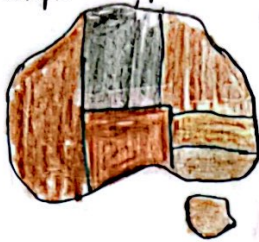


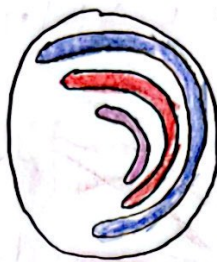
IDEAS

→ Choropleth Map



- Current number of students by STATE / TERRITORY

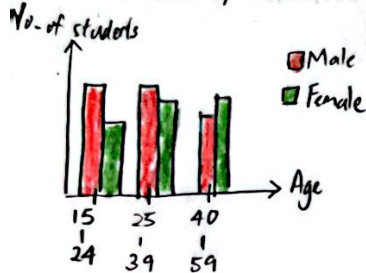
→ Radial Bar Chart



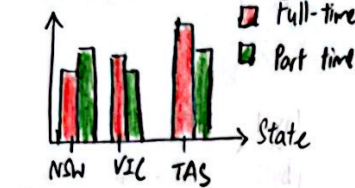
- Level of education to labour force status
- Field of trade of apprenticeship

→ Grouped Bar Chart

- Current number of students in non-school by AGE & SEX

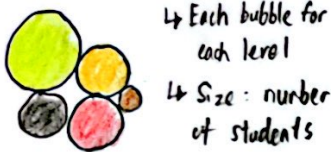


- Current number of students in non-school by State & enrollment type



→ Bubble chart

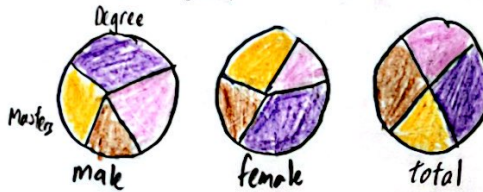
- Current number of students in non-schools by LEVEL



- ↳ Each bubble for each level
- ↳ Size: number of students

→ Pie chart

- Number of students by LEVEL, Gender for each chart

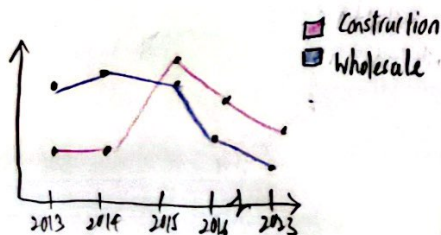


- Number of students by field of study

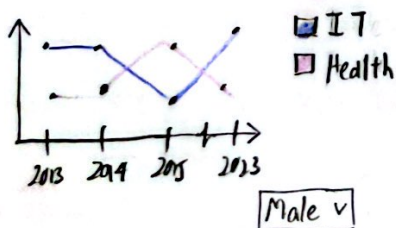


→ Line chart

- Apprentices and trainees from 2013 to 2023, by industry



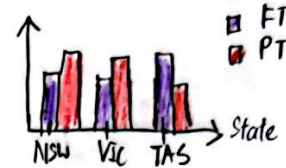
- Main field of study from 2013 to 2023, by gender



FILTER

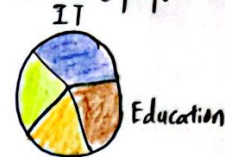
→ 2 bar charts

- ↳ By state & enrollment type
- More data being shown

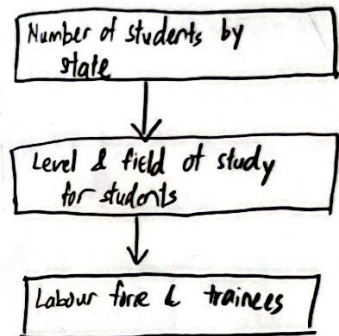


→ 2 pie charts

- ↳ by field of study
- shows the proportion for field of study



CATEGORIZE



COMBINE & REFINE

→ Number of students by LEVEL

Bubble chart



pie chart for each gender



+



Bubble chart + Filter for gender

TOTAL

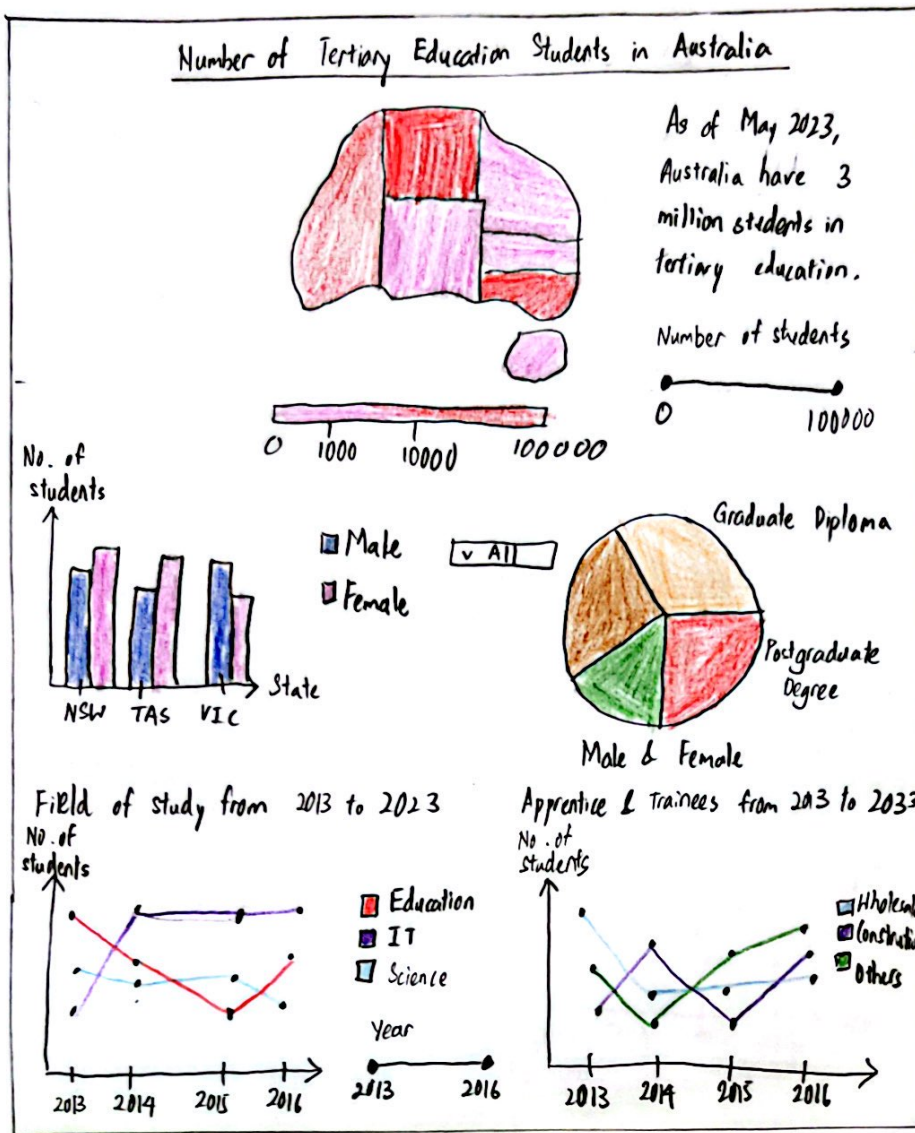


✓ Total

QUESTIONS

- Are these implementations possible
- Does it visualizes the entire data
- Does it have a clear story?

LAYOUT



Title: Number of Tertiary Education Students in Australia

Author: Brandon Lim

Date: 1/10/2024

Sheet: 2

Task: Generalized Dashboard

FOCUS

- ↳ All charts are equally important
- ↳ All charts uses similar proportion, allow users to have a good overall view on all idioms
- ↳ Legends used to allow users to understand easily
- ↳ Colours will be used efficiently to differentiate between elements
- ↳ Sliders and dropdown tools for users to filter data that will be displayed

OPERATIONS

- ↳ There are sliders for both the map to filter the number of students, and the line charts to select the time frame from 2013 to 2023

2013 2023 → 2017 2022

After filtering, the idioms will changed accordingly

- ↳ Hover over each state to see values of each state
- ↳ Hover over each bar to see exact values of students in each state, differ by gender
- ↳ Hover over each section in the pie chart for values
- ↳ A dropdown tool is used to allow users to select genders for bar chart and piechart.

DISCUSSIONS

Pros

- ↳ The visualisation is well-structured and concise
- ↳ Contains all available information
- ↳ Contains legends that improves readability

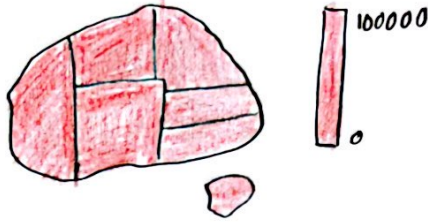
Cons

- ↳ Title is too simple
- ↳ Layout does not have nice story flow
- ↳ Difficult to highlight any charts

LAYOUT

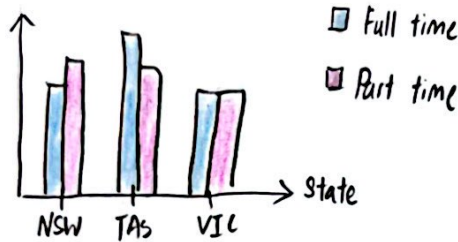
Life after Secondary School: Education Choices of Students in Australia

As of May 2023,



Zoom level: 5

Enrollment type of students

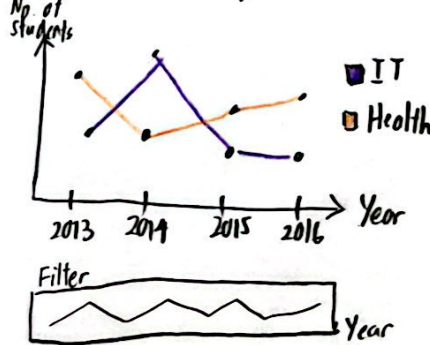


Level of study



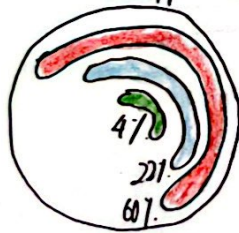
Postgraduate
Bachelor
Advanced Diploma
Diploma

Main field of study from 2013 to 2023



Field of trade of apprenticeship

Filter



To gain experience,

FOCUS

Size of each bubble represents the number of students for each level.



Colours used for the map will be colour saturation, to show the increase or decrease in value

Legends used to allow users to understand easily

Sliders and dropdown tools for users to filter data to display

Title: Number of Tertiary Education Students in Australia

Name: Brandon Lim

Date: 1/10/2024

Sheet: 3

Task: Map Focused Dashboard

OPERATIONS

There are sliders to zoom in and out of the map

Zoom Level: 5

When a state is clicked on the map, the bar chart showing the enrollment type will change, showing the clicked state.

Hover over each bubble to view the exact value of number of students for each level

Users can filter the time frame for displaying the main field of study

Users can select field of trade of apprenticeship using the dropdown menu

DISCUSSIONS

Pros

Focused on the map, where some information is based on it

Interactive visualisations such as the line charts

Title is interesting

Cons

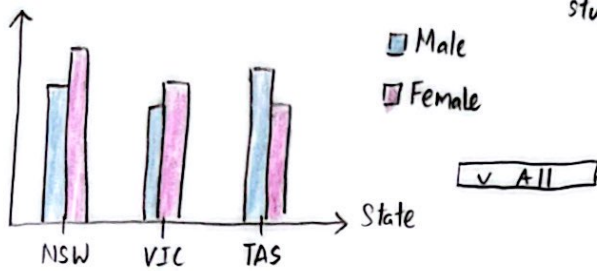
Shows only basic information

Too much white space

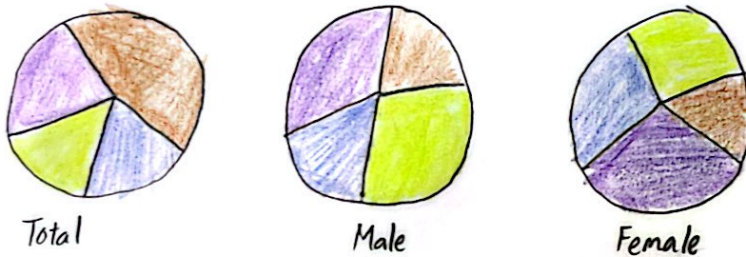
LAYOUT

Life after Secondary School: Education Choices of Students in Australia

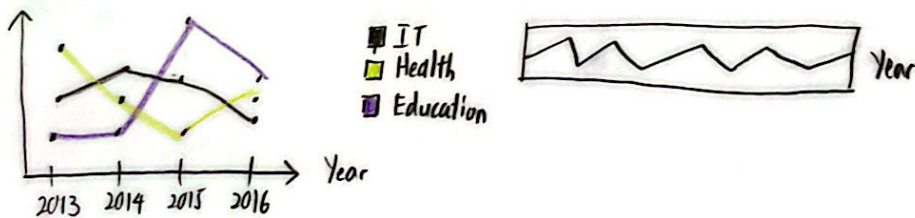
Current number of students by State



Number of students by level of education



Main field of study from 2013 to 2023



Labour force status of students of each level of education



FOCUS

- The 3 pie charts provide different values for each gender
- Colours will be used efficiently to enhance interpretability
- Legends used to allow users to understand easily
- Sliders and dropdown tools for users to filter data to display

Title: Number of tertiary Education Students in Australia

Name: Brandon Lim

Date: 2/10/2024

Sheet: 4

Task: Focus on level of study & main field of study

OPERATIONS

- There are dropdown tools for the grouped bar chart and radial bar chart to select states or level of education



- There is slider available to filter the time frame of the line chart
- Hover over each bar in the bar charts to view exact values
- Hover over each section in the pie chart to view exact values

DISCUSSIONS

Pros

- Focused on more detailed data such as level of education and main field of study

Cons

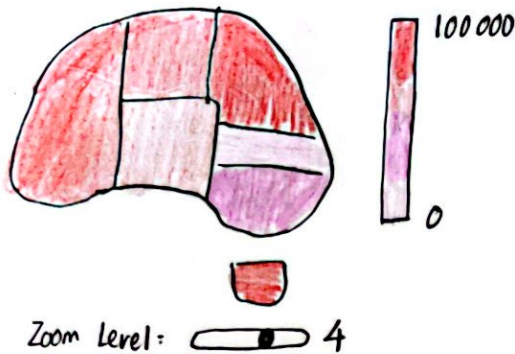
- No clear story flow
- Less interaction for users

LAYOUT

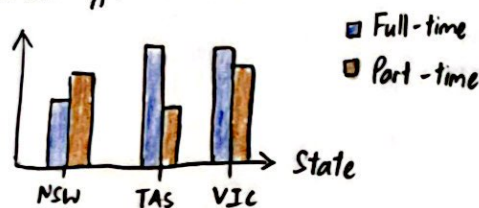
Same as Sheet 3

Life after Secondary School: Education Choices of Students in Australia

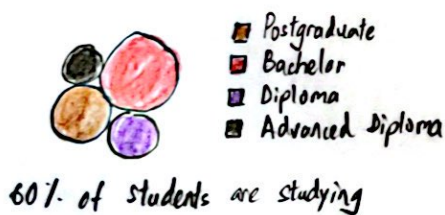
As of May 2023,



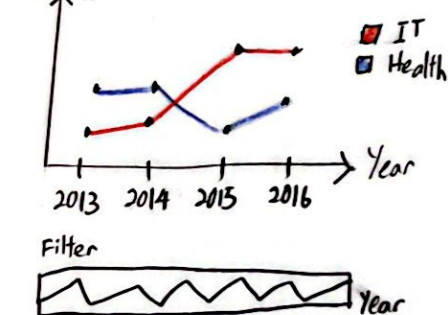
Enrollment type of students



Number of students by level of study

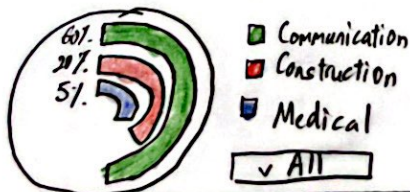


Main field of study from 2013 to 2023



Field of trade of apprenticeship

To gain experience,



Title: Number of Tertiary Education Students in Australia

Name: Brandon Lim

Date: 4/10/2024

Sheet: 5

Task: Finalized Dashboard

OPERATIONS

↳ There are sliders to zoom in and out of the map

Zoom Level: 4

↳ When a state is clicked on the map, the bar chart showing the enrollment type will change, showing the clicked state.

↳ Hover over each bubble to view the exact value of number of students for each level

↳ Users can filter the time frame for displaying the main field of study

↳ Users can select field of trade of apprenticeship using the dropdown menu

DETAIL

↳ Dependencies: Using Vega-Lite and HTML to produce visualisation after data clearing using Excel & R.

↳ Estimated time:

- 2 days to find and understand data
- 3 days to generate ideas and build layouts
- 1 day to finalize design

FOCUS

↳ Size of each bubble represents the number of students for each level



↳ Colours used for the map will be colour saturation, to show the increase or decrease in value

↳ Legends used to allow users to understand easily

↳ Sliders and dropdown tools for users to filter data to display