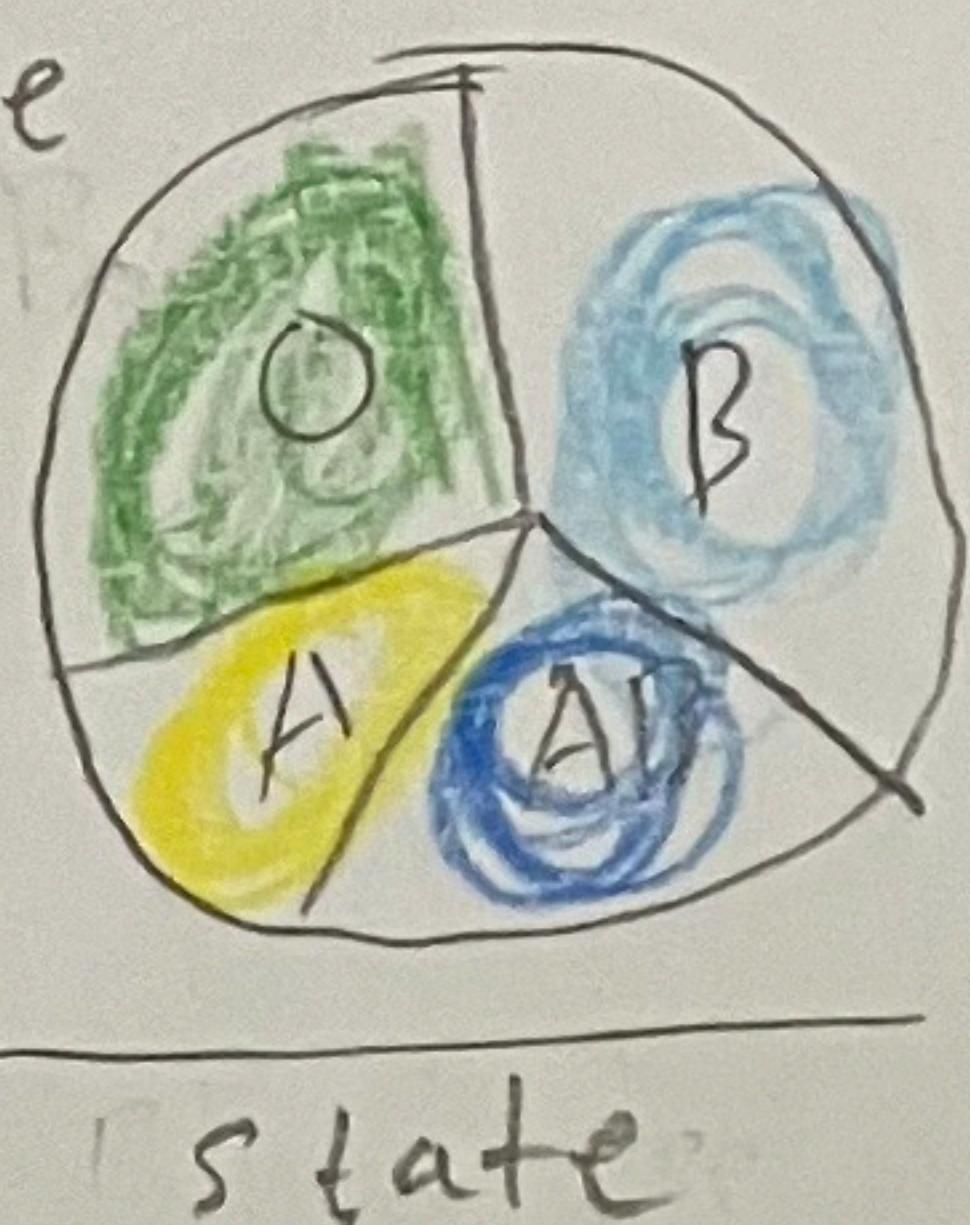
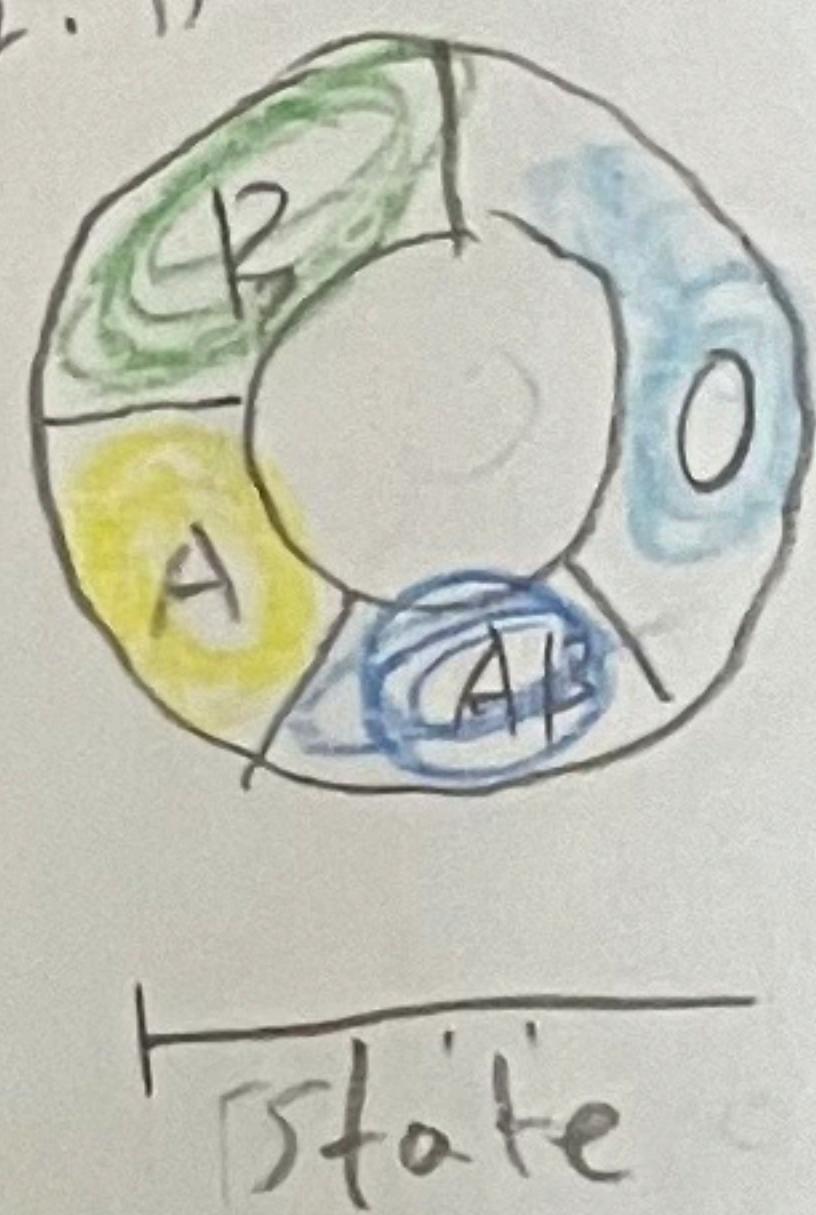


# IDEAS

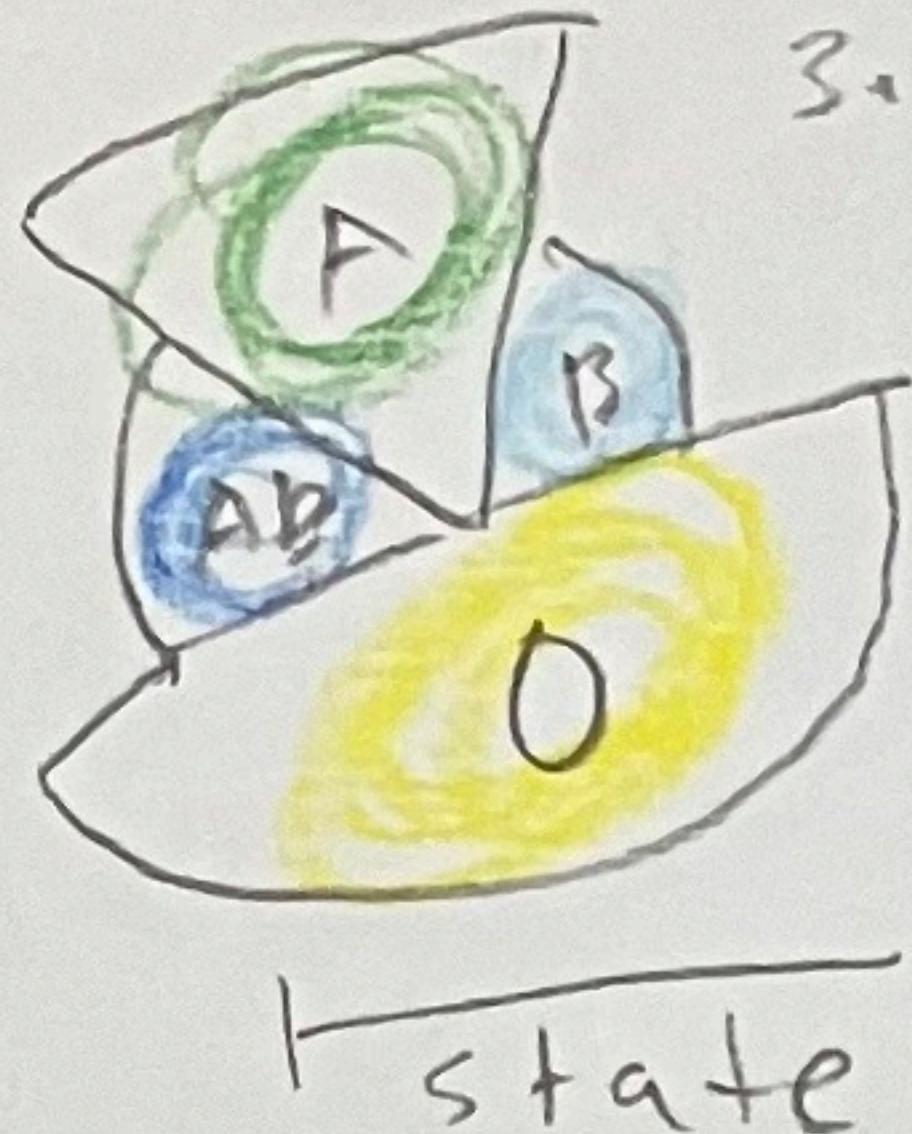
1. pie



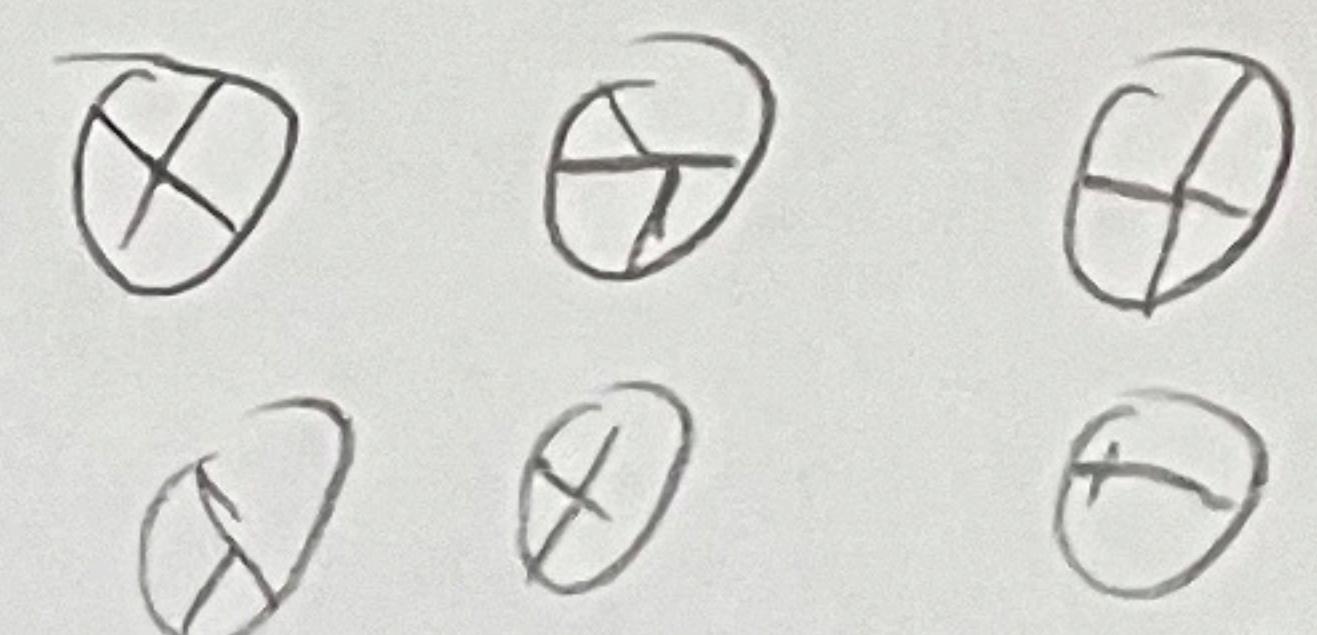
2. Donut



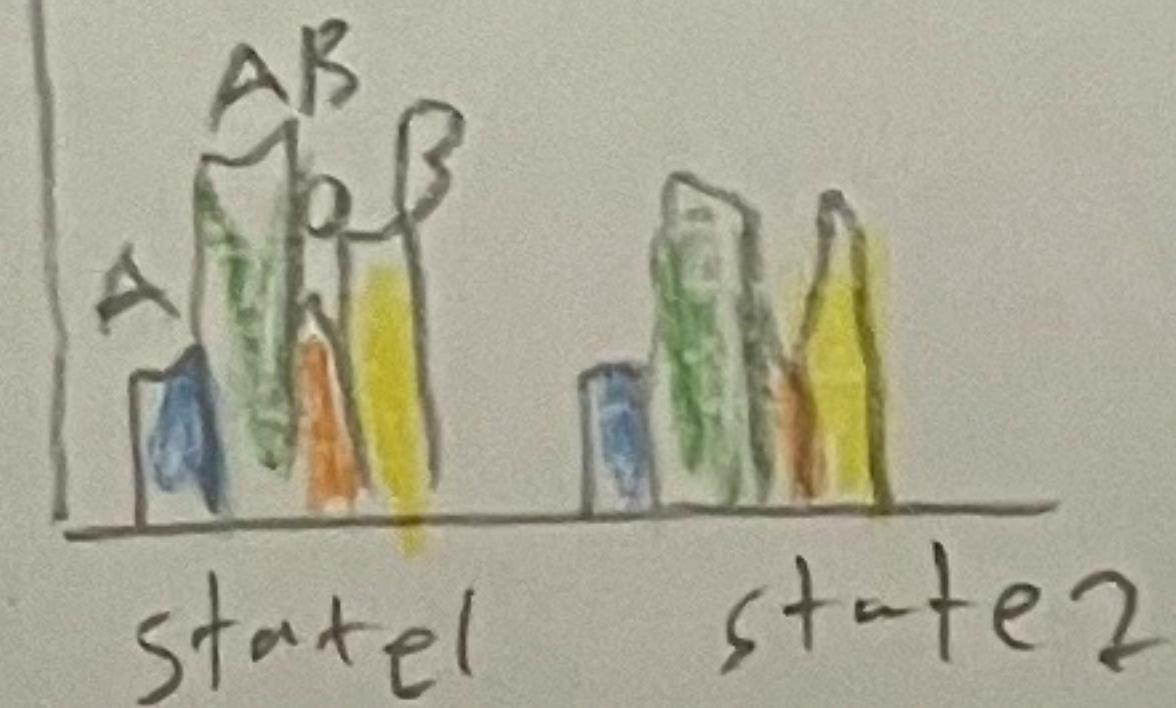
3. radial



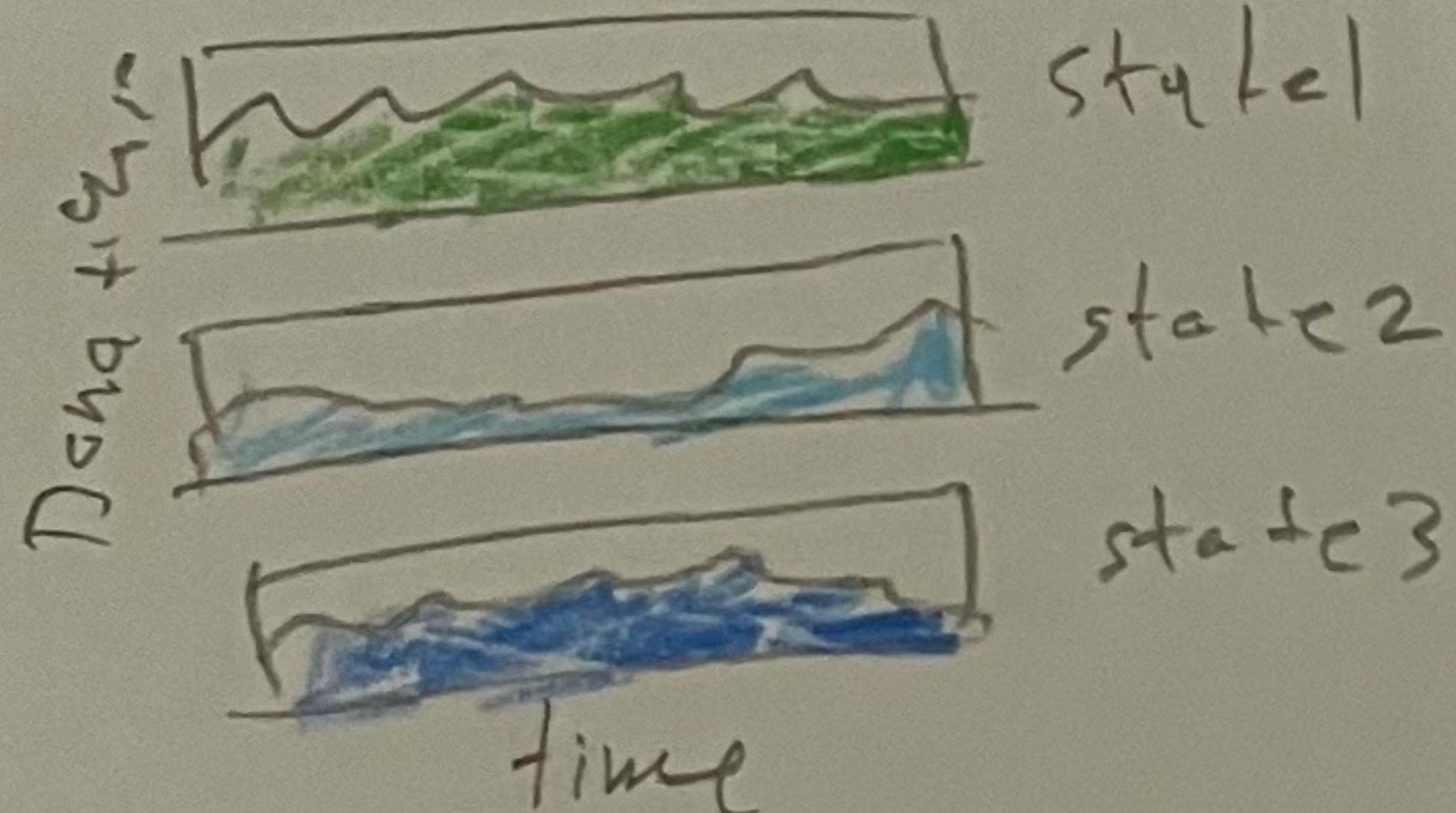
4. small multiple



7. grouped bars



9. trellis area



state1

state2

state3

time

10. stacked area



legend

11. line



## CATEGORIZE | COMBINE AND REFINED

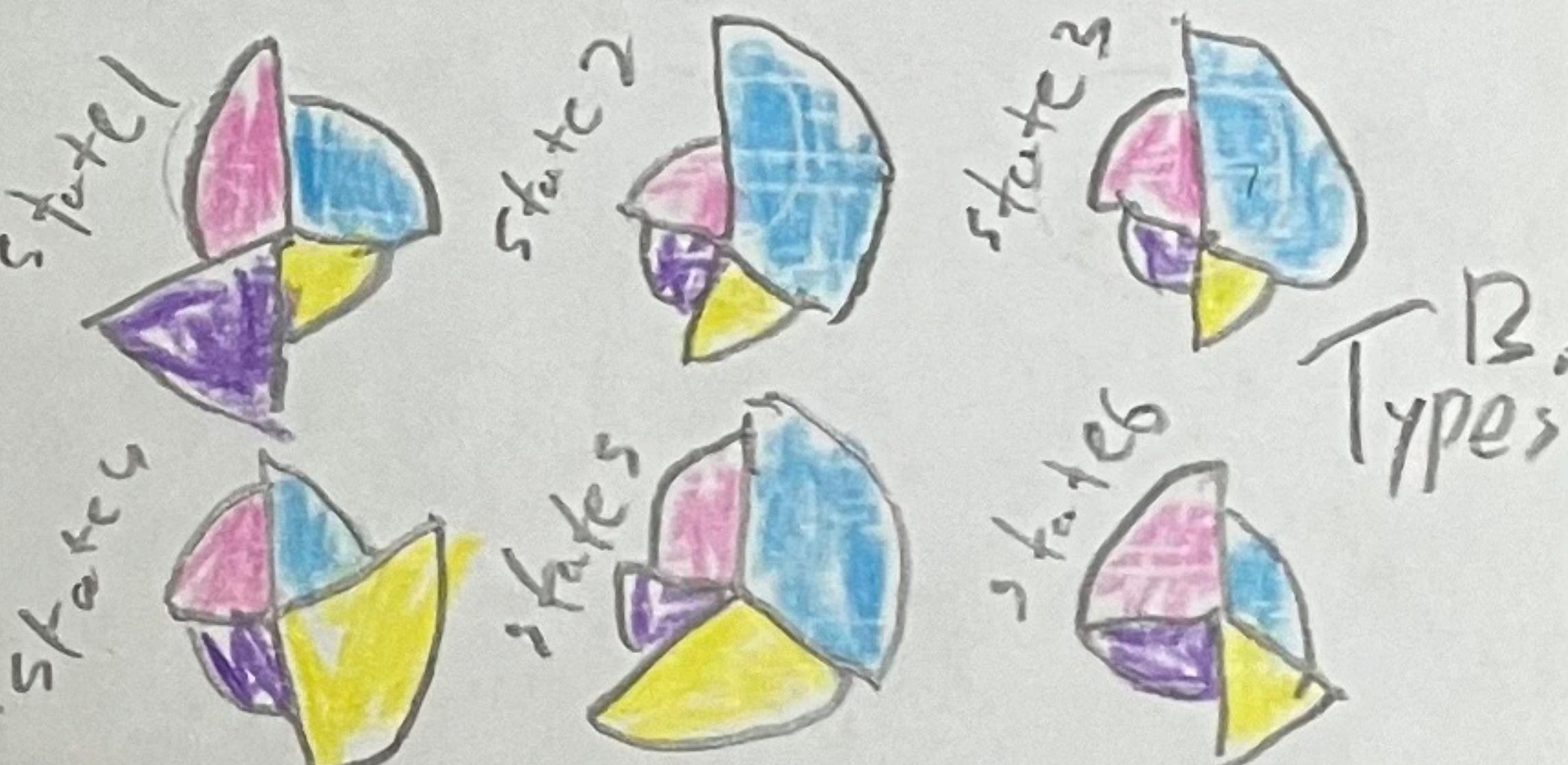
### FILTER

A. Blood Donations by State

1. Map

CATEGORIZE

A. Show differences of donations between states on a map.



B. Blood Type Distribution

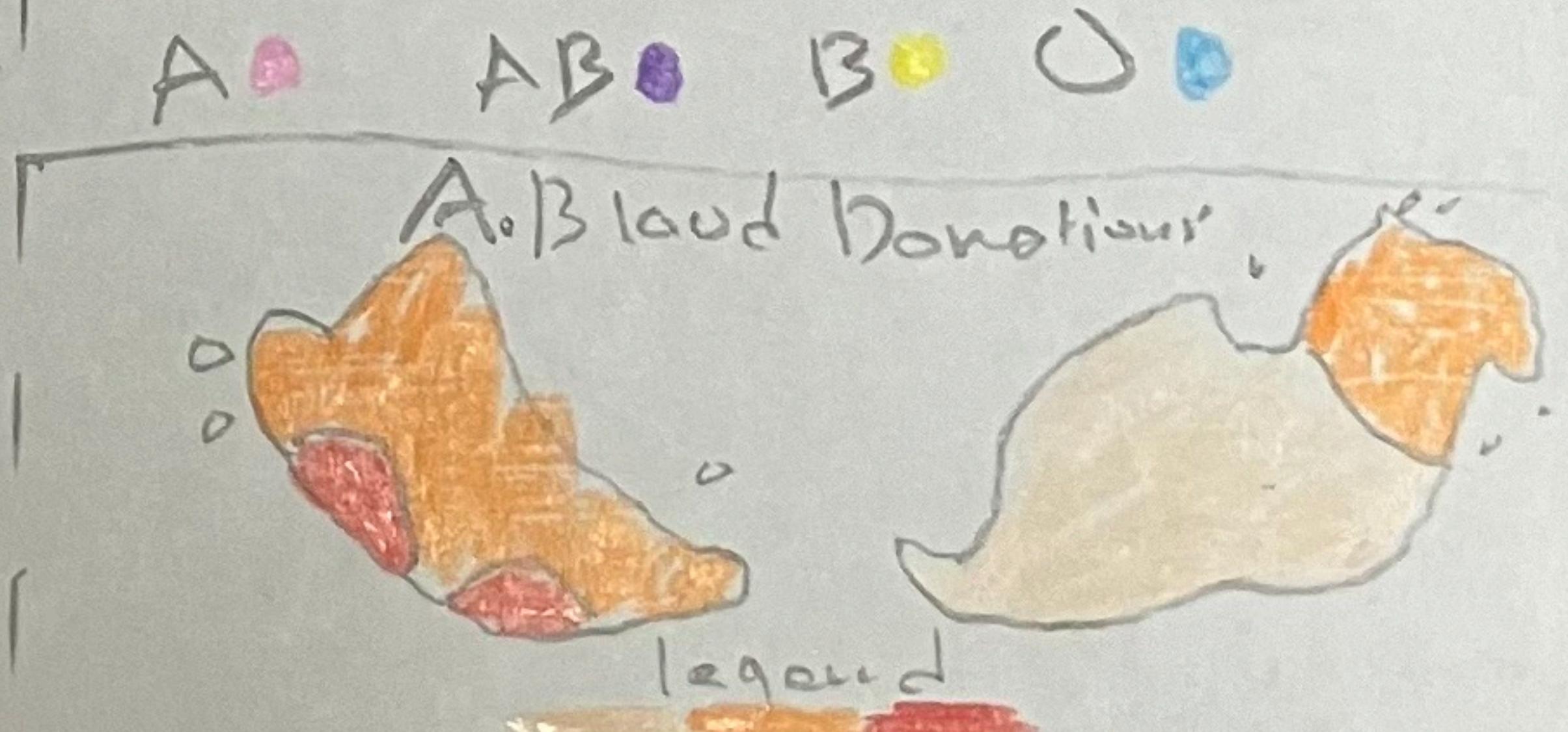
1. Pie

2. Donut

3. Radial

4. small/multipie

B. Show distribution of blood type donations for states.



C. Over Time

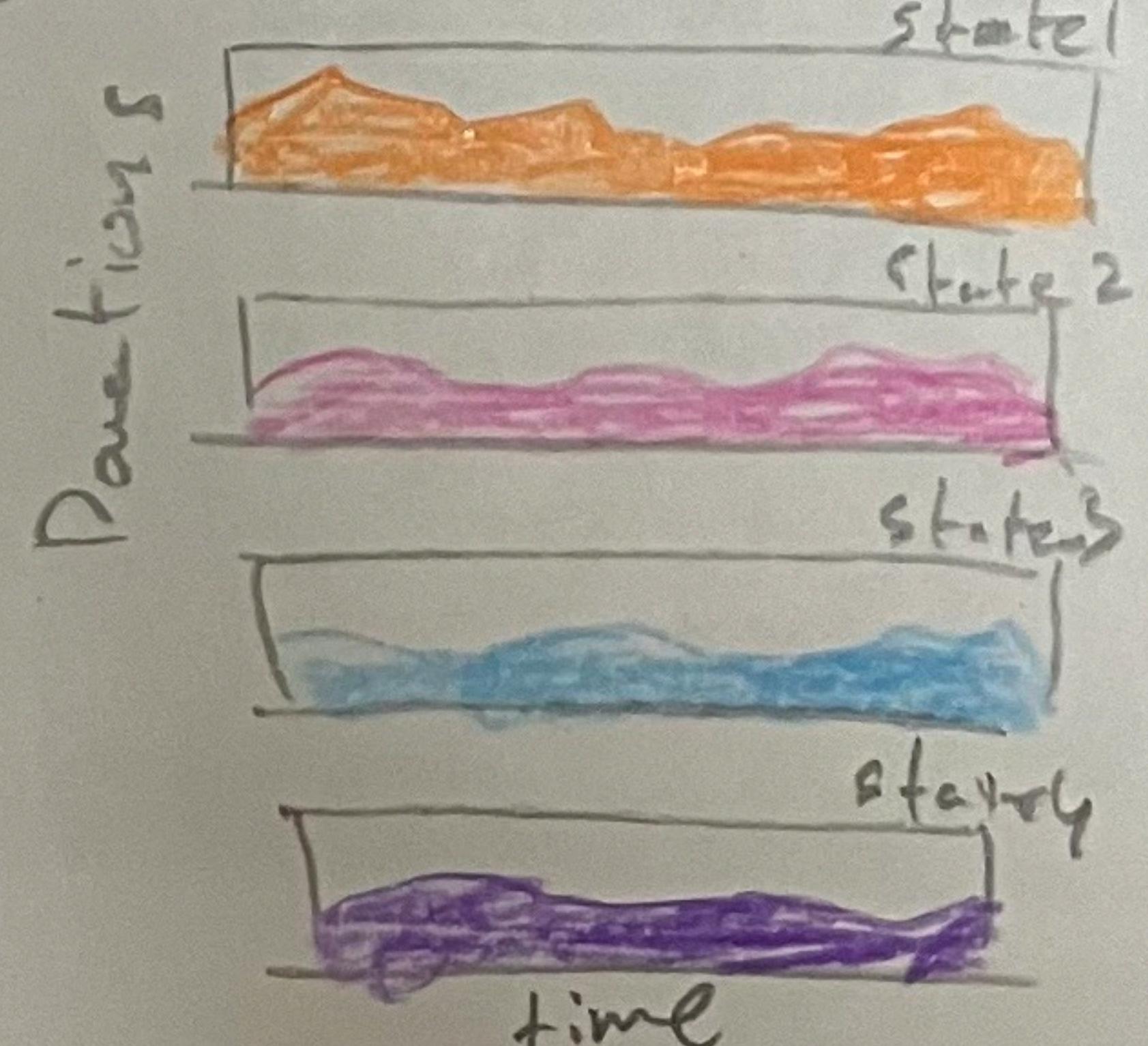
C. Donations Over Time

1. trellis area

2. stacked area

3. line

C. Show donations over time for each state for a specific period of time.



# LAYOUT

Blood  
Donations 202x



# INFO

Title: A2 SDS  
Author: Taha  
Date: 10-10-24  
Sheet: 2



## FOCUS ↪

Show the difference in  
Blood donation levels  
between the states.



State: X  
Donations: Y

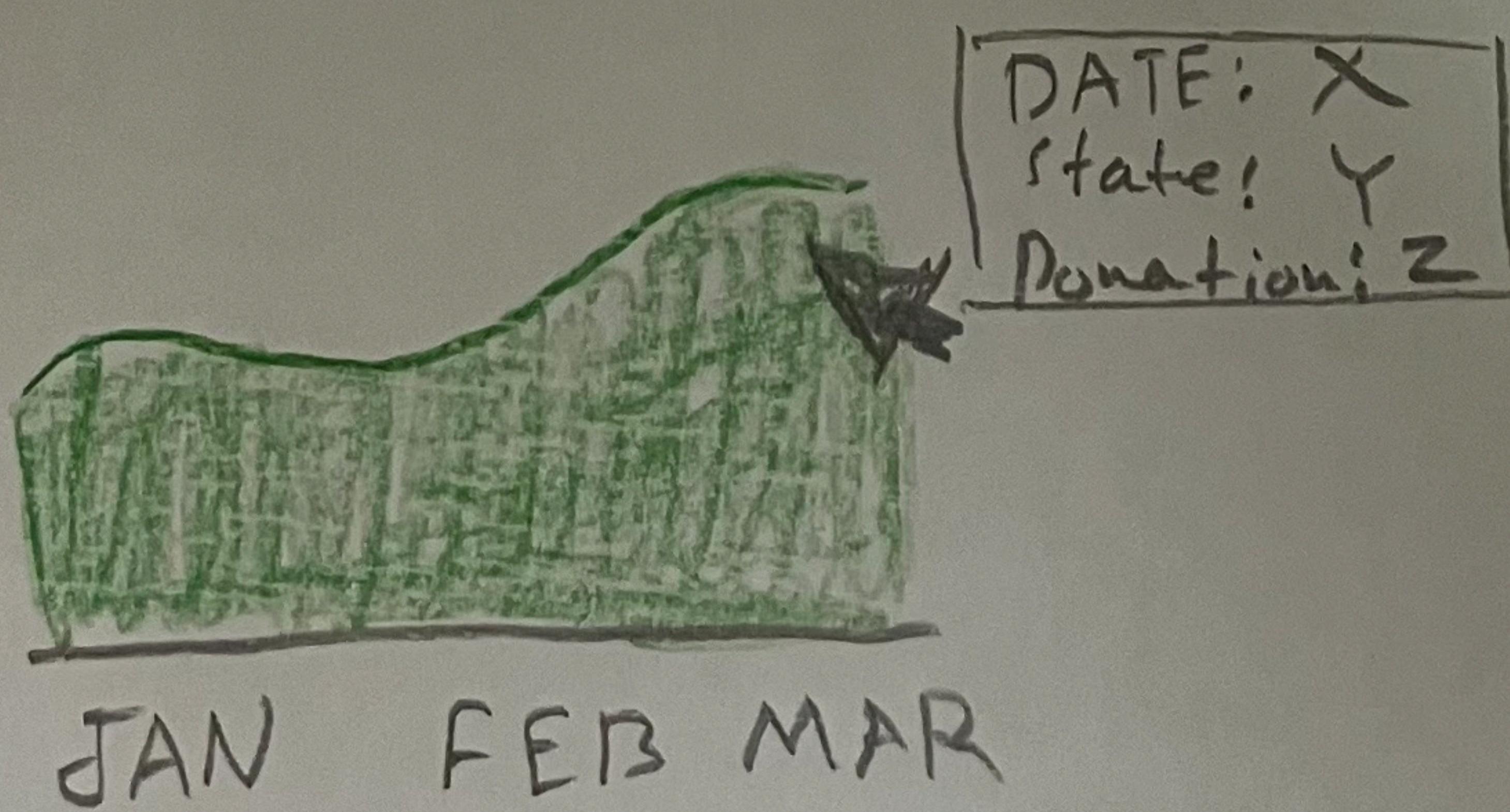
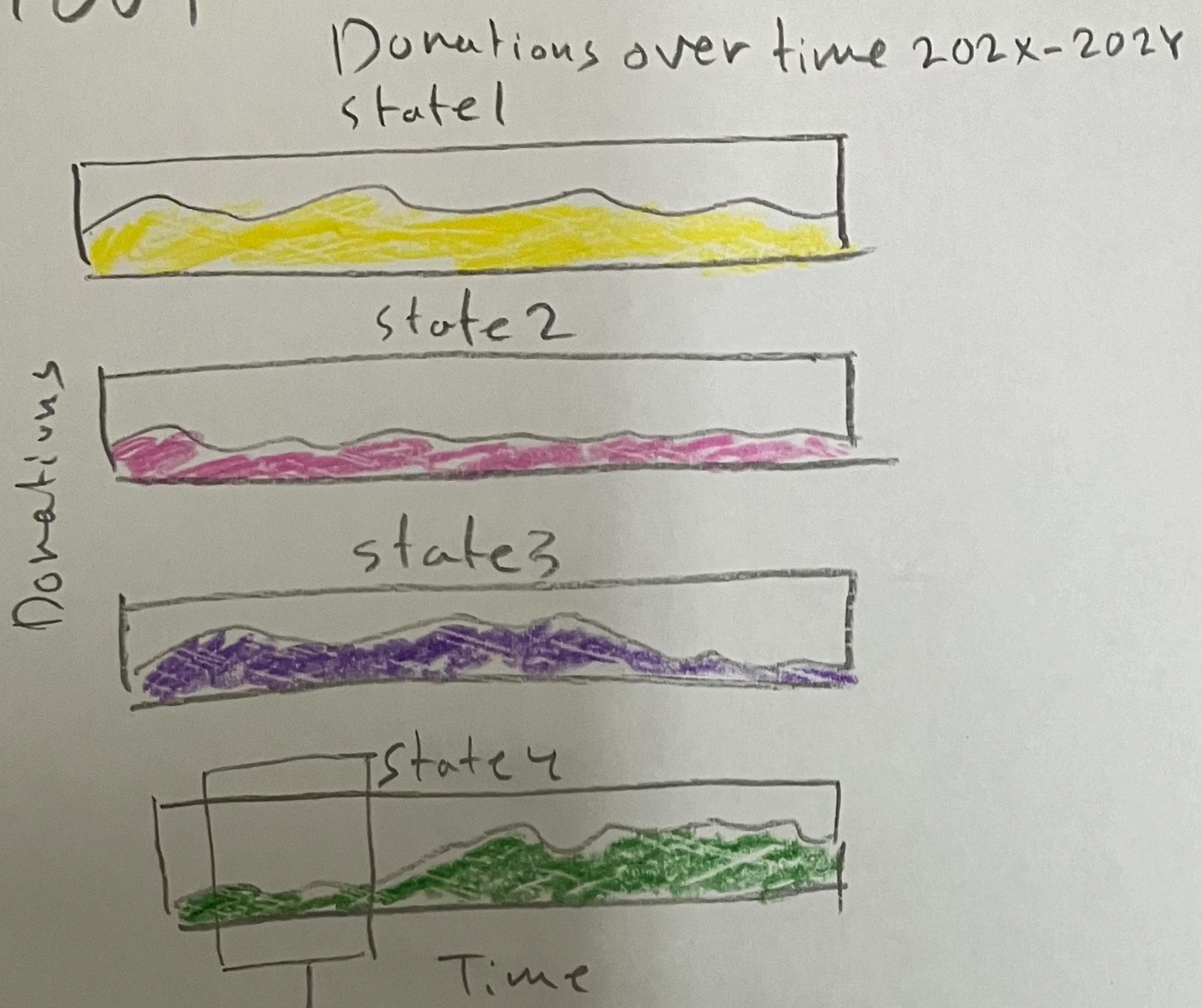
## OPERATIONS

- Tool tip that displays detailed info for the user upon hovering a state.
- Legend classification for easier reading.

## DISCUSSION

- ⊕ Clearly shows the differences between states.
- ⊖ Only shows one year without the implementation of a filter.

# LAYOUT



Shows the donations over time of a single state in each rectangle of the trellis structure for a period of time.

# INFO

Title: A2 SDS

Author: Take

Date : 10-10-24

sheet : 3

## OPERATIONS

- Tool tip that shows detailed info for the user upon hovering at part of the area.
- Trellis structure for the states' area charts.

## DISCUSSION

- ⊕ Clean and easy to read areas since they are separated.
- ⊕ Easy to compare since since they share common starting position on the axis.
- ⊖ Takes a lot of space in the visualization

# LAYOUT

## Blood Type Distribution 202X

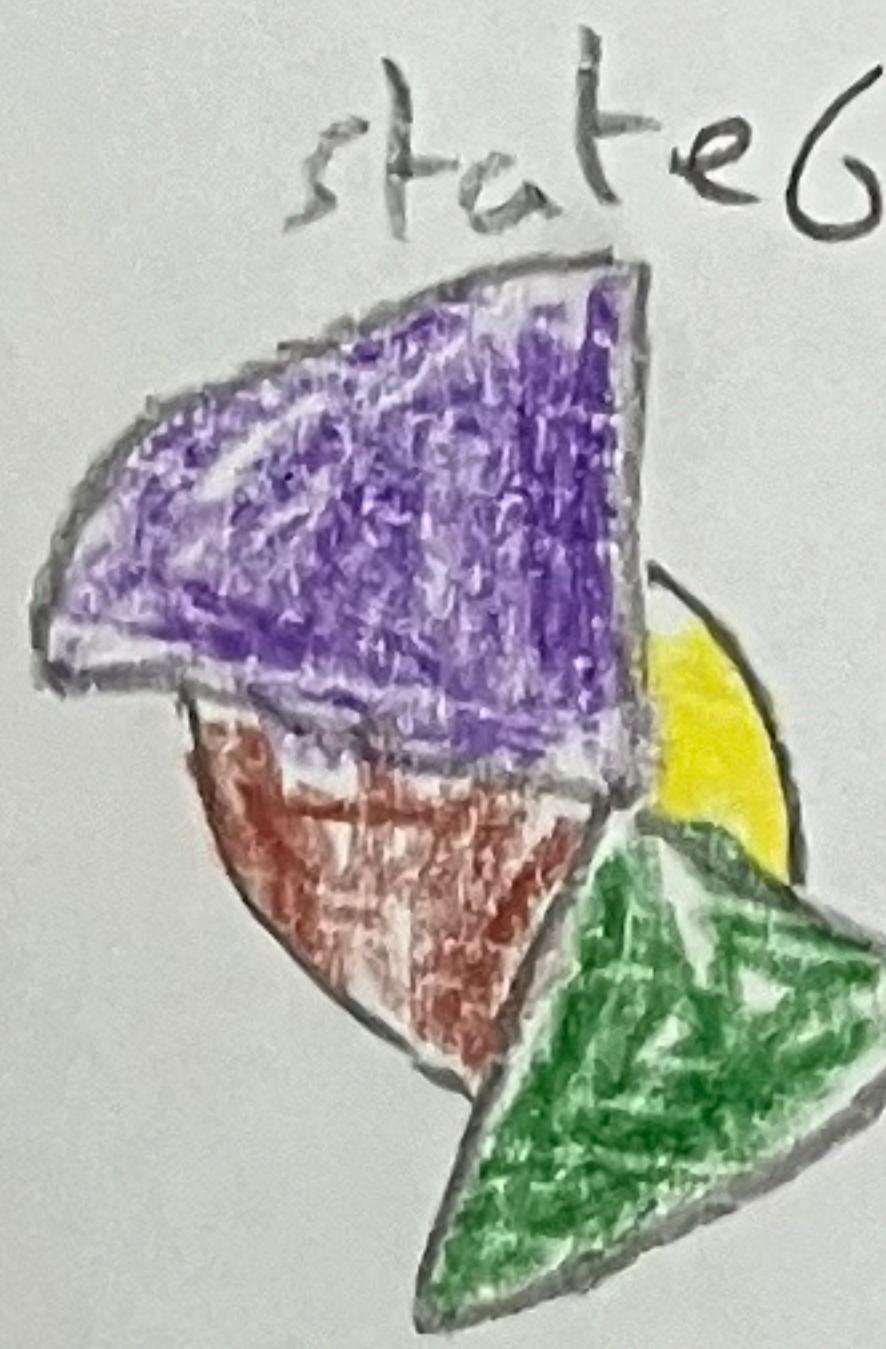
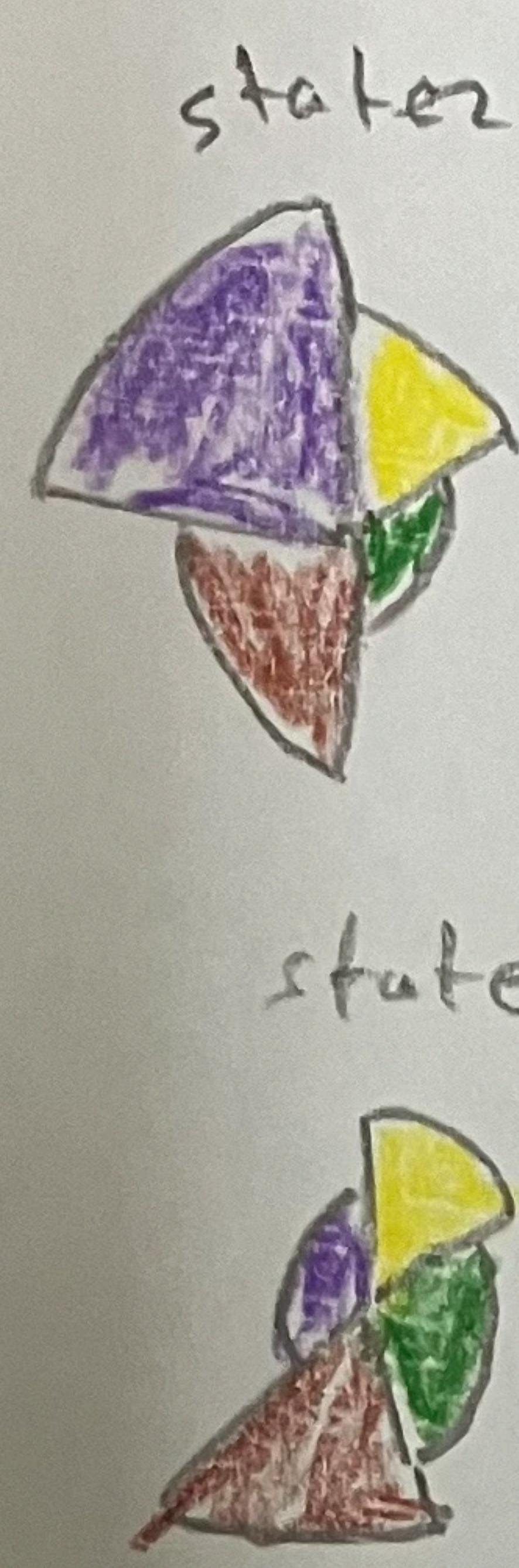
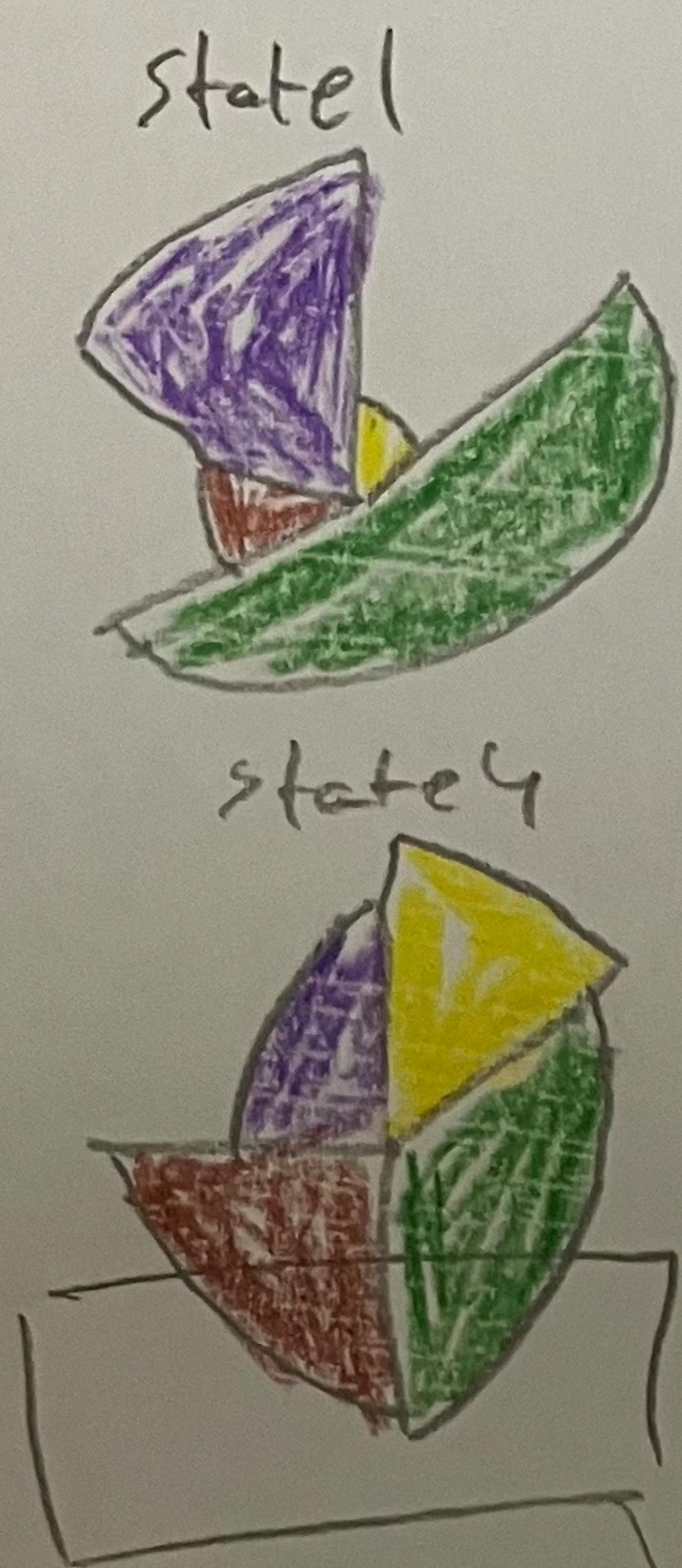
INFO

Title: A2 SDS

Author: Take

Date: 10-10-24

sheet: 4



■ A ■ AB ■ B ■ O

Blood type legend

FOCUS ↪



Blood type: B  
Donations: X

Shows the blood donations distribution by blood type for each state. Each state has its own radial chart in the small multiple

## OPERATIONS

- Tool tip that shows more detailed info for the user upon hovering on a radial slice
- small multiples structure for each states' chart.

## DISCUSSION

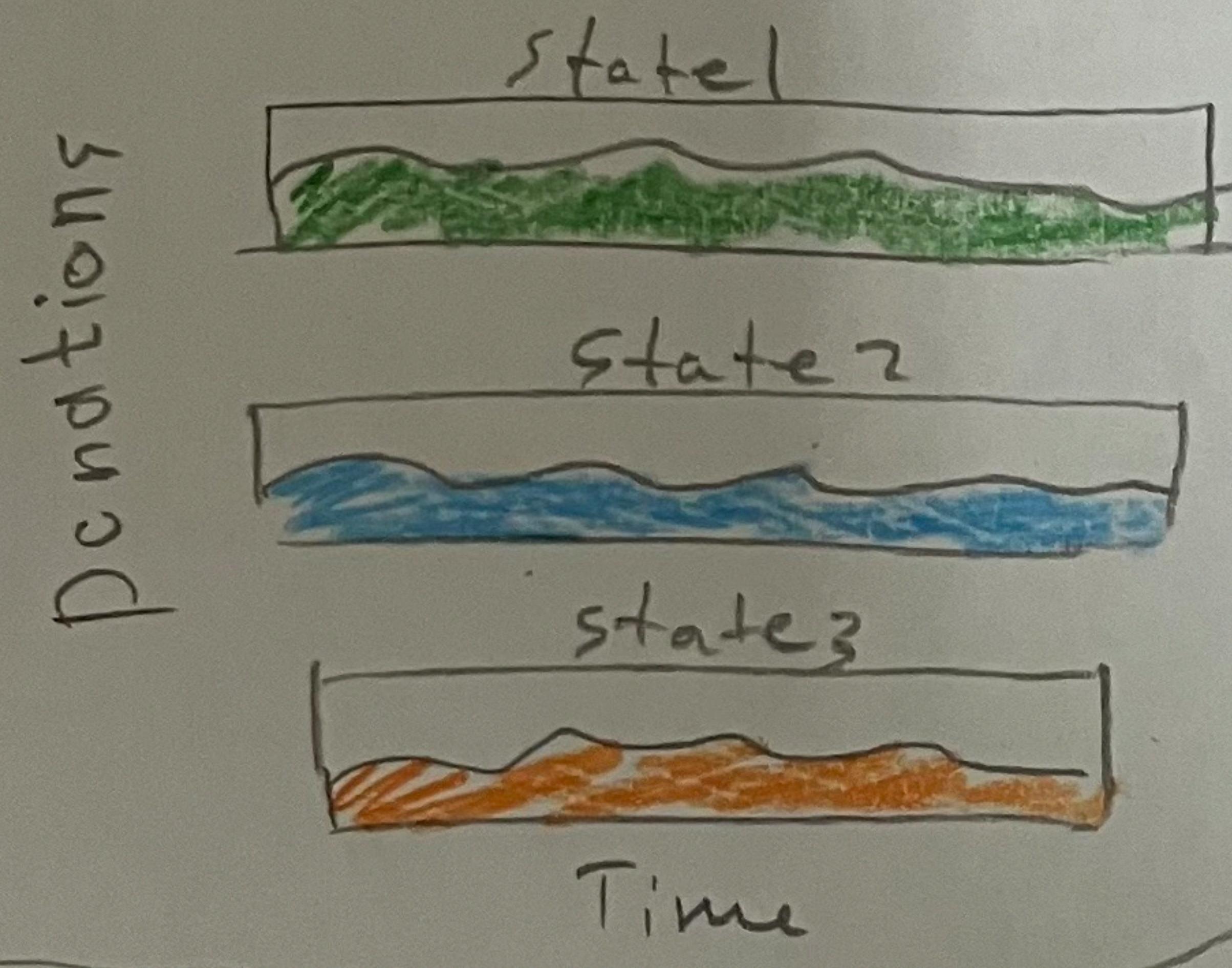
- ⊕ Easy to compare between the different states.
- ⊖ Takes too much space without filter..

# LAYOUT

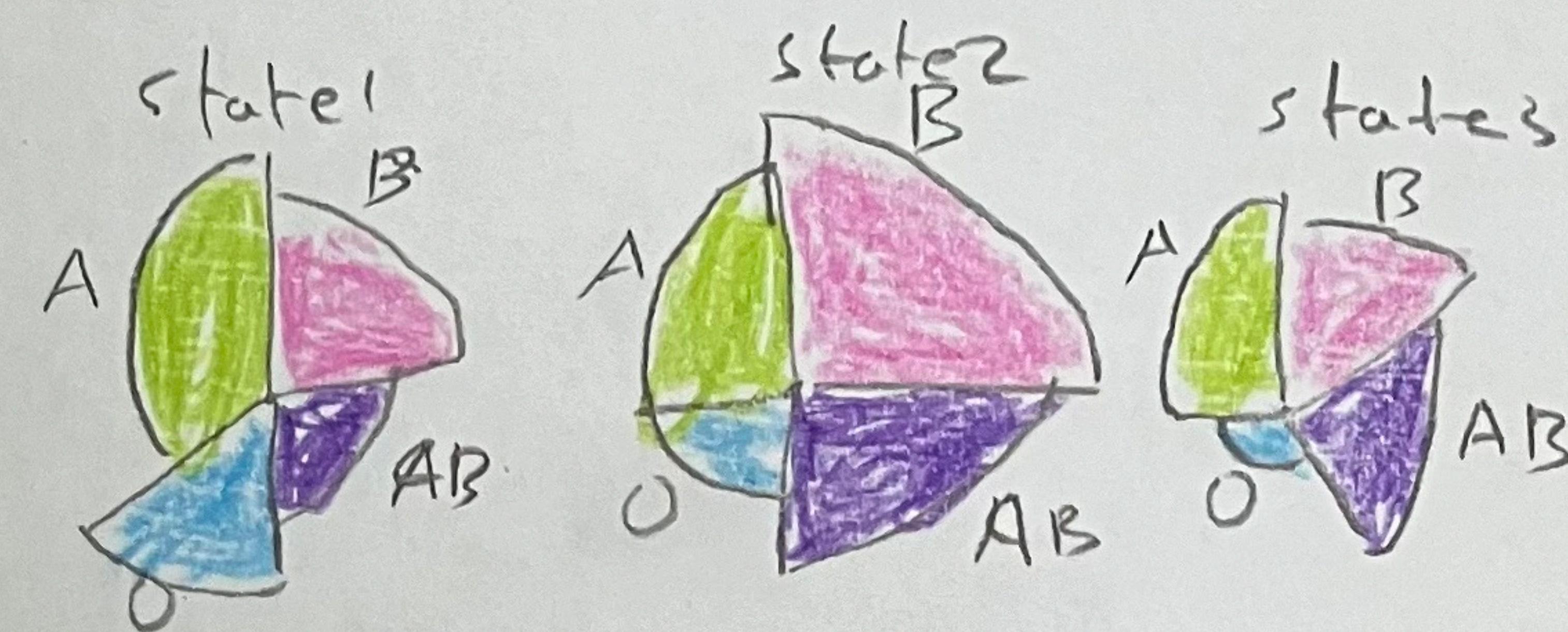
Blood Donations by State  
202X



Donations OverTime



Blood Type Distribution



## FOCUS

- Map includes slider to filter by num of Donations.
- Trellis area charts show for only selected states
- Radial small multiples show for only selected states.

## OPERATIONS

- Tool tips to display more info to users upon hovering on object.
- num of Donations filter slider for map.
- Trellis structure for area charts.
- small multiples structure for radial charts.

## INFO

Title: A25DS

Author: Takua

Date: 10-10-24

Sheet: 5

## DETAILS

- ★ Algorithms & Techniques
  - Normalize the map's donation data by each states' population.
- ★ Dependencies
  - Build the viz using vega-lite in VScode.
- ★ Estimate Time and Effort
  - 18-24 hours
  - 3 weeks of regular work
- ★ Materials & Hardware
  - Computer (laptop)