1. ideas

Data:
- Ancestry
- Birth Country
- Language

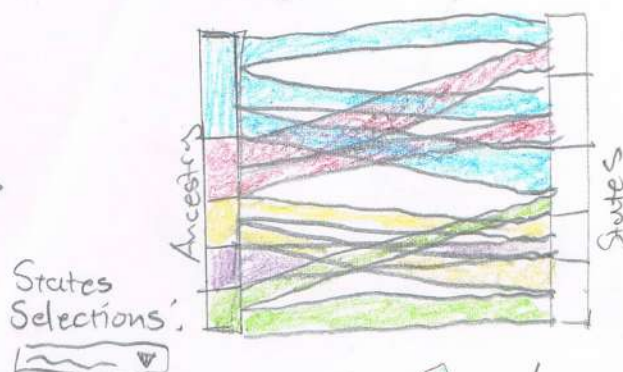

English
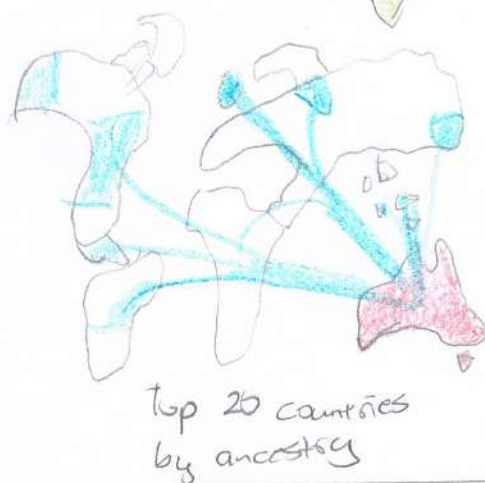Others

States

Ancestry Treemap

States Selections:

Num Speakers
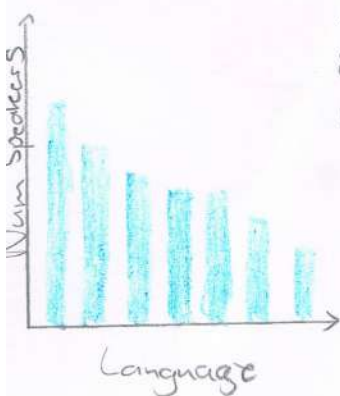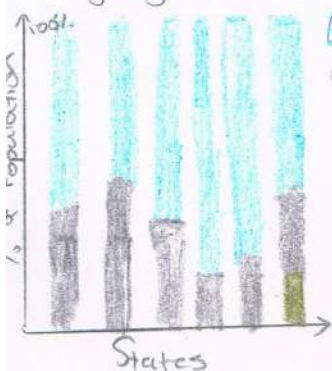
Language

Ancestry Selection:

Language Selection

Top 20 countries by ancestry

2. Filter

①
% of Pop
States

② Num Speakers
Language
Select:

③ Ancestry ▼

④ Language ▼

⑤
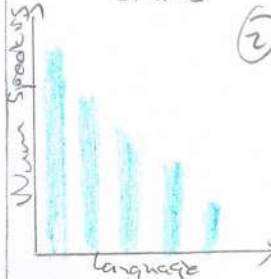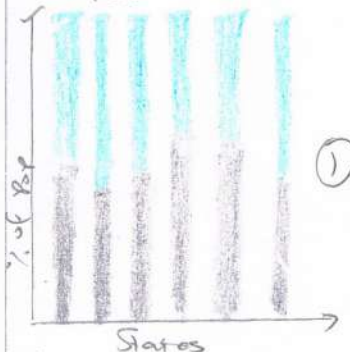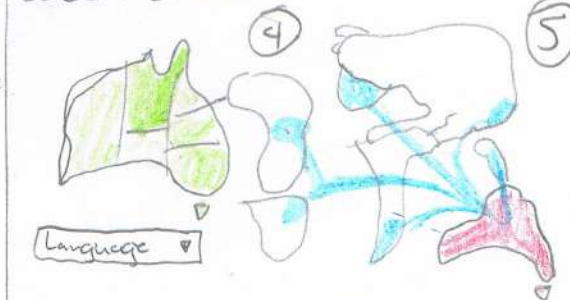
3. Categorise
Attributes

Categorical
- Ancestry
- Countries
- States
- languages

Quantitative
- % of population
- num of persons

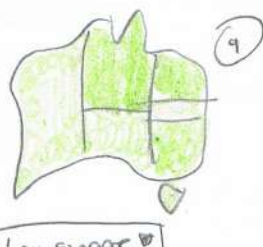Graphs @ categorisation
① & ②
③ & ④
⑤

4. Combine & Refine

③ Ancestry ▼

④ Language ▼
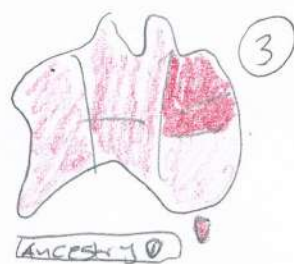
③ & ④ are similar and show would probably show similar conclusions. So maybe Choose one over another
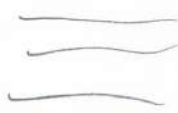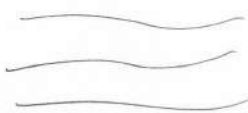
⑤ is not possible with curved lines, so due to vega-lite limitations. Therefore, use straight-lines

5. Questions
- Will there be enough variation to show diversity?
- Will there be large values which drown out others?

Layout

Title

Introduction

___ ___ ___

___ ___ ___

Image

Subtitle

___ ___

___ ___

Subtitle

___ ___

___ ___

Ancestry ▽

Subtitle

% of pop

State

Subtitle

Num of people

Lang ▽

Language

Focus'

- Users ~~fill~~ will be able to choose an ancestry to look at to focus of specific ancestries in states

- Users will be able to choose a language to look at to focus of specific spoken languages

Operations

- Filter for ancestry (Dropdown)

- ~~Filter~~

- Filter for language (Drop down)
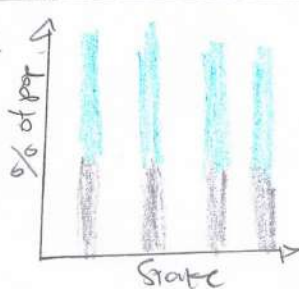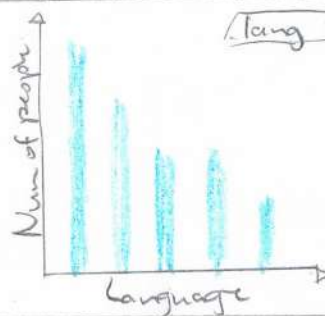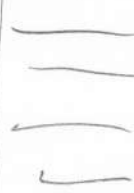
Discussion

Pros
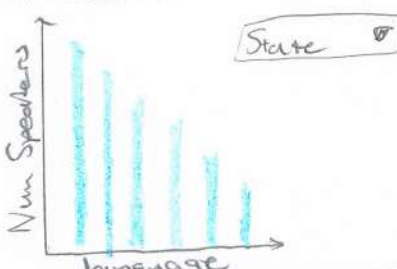
• Similar colours

• Simple layout

Cons

• layout too wide for webpage

• World map hard to ~~state~~ analyse

• No numbers.

Layout

Title

~~Subtitle~~ Intro

_____
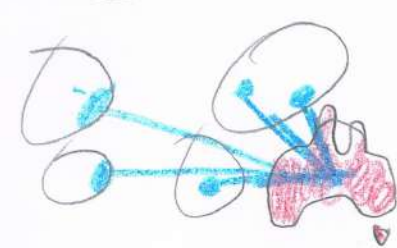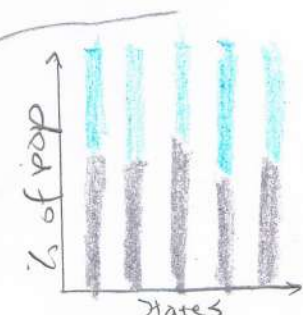_____   _____
_____   _____

Image

Subtitle

_____
_____

Subtitle

_____
_____

States

Subtitle

_____
_____
_____

Anc ▽

Subtitle
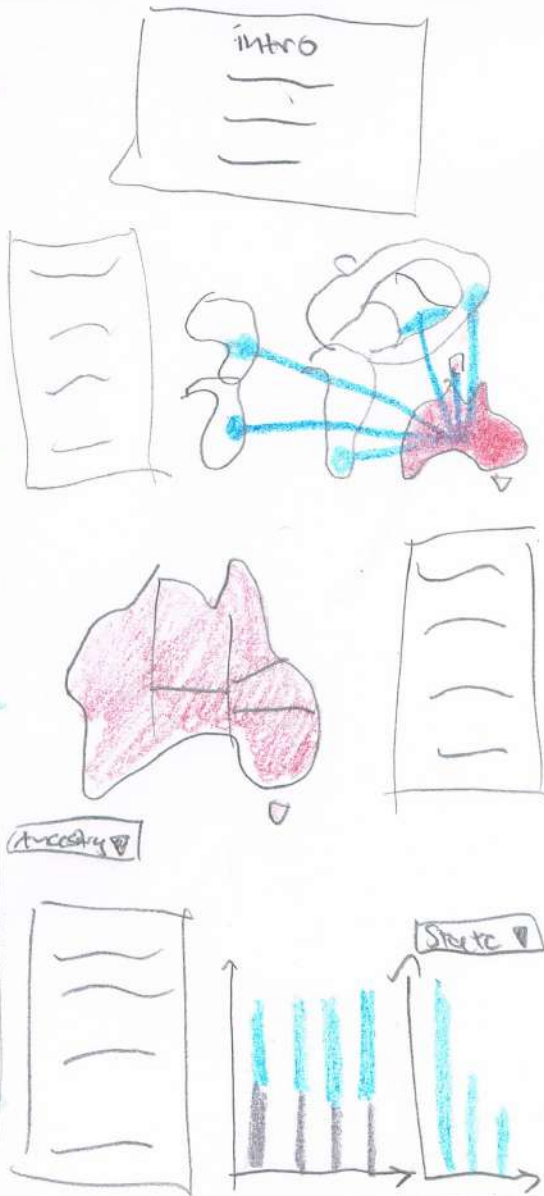
~~~~~~~~~~
~~~~~~~~~~
~~~~~~~~~~

State ▽

language

Focus

- Use of tooltips helps users to find
  out amounts specifically
- Use of filters to help focus on
  certain categories

Operations
- Tool tips on maps for:
  ↳ Flow on flow map
  ↳ States on Choropleth
    map
- Filter for states in
  barchart
- Filter for ancestry in
  Choropleth map.

Discussion
Pros
- Use of tooltips
- Use of filters
- Better layout

Cons
- layout still wide
- maybe too compact

Title

intro

Operations

- Tooltips on maps
  and barcharts
- Filters for ancestry
  and states

Focus

- Tooltips allow for access to
  more specific amounts and
  percentages
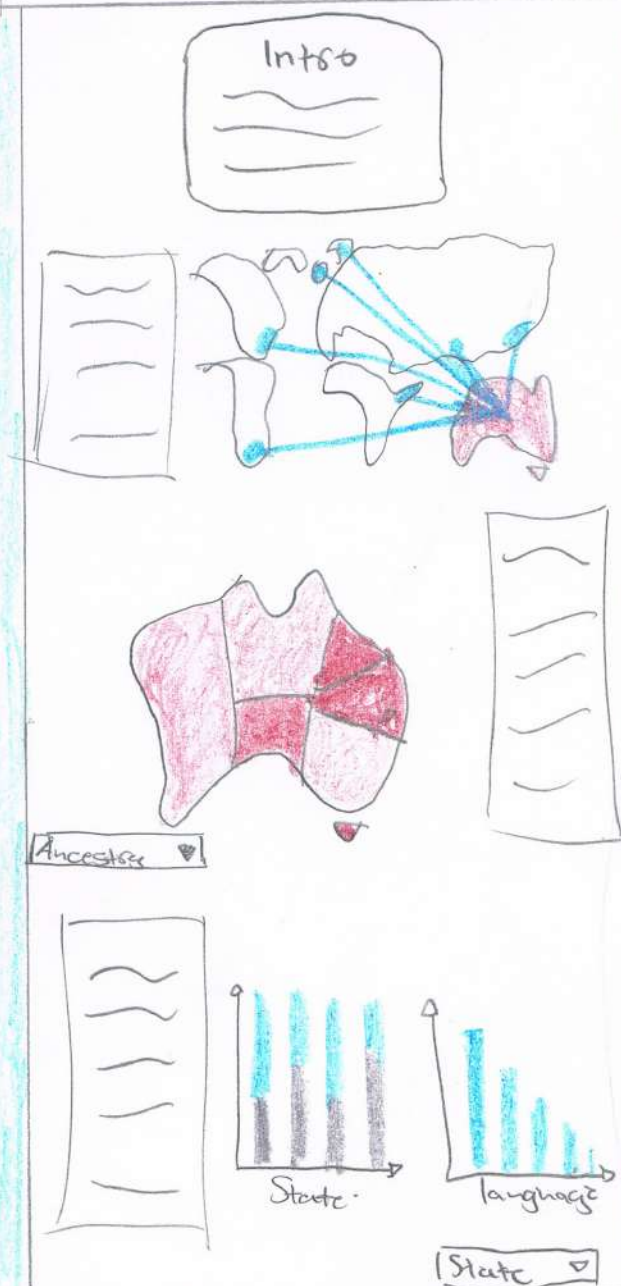
- Filters for ancestries
  allow for more specific
  ancestries

- Filters for states to show
  # language spoken in
  each state, and how they
  compare.

Pro

- Better layout
- Text is easier to read
- Tooltips
- Filters

Cons

- unused space

ayout

Title

Intro

Ancestry ▼

State.

language

State ▼

Title: Cultural Diversity
of Australia
Author: Stefan Su
Date: 15 oct 2024
Task: Show and describe
cultural diversity of
Australia
Sheet 5

Operations
- Filters for ancestry for Chpropleth map
- Filters for state for Bar chart
- Tooltips for maps and barcharts when hovering over ecoulored elements

Details
- Use of HTML
- Use of CSS
- Use of Vega-Lite
- Standardise some amounts using state populations
- Retrieve top 20 ancestrie
- Retrieve top 10 language other than English.

Focus

Dropdown Filter Selection
- Used in bar chart to change state
- Used in choropleth map to change ancestry

Tooltips
- Barcharts show %/o and numbers
- Chropleth shows %. and state name and ancestry

- World map flow lines show amount