

# IDEAS

## Demographic Charts for Australia

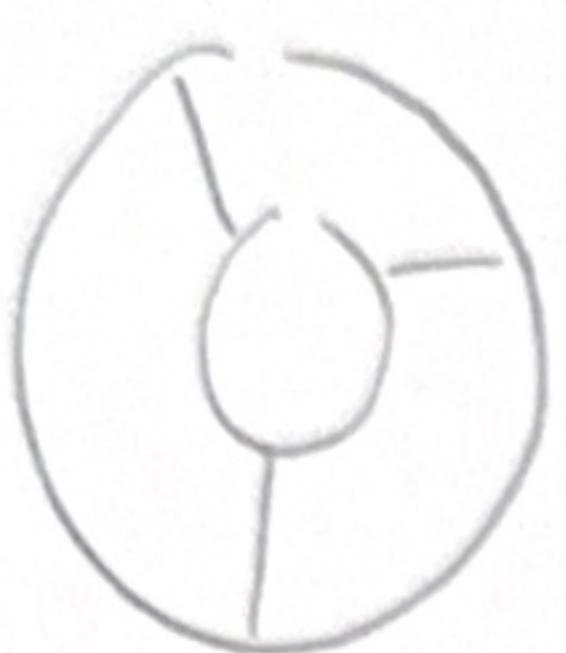
Author: Joshua Wong

Date: 15/10/2025

Sheet: 1

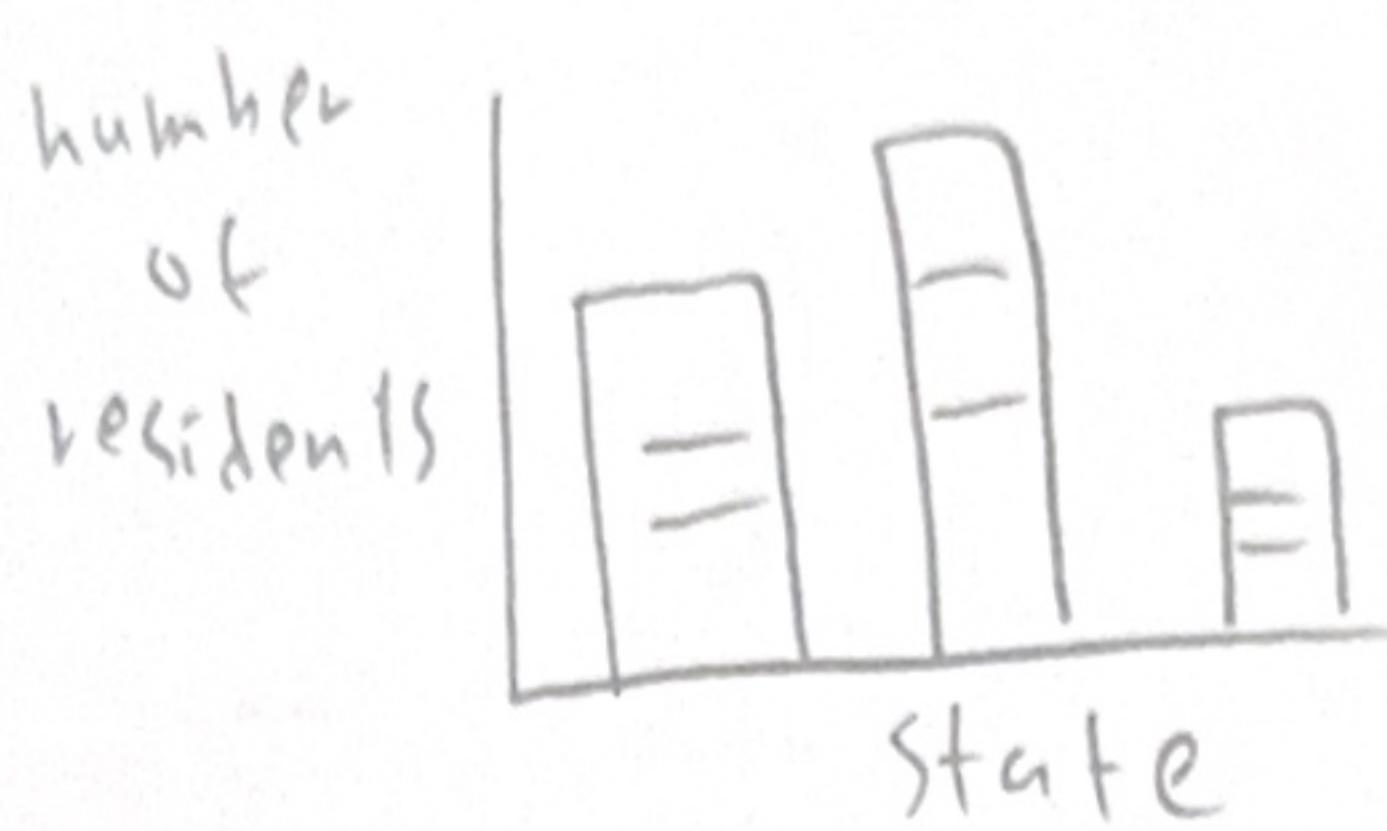
Tasks: Planning  
Visualisation

- (1) Donut chart



Top languages spoken at home in Australia

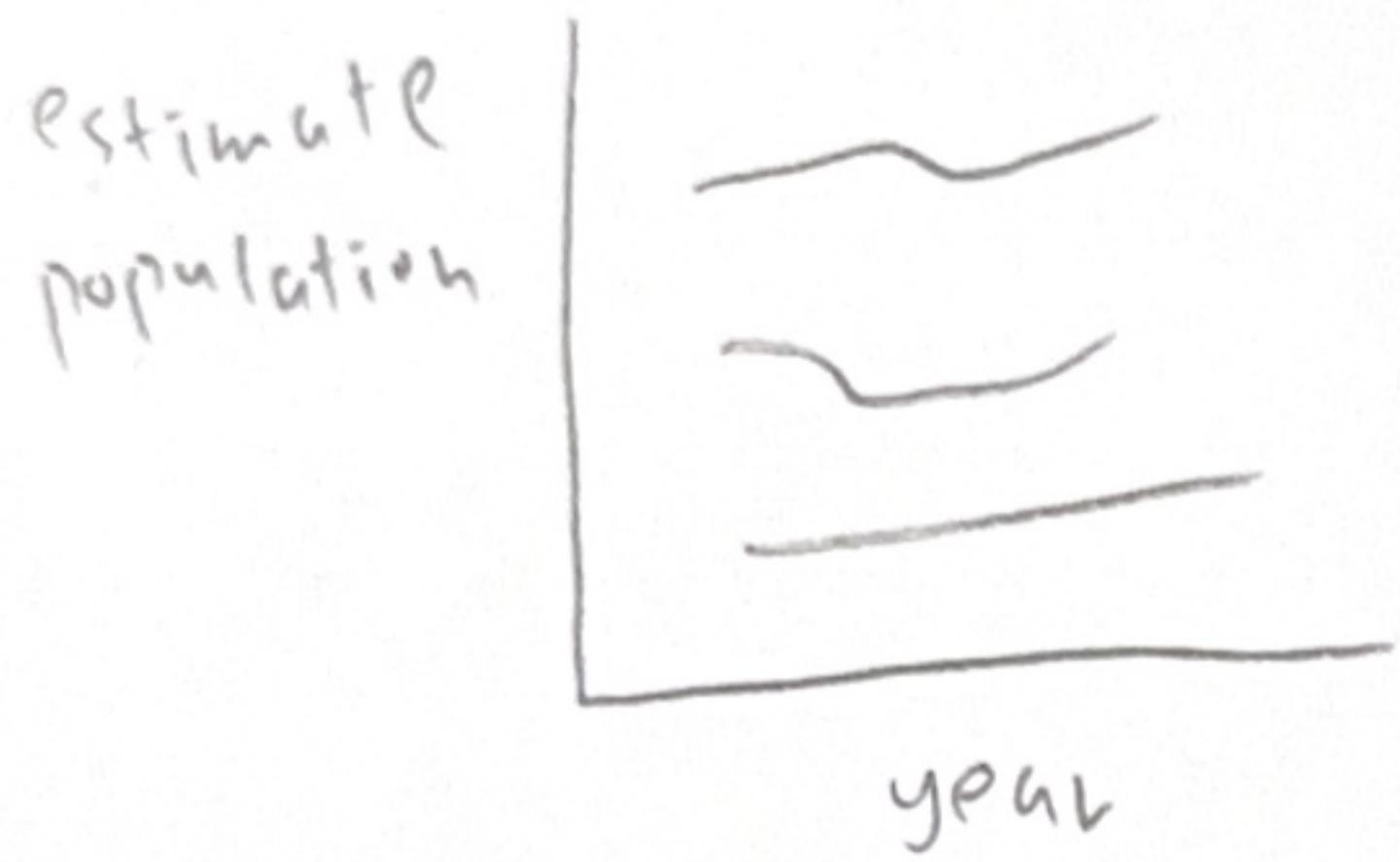
- (2) Stacked bar chart



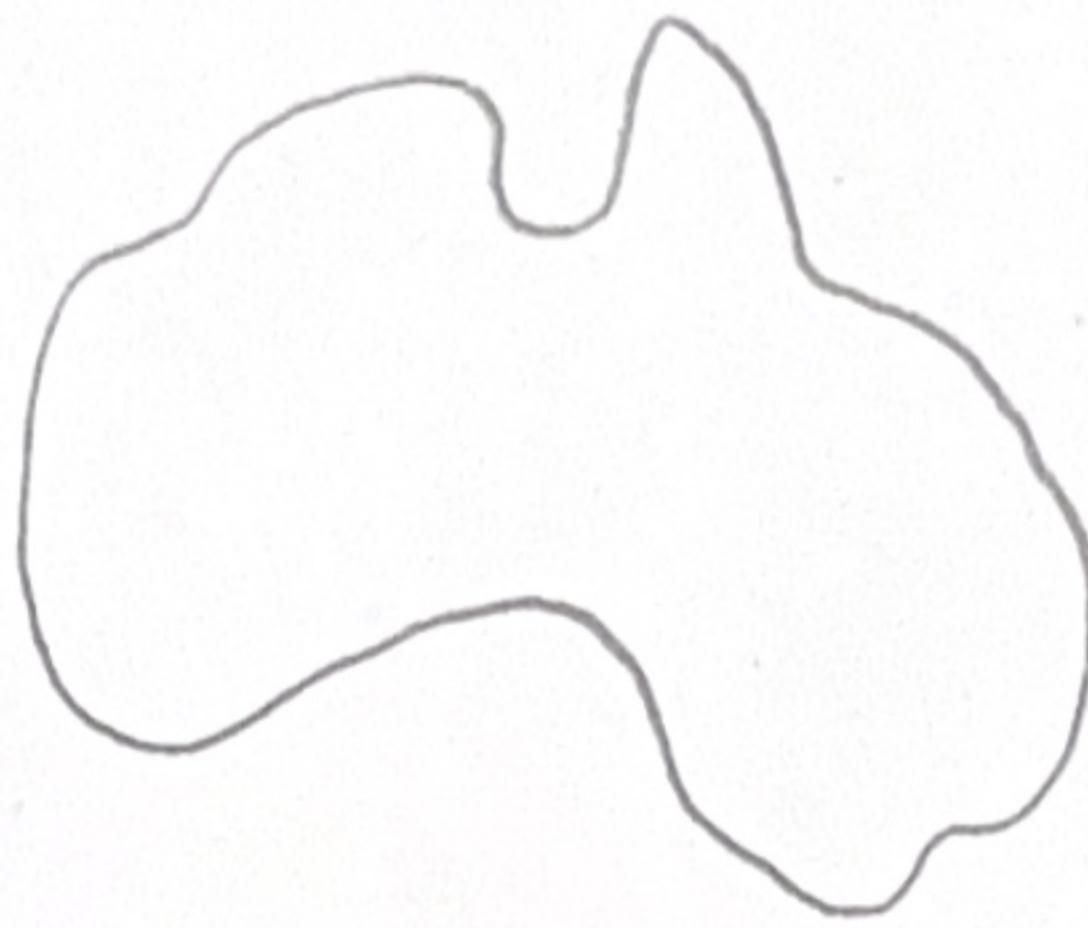
- (3) Horizontal bar chart



- (4) Line chart



- (5) Choropleth map

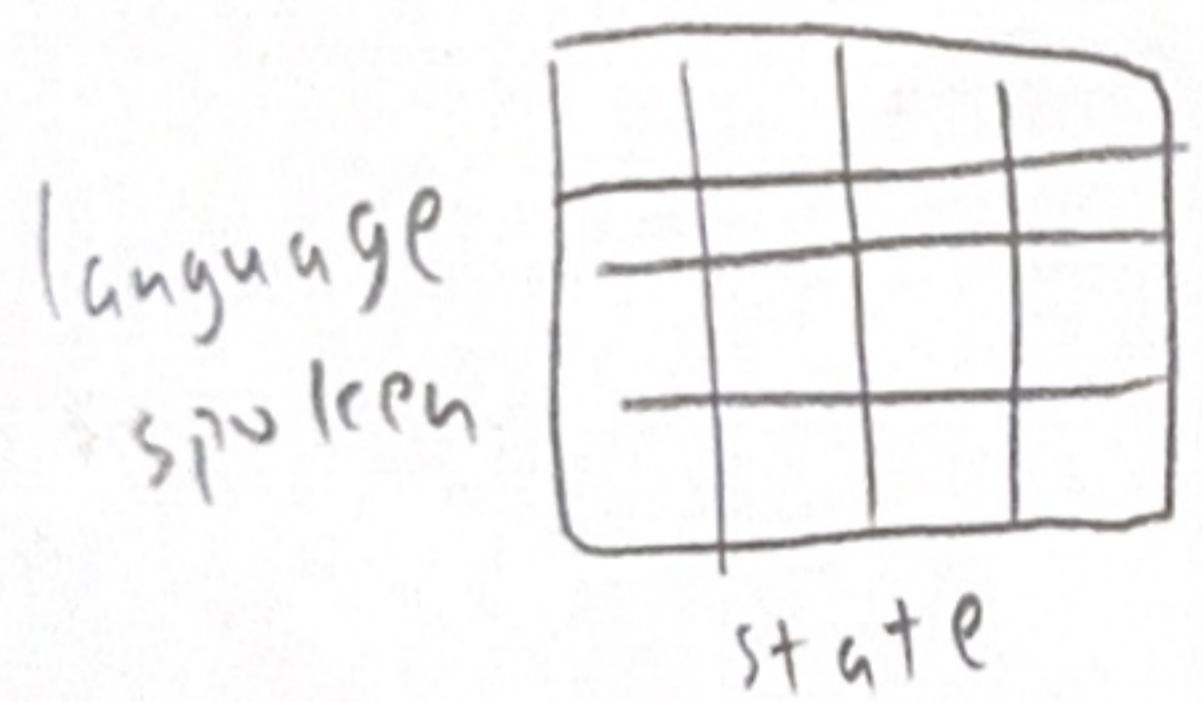


- (6) Treemap

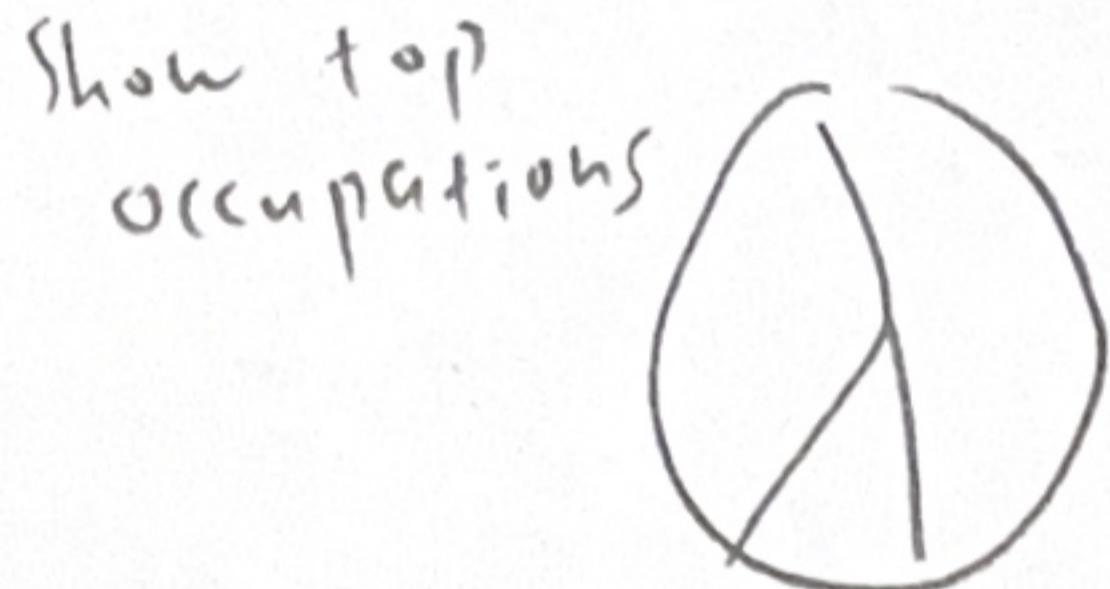


Show religious affiliation in Australia

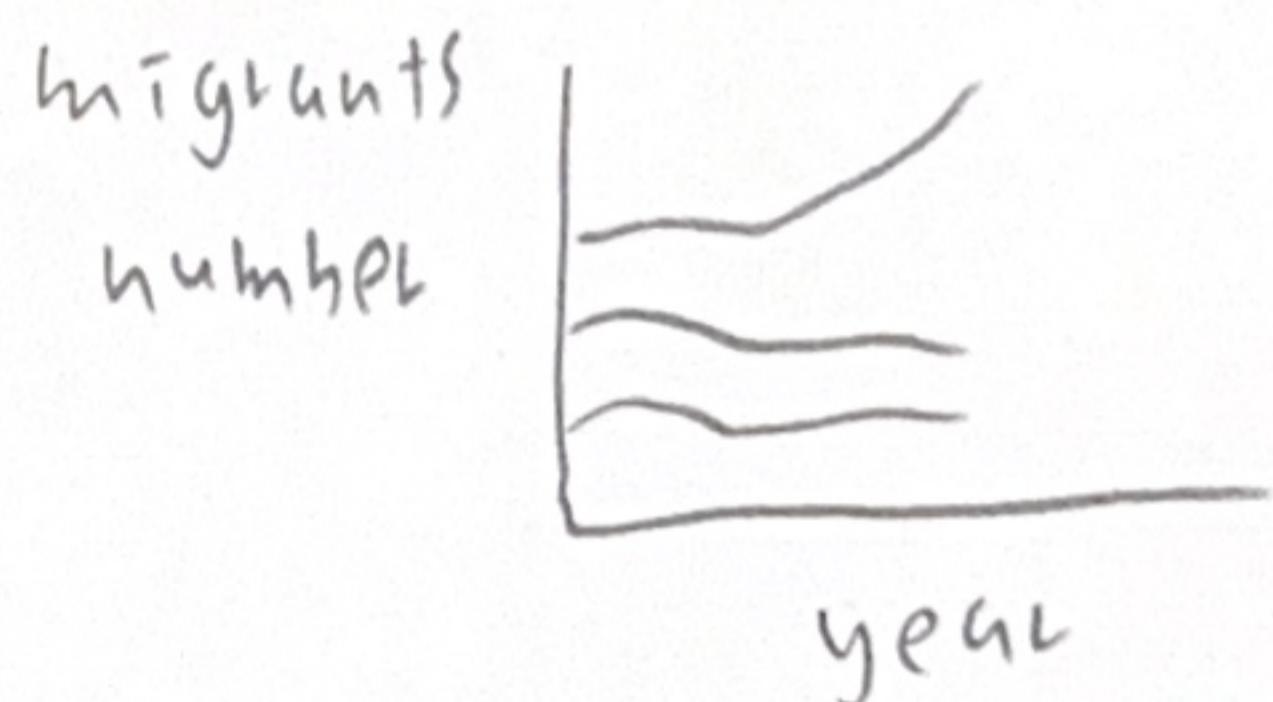
- (7) heatmap table



- (8) pie chart



- (9) stacked area chart



### Filter

- (8) pie chart



- too many occupations to show
- will be very hard to read

### Categorise

**Categorical**

- year
- age group
- language
- occupation

**Quantitative**

- estimate population
- estimate number of residents

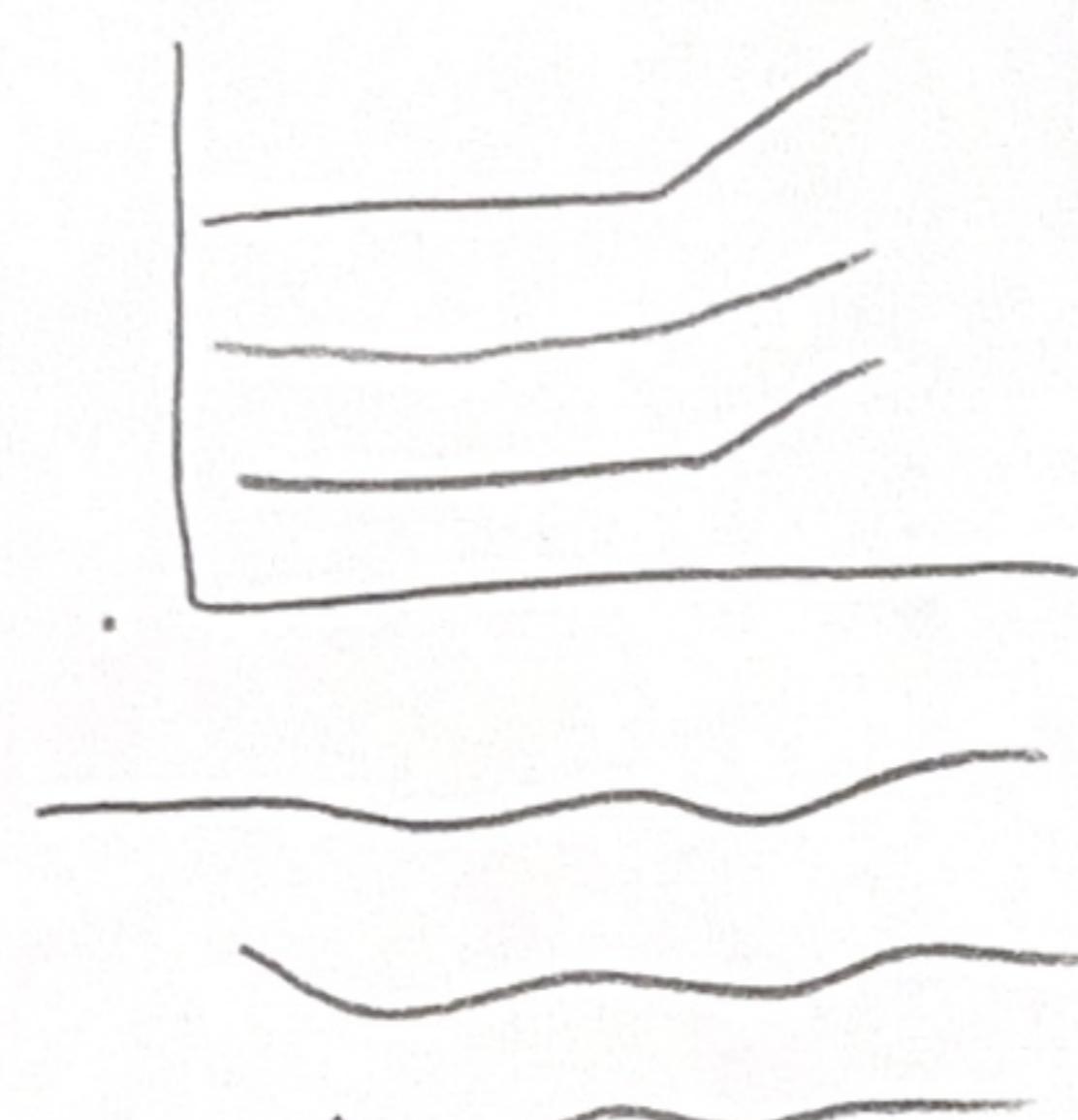
### Combine and Refine

- ① can be selected over ⑧ as they both display information in the same style

- ② could be turned into a horizontal stacked bar chart

# LAYOUT

## Demographic of Australia



Choropleth map

- Shows the percent of non-english speakers at home across states

Donut chart

- Shows the top languages spoken at home

- Shows the top occupations

- Shows the types of visa migrants use to stay in Australia

## FOCUS

- No main focus, all graphs are important
- The choropleth map should be bigger than the donut chart to allow for clearer scrutinisation

Title: Partitioned Poster  
Author: Joshua Wong  
Date: 15/10/2025  
Sheet: 2  
Task: Design an infographic poster

## OPERATION

- Selecting a state on the choropleth map will show only that state with colour encoded
- Selecting a state on the line chart will only show the line for that state

## DISCUSSION

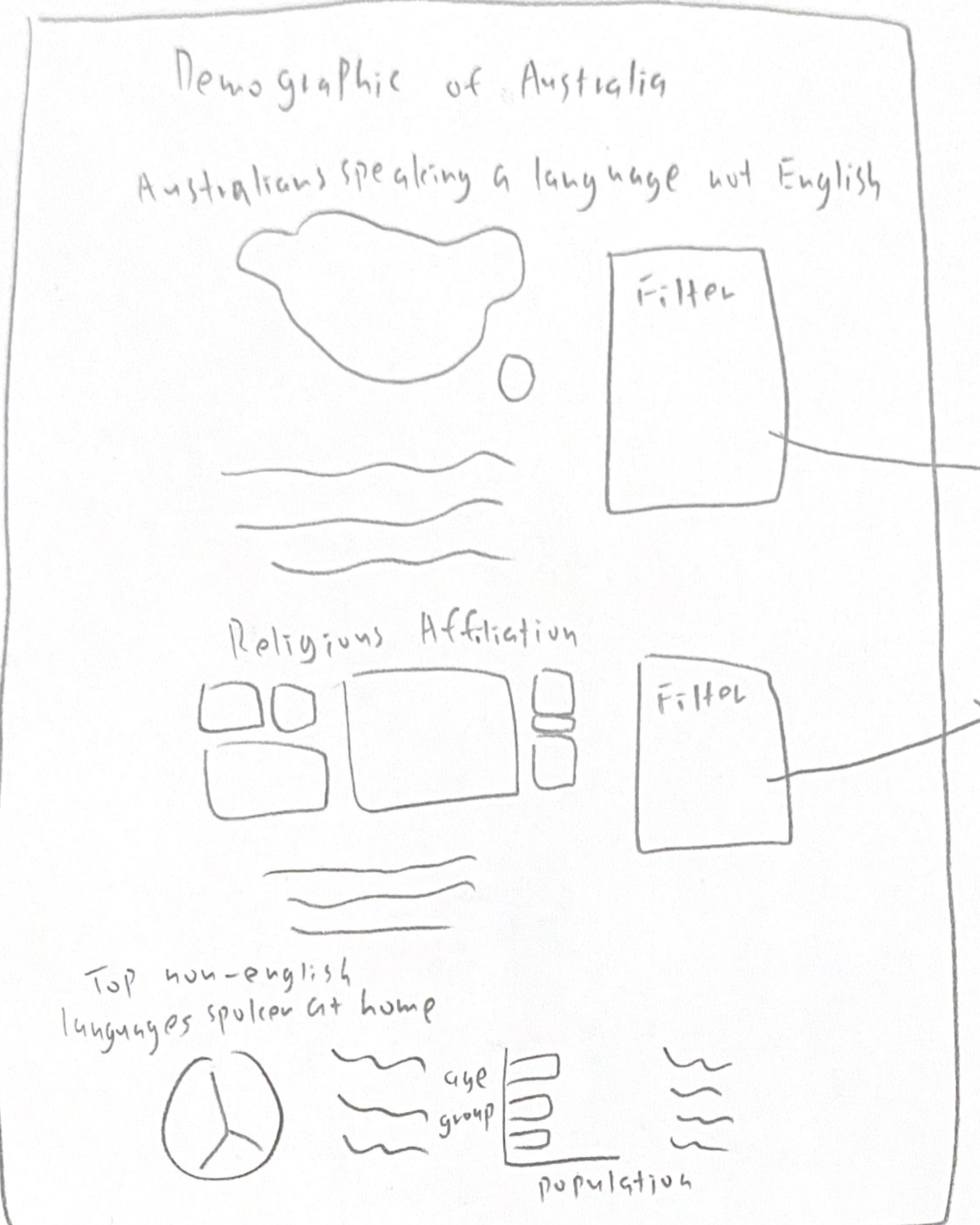
### Advantages

- well segmented into clear segments
- lighter interaction is easy to implement and easy for them to use

### Disadvantages

- might have too many donut charts
- having no main focus can make the visualisation look messy

# LAYOUT



Title: Storytelling #7

Author: Joshua Wong

Date: 15/10/2025

Sheet: 3

Task: Design scrollable Story-like poster

## OPERATION

Filter by states using a dropdown filter

Filter by religious category

- Annotate the donut chart to show highest non-english language spoken at home

## DISCUSSION

### FOCUS

### Advantages

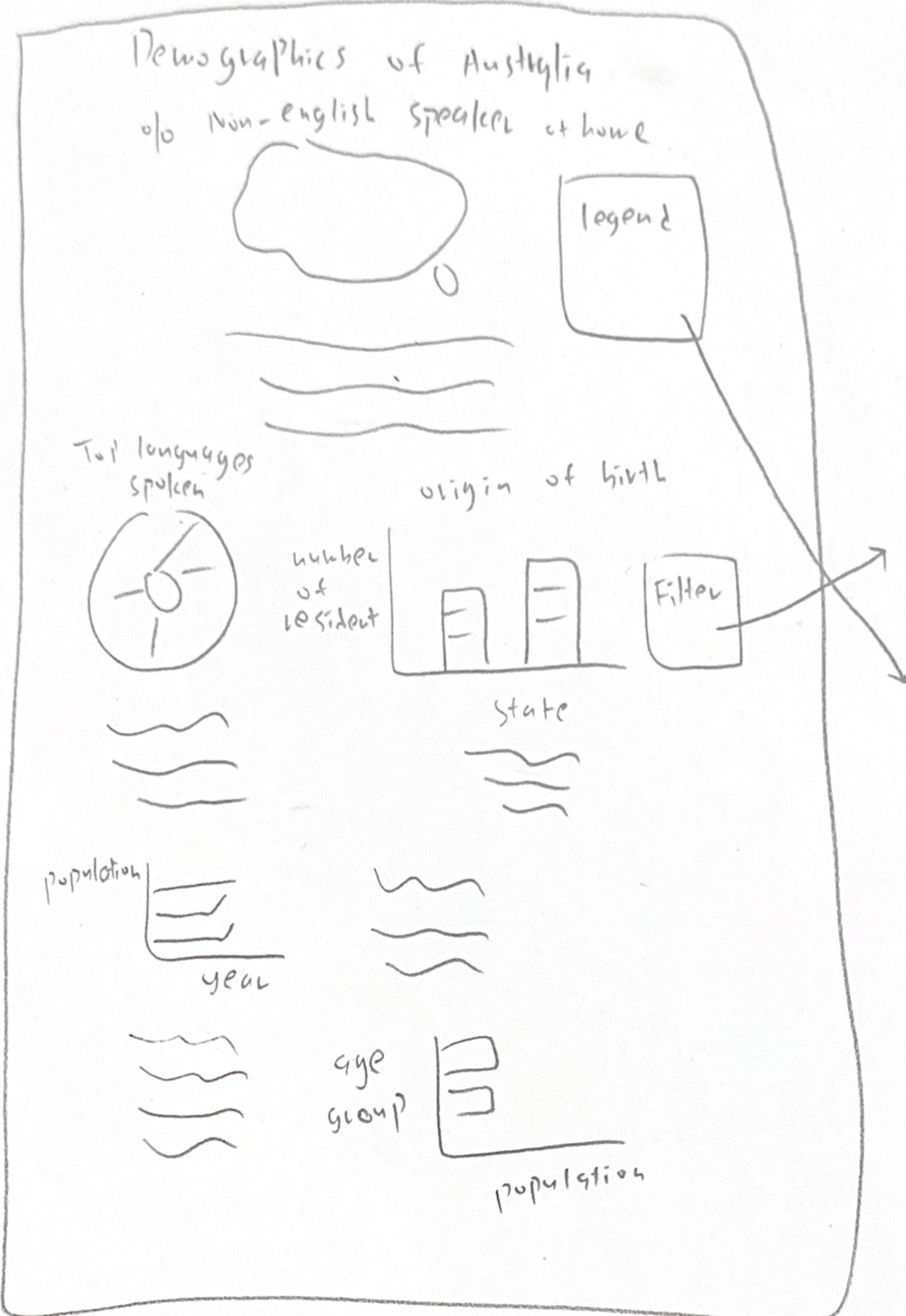
- Show how multicultural and diverse Australia is now
- Show what languages other than english Australians speak at home
- Show how the new migrants have change the religious affiliations of Australians across the country
- Show how the migrants effect the population age as most are young to add to the youthful workforce

- Creates a clear story as sections are well defined
- Eye catching and interesting visualisation
- Good user interaction

### Disadvantages

- Might be long visualisation needing to scroll a lot
- Filtering is time consuming and difficult to create

## LAYOUT



Title: Story-telling #2

Author: Joshua Wong

Date: 15/10/2025

Sheet: 4

Task: Design a scrollable page telling a story

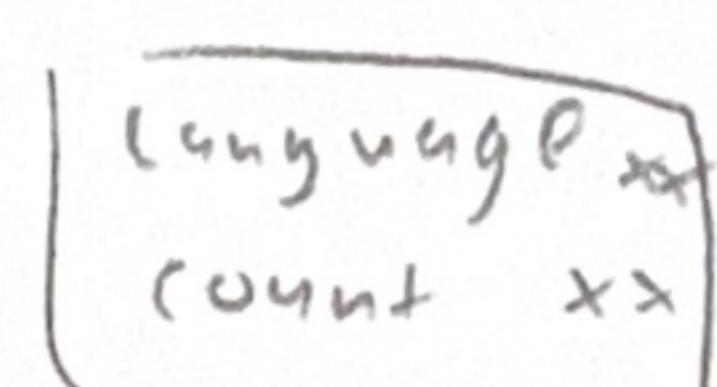
## OPERATION

Filter by region or country of birth of residents in the state

Legend to show how the colour changes as the percentage increases or decreases

### Tool tips

- Hover over the donut chart



## DISCUSSION

### FOCUS

- No main focus as all graphs are equally important
- Main focus is tying all the idioms together
- Annotations on each chart
- Gives the viewer insight into how diverse and multicultural Australia is

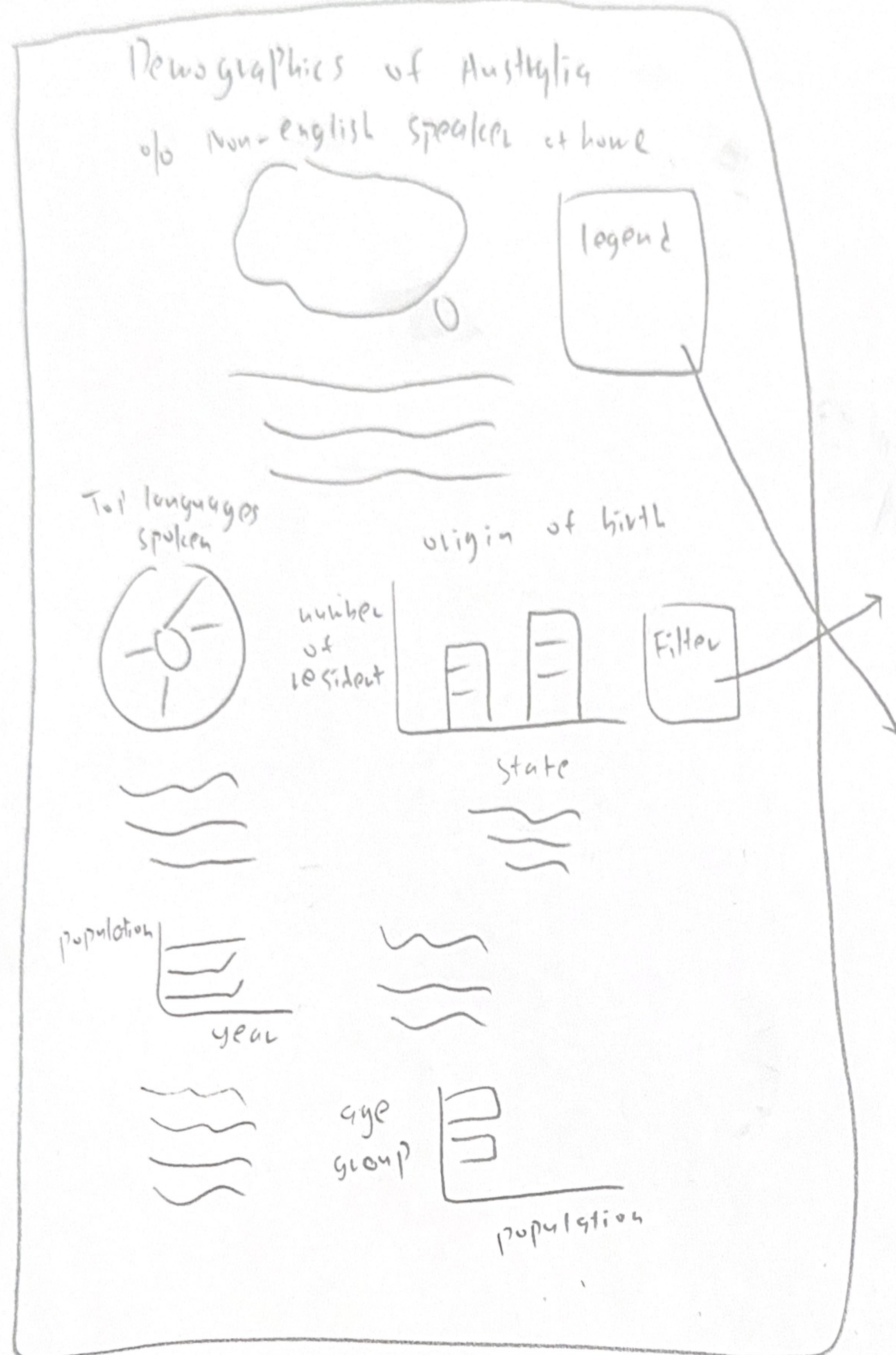
### Advantages

- easy to follow along and gives a story showing how each state changes

### Disadvantages

- could be too long to scroll leading to loss of interest

# LAYOUT Based off of Shoot 4:



Title: Final design sheet  
 Author: Joshua Wong  
 Date: 15/10/2025  
 Sheet: 5

Task: Design the final layout

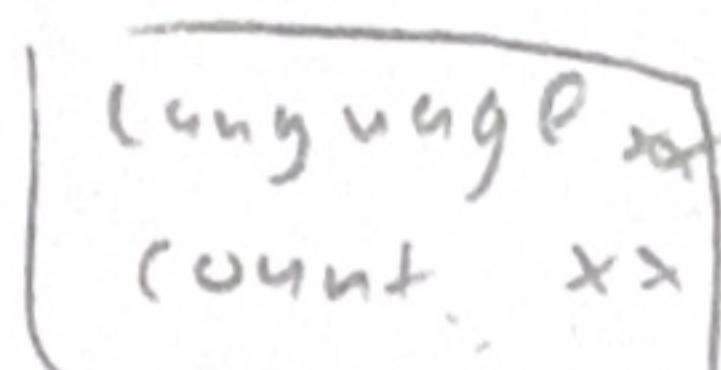
## OPERATION

Filter by region or country of birth of residents in the state

Legend to show how the colour changes as the percentage increases or decreases

## Tool tips

- Hover over the donut chart



## Details

### FOCUS

- No main focus as all graphs are equally important
- Main focus is tying all the idioms together
- Annotations on each chart
- Gives the viewer insight into how diverse and multicultural Australia is

- Dependencies: OSMTHUB and ABS for the data and to host the viz
- Estimated time and effort is at least 3 days to build all idioms and 3 day for the final dashboard
- specific req: focus on larger vizzes first for more clarity on smaller screens