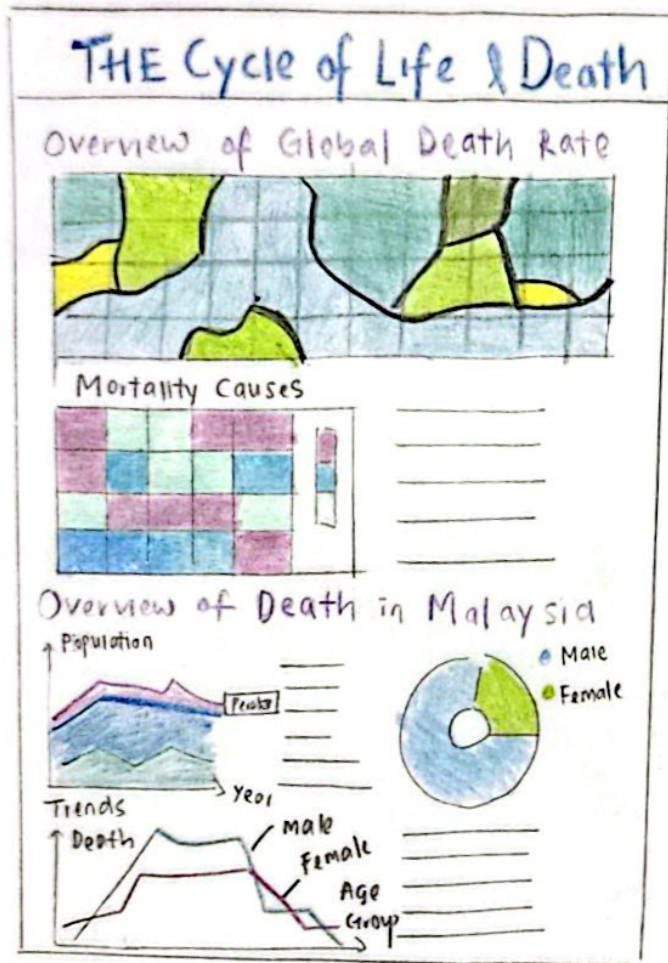
😊 Interactive and appealing with colours.

😞 Dashboard too complex and packed with visualizations.

😞 Hard to arrange the layout using HTML & CSS.

😞 Potential for information overload.

LAYOUT.



Title : Dashboard View

Author : Eunice Lee

Date : 28/9/2024

Task : Final Design.

OPERATION.

Year : 2000 2023. User Interactive
Year slide filter



- Tooltip for all charts.

↳ When user hover on the charts,
it will show the detailed information

- Text Annotation

↳ Text Annotation on map &
Line chart to highlight interesting finding

Focus

The dashboard consist of 2 main sections. First Section : Explore Global mortality patterns.
Second section: Focus on Malaysia.

Main Title	
Global Section	
Map	
Cause of death	
Malaysia	
Race	Gender
Age Group	Explanation

Details.

↳ Tools: GitHub, VS code, Vega-Lite, (Data cleaning) R-studio.

↳ Languages: Javascript, CSS, HTML.

↳ map & charts will be created via Vega Lite.

↳ Datasets publish to GitHub.

↳ Visualisation Dashboard publish in GitHub, can access publicly.

↳ Time : (From Sketch to Final Design)

- Built map ~ 1 Day Total: 6 days

- Built heatmap ~ 1 day

- Built charts (Malaysia) ~ 2 days.

- Text description + Layout ~ 1 day

- Data cleaning & Wrangling ~ 1 day.

↳ NOTE: Only scrolling up & down