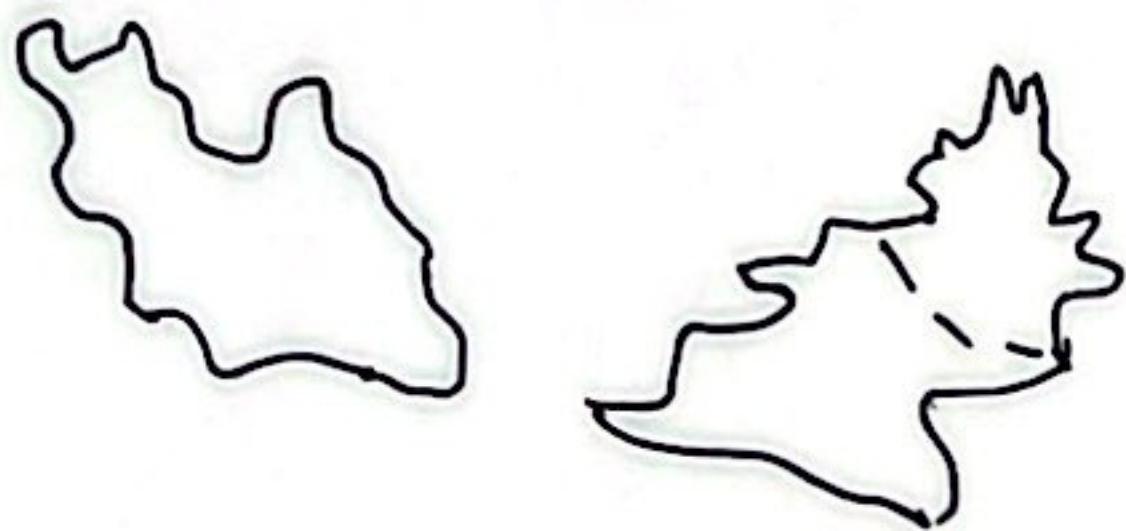
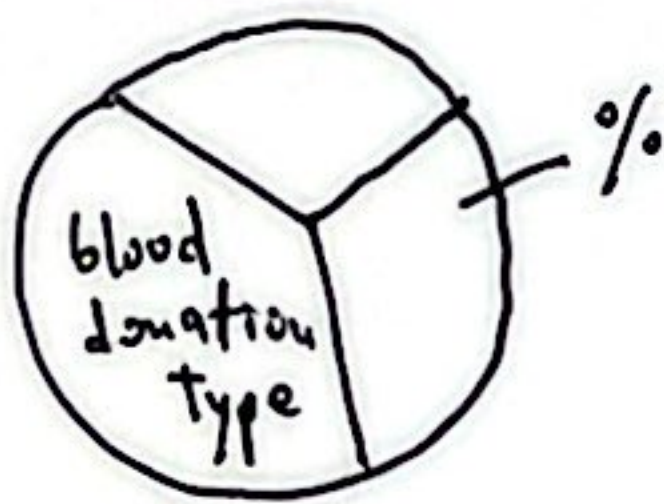


Ideas

(1) Choropleth Map



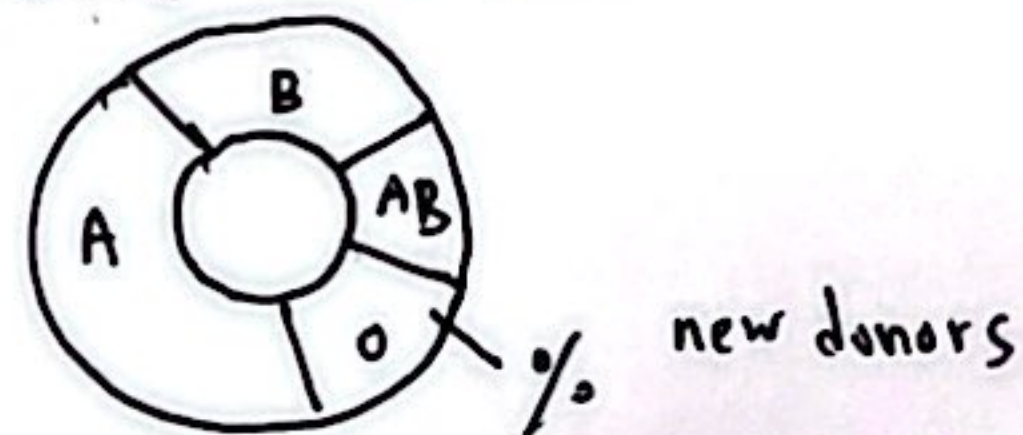
(4) Pie Chart



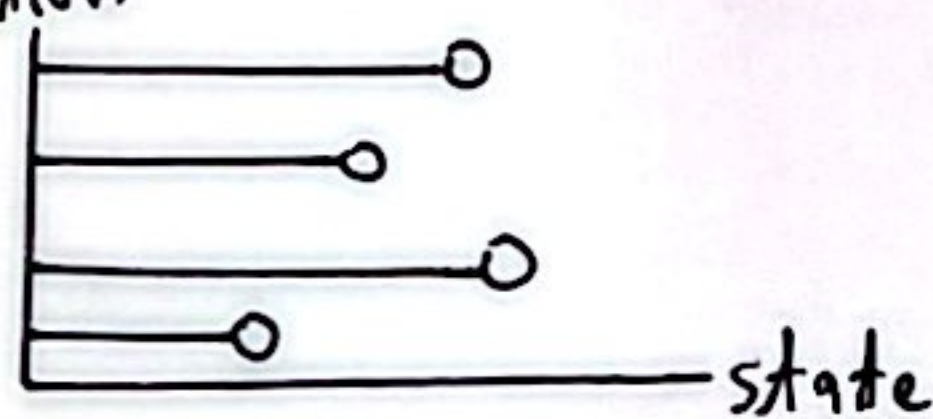
(7) Radial Bar Chart



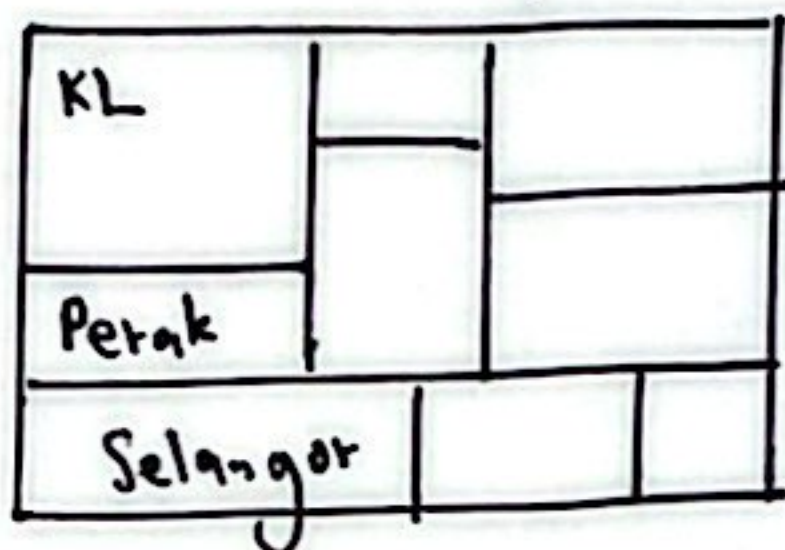
(8) Donut Chart



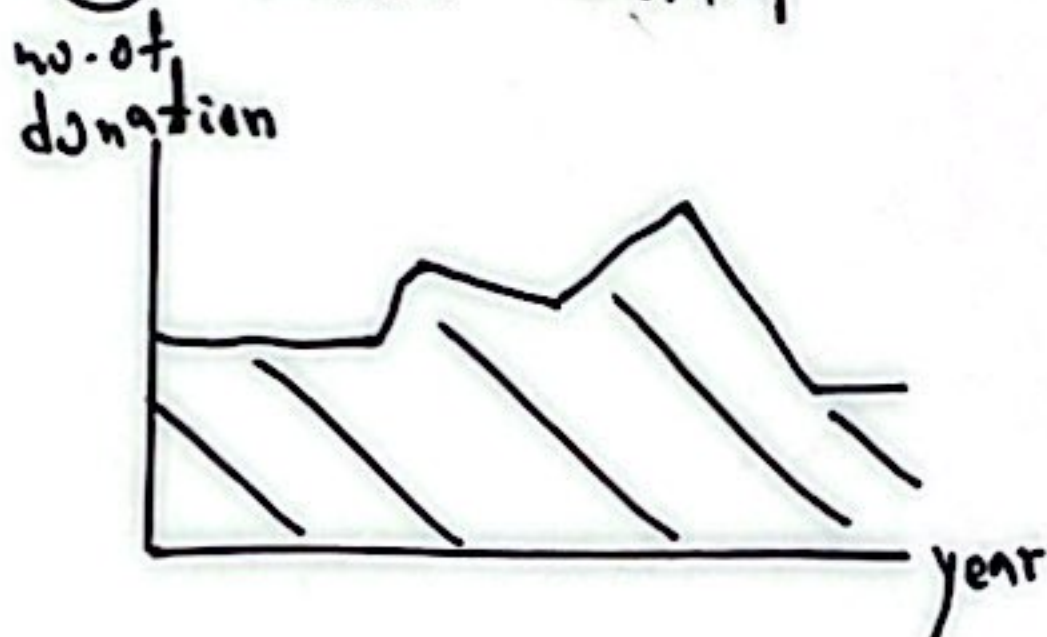
(9) Lollipop Chart



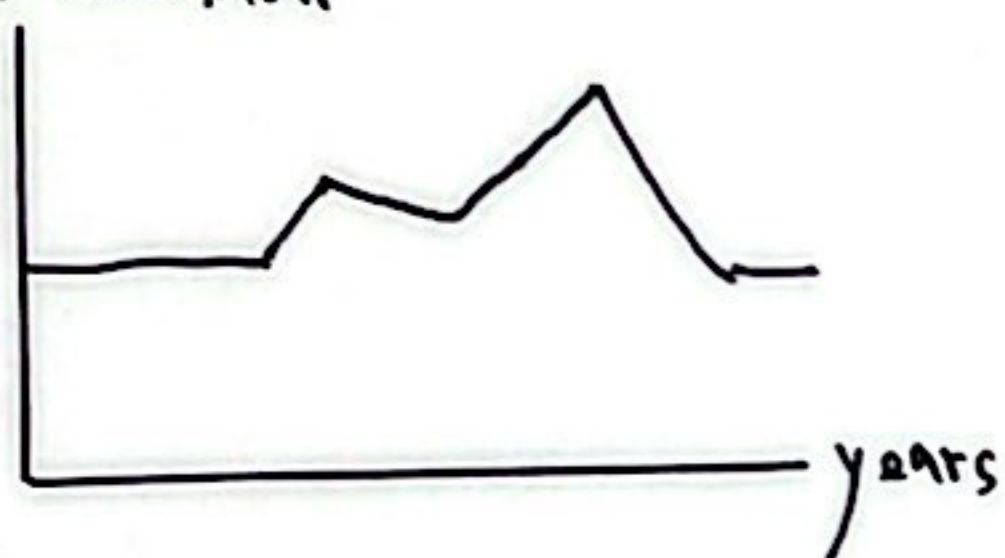
(5) Tree Map



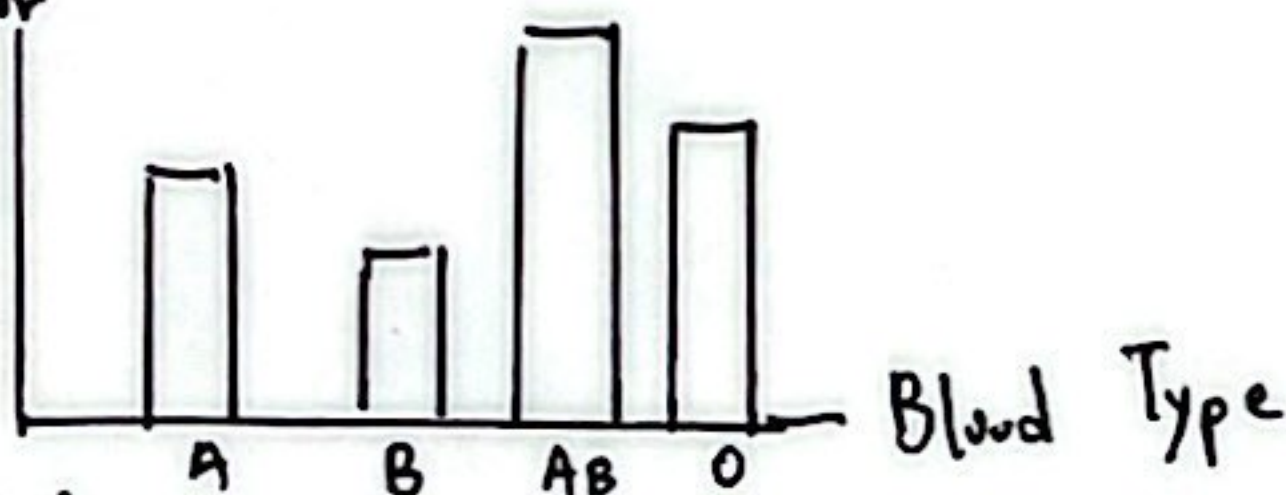
(6) Area Chart



(2) Time Series Line Chart



(3) Bar Chart



Filter

Categorize

Combine & Refine

→ (5) & (9)

kinda overlapped
w (1) for showing
the trend of
most donors

(I) Age Group

(6), (7), (9)

(II) Blood Type

(3), (8), (9), (10)

(III) State

(1), (5), (9)

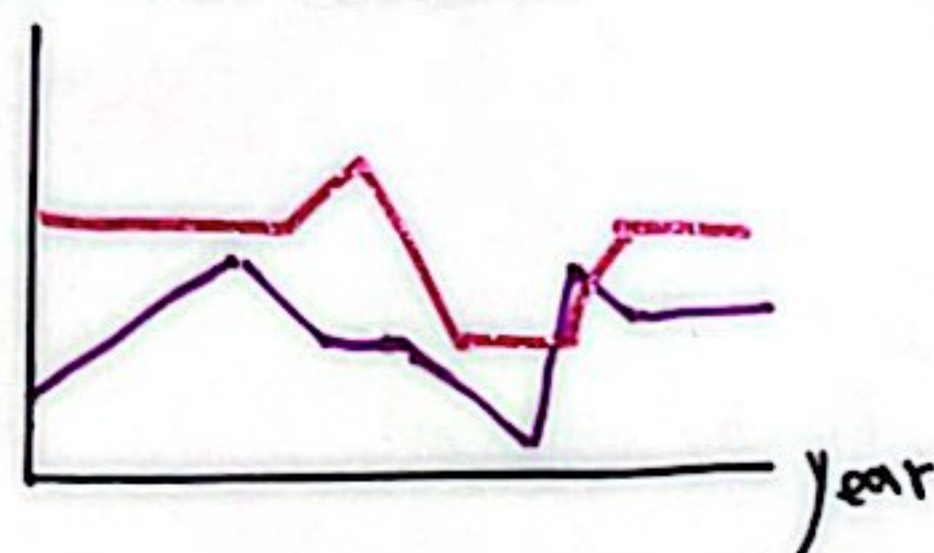
→ (7) & (6) both
uses same
attribute (no. of
donations based
on age-grp).

thus can just use
either one.

(A) Multi-line time series chart

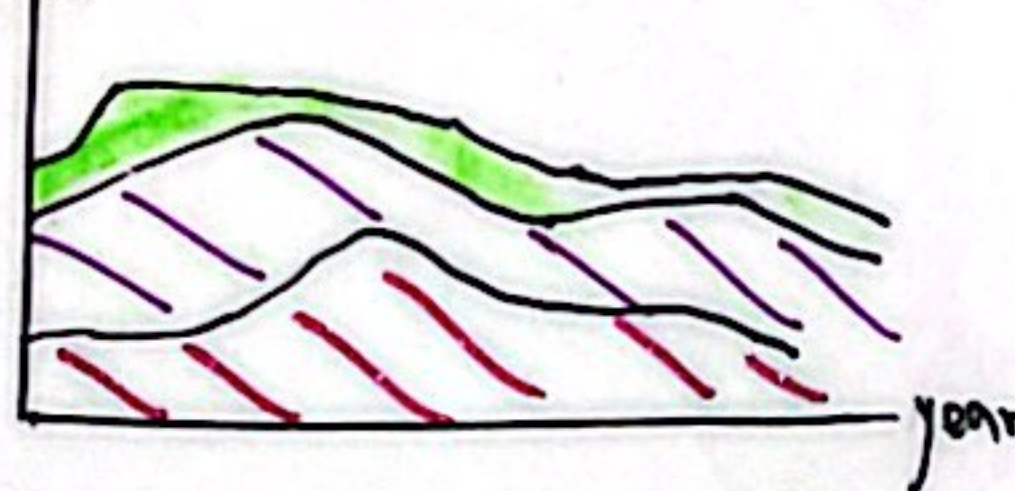
no. of total donation

17-24
25-29



(B) Stacked Area Chart

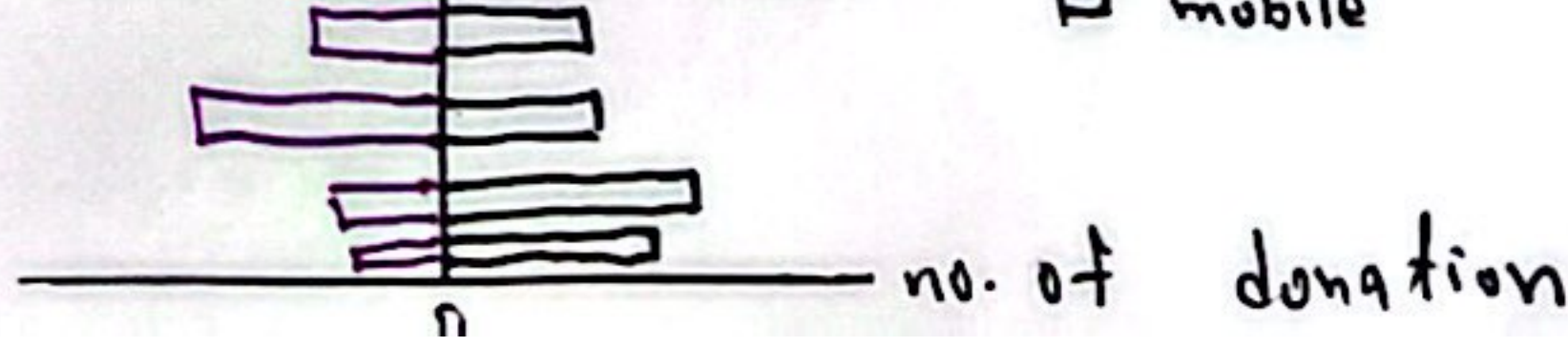
no. of new
donors



(C) Butterfly Chart

centre blood type mobile

location
■ centre
□ mobile



LAYOUT

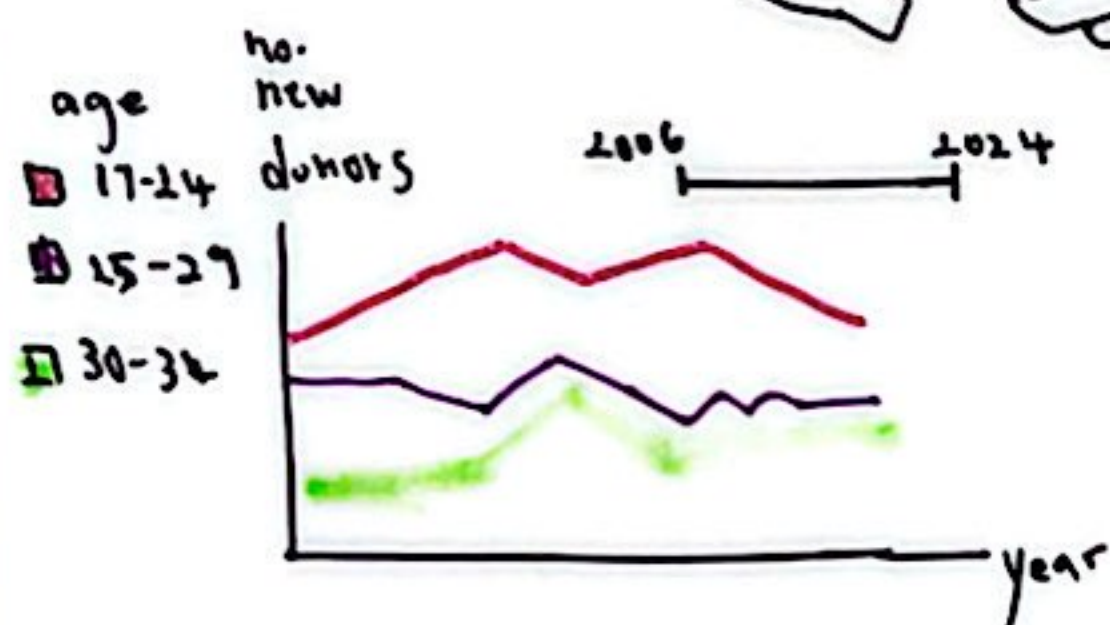
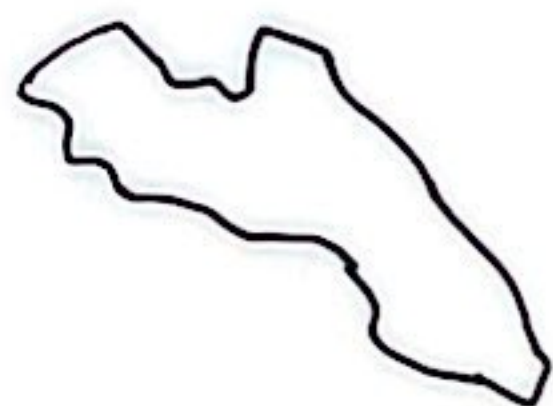
Title

Description

no. of donation

100000

500

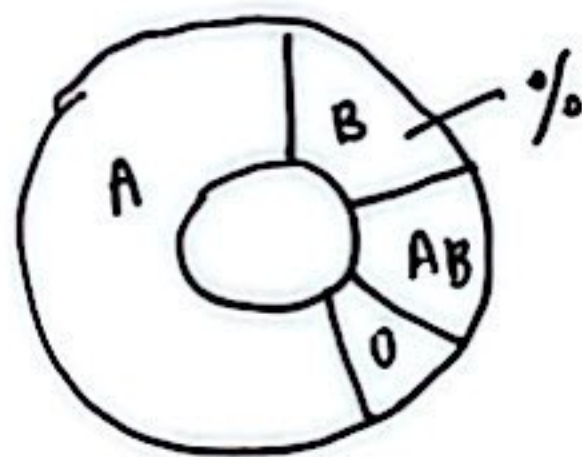


Description

Description

Description

donation type



INFO

TITLE: Blood Donation In MAS

AUTHOR: LOK MEI HUI

DATE: 30/9/2024

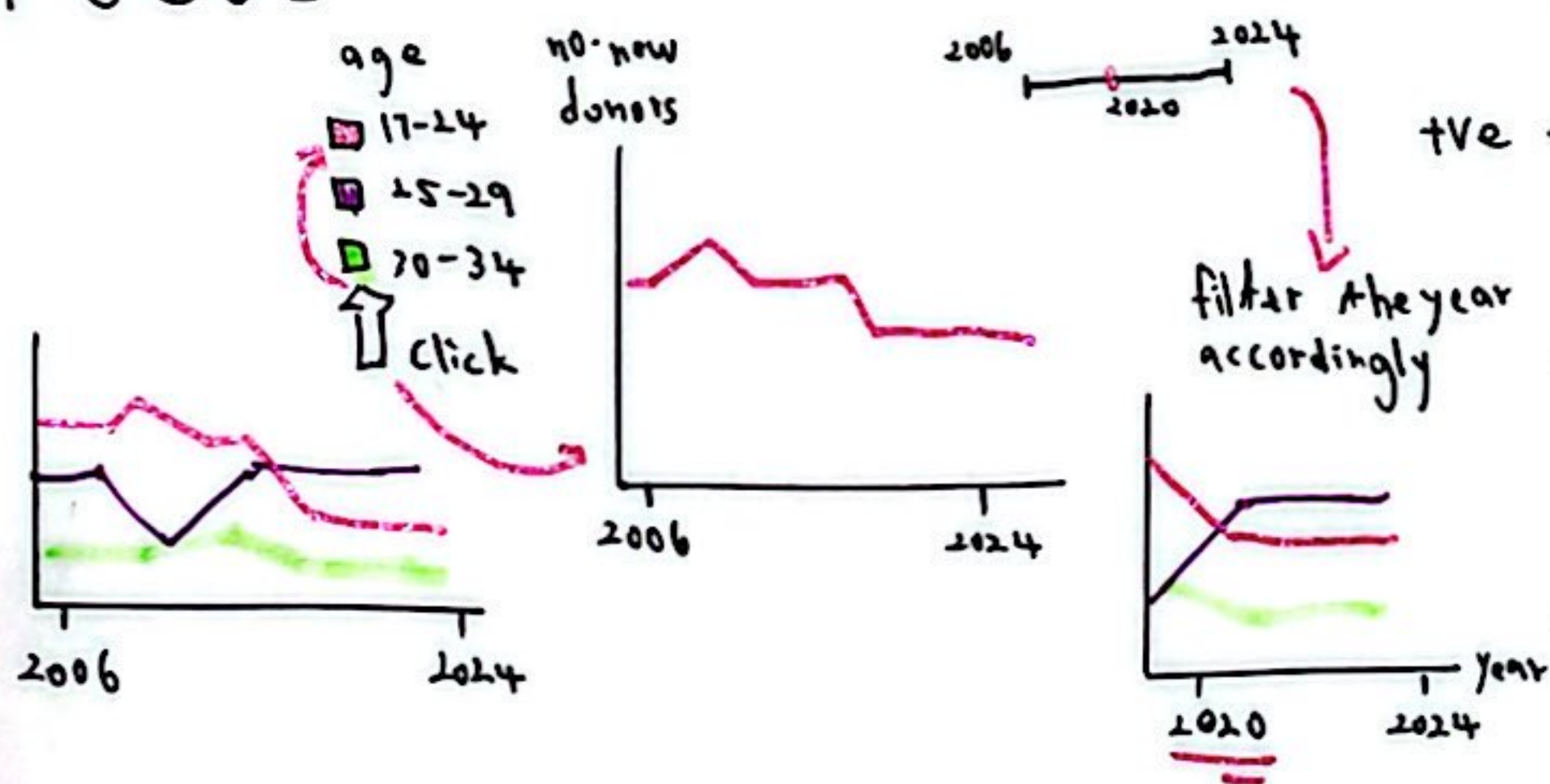
SHEET: 02

TASK: Visualise blood donation trend across MAS

OPERATIONS

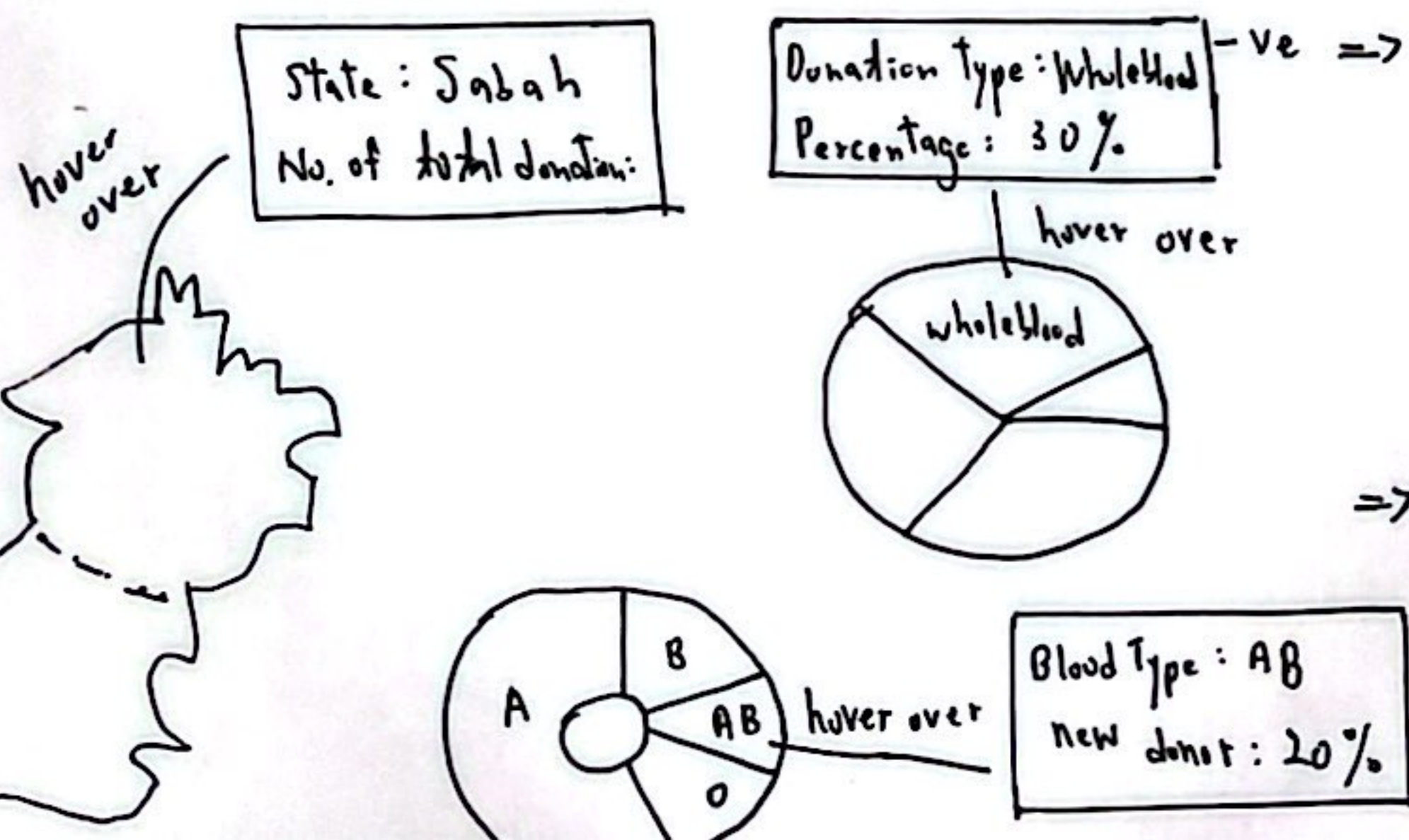
- ① Hovering over the state will display detailed data in a tooltip.
- ② Filter option is provided to filter the data based on year, using the slider filter.
- ③ Clicking age grp on legend will also filter the data on line chart.

FOCUS



DISCUSSION

- hovering data allow user to determine more details regarding the data
- provide a quick visual presentation of the donations method.
- allow user to filter the year to view trend between certain years.



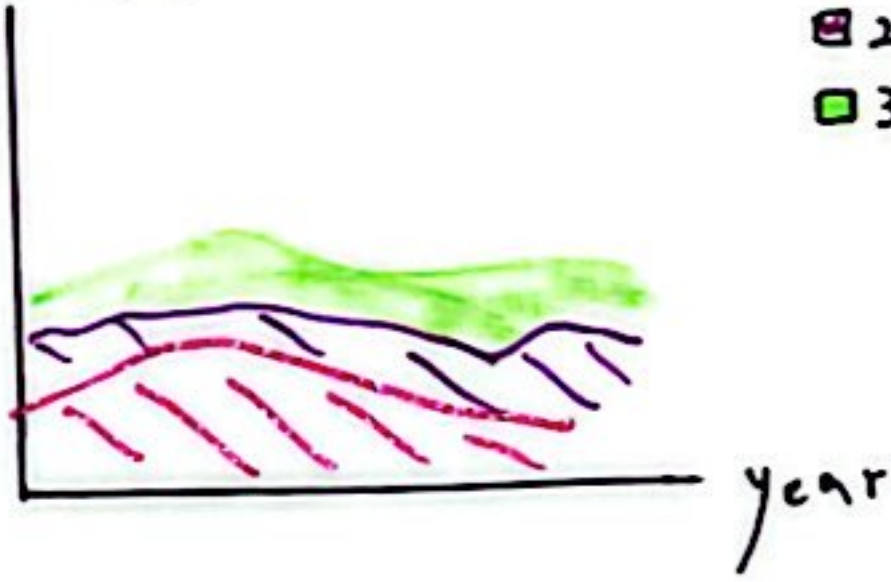
- Pie Chart & Donut Chart might be hard to interpret as humans are usually not good at judging relative sizes of angle.
- slider filter increases cognitive load as user need to think which part of the chart to focus on.

LAYOUT

Title

Description

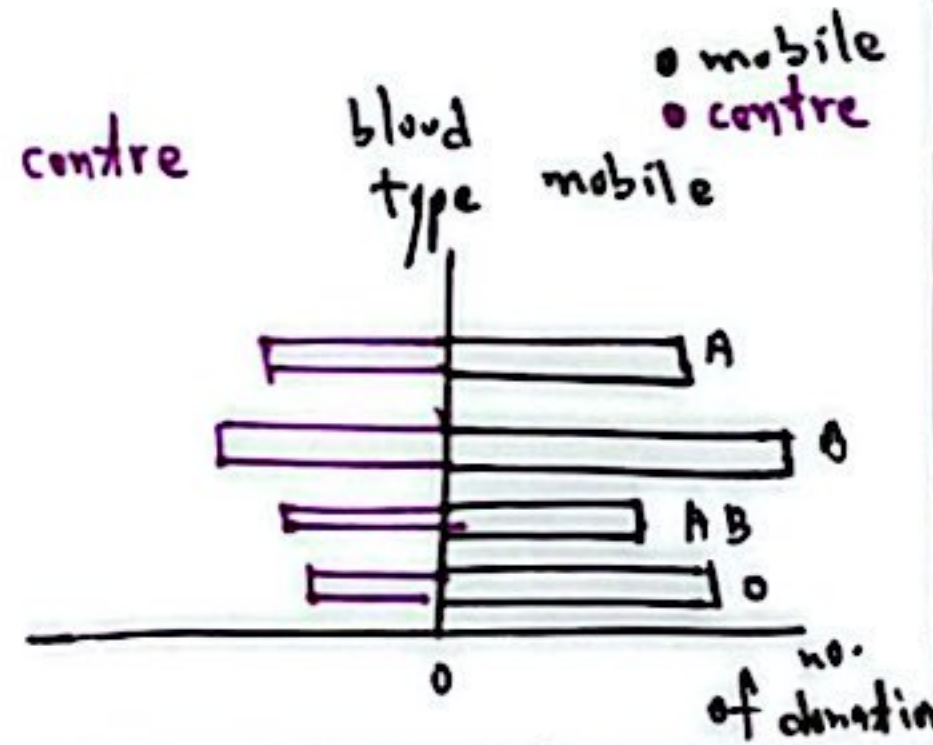
no. of donation



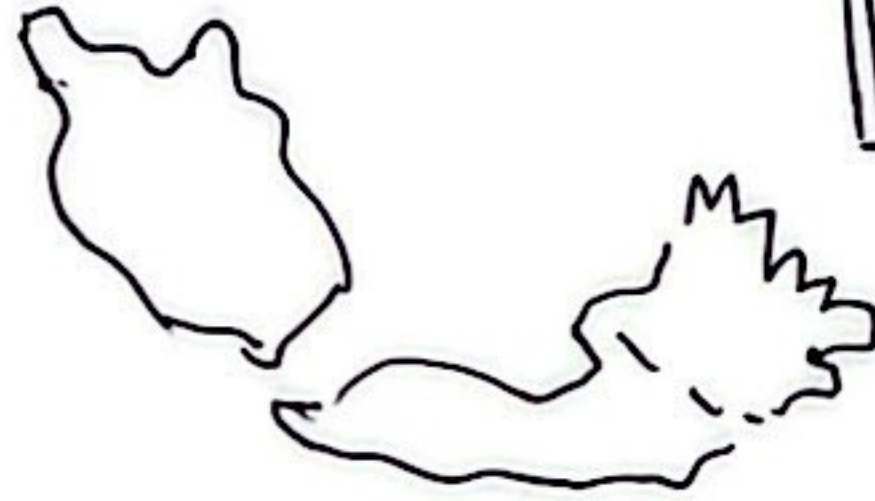
17-24
25-29
30-34

Description

Description



no. of donation
100000
50000



INFO

TITLE: Blood Donation In MAS

AUTHOR: LOK MEI HUI

DATE: 30/9/2024

SHEET: 03

TASK: Visualise Blood Donation Trend Across MAS

OPERATIONS

- ① Hovering the state will display details in a tooltip.
- ② Clicking the area will filter the age group accordingly in stacked area chart.
- ③ Checking / Unchecking the location to show data of butterfly chart related to chosen location.

FOCUS

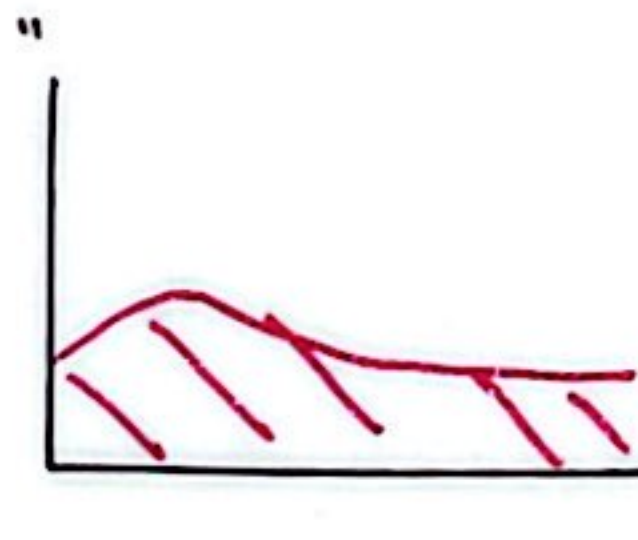
State: Sabah
No. of donation:

hover over.

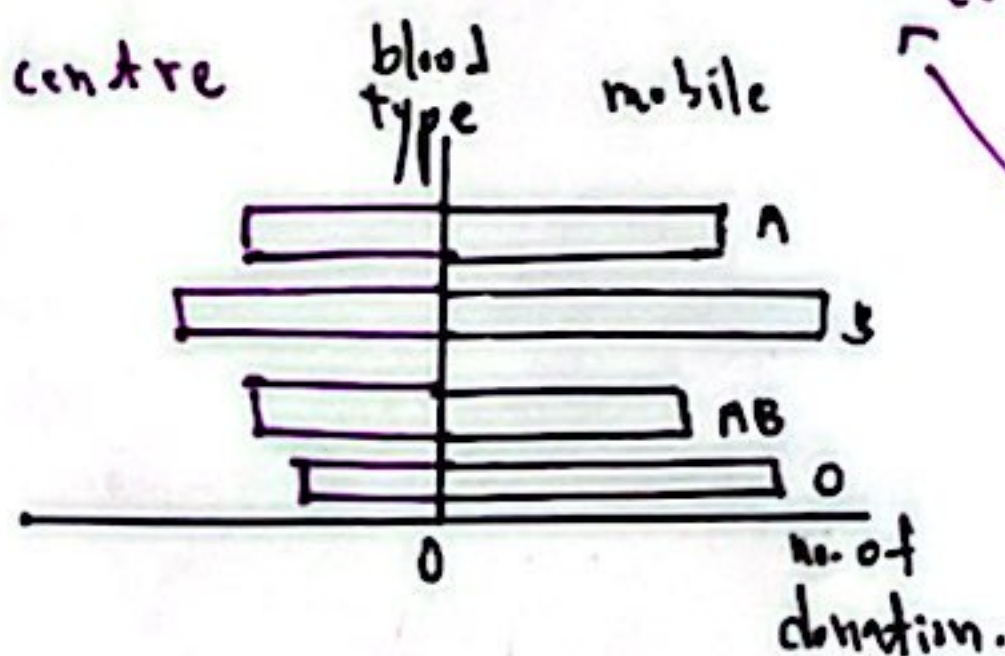
no. of donations

click

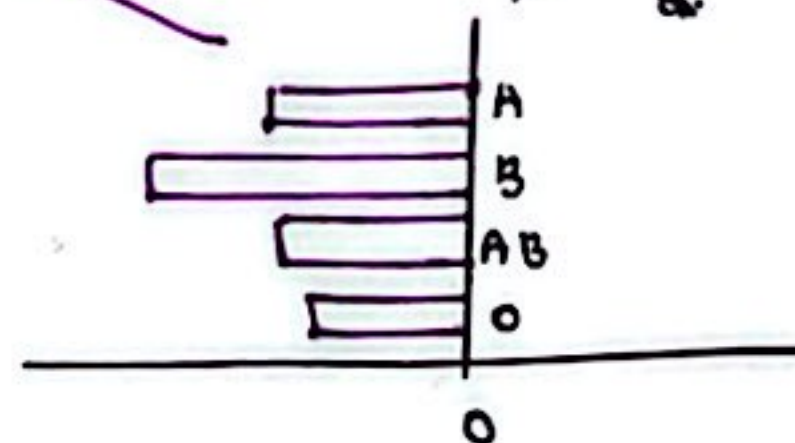
17-24
25-29
30-34



mobile
centre



will change butterfly chart based on type of location.



DISCUSSION

+ve \Rightarrow Allow user to hv interactive attention by allowing them to select & shows changes on the design (stacked area & butterfly).

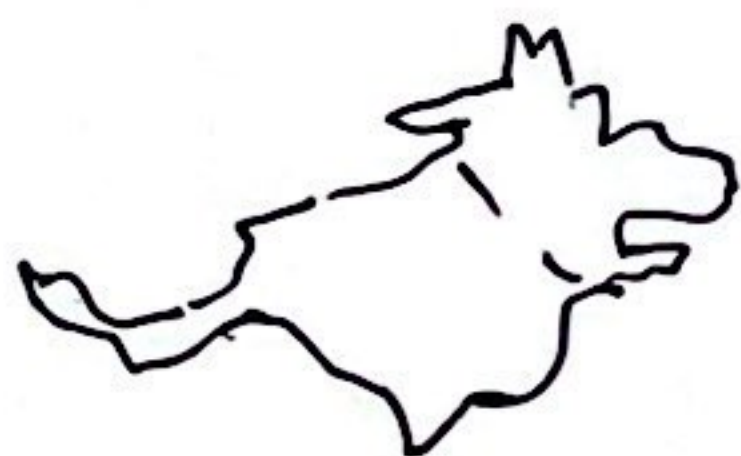
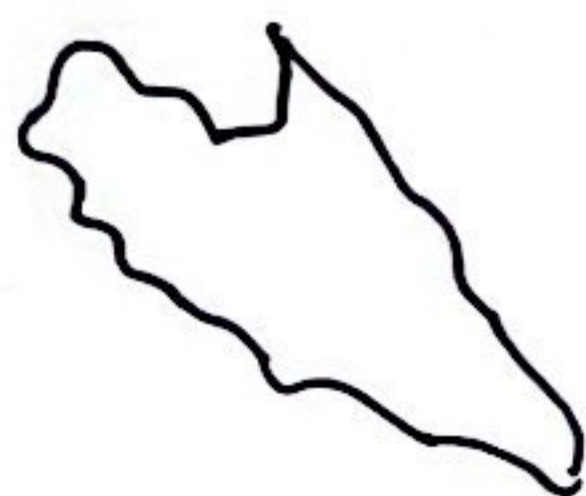
\Rightarrow user get to view the locations together or seperately, depending on what they want to analyse.

-ve \Rightarrow hard to read the data of stacked area chart.

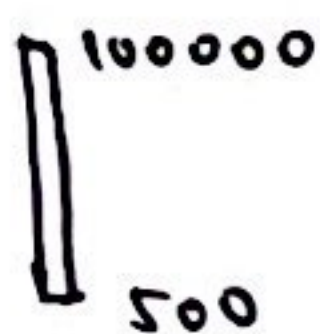
\Rightarrow only 4 category of blood type not suitable for the used of butterfly chart.

LAY OUT

Title



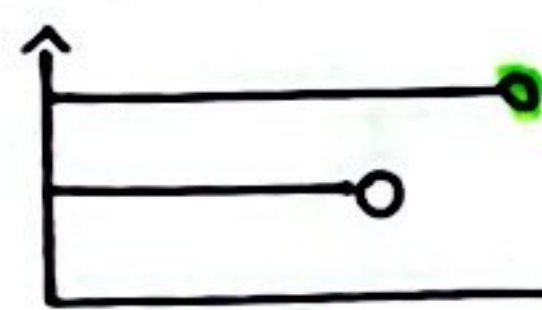
no. of donation



Description

mobile
centre

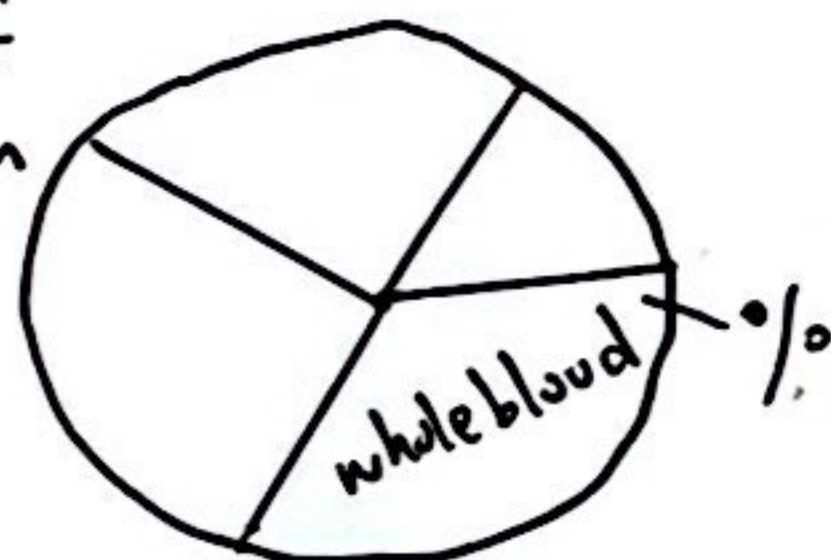
location



no. of donation

Description

type of donation

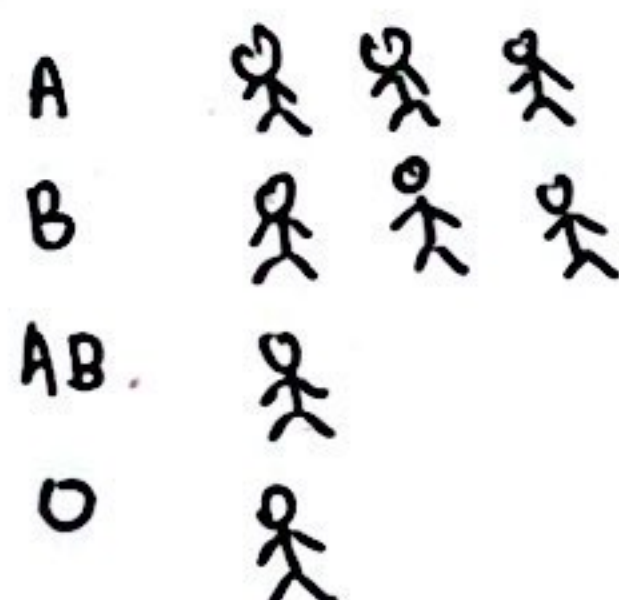


Description

17-24
25-29
30-34



Description



10k ppl

INFO

TITLE: Blood Donation In MAS

AUTHOR: LOK MEI HUI

DATE: 30/9/2024

SHEET: 04

TASK: Visualize blood donation trend across MAS

OPERATIONS

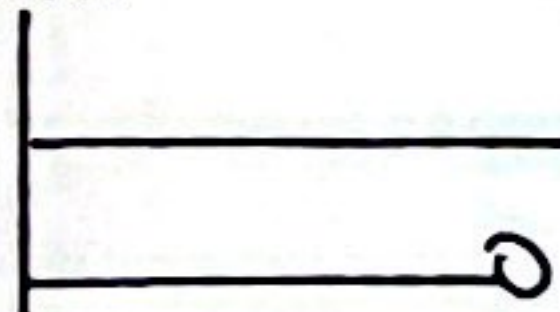
- ① Hovering over the state will display details in a tooltip
- ② Clicking the age grp on legend will filter data of radial bar chart
- ③ Hovering / Selecting the section of pie-chart will display tooltip.
- ④ Clicking the location on legend will filter the data (lolipop & pie chart)

FOCUS

State: Sabah
No. of donations

hover over

location



no. of donation

click
mobile
centre

change lolipop & pie chart based on selected location



click

17-24
25-29
30-34

will only show for age group 17-24



no. of donation

DISCUSSION

+ve => Give interactive attention for user when select smtg & show changes on the chart (lolipop & pie chart)
=> Isotype is eye-catching & interesting
=> Radial bar chart help in understanding relative proportions of different categories.

-ve => Isotype dot chart might be hard to read.

=> lolipop chart is more suitable to show a series of values.

Donation Type:
Overall:

hover over

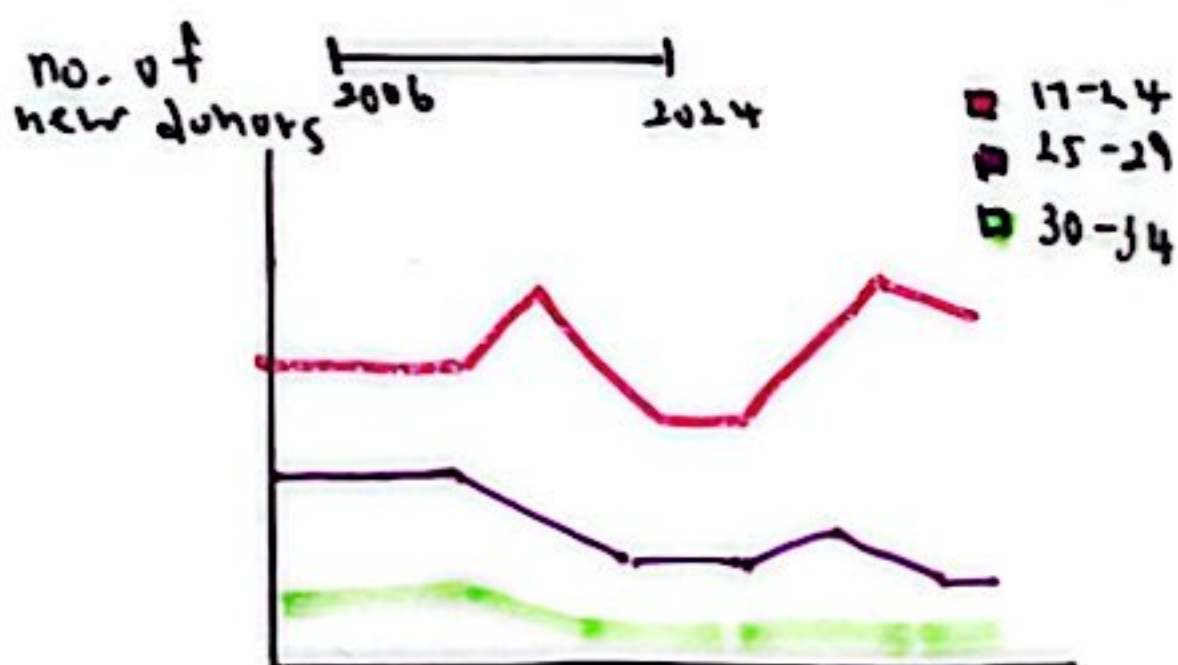
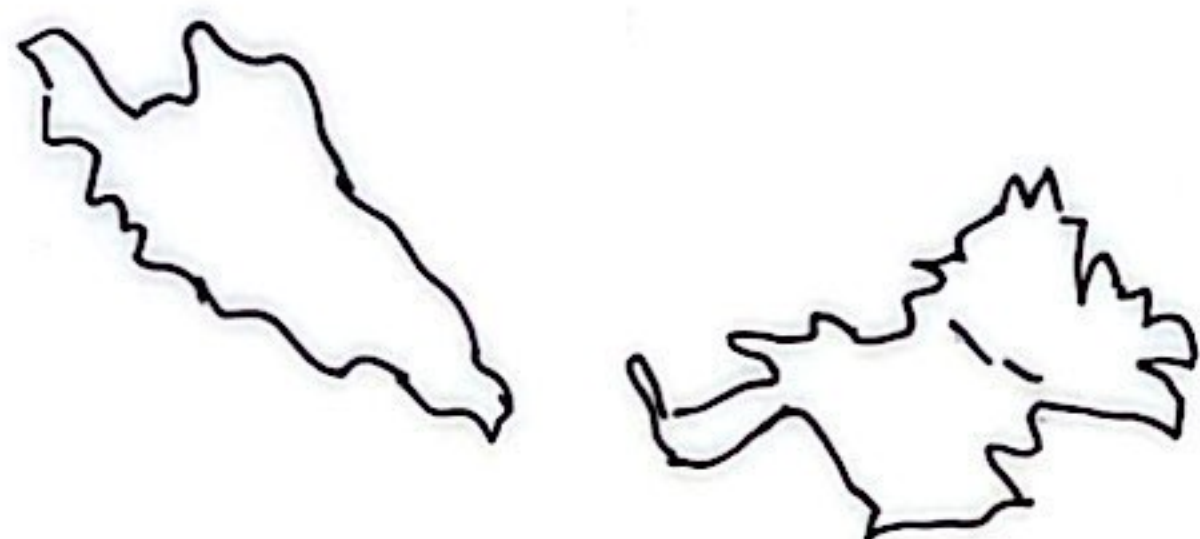


LAYOUT

Title

Description

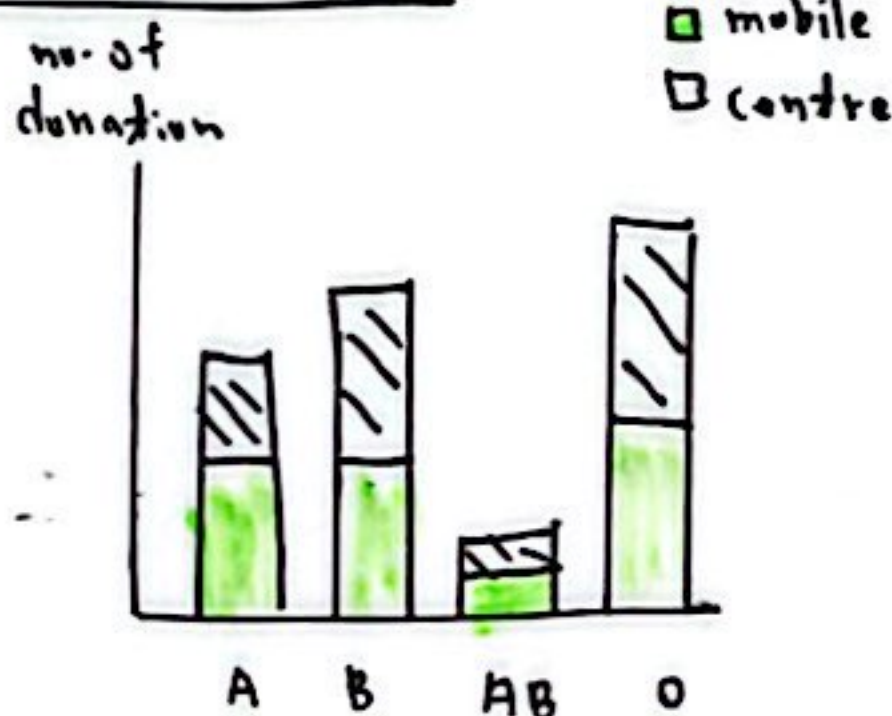
no. of donation
100000
500



Description

Description

Blood donation type



TITLE: Blood Donation In Mas
AUTHOR: LOK MEI HUI
DATE: 30/9/2024
SHEET: 05
TASK: Visualise blood donation trend across states in MA

OPERATIONS

- Annotation will be shown when user hover over the line (will also chgn according to the data)
- Checking/ Unchecking the location for stacked bar chart will filter the data for pie chart.
- Filter option is provided to filter the data based on year, using the slider filter.
- Hovering/ Selecting the state (choropleth map) or section of pie chart will show selected data in a tooltip.

DETAILS

① Dataset

⇒ 3 datasets are used,
2 are about blood donation by MOH, another one is population data.

② Dependencies

⇒ Visual Studio Code

③ Estimates

⇒ Cost: -

⇒ Timeline: 39 hours.

FOCUS

State: Sabah
No of donation:

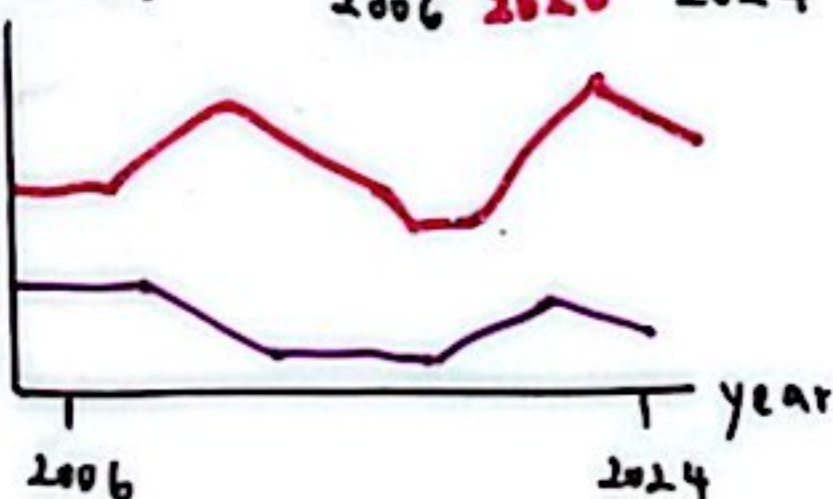
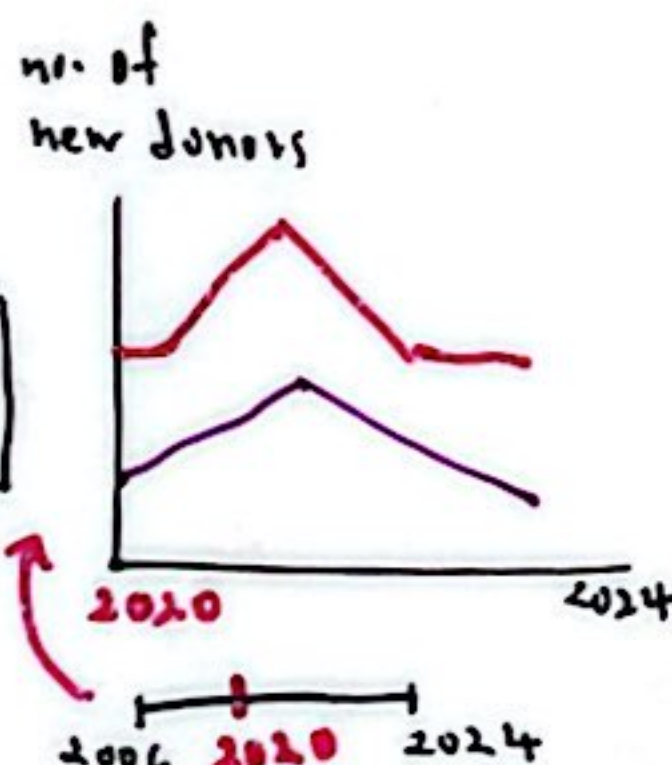
hover over



Donation Type:
No. of ... :

hover over

no. of new donors



only show data for mobile.

no. of donation

mobile
centre

