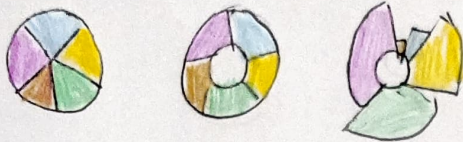# Ideas
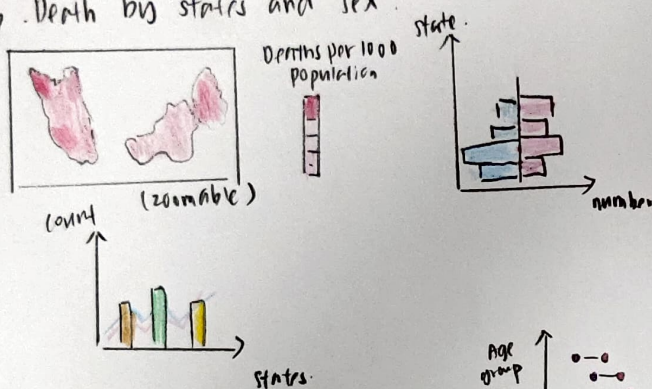
↳ clarify top 10 principal causes of death.
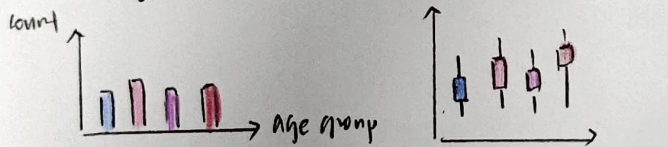

↳ Deaths by ethnic group and sex

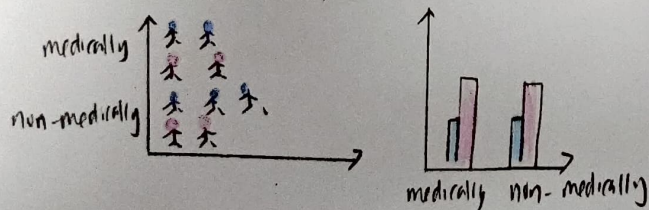Citizen / non-citizen
(malay, Chan, and...)

male
Female

Citizen   non-citizen

↳ Death by states and sex

(zoomable)

count

Deaths per 1000 population

state

number

states

Age group

↳ Deaths by age group

count

age group

↳ deaths is medically certified or non-medically (certified) (states)

medically

non-medically

medically   non-medically

Combine & Refine
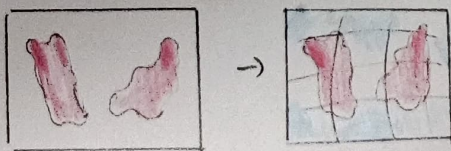
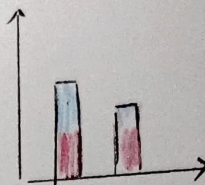combined with graticules and ocean layers

Filters

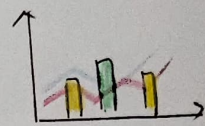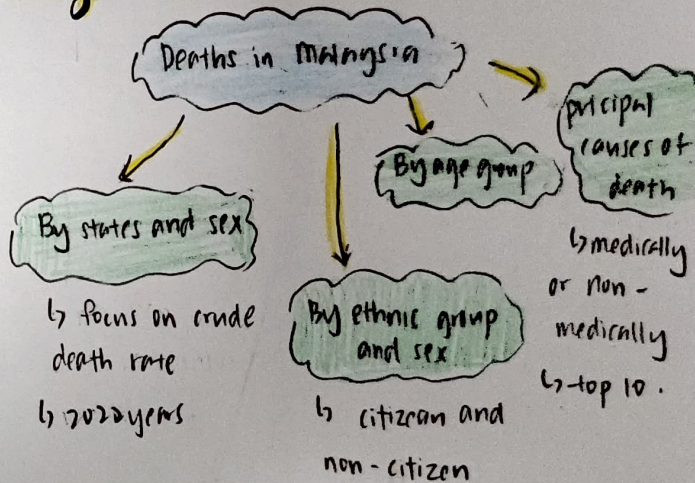① similar to radar chart, therefore remove duplicate circular chart.

②

③ hard to observe the comparison of deaths of male and female clearly.

④ separate it by using choropleth map and diverging bar chart will more suitable.

Categories

Deaths in malaysia

By age group

pricipal causes of death
↳ medically or non-medically
↳ top 10.

By states and sex
↳ focus on crude death rate
↳ 2022 years

By ethnic group and sex
↳ citizen and non-citizen

Question

↳ is that using choropleth map will more suitable for this visualisation?

↳ is it using crude death rate instead of total deaths of each states will more accurate for map?

↳ ethnic group should more specific by differenciate Melayu, Cina, India and others?

Author : Eunice Yu Peini
Date : 27/9/2024
Sheet : 1
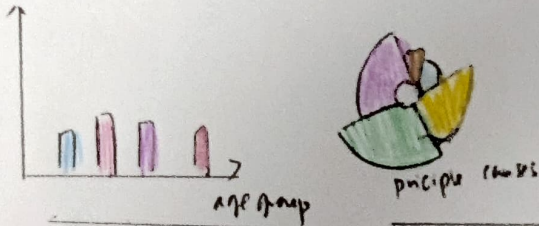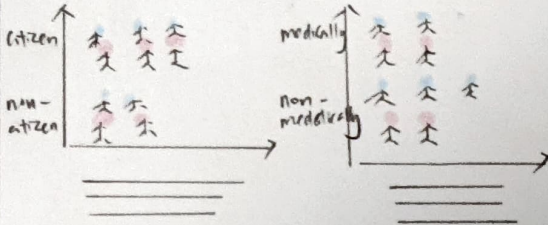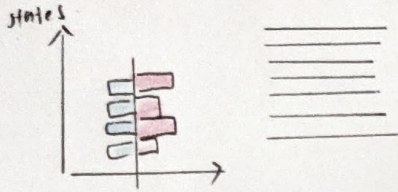Task : Planning visualisation 2.

Layout

Deaths pr 1000 populations.

Total Deaths and Crude Death Rate by states in Malaysia, 2020:

Operation

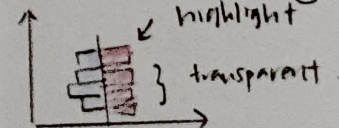↳ have tooltip information while clicking the corresponding state on map.
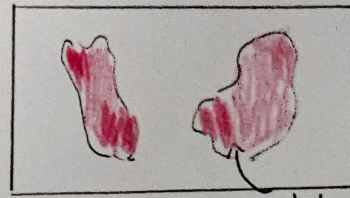
click

↓ showing

tooltip

state : Sarawak
Total Deaths :
Crude Death Rate.

↳ while clicking the corresponding state, it will highlight the female and male distribution of the specific state in diverging bar chart
← highlight
} transparent.

Focus

↳ main focus on the deaths in Malaysia by states, sex, ethnic group, age group and principal causes. (distribution by sex)

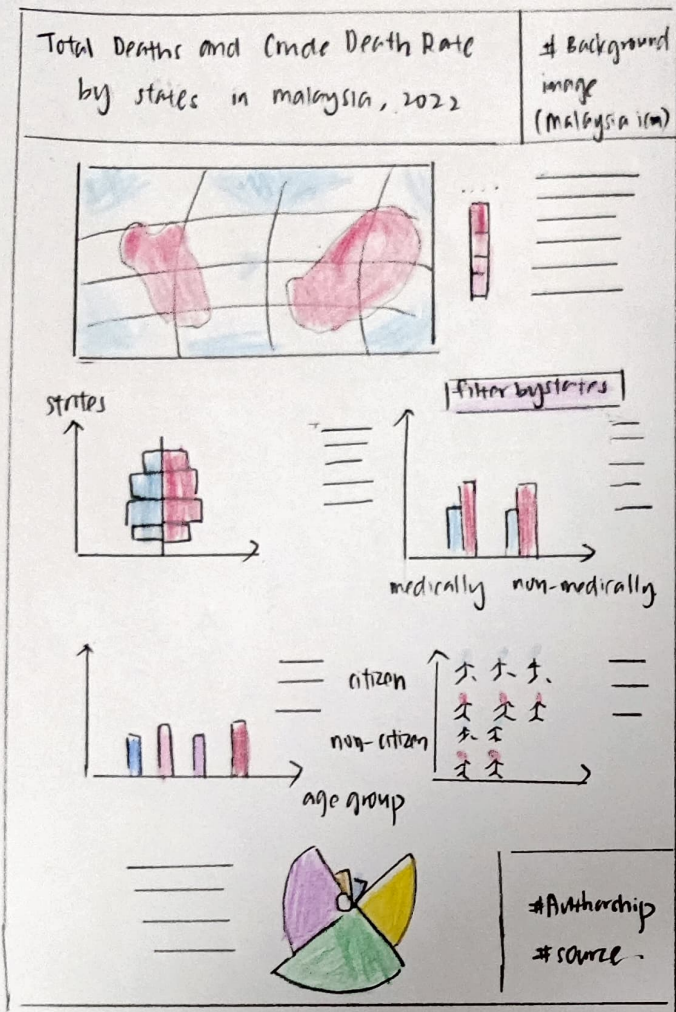| Map	
Title	
# by sex	
# ethnic group	# medically ?
# age group	# principal causes

Discussion

Advantages

↳ well structured into clear sections
↳ easy for user to operate
↳ using isotype dot plot, more eye-catching

Disadvantages

↳ chart not aligning
↳ title too big
↳ no centralise
↳ too many empty space

Layout

Total Deaths and Crude Death Rate by states in malaysia, 2022

	# Background image (malaysia icon)

states

filter by states

medically   non-medically

citizen

non-citizen

age group

Authorship
source.

Operation

└ | filter by states |

└ when mouse detected this column, can choose to observe the data of specific state for medically or non-medically certificated deaths.

exp = | Sarawak |

medically   non-medically

Focus

└ no mainly focus.

└ emphasis the deaths for each states in Malaysia (use different chart emphasis the male and female death's data).

# Title	# Background
# map	
# by sex, states	# By state, medically?
# age group	# ethnic group.
# principal causes.	# Authorship
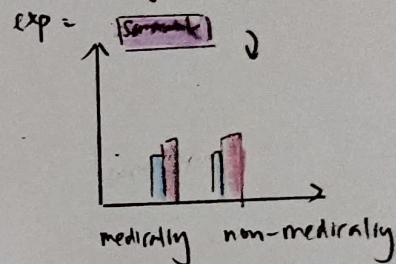
Discussion

Advantages:
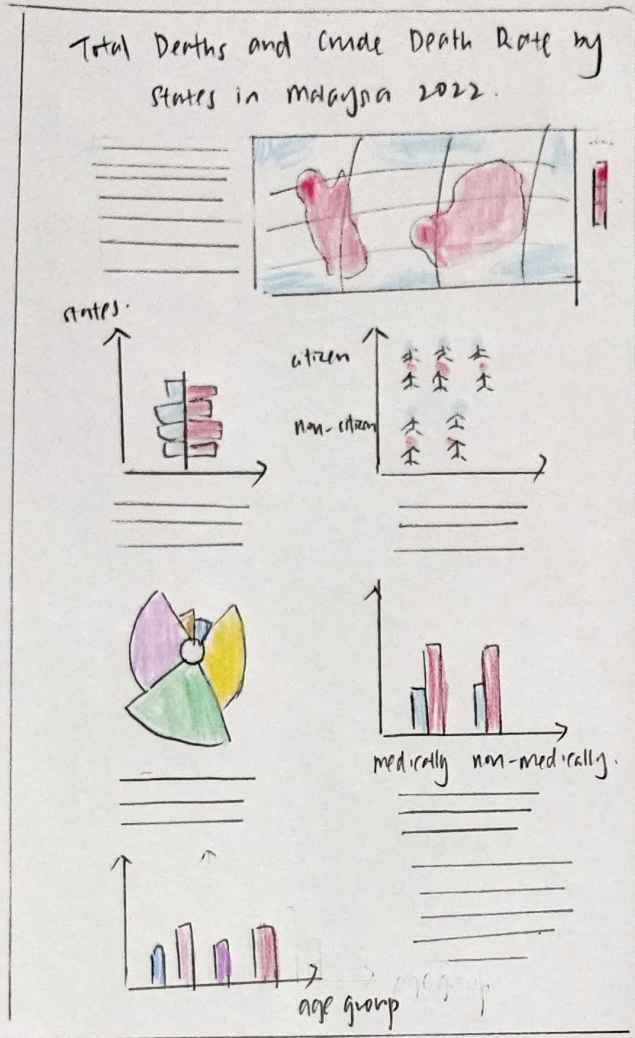
└ easy to follow

└ have user interaction (filtering)

└ have Authorship, avoid copyright.

Disadvantages

└ title too left, may occupied too many space.

└ arrangement of description too messy.

└ too many bar chart.

Layout

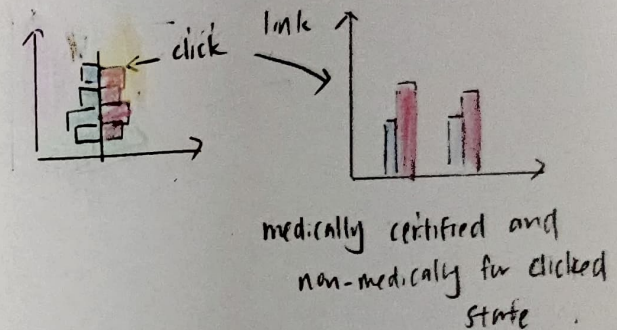Total Deaths and Crude Death Rate by States in Malaysia 2022.

states.

citizen

non-citizen

medically   non-medically.

age group

Operation

↳ when clicking the specific states in the bar chart, it will link to the medically and non-medically chart

← click   link

medically certified and non-medically for clicked state.

Focus

↳ no mainly focus on what

↳ emphasis the deaths for each states in Malaysia.

Title	
Map	
# By sex & States	# By ethnic group
# principal causes	# medically?
# By age group	

Discussion

Advantages:
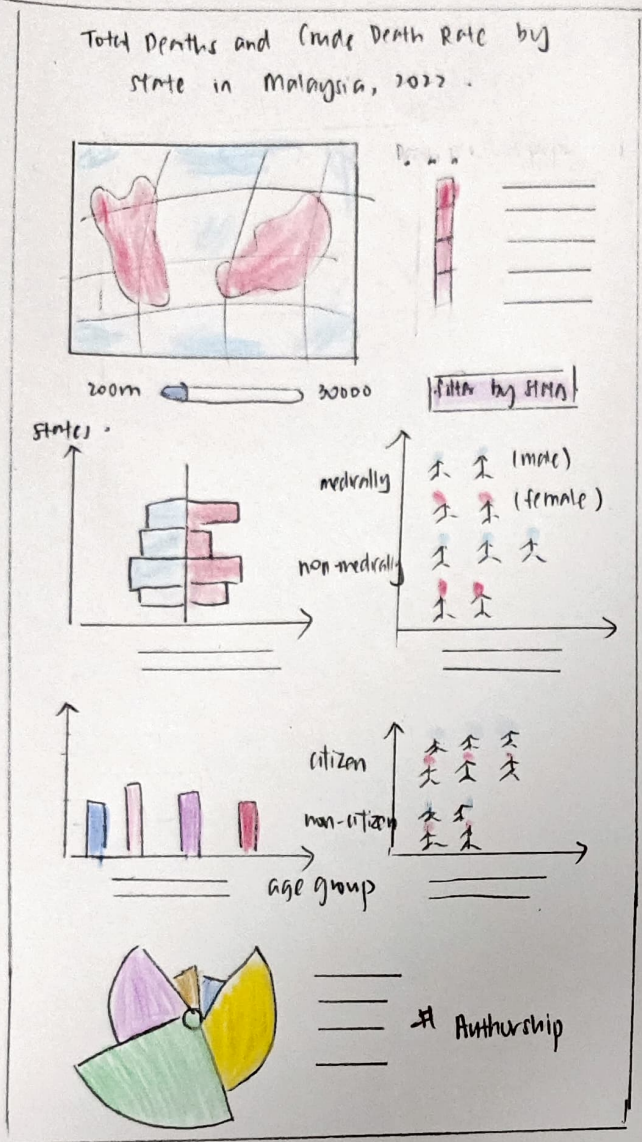
↳ well structured, scrollable, easier to read for user

↳ wider range of visualisation to be used

Disadvantages

↳ too many bar chart

↳ information overload.
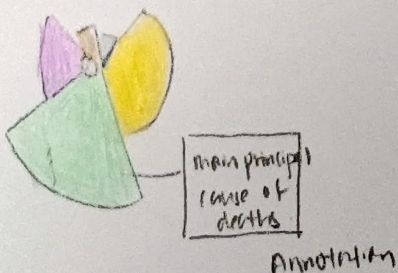
↳ arrangement of information and description confused

Layout

Total Deaths and Crude Death Rate by State in Malaysia, 2022.

zoom ⬤━━━ 30000

filter by state

states:

medrally ← (male) (female)

non-medrally

citizen

non-citizen

age group

Authorship

Operation

↳ can zoom choropleth map with a time slider.

zoom in →

zoom: ⬤━⬤━ 30000

zoom out ↙

zoom: ⬤━━━ 30000

Details

↳ Dependencis: Vega-Lite, GitHub, Visual Studio Code

→ creating map and diagram using Vega-Lite

→ make visualisation publicly accessible as a GitHub page

↳ Estimate time and effort:
  → at least 3 days to build all map and diagrams & 3 days for final design
  → 1 day for map
  → 1 day for Isotype dot plot
  → 1 day for bar chart and radar-chart
  → 2 day for research and organise data use for Vega-Lite.

↳ Specific requirement: ensure only scroll up and down, avoid left and right, make sure visualisation is clear and readability

Focus

↳ Emphasis annotation to guide the user. (most death state)

↳ main focus story telling

↳ all graph and chart is important

main principal cause of deaths

Annotation