

IDEAS

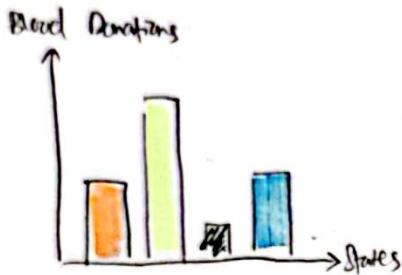
Title : Blood Donation in Malaysia

Data : Data.gov.my

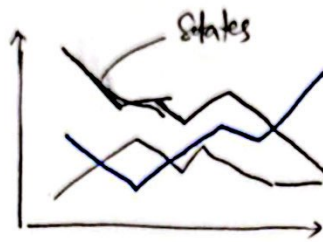
- Percentage of population who donated by each states
- Top States with highest donation count
- Donor Regularity By states
- Total Blood Donation by Blood types

Charts types

① Bar Chart



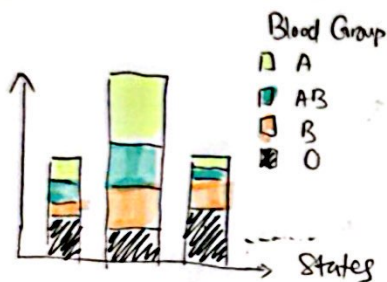
② Line Chart



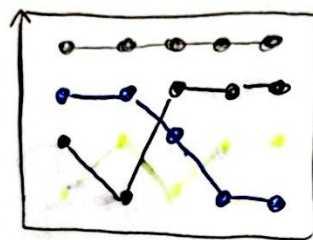
③ Word Cloud

Sarawak Melaka
Selangor Sabah
Johor Kedah
Perak OR

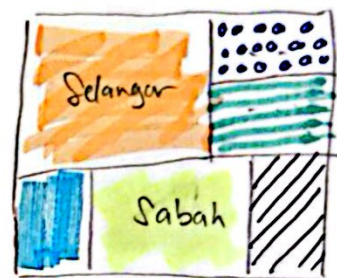
⑤ Stacked Bar Chart



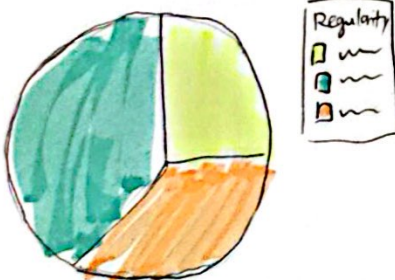
⑥ Bump Chart



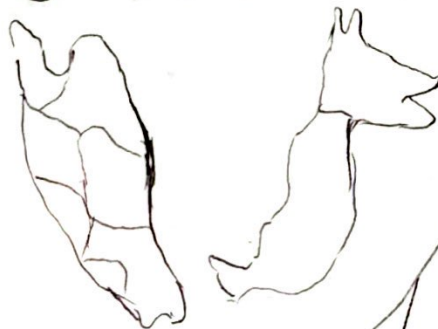
④ Tree Map



⑦ Pie Chart



⑧ Map Chart



Categorize

① Percentage of population

- Map
- Bar Chart
- Tree Map

② Top States with highest count

- Bump Chart
- line chart

③ Donor regularity

- Pie chart
- Tree Map

④ Total Blood Donation

- Stacked Bar Chart
- Tree Map

Filter

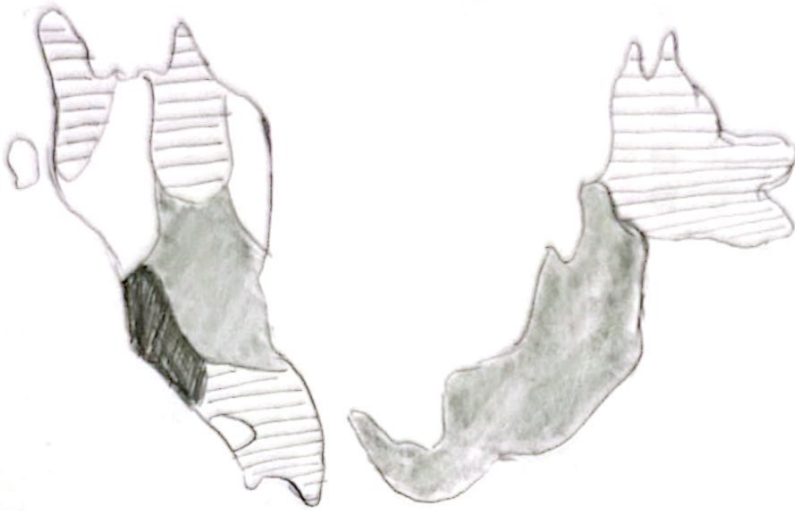
③ & ④ Doest not bring much useful information, delete

①, ②, ⑤ Similar representation, just choose 1

⑤ Can bring more info & clear comparison, choose ⑤

LAYOUT

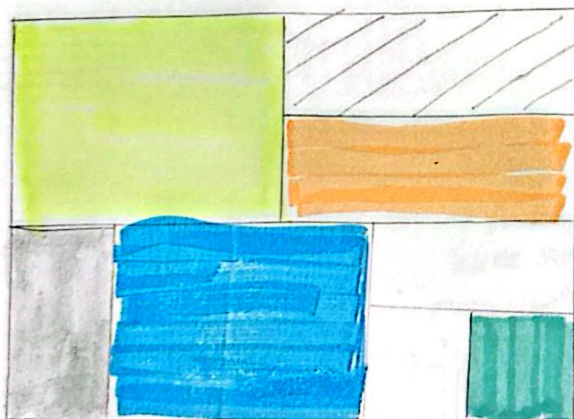
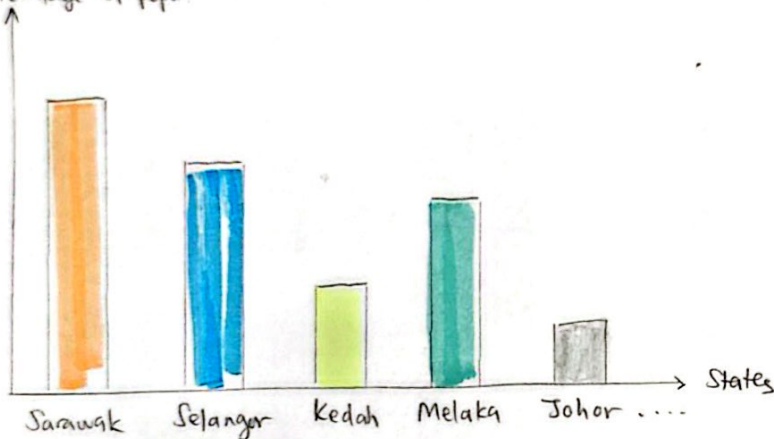
Percentage of Population Aged 17-65 Who Donated



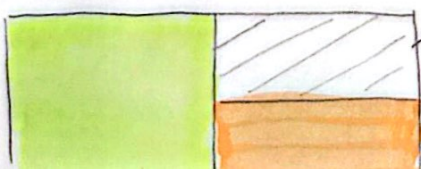
Percentage of Population

Percentage of popu

0-1 1-3 3-5 >5



Focus



Each cube represent 1 state, so 13 states will be 13 cubes in tree map

Title : Blood Donation in Malaysia

Author : Bong Zhang Wang

Date : 16/10/2024

Sheet : DS2

Operations

① Map Chart

- show the exact location of each states
- showcase the percentage based on colour scheme of each state

② Bar Chart

- each bar represent a state
- the height determine the percentage of each state

③ Tree Map

- each rectangular represent a state
- the size of the rectangular showcase the percentage

Discussion

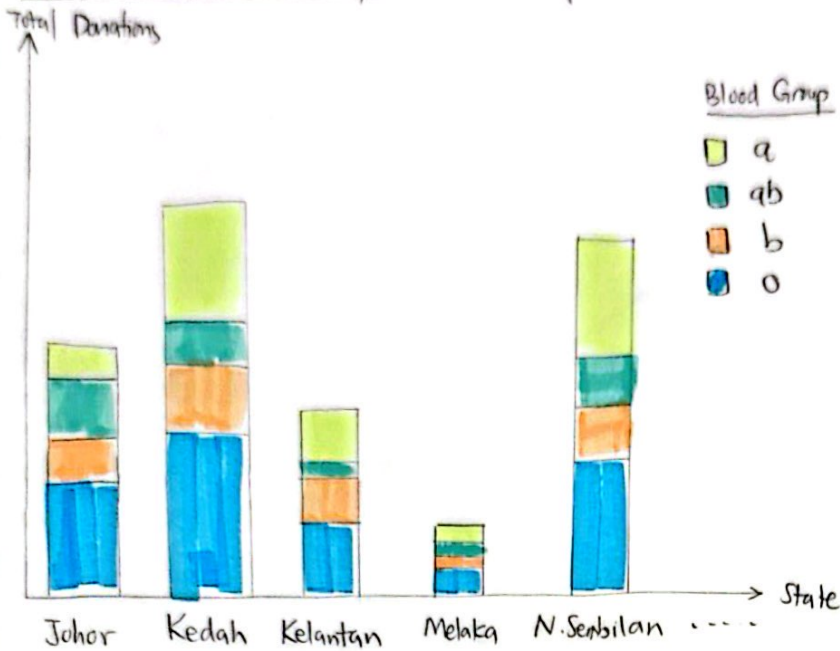
Choice : Map

Advantages :

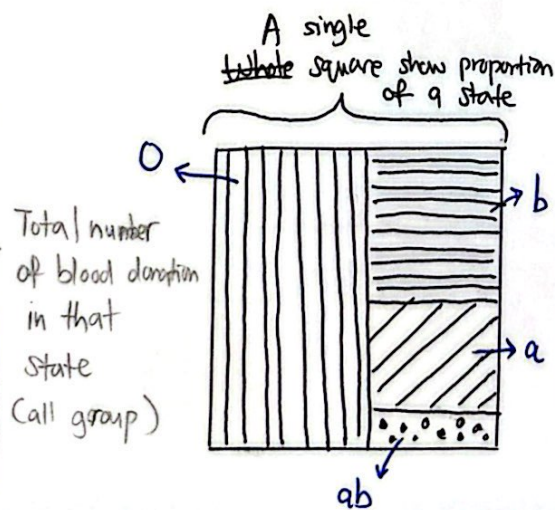
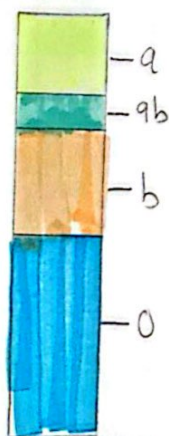
- telling the exact location of the respective percentage
- enable analysis based on location
e.g : compare between east & west Malaysia

LAYOUT

Total Blood Donations by Blood Group



Focus



Title : Blood Donation in Malaysia

Name : Bong Zhang Wang

Date : 12/10/2024

Sheet : DS 4

Operations

① Stacked bar chart

- each bar represent the total donations of each year
- each bar breakdown into 4 sections, respectively represent the 4 blood groups : a, ab, b, & o

② Tree Map

- each rectangular represent the total donations of each state
- inside each rectangular, there is 4 sections with different patterns, each pattern represent a blood group

Discussion

Choice : Stacked bar chart

Advantages :

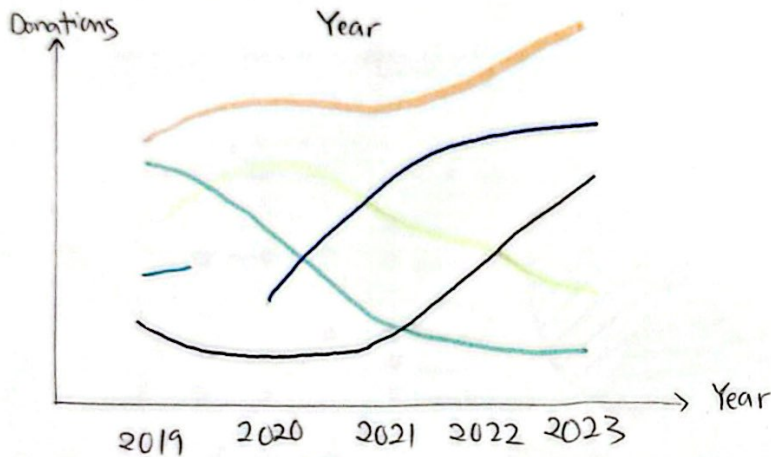
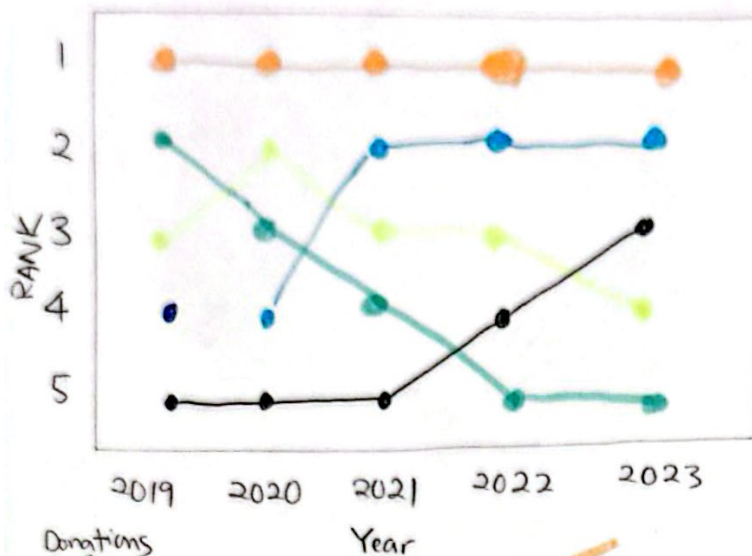
- imaging various useful information clearly
- clear comparison

Disadvantages of tree map :

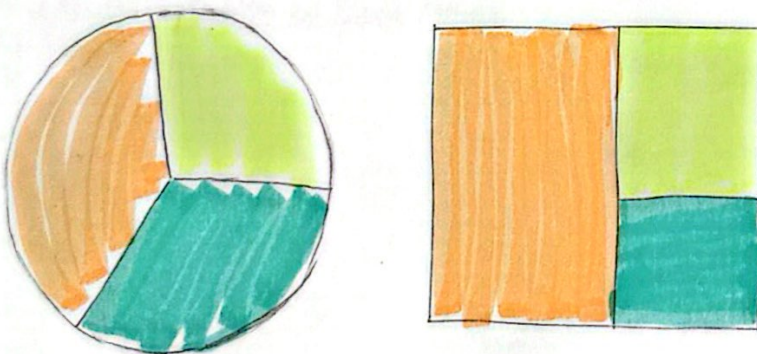
- too complicated
- crowded patterns cause confusion

LAYOUT

Top 5 States with Highest Donation Count



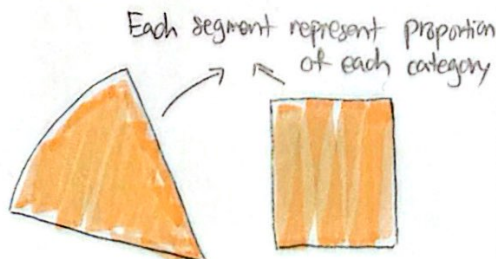
Donor Regularity by State



Focus



Each dot represent
a state



Title : Blood Donation in
Malaysia

Name : Rong Zhang Wang

Date : 12/10/2024

Sheet : DS 3

Operations

① bump chart

- each point represent a state
- the lines show the trend of the state

② Line chart

- each line represent a state
- the lines show the trend

① Pie chart & Tree map

- each segment represent a state
- the size of segment present the proportion of each category

Discussion

Top 5 highest state

choice : Bump Chart

Advantages :

- easy to compare the rank & trend
- simple & clear

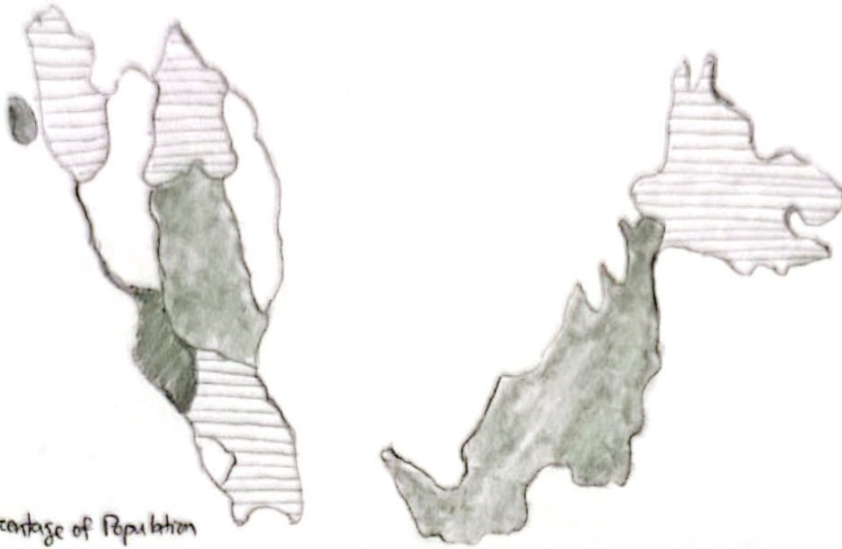
Donor Regularity

choice : Pie Chart

- Clearly compare the percentage
 - easy to implements
- Advantages

Final LAYOUT

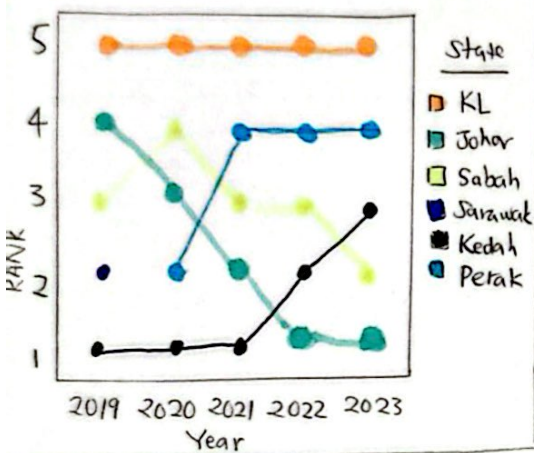
① Percentage of Population Aged 17 - 65 who Donated



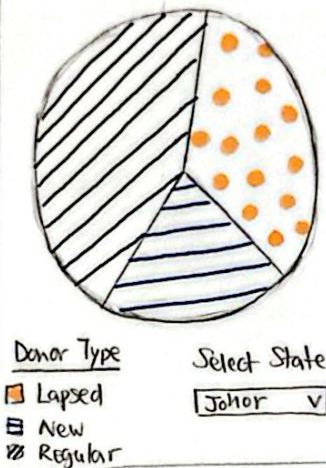
Percentage of Population

0-1 1-3 3-5 >5

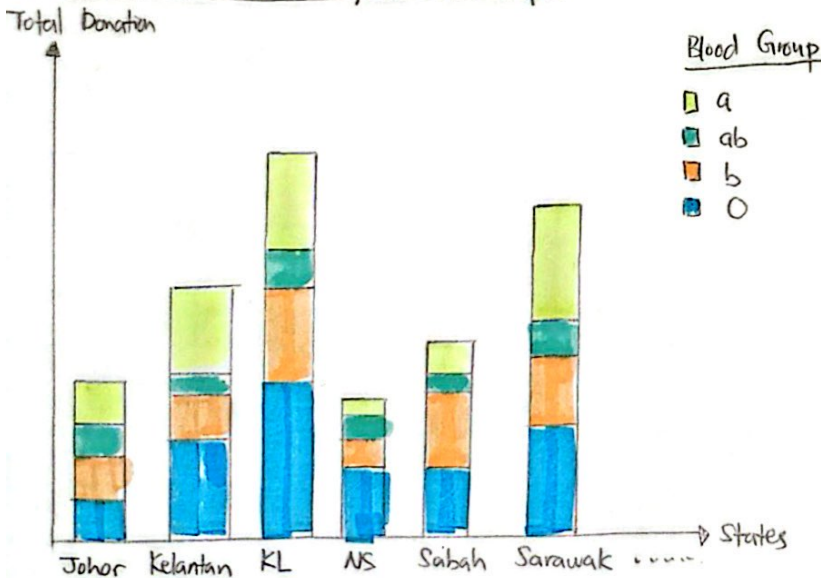
② Top 5 States with Highest Donation Count



③ Donor Regularity by State



④ Total Blood Donation by Blood Group



Select Year:

Select States:

2019

Johor

Sarawak

Kedah

Title : Blood Donation in Malaysia

Name : Bing Zhang Wang

Date : 12/10/2024

Sheet : DSS

Operation

- ① Map shows the percentage of population based on colour scheme. The darker the colour, the higher the percentage
- ② Bump chart displays the ranking of top 5 states which have the highest donations count. for past five years
- ③ Pie chart display the composition of donor regularity by each state
- ④ The stacked bar chart showcase the comparison between state in terms of blood group and overall donations.

Detail

- ① Interactive tooltips showing the percentage when pointing on each state
- ② The connections between points show the performance of a state throughout years. Eg: a straight line means consist
- ③ Drop down list enable reader to select the state they wish to view.
- ④ Slider enable year selection. Check enable state selection on chart to be displays.