

## **5 Design Sheets**

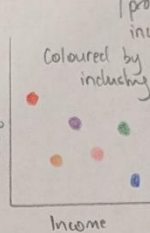
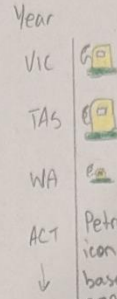
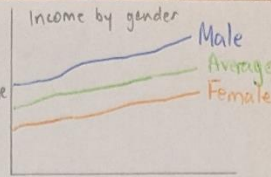
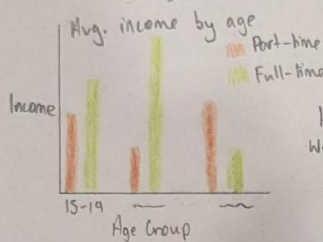
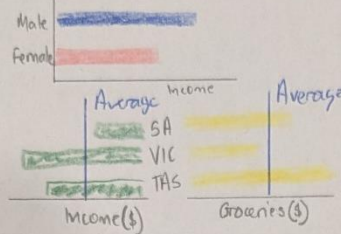
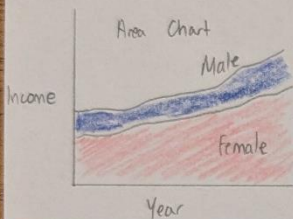
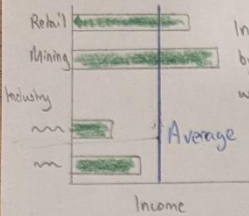
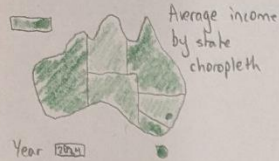
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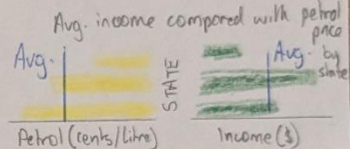
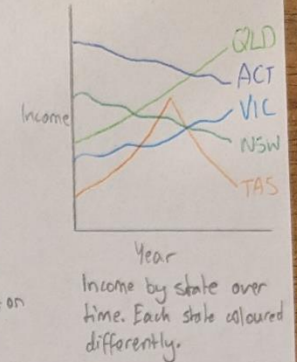
Studio: Tuesday 6-8pm

Tutor: Angel Das

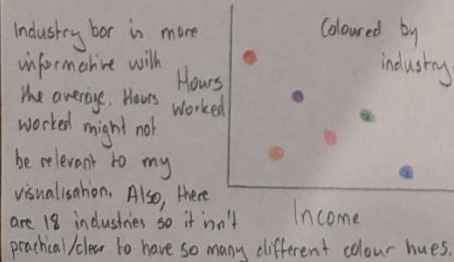
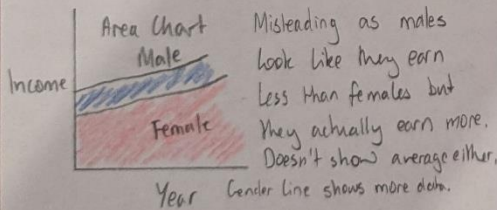
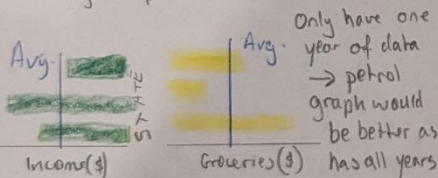
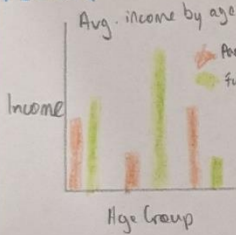
# IDEAS



Milly Sullivan FIT3179  
Date: 4/10/24  
Sheet 1



## FILTER



Could add filter for full-time/part-time to red/green difference from average graph which is more interesting than this one.

Only have one year of data → petrol graph would be better as has all years

Misleading as males look like they earn less than females but they actually earn more. Doesn't show average either. Gender line shows more debt.

Industry bar is more informative with the average. Hours worked might not be relevant to my visualisation. Also, there are 18 industries so it isn't practical/clear to have so many different colour hues.

## CATEGORISE

Average weekly income by state (Australia choropleth and income/petrol idiom go together).

Will make sure to clearly separate each section. Maybe through use of headings.

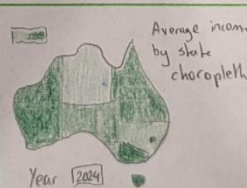
Income by industry with average line

Income by gender and income by age.

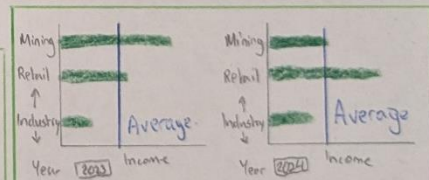
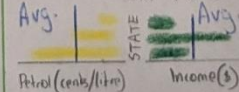
## QUESTION

1. Do the chosen idioms all link together/relate appropriately so the user will understand?
2. Is the data displayed in an interesting way that the user will enjoy?
3. Are the sections logically broken down?

## COMBINE + REFINE



Fit well together. Both broken down by state and can be filtered by year. Could have same drop-down selection apply to both idioms.



Gender and age fit well together. Makes sense to group these. Full-time/part-time filter on age idiom (would be a drop-down selection).



## LAYOUT

TITLE Australian Weekly Income (Dashboard View)

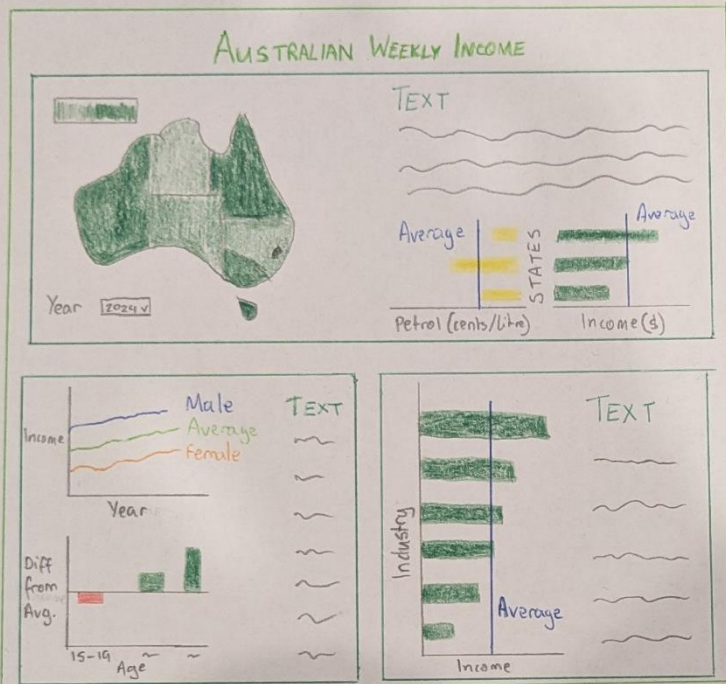
DESCRIPTION/TASK visualisation of Australian income data by state, gender, age, industry and type of work over time.

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Sheet 2

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## OPERATIONS

The choropleth map and bar chart showing income and petrol could be filtered by year with the user selecting year from a drop down box.

The bar that relates to age will have a drop down box filter that allows the user to select if they want to see data relating to full-time or part-time work.

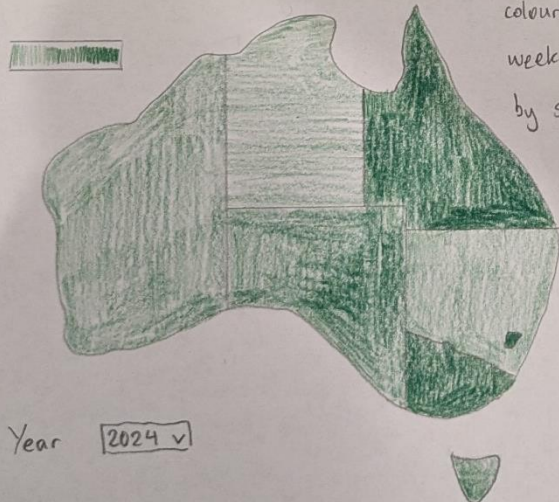
Graphs could have tooltips. Example tooltip for industry chart:

Industry: Mining  
Year: 2024  
Income: \$xxxx

## Focus

Average Weekly Income

Choropleth map that is coloured based on weekly income earned by state.



Drop-down year selection box so user can see the data relating to a year of their choice. Could be linked to petrol bar idiom.

## DISCUSSION

+ Choropleth is most interesting idiom so having it first makes the most sense.

+ Clearly separated groups which make it easy for the user to understand what fits together.

+ Idioms are easy to understand.

- Some text is quite narrow (especially next to gender and age charts).

- Sightlines may not be as clear as they should be.



## LAYOUT

**TITLE** Australian Weekly Income (Landscape View)

**DESCRIPTION** visualisation of Australian income data by state, gender, age, industry and type of work over time.

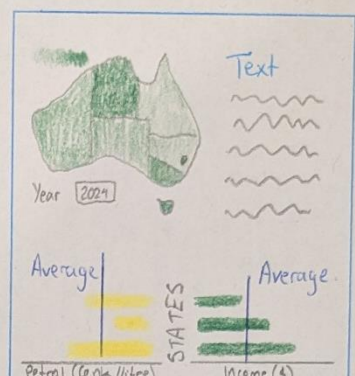
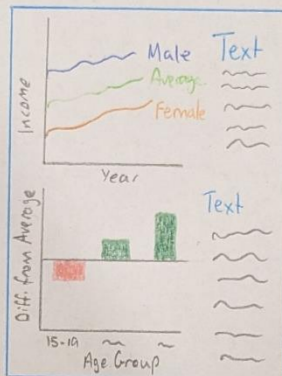
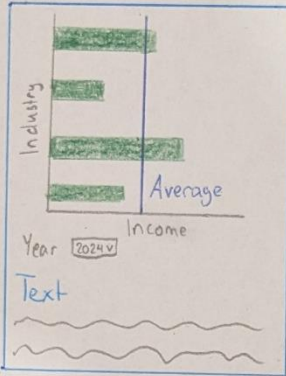
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Sheet 3

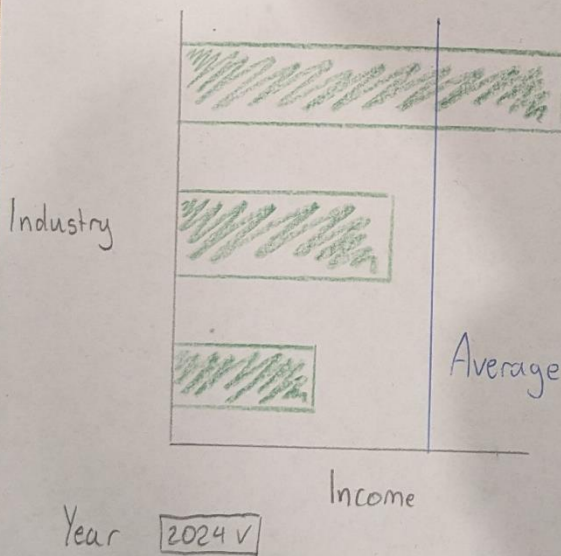
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### AUSTRALIAN WEEKLY INCOME



## Focus

### Average Weekly Income by Industry



Drop-down allows user to choose which year of data they wish to view.

Would have a tooltip with industry, year and the \$ value of average weekly income.

## OPERATIONS

Tooltips would be on most actions as they show actual values of income.

For example:

State: VIC  
Year: 2024  
Income: \$1,107

Many charts can be filtered by year or type of work.

## DISCUSSION

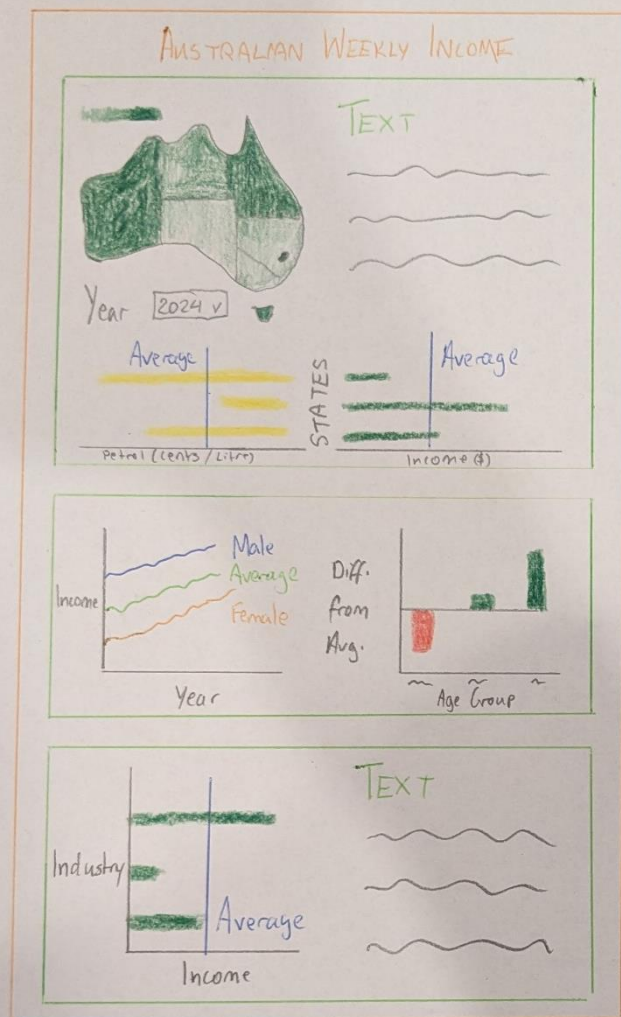
+ Clear separation between the three different groups.

+ Each group contains text to guide the user through the vis.

- Bar chart of income is good but not the most interesting to focus on.

- Choropleth is too late in the vis → should be at start as more interesting and general/useful.

## LAYOUT



MILLY SULLIVAN

5/10/24

SHEET 4

FIT3179

TITLE Australian Weekly Income  
(Portrait View)

DESCRIPTION visualisation of Australian income data by state, gender, age, industry and type of work over time.

### OPERATIONS

Some charts (eg. choropleth) can be filtered by year (drop-down box selection).

Most charts would have a tooltip so the user can see

\$ amounts.

Example:

Year: 2023  
State: Western Australia  
Income: \$1,763

### DISCUSSION

+ Choropleth is good, interesting, informative chart to focus on.

+ Clear segregation of sections.

+ Charts clearly linked together.

- No text in middle section (age and gender).

- Industry bar would make sense to be before age and gender charts.

### Focus

Most interesting chart which makes it a good one to focus on.

Drop-down selection so user can select to view data from one year only.

### Average Weekly Income

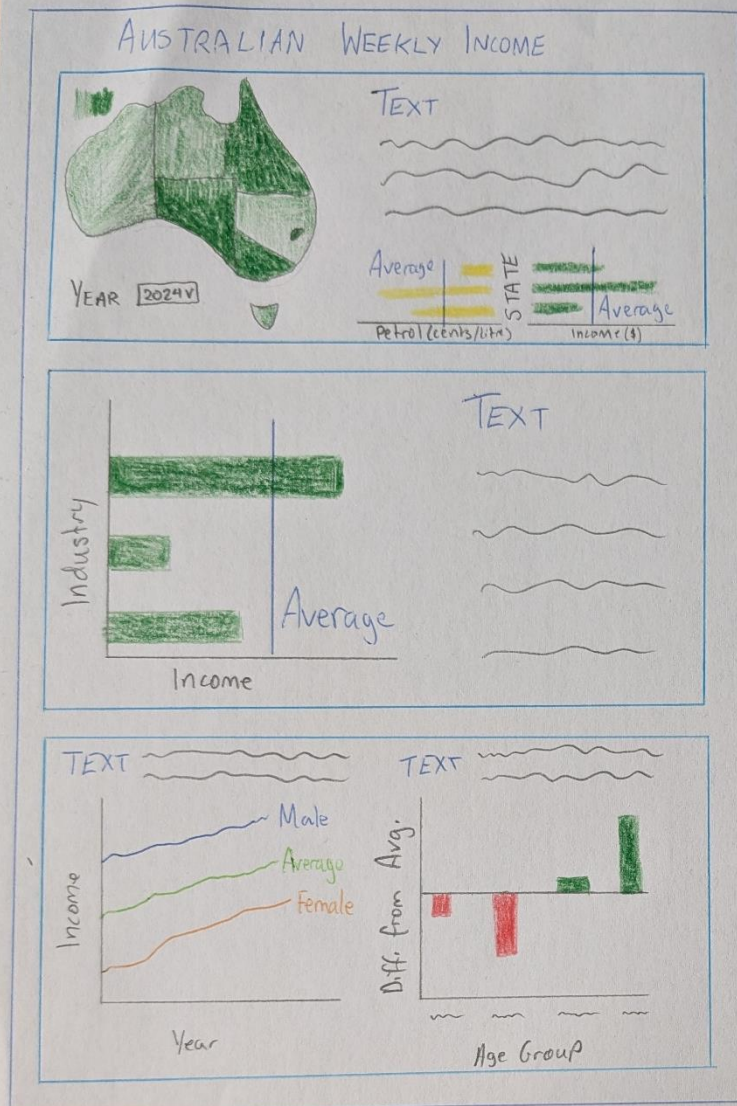


Would have a tooltip with state, year, and income.

Choropleth map that is coloured based on the weekly income (average) earned by each state.



## LAYOUT



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5/10/24

SHEET 5

FIT3179

TITLE Australian Weekly Income  
DESCRIPTION final visualisation design

## OPERATIONS

Tooltips on charts to show exact data.

Example: State: Queensland  
Year: 2021  
Income: \$753

Some idioms can be filtered by a drop-down selection (eg. year on choropleth map chart).

## DETAIL

- Uses datasets from ABS, Manofmany, AIP
- Will clean data in Excel and build visualisation in Vega-Lite and use HTML to create final website.
- Will take about 2 weeks to make all charts, design HTML and CSS and finalise my visualisation.
- No other hardware or software is required.
- Hopefully the user's screen will be large enough to see all details.

## Focus

Good chart to have first as it is the most general, the next charts are all more specific.



## Australian Weekly Income

Choropleth coloured based on average income earned each week.

Drop-down filter so user can select year to view.