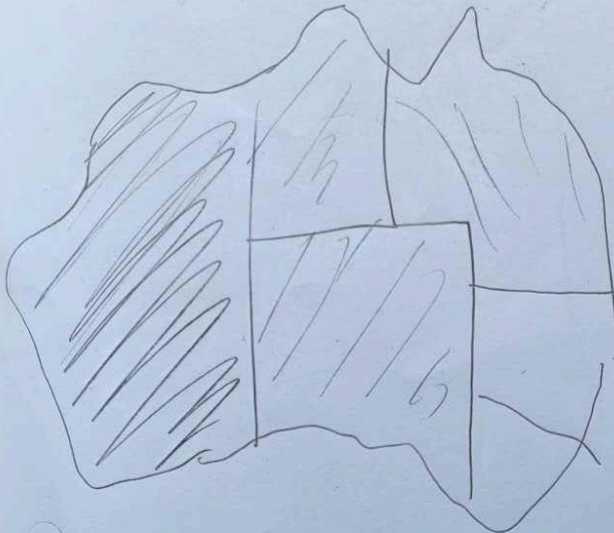


# IDEAS

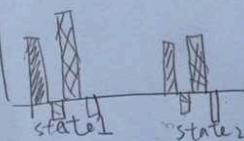
① map must show up



④ colors (population)

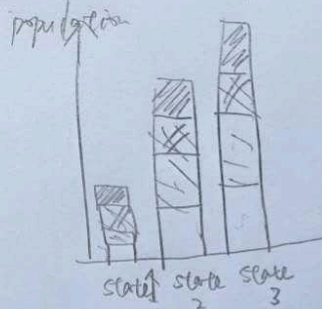


⑤ population change



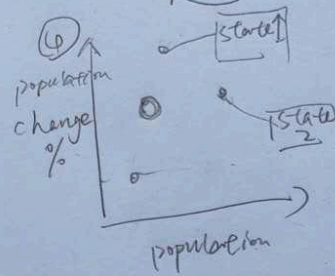
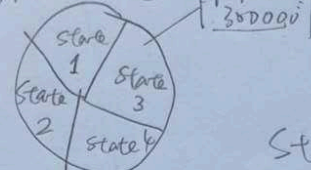
births  
deaths  
oversea arrivals  
oversea departures

② population factors



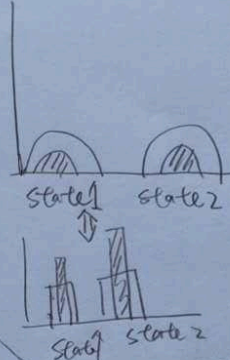
Metric  
births  
deaths  
oversea arrivals  
oversea departures

③ distribution by states



States  
0  
6  
0  
0  
Size (population)  
0 0 0 0

⑥



births  
deaths  
births  
deaths

## FILTER

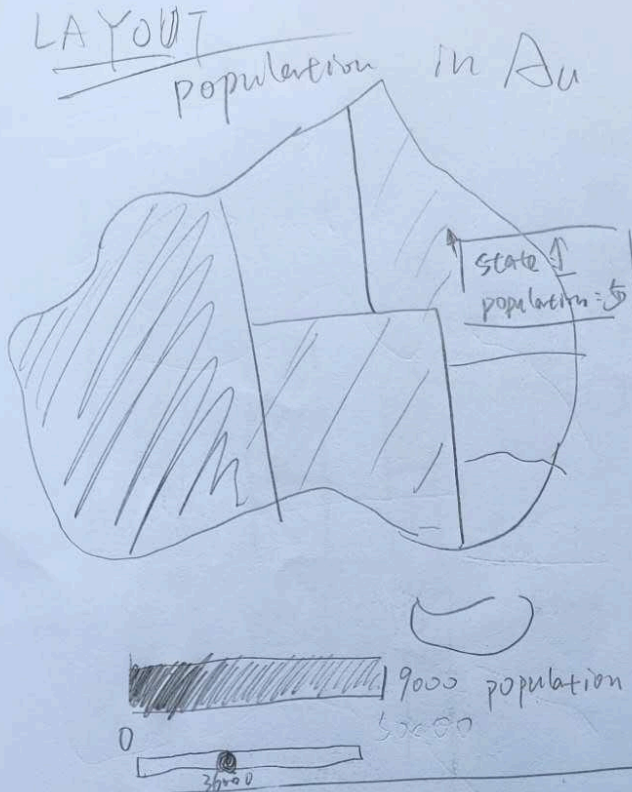
so ⑥ x  
⑥ = ⑦, ⑦ more clear  
① has ③, so ③ x  
② has ⑥ and ⑦

## CATEGORIZE

①. map must have ✓  
⑤ can be included in ②  
⑥ = ⑦ and also instructing to keep, ⑦ is more clear  
④

①  
②  
④

## LAYOUT



## COMPONENTS OPERATIONS

- ① different colour indicating population size.
- ② the map can clearly show which state it is.
- ③ annotation show exactly which state and the population.
- ④ filtering (population)

## DESCRIPTION:

Map of population change in Australian states. This map shows the percentage of population change in Australian states. The colour intensity represents the magnitude of population change, with darker colour indicating a higher percentage of change.

## FOCUS POINTS

- ① population size (shown by colours)
- ② compare among different states.

## PROS &:

- ① easy to understand.
- ② improve accessibility.

## SUMMARY

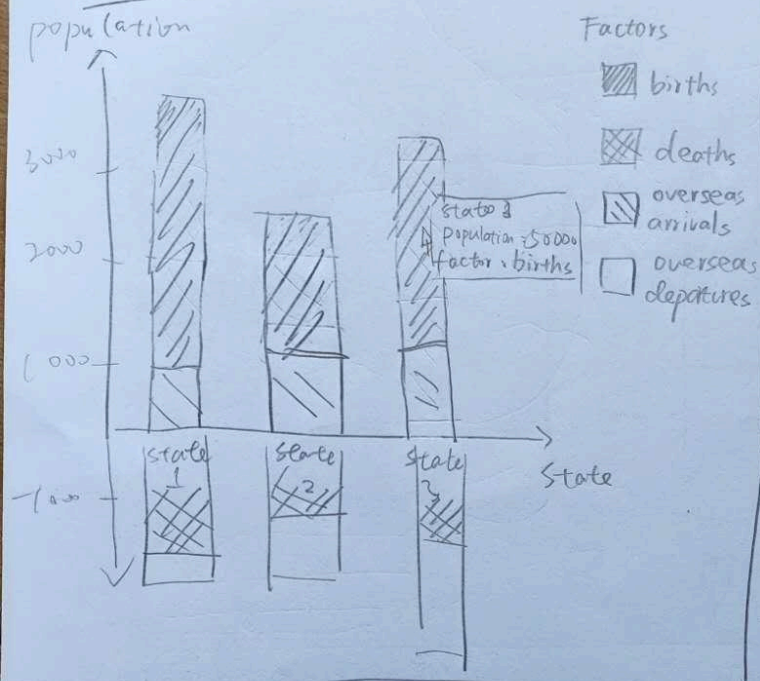
TITLE: Population by States in Au.

AUTHOR: Yunxi Liu

DATE: 15. OCT. 2024



## LAYOUT



## DESCRIPTION

This stacked bar chart shows population factors across Australian states:

- Births and Overseas arrivals (positive)
- Deaths and Overseas departures (negative)

## PROS

- ① easy to understand since positive factors are above x-axis.
- ② easy to focus on one factor since other blocks turn to grey.

Cons: ① hard to see if the population above the factor is too small

## COMPONENTS

### OPERATIONS

- ① different colours for different population factors.
- ② selection: when one block has mouse over it, other blocks will turn to grey.
- ③ annotation to show the details (state, population factor)

## FOCUS

- ① population each blocks (factors)
- ②, compare different population among each factor in different states

## SUMMARY

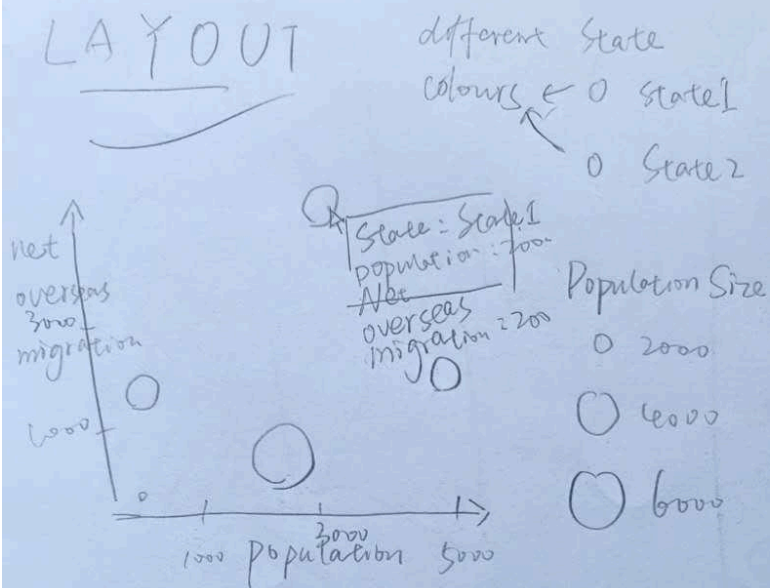
### TITLE:

Population Factors Across Australian States

AUTHOR: Yunxi Liu

DATE: 15.OCT.2024

## LAYOUT



Population 2000 will hide the state if population is less than 2000 for example

State Selection:

☒ All ☐ V

only show selected state in the chart.

## DESCRIPTION

Bubble chart shows the relationship between population size and net overseas migration for Australian states.

PROS: easy to focus on one state

## COMPONENTS

### OPERATIONS

- ① annotation show state, population, net overseas migration
- ② selection above state
- ③ minimum population will make other part grey.
- ④ different colours for each state.

### FOCUS

- ① population each state
- ② relationship between net overseas migration and population each state

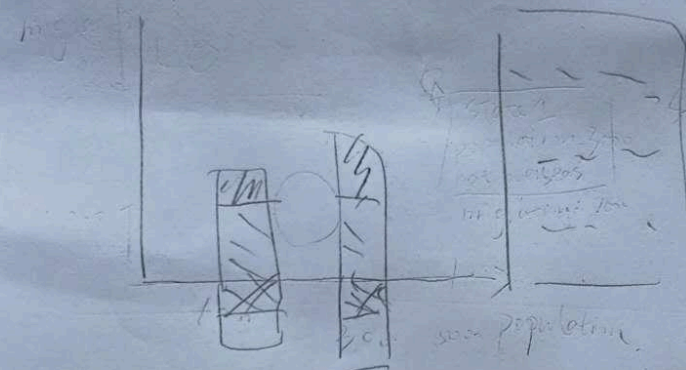
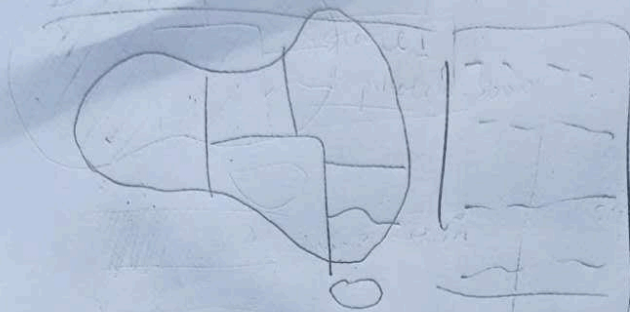
## SUMMARY

TITLE: Population vs. net Overseas migration  
AUTHOR: Yunxi Lin  
Date: 18. OCT. 2024

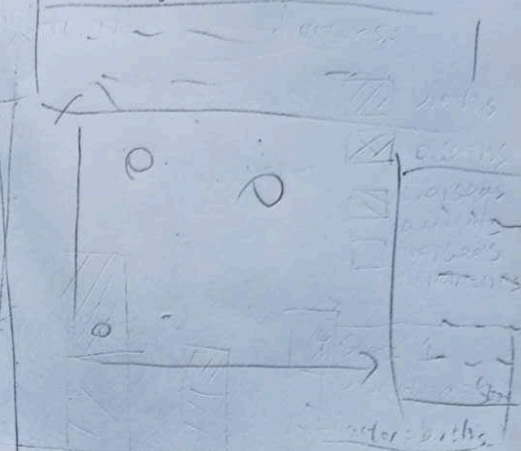


TITLE

TEXT



(next page)



## FOCUS

Visualizes population changes and factors

## COMPONENT

Map, bubble chart, stacked bar chart.

INTERACTION: Hover, filter, selection.

## SUMMARY

TITLE: Visualizing Population Changes and Factors in Australian States

AUTHOR: Yunxi Li

DATE: 18. OCT. 2024

## DETAIL

Tool: Vega-Lite & VS code.