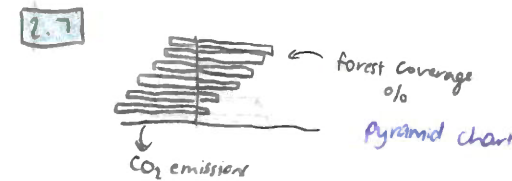
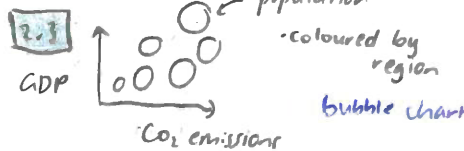
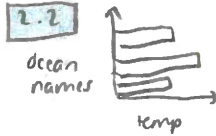
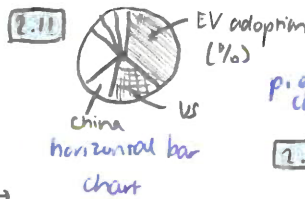
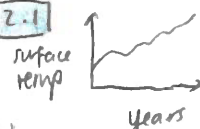
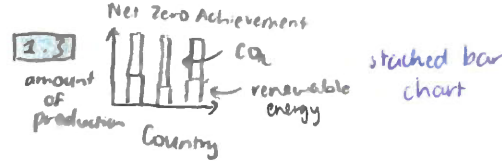


IDEAS

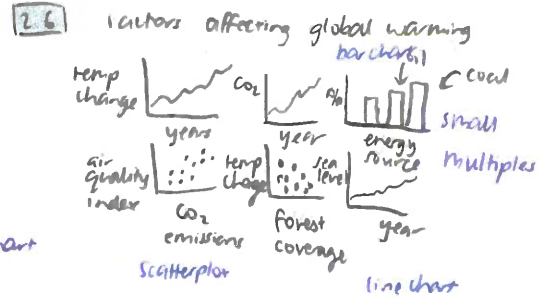
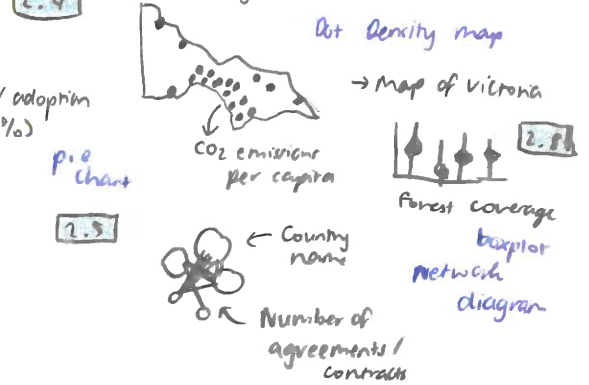
2. QUANTITATIVE ATTRIBUTES

title: Climate Change (in Australia)
Author: Nina Huynh
Date: 17th October 2025
Steps: 1. Planning Data Visualization Poster

1. Categorical global warming attributes

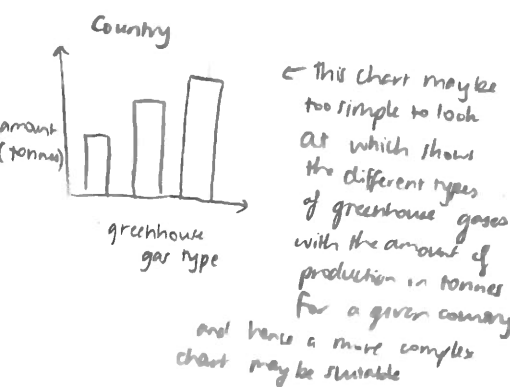
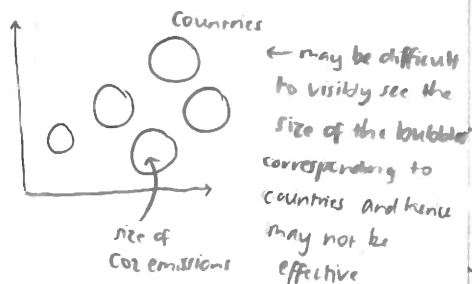
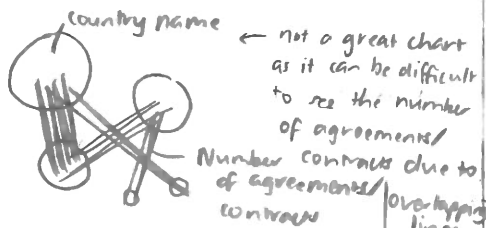


3. OTHER CHARTS

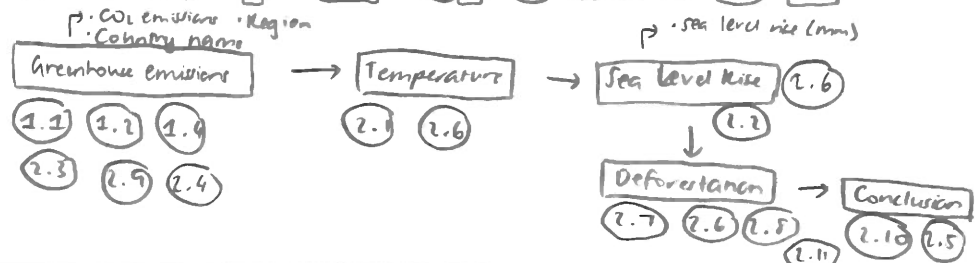


2.10 urgent climate change important news by number of researchers

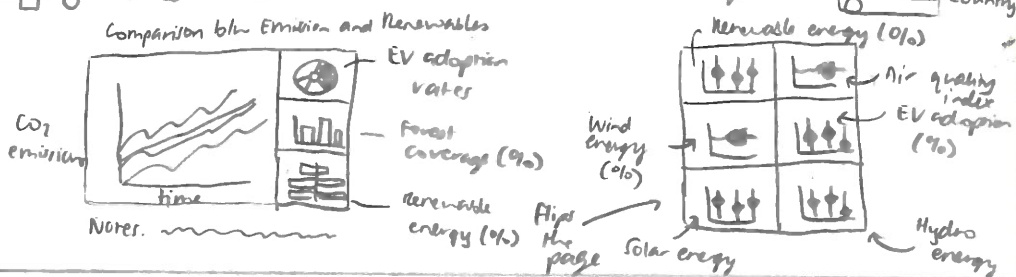
2. Filter



3. CATEGORISE



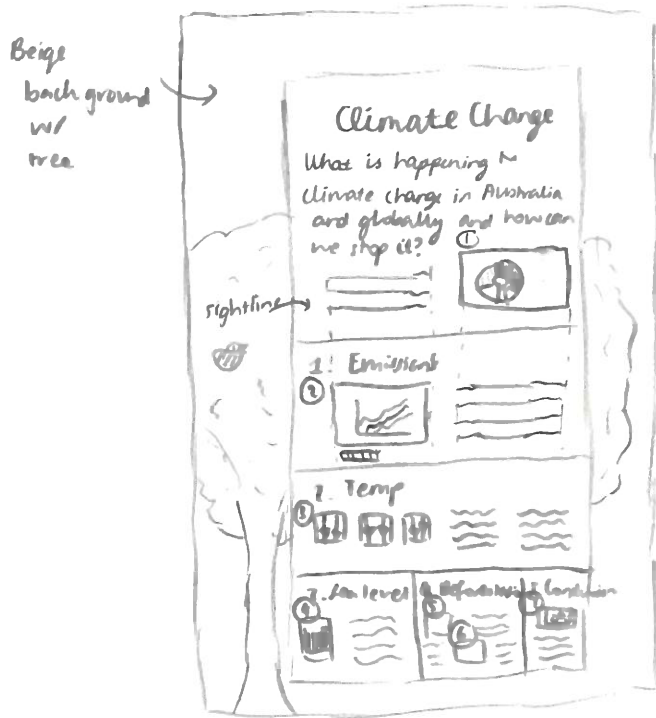
4. COMBINE & REFINER



5. QUESTIONS

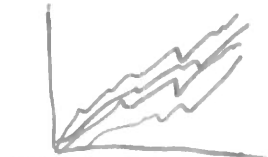
- Should the chart be grouped by greenhouse emissions, temperature, sea level rise, deforestation and conclusion?
- How can the positive and negative impacts that countries, and particularly Australia, are affecting climate change?
- Is Australia currently taking a positive or negative role in climate change?

1. LAYOUT



2. FOCUS

② Carbon emissions

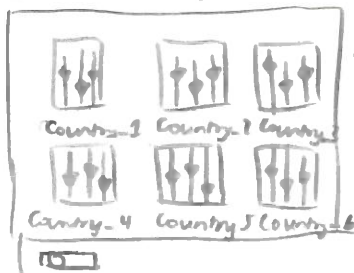


Drop down menu

Flags for eye-catching icons

- One of the main visual focuses
- Adds a filter for complexity which changes the line chart to focus on a single line depending on the country
- Differing colours will be used to distinguish the lines representing the countries

③ Small multiples



Multiple bar plot where each chart represents the top 6 countries

- Use colour scheme that is colour blind friendly and is different from the other elements

Temperature analysis

→ Add Filter for different factors which can change to forest-coverage, ev-adoption, renewable-energy, etc

Title: Climate Change (In Australia)

Author: Nina Huynh

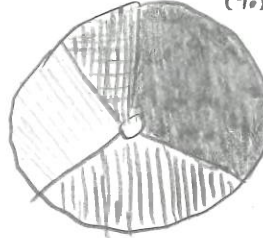
Date: 17th Oct 2018

Sheet: 2

Task: Designing data visualisation poster

3. Operations

Greenhouse Gas Production (%)



← Filter by year



← Filter by country

• Apply dual filter to donut chart allowing the chart to transform according to its year group and country

2.



← As slider moves, the arrow moves to point at the climate change topic shown
← Show which impact has had the most positive and negative effect to see eg. how well Australia is doing in diff domains

4. DISCUSSION

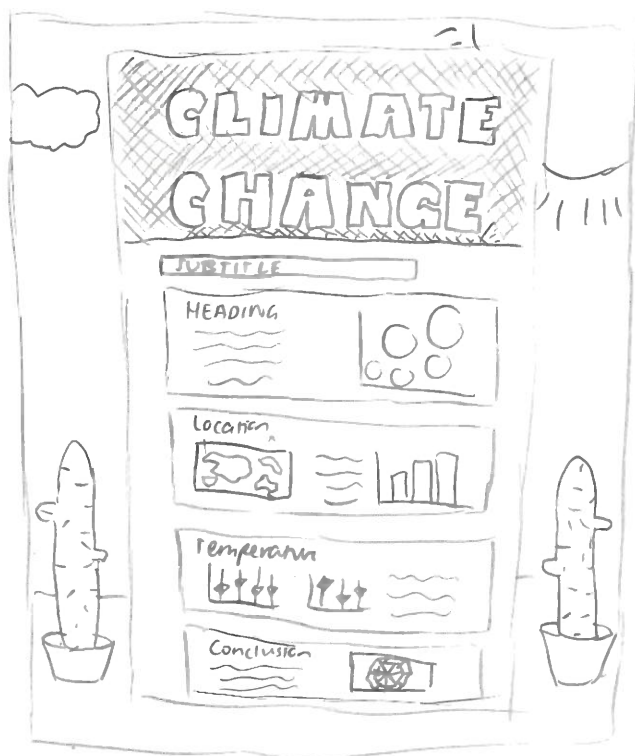
Advantages

- ◇ Each chart is segmented in its own section
- ◇ All charts have equal visual focuses as all factors are important
- ◇ Allow interesting engagement for users/viewers to interact w/ filter, drop-down menus and slider operations
- ◇ Can easily switch chart types w/o changing and affecting the overall chart layout

Disadvantages

- ◇ No image except background image; can be provided to add further visual interest
- ◇ Donut chart may be too simple
- ◇ Multiple charts may be information overload
- ◇ Need to check if these datasets can be obtained and therefore analysed

1. LAYOUT



2. FOCUS

- ◊ No focus on any graph as they are all equally important; will use colour and spacing to highlight key points



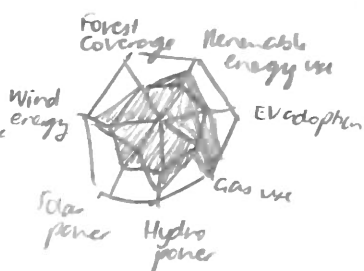
Bubble Map

- Colour scheme utilized will bring focus to the top 10-15 countries that are the greatest greenhouse gas emitters
- Spatial region will match that of the world map for consistency and easier reading

- Overlapping countries' regions will be colour-coded

transparently so that each region will still be distinguishable

- Colours can correlate w/ world maps regions for consistency



Title: Climate Change in Australia

Author: Nina Hughh

Date: 17th Oct 2021

Sheet: 3

Task: Planning the data visualization poster

3. Operations

HOVER "



Tooltips

- ◊ Hover annotations over the world bubble map will allow details of countries' names and how much CO₂ emissions they are producing and population numbers

Country name:
Australia
CO₂ (tonnes):
2,358,877
Population: 26 popm

- ◊ Also have a map of Australia with filter that changes between the states in Australia for the choropleth map



States:
VIC
QLD
NSW

- ◊ Hover-colours where if the user hovers over the colours in the spider-web diagram, the coloured region can darken and become more pronounced for more clarity

4. DISCUSSION

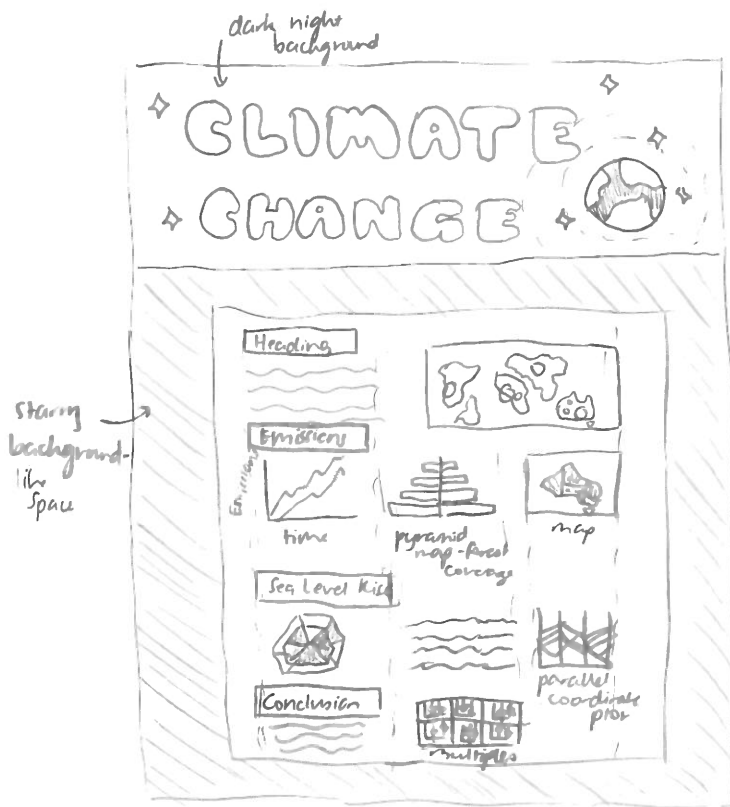
Advantages:

- ◊ Vertical format allows for scrolling along the vertical axis and makes it easier to read like an infographic
- ◊ Charts are organised under different subheadings which make it easier for the reader/viewer to navigate the poster
- ◊ Interactive elements that the user can click/hover are in multiple charts

Disadvantages:

- ◊ Can potentially have more charts such as 10 charts?
- ◊ Background of the title could be an image such as the planet Earth?
- ◊ Logo such as the UN's Paris Agreement can be added for visual interest

1. LAYOUT

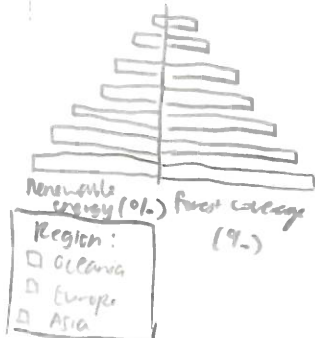


2. FOCUS



- Virtual focus is on the world map "bubble map" which immediately brings the reader's attention towards
- Space background provides contrast to the poster in the centre and the lighter text/background
- Colour blind friendly colours will be used across charts

Forest Coverage (%) and Renewable Energy (%)



- User can switch between different regions to see how much countries have adequate forest coverage to aid climate change efforts using the selection filter
- Forest coverage can be a darker green colour and renewable energy higher colours as it represent positive, and strong climate action

Title: Climate Change in Australia

Author: Nina Huynh

Date: 17th Oct 2025

Sheet: 4

Task: Designing data visualisation poster

3. Operations

Tooltips

EUROPE	OCEANIA	NORTH AMERICA
--------	---------	---------------



- User can click between different regions/continents to see how much carbon emissions they are producing



GDP: 5,000,000
Population: 20,000,000
Coverage: 75%

- Users can hover over the bars in the distribution chart to find more details about each country's forest coverage, and GDP/Population counts

4. DISCUSSION

Advantages:

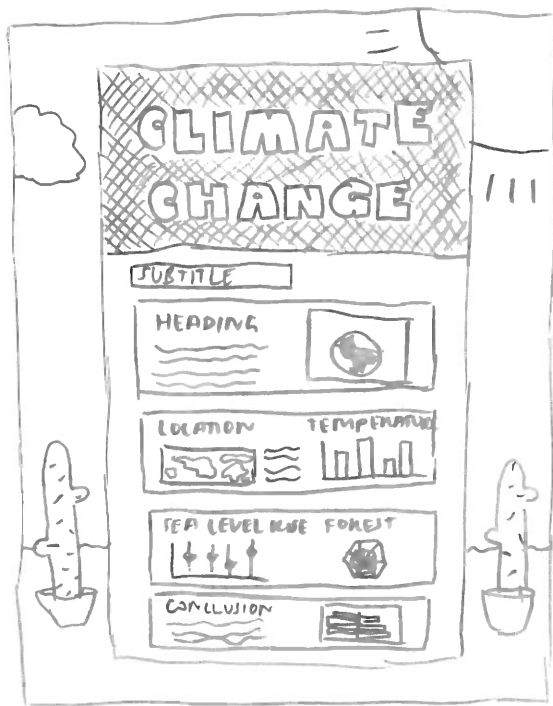
- Virtual contrast is added through the dark background for interest and engagement
- Earth icon is added
- More charts are added with more than 10 charts including the small multiples
- Vertical sightlines are followed where the charts and text are organised into three columns

Disadvantages:

- Deeper analysis could be undertaken such as the number of climate agreements and countries have or other countries to demonstrate climate actions' rankings?
- Other ideas for complex analysis: amount of funding allocated to climate efforts, which countries undertake carbon pricing, spending on climate programs

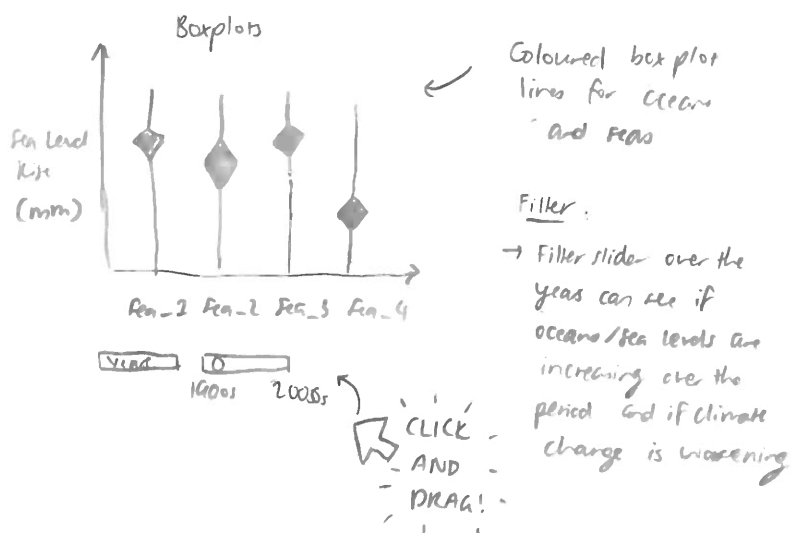
1. LAYOUT

Based off Sheet 3:



2. FOCUS

- ◇ No main graph focus, however all graphs are equally important
- ◇ Focusing on storytelling through idioms presented
- ◇ Text and descriptions will guide reader in interpreting charts



Title: Climate Change in Australia

Author: Nira Hingoh

Date: 17th Oct 2023

Sheet: 5

Task: Realisation sheet - Final design for data visualization

3. Operations

Select/Filter by Ocean:

→ two potential filtering methods:

- ◇ Bar with different ocean/sea and their images that are clickable



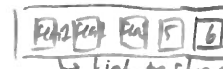
Arctic Sea

Click to Filter

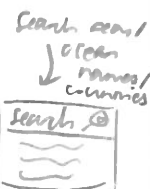
- ◇ Drop-down menu

→ Filter/highlight by clicking an icon



Tooltips:  Link to chart Search bar

→ Use for all charts



4. DETAILS

- ◇ Dependencies: Tableau Public and R programming for data cleaning
 - ↳ Have prior experience using R programming
- ◇ Estimated time and effort: Approximately
 - 5 days for data cleaning and creating all idioms and 3 days for final design with interactive elements
 - ↳ 1 day for research
 - ↳ 1 day for analysing datasets and combining
 - ↳ 1 day for chart creation
- ◇ Specific requirements: Data visualisation should be readable across all devices (phone, tablet, desktop), laptop/PC required for designing and potentially Excel and R programming for data analysis