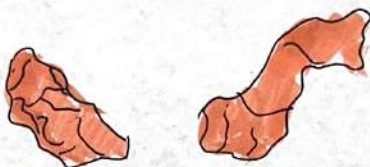


# IDEAS

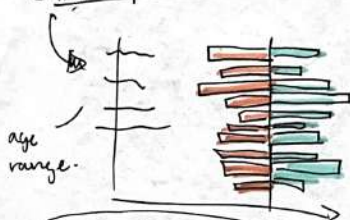
## DEATHS IN MALAYSIA

\* MAP



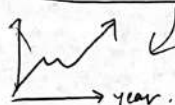
- Shows intensity of death rates in Malaysia (NORAMUSE!)
- ↳ choropleth map

Show Population to compare with deaths.

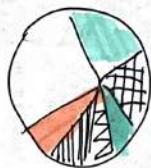


population table  
- categorise male & female & age range

TREND of death rates

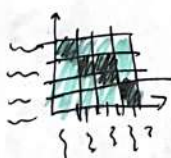


LEADING CAUSES OF DEATHS in MALAYSIA



pie chart

Heat map



to compare between different sex & ethnicities?

death rates of Malaysia & other countries

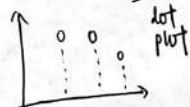


Scatterplot ?? or



bar chart + line

life expectancy? or



dot plot

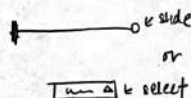
# FILTER

↳ select map states



(highlight the state)

↳ filter the population by selection / slider (age range) (population count)

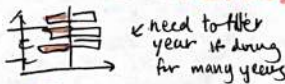


↳ other charts - use highlight function. (trend, causes, dot map)

# CATEGORIZE

- i) deaths state + population } 1 category
- ii) pie chart + death trend } 2nd category
- iii) dot plot + heat map } or dot plot only
- iv) heat map only

# COMBINE & REFINE



need to filter year if doing for many years



need to show average if for many years



lollipop graph !!



heatmap

\*decide 1 year or many years

# LAYOUT |

## Introduction

Dotted chart  
for death rates

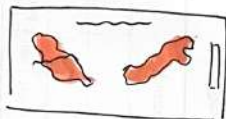


description

pie chart  
of causes of deaths

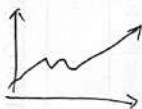


description



description

description



trend of deaths  
throughout the years  
in Malaysia



heat map of deaths  
related to sex & ethnicity

description  
overall

# TITLE: DEATHS IN MALAYSIA

AUTHOR: CHUA SHU XIA

DATE: 1/10/2024

SHEET: 2

TASK: ~~1st~~ 1st sheet for  
visualisation dashboard of deaths  
in Malaysia

## DISCUSSION OPERATION

- Hovering over the subgraphs allows users to have interactive actions - (graphs will enlarge to <sup>show</sup> data in more detail)
- centre of visualisation remains at map ✓ (ground)

- » Negative:
- might be messy if no guidelines
  - data for subgraphs might be hard to interact with due to limited size
  - limited filter functions only
  - is hovering possible?

## FOCUS

By hovering over the sub graphs



map filter:

min appropriate deaths - slider 100000 filter deaths

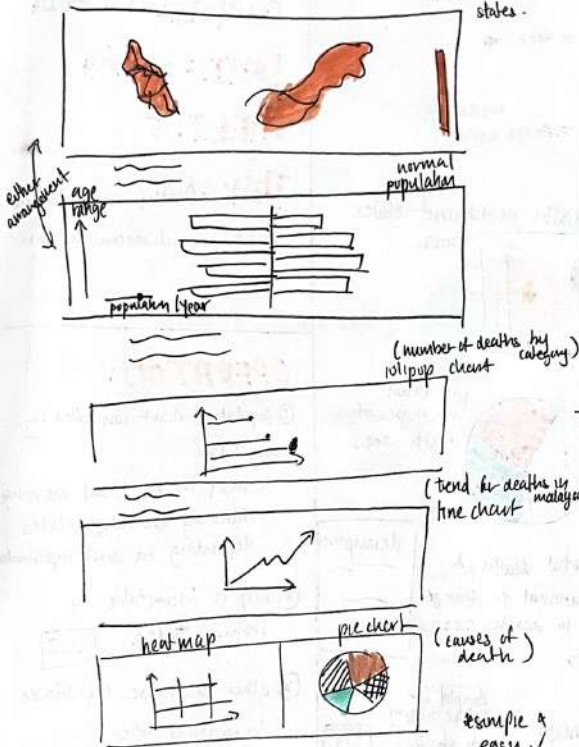
## DISCUSSION OPERATION

- user are able to hover over subgraphs to enlarge them
- description describes the relationship of graphs with key visualisation (map)
- user able to filter for map only

# LAYOUT 2

## DEATHS in MALAYSIA

deaths in different states.



## TITLE : DEATHS IN MALAYSIA

AUTHOR : CHUA BIU XIA

DATE : 1/10/2024

SHEET : 3

TASK : 2nd sheet for visualisation layout for deaths in Malaysia

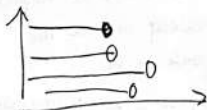
## OPERATION

- filter population for year for population table
- slider (population)
- selection (year)
- filter year for line graph using slider.
- heatmap squares highlightable.
- tooltip
- tooltip for prechart & map also tooltip

## FOCUS

\* normalise data for map & population ???

(for death in diff states?)  
ldipop chart :



↳ add filter :

- filter number of deaths.
- selection for country
- add annotations!

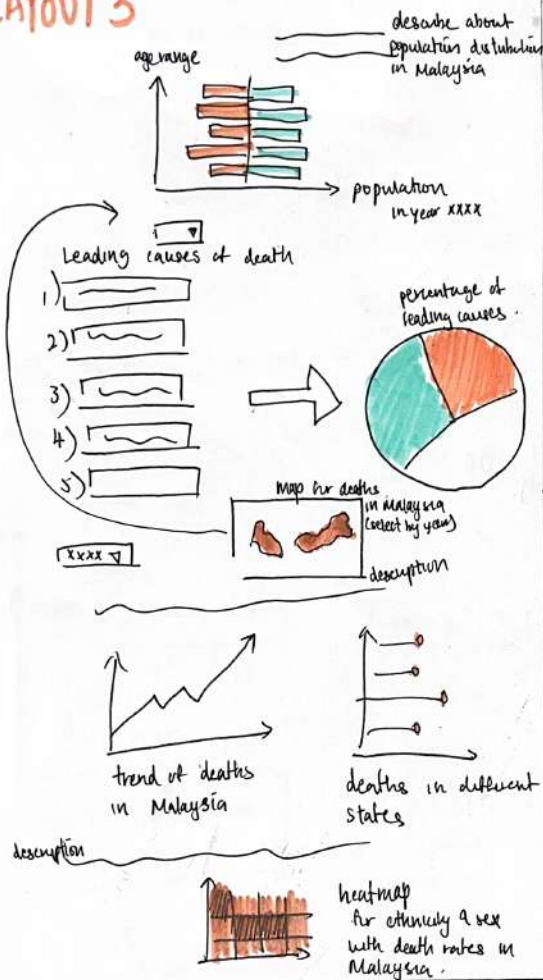
- adjust the width of line
- add colours
- legend

\* also add source & author & reference at bottom of visualisation.

## DISCUSSION

- layout follows sightlines (aligned well, but it will be plain and no visual hierarchy / center of visualisation)
- shall I focus on 1 year only? hard to label for map with many years.

# LAYOUT 3



## TITLE: DEATHS IN MALAYSIA 2022

AUTHOR: CHUA BIV XIA

DATE: 2/10/2024

SHEET: 3/4

TASK: 3rd sheet for visualisation / layout for deaths in Malaysia 2022.

## OPERATION

- select year for population chart  
 < selection.
- select year for leading causes & death
- heatmap is selectable by year.  
 < selection
- add highlighters to charts
- map for deaths in Malaysia  
Selectable by year (rmb to normalise)  
↳ act as centre of visual.

## FOCUS: leading causes:

- 1) Tuberculosis: 20%
- 2) Heart disease: 19%
- 3) Cancer: 15%
- 4) 4%



## DISCUSSIONS:

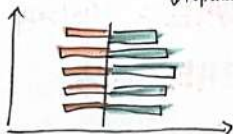
- leading cause too extra? (the specific data for causes)
- too much selector? maybe can narrow down visualisation data range to a specific year



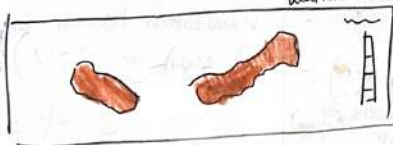
# LAYOUT

DEATHS IN MALAYSIA 2022

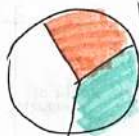
Population in 2022



deaths in different states 2022



description



pie chart of causes of death - 2022



total deaths & annual % change in deaths 2022

description



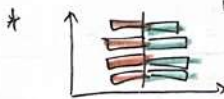
heatmap by sex & ethnicity



Boxplot for top of the category

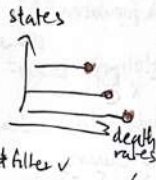
description

## FOCUS :

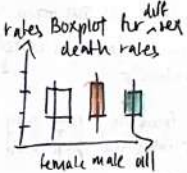


if population chart x suitable for data, use  
↳ pop chart for deaths in different states

→



\* filter ✓



for map : add tooltip

- state :  
- rate :

↳ add most populated ones as another layer ?

## TITLE : DEATHS IN MALAYSIA 2022

AUTHOR : Chua Sau XIA

DATE : 21/10/2024

SHEET : 5

TASK : Deaths in Malaysia 2022 Final visualisation

## OPERATION :

- ① population chart can filter by population  
↳ label the most/least age range  
↳ filter by age range / states depending on chart implemented
- ② map is interactive by showing tooltip
- ③ other chart are highlightable  
↳ optional filter

## DETAILS :

- if too cramped for boxplot & heatmap on same line, separate them
- description is about summary / insights from related / key charts
- normalise data !
- change background color ?
- more white space .