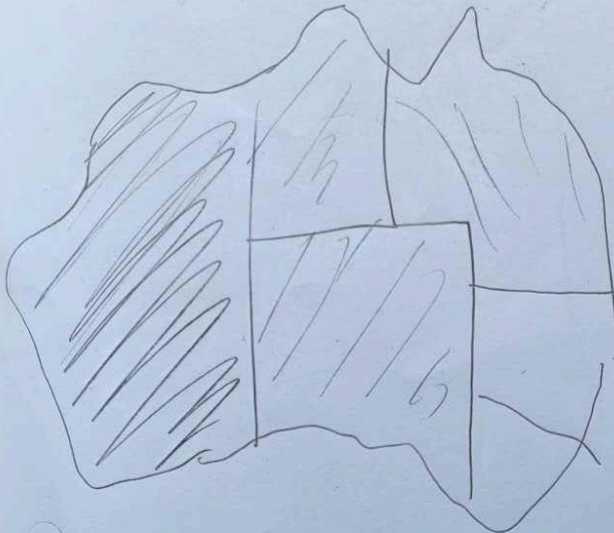


IDEAS

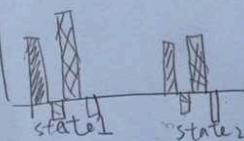
① map must show up



④ colors (population)

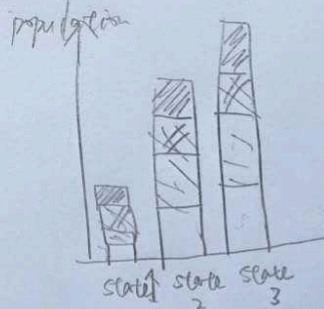


⑤ population change



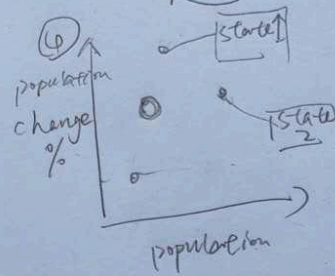
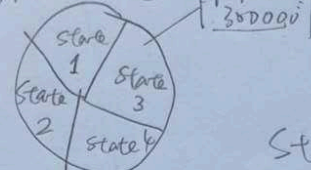
births
deaths
oversea arrivals
oversea departures

② population factors



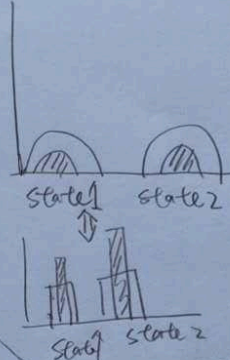
Metric
births
deaths
oversea arrivals
oversea departures

③ distribution by states



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

⑥



births
deaths
births
deaths

FILTER

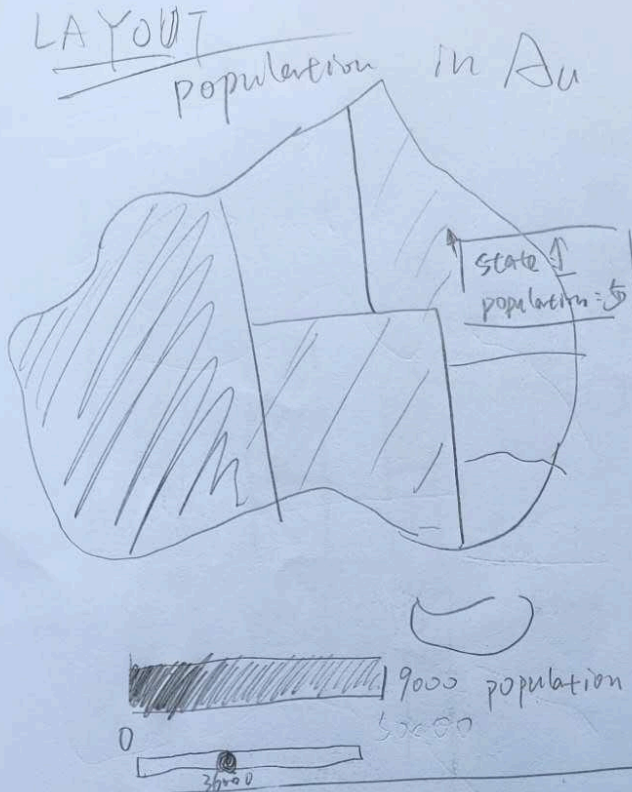
so ⑥ x
⑥ = ⑦, ⑦ more clear
① has ③, so ③ x
② has ⑥ and ⑦

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.

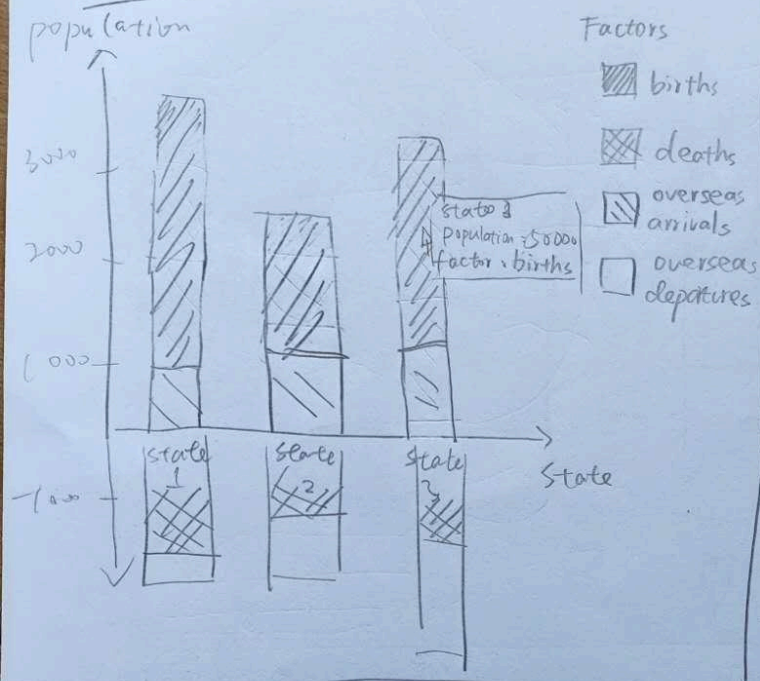
PROS &:

- 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

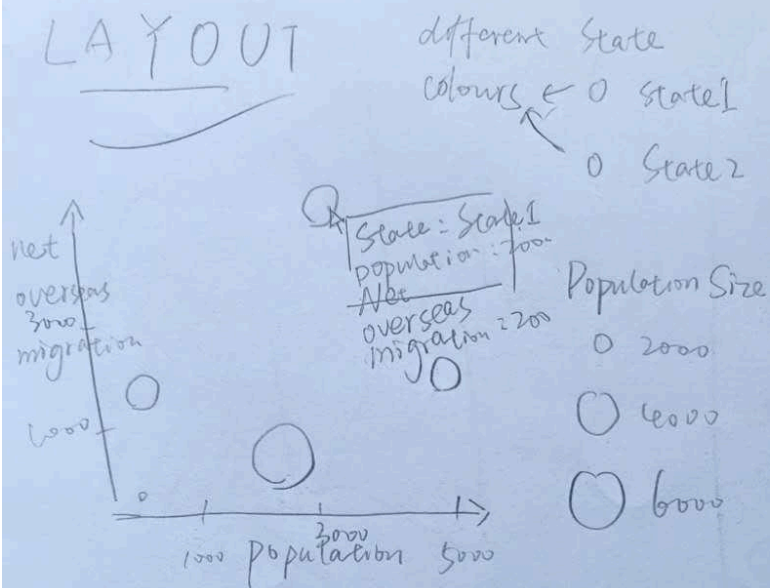
TITLE:

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.

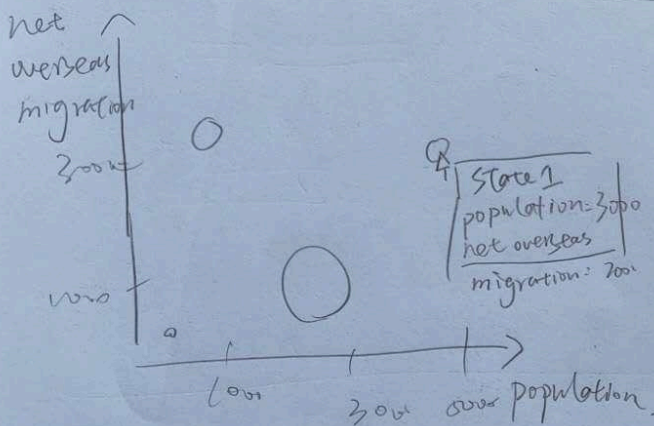
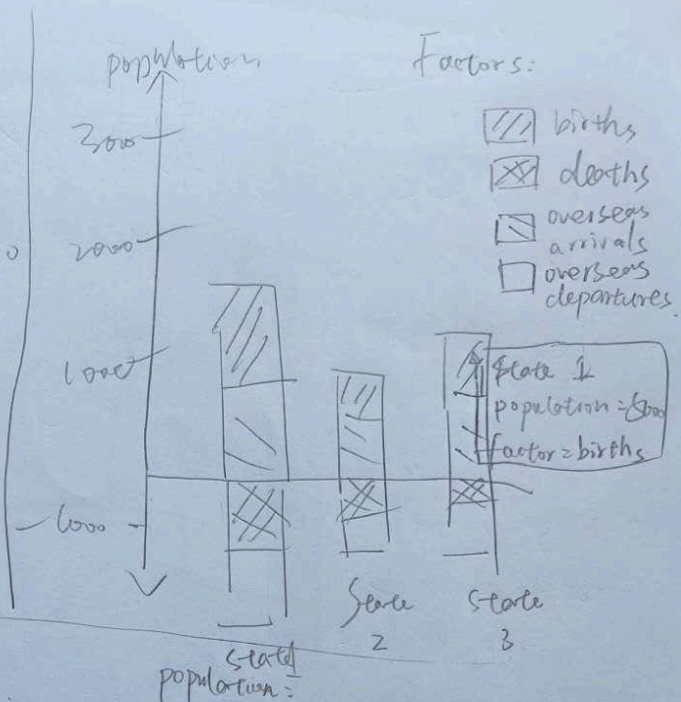
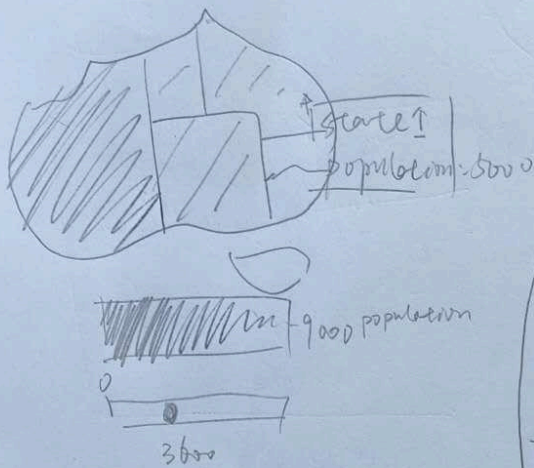
FOCUS

- 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

LAYOUT



State Selection:
All

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 Australia States

AUTHOR: Yunxi Liu

DATE: 18. OCT. 2024

DETAIL

Tool: Vega-Lite & VS code.