# Ideas:

donations


states

donations / months/years — different states

each blood type / state (all blood types)

D / A / AB / B / O

choropleth map colour shows donations per x no of people

month / year

donation

rank
1
2
.
14

A / B / AB / O / states

donations

O / AB / B / A

months/years

donations

year

# Filter:

month

rank / A / B / AB donations / O
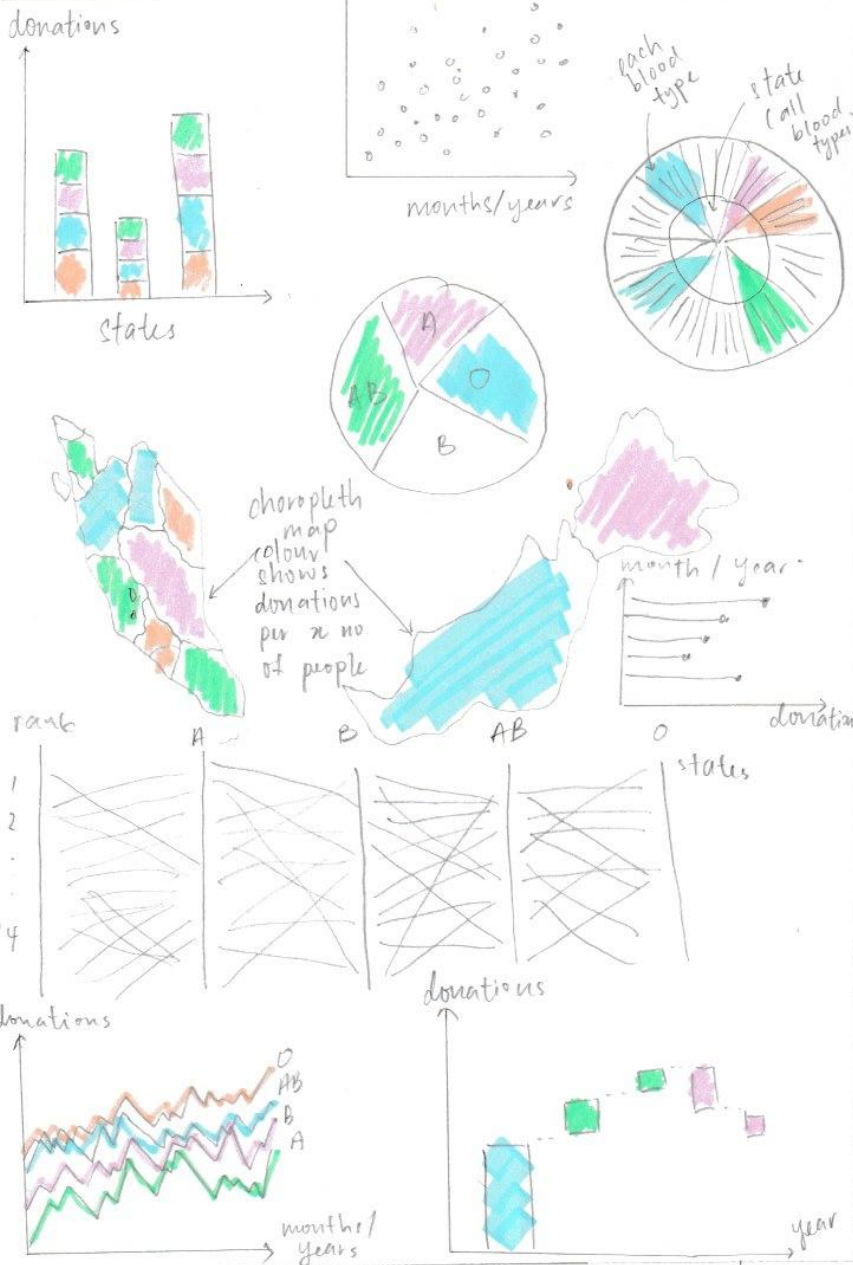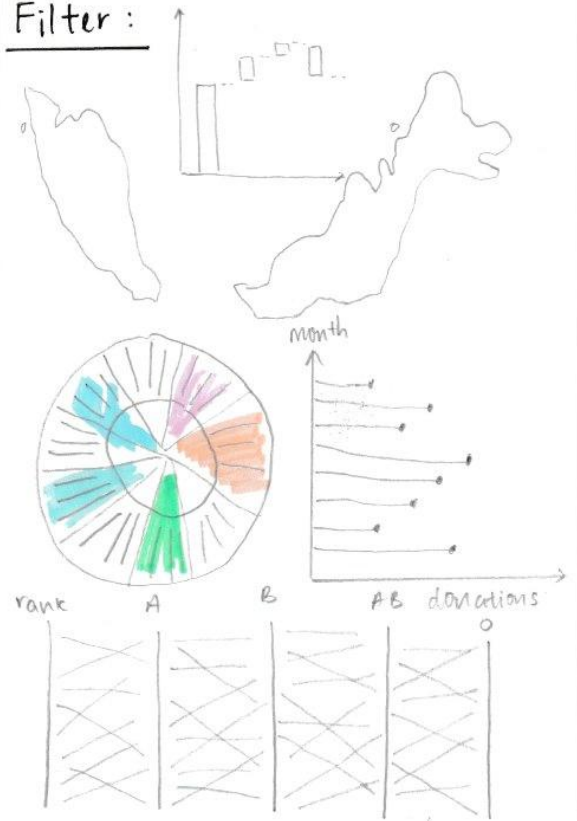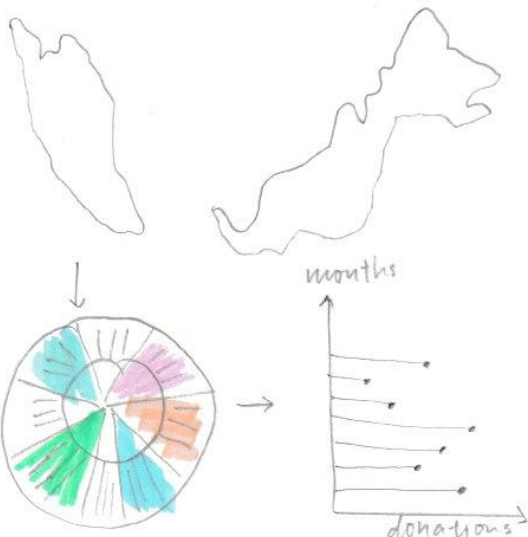
# Categerise:

normalised number of donations
↓
percentage donation for each state
↓
total number of donations
↓
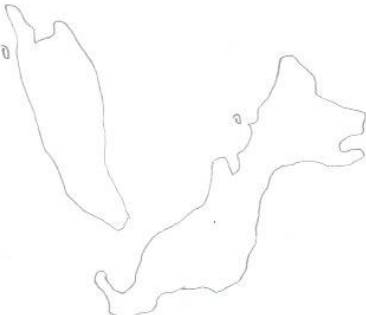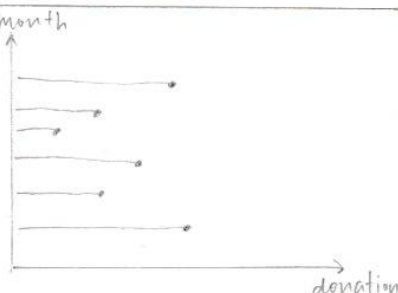rank for each blood type and each state

# Combine and Refine:

months

donations

rank / A / B / AB / O

# Questions:

- Does this visualisation tell the intended story?
- Are these charts / graphs / map fulfills clients needs?
- Can these show which blood type has the most donations?
- Is this too much or insufficient?

## Layout:

colour of the state shows the number of donations per 10,000 people

curious how many blood donors we have?

This graph can show the accurate amount of donation for a particular blood type

month ↑ / donations →

TITLE:
INSIGHTS OF
BLOOD DONATIONS

## Operations:

2016 Jan — 2024 Dec — year or month

☐ A    ☐ B    ☐ AB    ☐ O

☐ ALL

month ↑ / donations →

## Focus:

Year: ___
Blood Type: ___
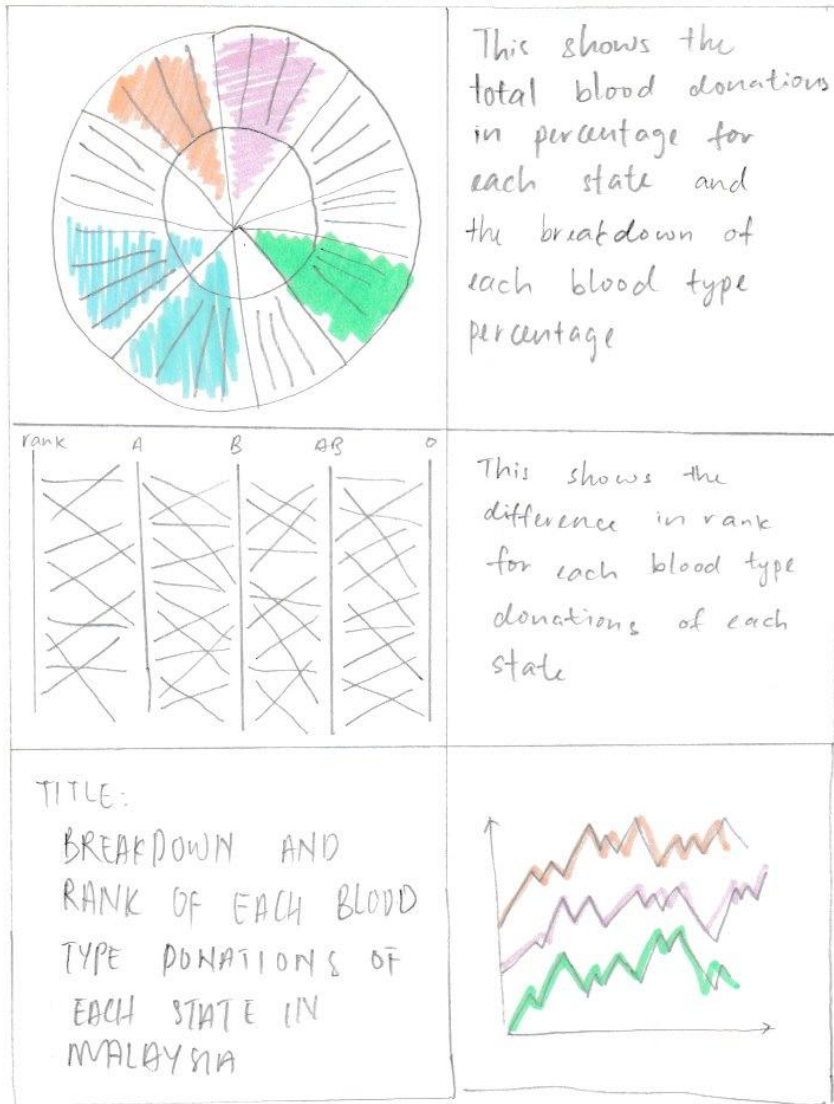Number of Donations per 10,000 people ___

## Discussions:

- Does the graphs / map provides insights to user?

- Are the information given and shown is what user needs / wants?

- Is there a need to give choices for each blood type for each state?

## Layout:



This shows the total blood donations in percentage for each state and the breakdown of each blood type percentage

| rank | A | B | AB | O |
|---|---|---|---|---|

This shows the difference in rank for each blood type donations of each state

TITLE:

BREAKDOWN AND RANK OF EACH BLOOD TYPE DONATIONS OF EACH STATE IN MALAYSIA



## Focus:



year: ____
state: ____
percentage: ____
total donation: ____

Year: ____
state: ____
blood type: ____
percentage: ____
donations: ____

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TITLE: Blood Donations by states

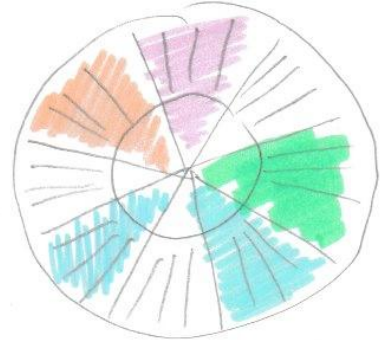AUTHOR: Hia Hung Xian

DATE: 25/ 09 / 2024

SHEET: 3

TASK: FIT 3179

## Operations:



year
2016            2024

month
Jan            Dec

☐ JHR   ☐ TRG   ☐ SLG   ☐ PNG
☐ MLK   ☐ NS    ☐ SBH   ☐ SRK
.... more states
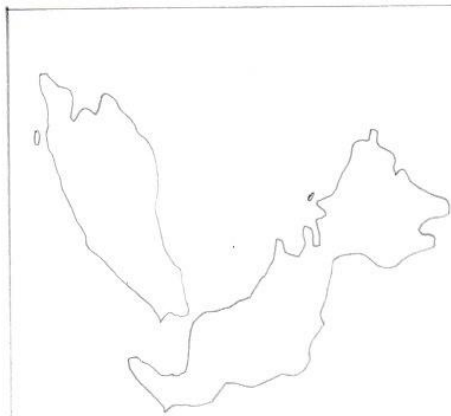
| rank | A | B | AB | O |
|---|---|---|---|---|
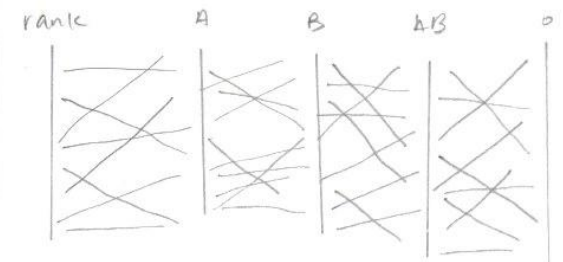
## Discussion:

- Does the graph / chart shows which states has most blood donations and which blood type?

- Does this visualisation helps with identifying which blood type might require more donations?
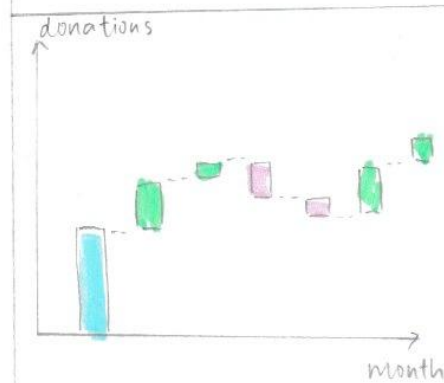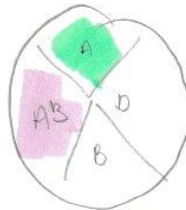
## Layout:



density / hue of colour will indicate the number of donations per 10,000 people

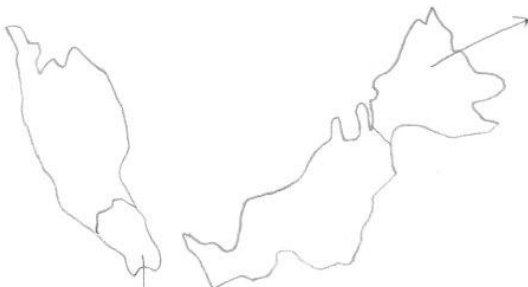curious about the number of donations per 10,000 people?

donations

this waterfall chart can show the increase and decrease in number of donations for each month in the year for a particular state
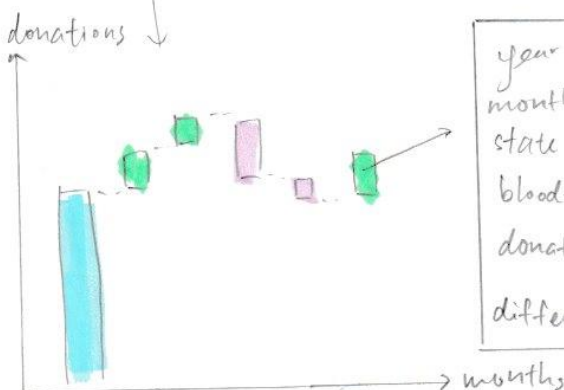
month

TITLE:
CHANGES IN THE NUMBER OF DONATIONS



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## Operations:



2016                    2024          year

donations

Johor →

□ A    □ AB
□ B    □ O

month

## Discussion:

- Does the graph shows the increase / decrease in donations from the previous month for a blood type of a state?

- Are users able to utilise the patterns in the graph to analyse the increase / decrease in donation?

## Focus:



year: ___
state: ___
bloodtype: all
donation per 10,000: ___ people

donations

year: ___
month: ___
state: ___
bloodtype: ___
donations: ___
difference: ___

months

## Layout:

INSIGTHS ABOUT MALAYSIA's BLOOD DONATIONS BY STATES



donations

month

rank    A    B    AB    O

## Focus:

map → hover :

sunburst
↓
click

month: __
blood type: __
percentage: __

year : __
state : __
blood type : all (default)
donations per
10,000 people : __

parallel
coordinates → click

waterfall
↳ hover

month:
difference:
blood type:

year __   month __
blood type: __
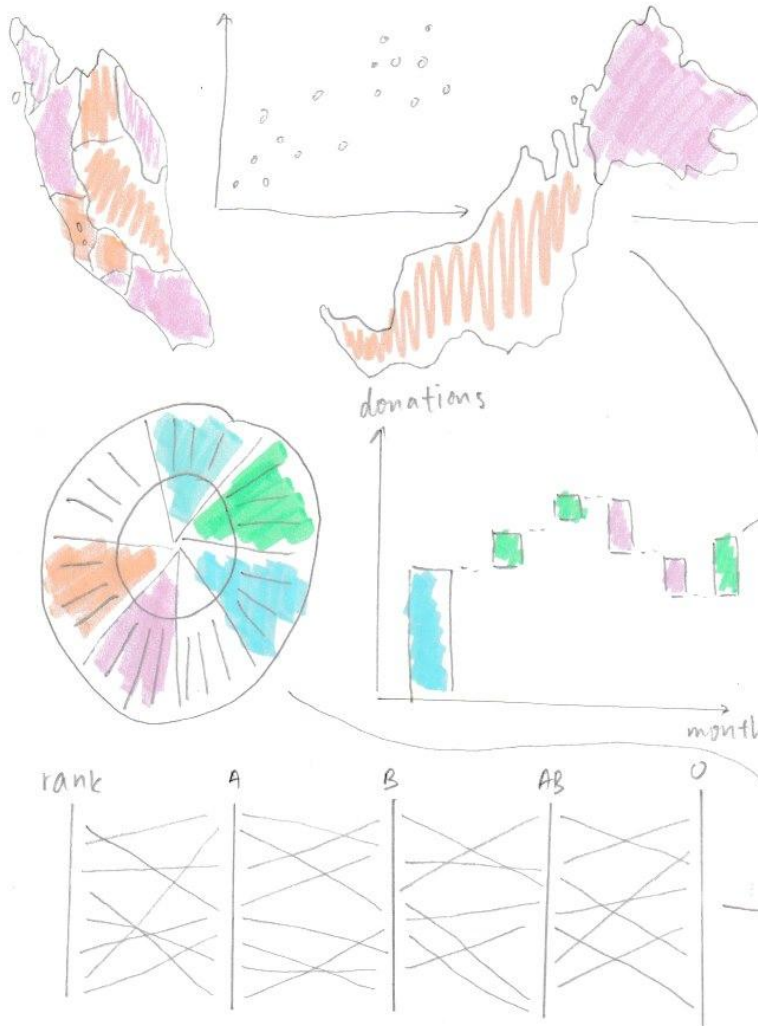rank : __
state : __

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TITLE: Blood Donations by States
AUTHOR: Hia Hung Xian
DATE: 26 / 09 / 2024
SHEET: 5
TASK: FIT 3179

## Operations:

2016                    2024
slider for years

☐ Perak      ☐ Perlis    ☐ Penang
☐ Kedah      ☐ Kelantan  ☐ Pahang
☐ Terengganu  ☐ Selangor
☐ Melaka     ☐ Kuala Lumpur
☐ Putrajaya  ☐ Labuan    ☐ Johor
☐ Negeri Sembilan
☐ Sabah      ☐ Sarawak

default
↓
☐ A   ☐ B   ☐ AB   ☐ O   ☐ ALL

☐ Jan ☐ Feb ☐ Mar ☐ Apr
☐ May ☐ Jun ☐ Jul ☐ Aug
☐ Sep ☐ Oct ☐ Nov ☐ Dec

multiple or single selection
can be made to view desired
visualisation for a state, blood
type, and month

## Details:

- Data collected in csv file
- Data cleaned using python
- time: 20 hours (visualisation)
         3 hours (web page)
         2 hours (report)
         ⇊
    approx: 13 days

- software: vscode /
             google colab