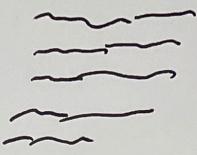
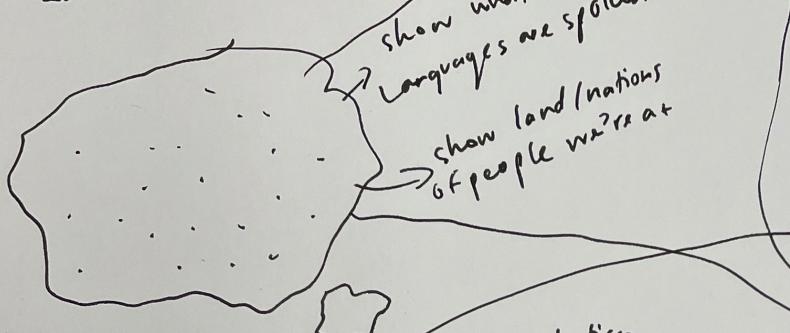


LAYOUT

Indigenous &  
Torres Strait Islander  
In Australia



Land of people map:

OPERATIONS

Select, filter by specific nation/language using search bar

TOOLS:

Hover, show tooltips that include the population information sex, age, ...

Hover show the top 3 spoken languages by number of speaker

filter by states/nation!

DETAILS:

Dependencies: Excel,

R for cleaning,  
VSCode, Vega-Lite  
HTML and CSS  
formats.

Estimated time:

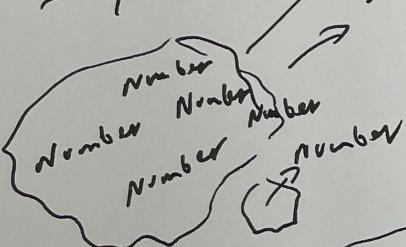
2 days for data preparation

1 day to set up the website

2 days to add visualisation

1 day to finish & refine.

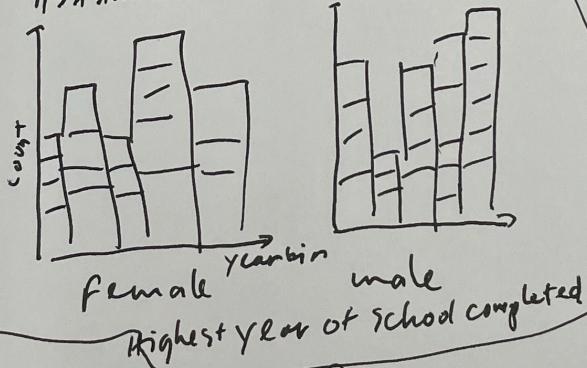
Indigenous status:



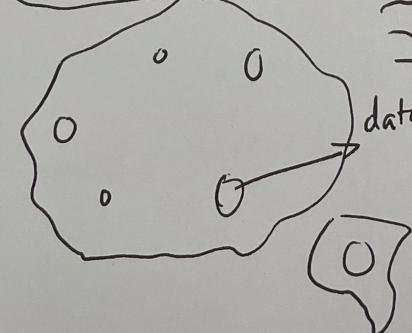
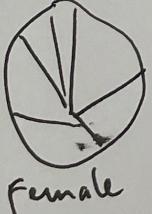
show the population

compare against  
Australia population  
Territories

Assistance need



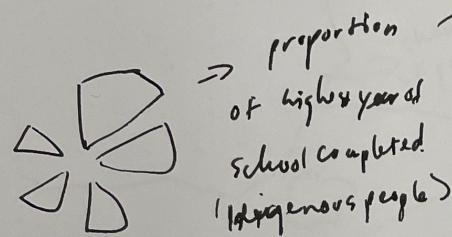
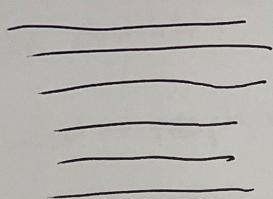
Labour force by age



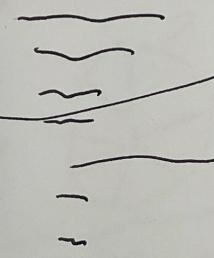
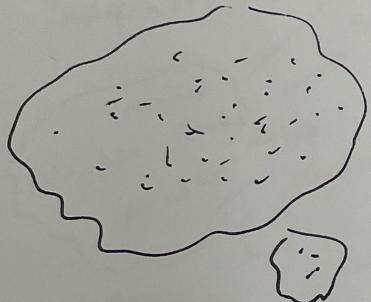
## LAYOUT

Indigenous & Torres Strait

Islander



→ proportion  
of high school  
completed.  
(Indigenous people)



Proficiency in speaker language of Indigenous people



sheet 4 by Nguyen Huyanh

## OPERATIONS

Filter can be applied  
to change the text → change  
the data (Australia, Indigenous  
and Torres Strait Islander)

Filter can be used to show  
the difference between  
the states

## FOCUS

The map & has colour per  
region to show whose land  
we are at → hover gives more  
information.

Hovering could also give  
more data about the age/gender  
of people related to proficiency  
in speaker language

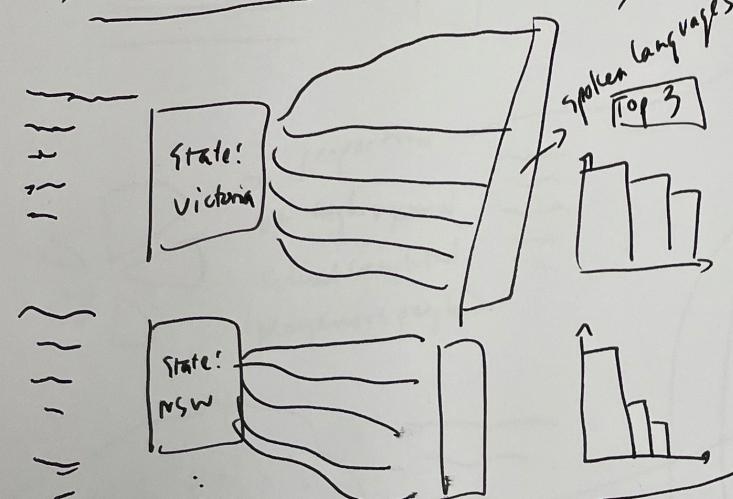
## DISCUSSION

- This visualisation seems  
to fulfill the task of visualizing  
both the overall view and detailed  
view. However, it is more about  
the people not just a language?  
Is it out of the domain?

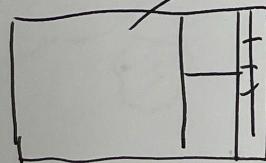
- By showing different aspects  
rather than just language, is it  
a good story teller?

## LAYOUT

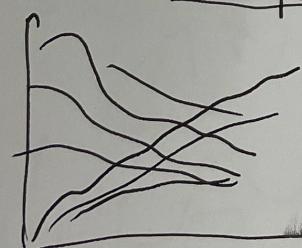
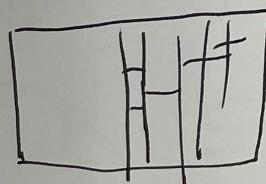
Indigenous & Torres  
Straits Islander Language



Male:



Female:



Time series  
Show how  
the number of ppl  
speaking changes  
over the time

Sheet 3 by Nguyen Huynh

## OPERATIONS

Filter can be applied  
to get the top n spoken  
languages in each state.

Should it be an axis that  
can be dragged or a type-in  
box?

For this one, states filter  
can help readers dive deeper  
into how it looks like in different  
states

Filter for each language,  
we can target the desired  
language.

## FOCUS

The dendrogram can show  
specifically the languages by colour  
and its spoken populations.  
The small bar chart could be changed  
into text?

## DISCUSSION

- For this layout, it focuses more  
on how does it look like in  
each state: including population  
age bin and spoken language.

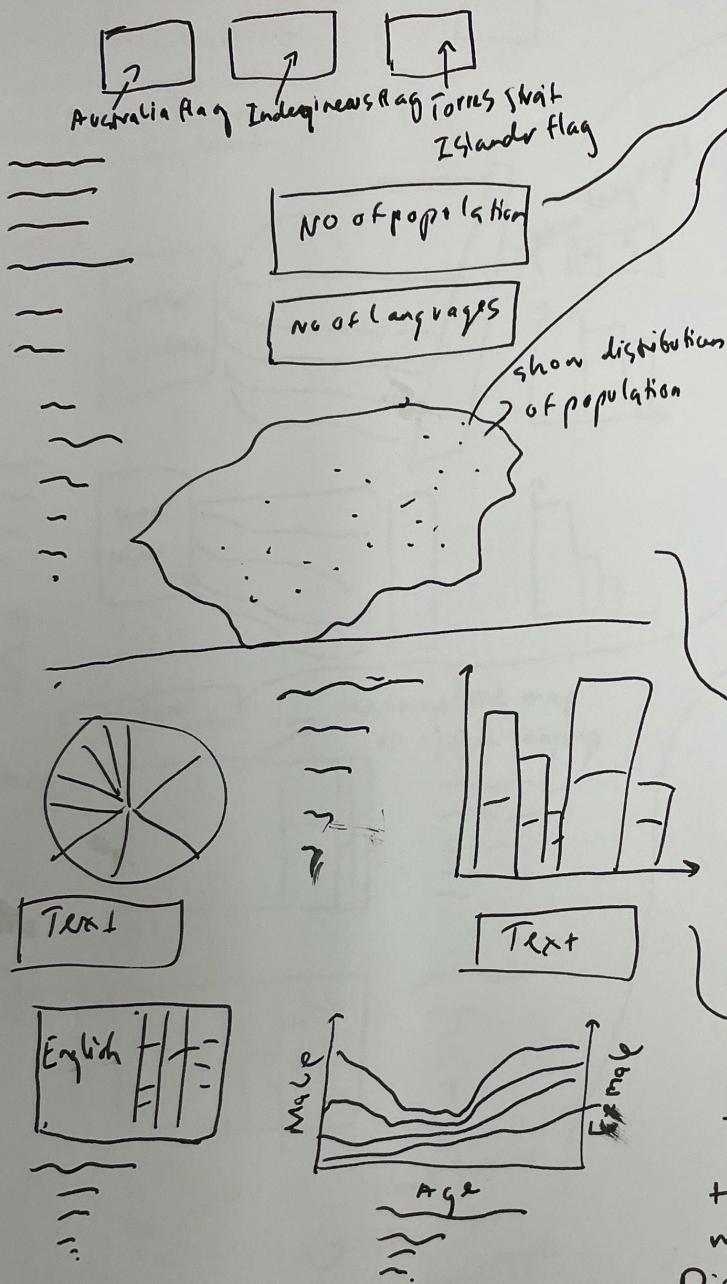
- Does it need more idioms show  
the overall view of entire Australia?

- Too many visualizations: at least:  
19-20?

## LAYOUT

Sheet 2 by Nguyen Huynh

### Indigenous Language in Australia



## OPERATIONS

Could do filter by states, showing more data about a state, hovering also gives more data.

→ Not sure where or how should I do this? Make a separate filter or just hovering and clicking?

## FOCUS

Focus on each section:

→ Section 4: show more about the overall view of languages in Australia, distribution of languages in the map, ...

→ Section 2: show detailedly of a state or a city, ...

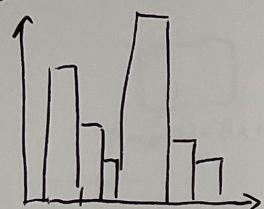
The pie chart could be improved to increase the complexity, show more data

## DISCUSSION

- Overallly show the big picture of the domain
- Is the number of idioms is enough to tell all the stories?
- Data could be the same attribute, should be group them together → cut down the number of idiom?

## IDEAS

① Bar chart



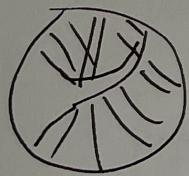
② Stacked bar chart



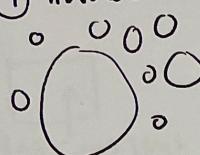
③ pie chart / Advanced pie chart



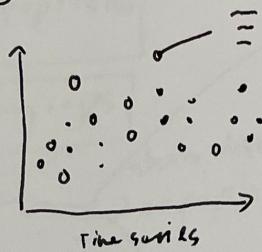
⑩ Chord diagram



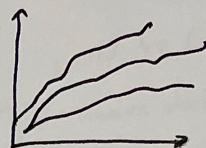
④ Bubble chart



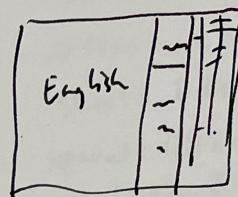
⑤ Scatter bubble chart



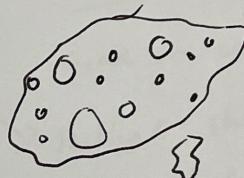
⑥ Line chart / time series



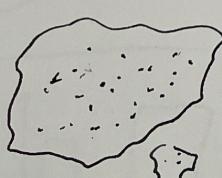
⑦ Heat map / Treemap



⑧ Dot map

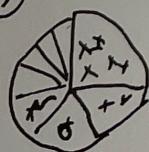


⑨ Proportional symbol map



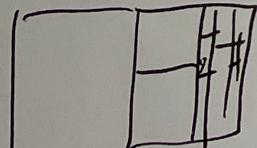
## FILTERS

③



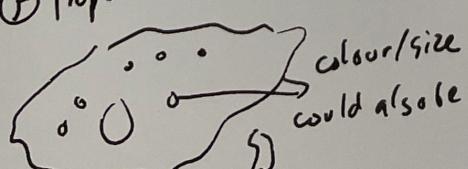
using symbol/color  
to add more dimensions

⑦ Treemap



some thing could be applied

⑧ proportional symbol map



## CATEGORISE

\* Categorical

- Languages

- Spoken states

- ...

\* Quantitative

- population

- Efficiency / Proficiency

- proportion of English

vs other languages

- Age bin

....

## COMBINE & REFINÉ

- prioritize selecting maps over non-map idioms.

- We can select (3) over (5) or (8) since (3) or (1)/(2) could show the data without the date / data.

- (9) could be chosen over (8) to increase the complexity

- (10) and (11) have the same complexity → depends on the context to decide.

## QUESTION:

- It is imbalance to show the map idioms more than the non-map one?