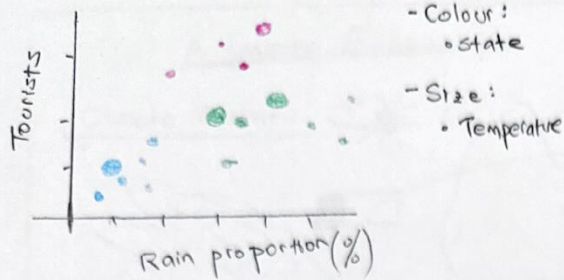
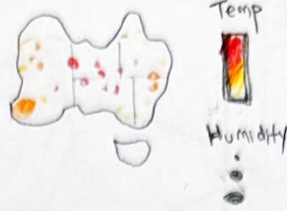


1. IDEAS

(a) Bubble Chart



(b) Proportional Symbol map



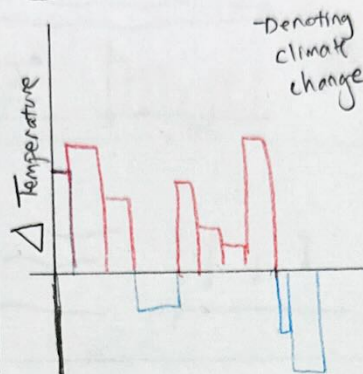
(c) Choropleth Map



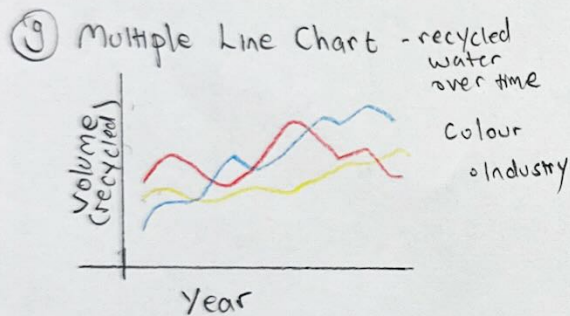
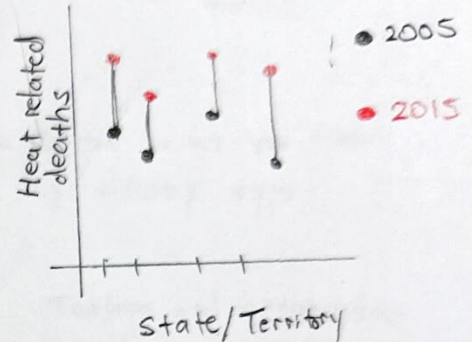
(d) Line and Bar chart



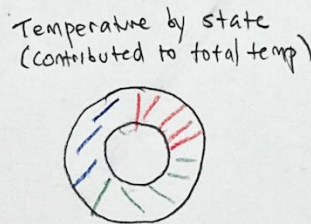
(e) Bar chart



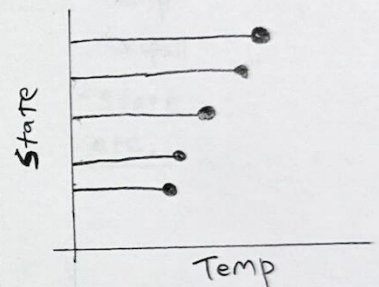
(f) Dumbbell chart



(h) Donut/Pie chart



(i) Lollipop chart



FILTER

(d) Line and Bar chart

- Tourist and Temperature do not share the same axis. This could create a misleading chart.

(h) Donut/Pie Chart

- Separating state temperatures into proportions does not make intuitive sense. Easier to rank with lollipop chart instead.

CATEGORISE

General AU climate

- (e) Bar chart
- (b) Proportional Symbol map
- (c) Choropleth map
- (i) Lollipop chart
- (h) donut chart

Impacts of climate:

- (g) Multiple Line chart
- (f) Dumbbell chart

Intro to AU landscape

- (a) Bubble chart
- (b) Proportional symbol map
- (i) Lollipop chart

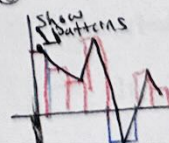
COMBINE AND REFINE

(b): Refine in choropleth map instead.



→ conveys regions more clearly as opposed to points.

(e) + (g): Bar Chart + Trend line



QUESTIONS: • There are many attributes in (a). Can I add any interactivity?

- (b): Can I use shape to denote different states?
- (c): Is the granularity of the map feasible.
- What filters can be added to the different graphs that I make?

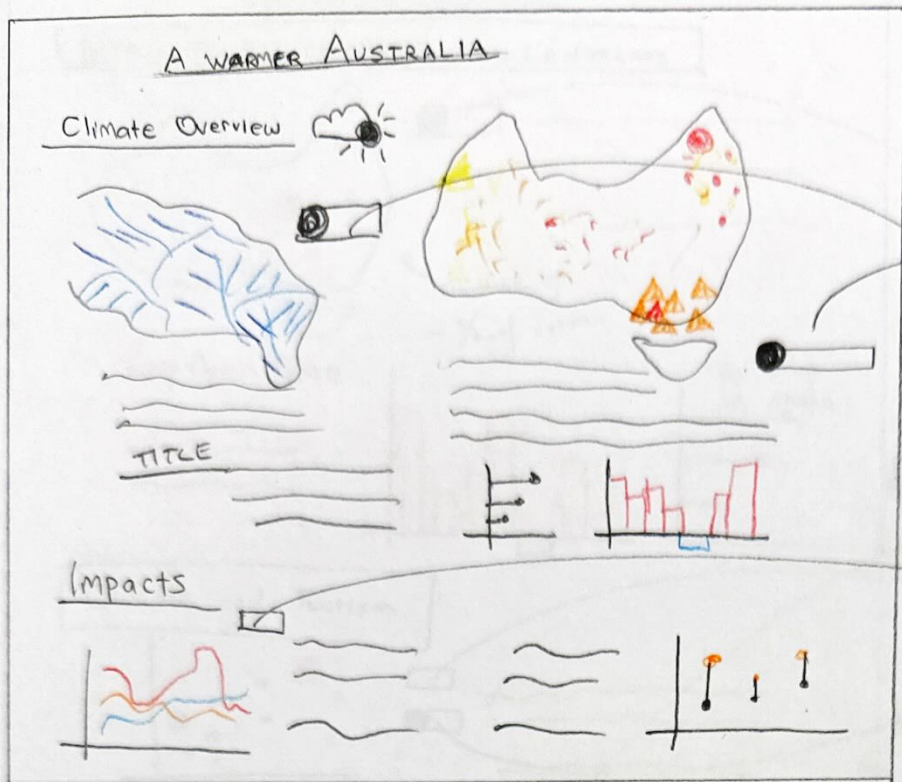
Author: James Liang

Date: 03/10/2025

Sheet: 1

Task: Planning Visualisation.

LAYOUT



Title: Partitioned Poster

Author: James Liang

Date: 03/10/2025

Sheet: 2

Task: Designing an infographic

OPERATION

→ Slider would let you toggle temperature through the years and months

→ Button to let you filter by industry type.

Tooltips and annotations would include things like

- month
- Temp
- Rainfall
- State
- etc.

FORMAT

- Let the Map of Australia be the focus. The main point of this poster is to explore the climate of Australia, so maps have biggest size. Info about the climate change and consequences of the climate is added as a smaller, more text heavy section.
- Focus on 4 columns. Maps take up minimum 2 columns. Must be symmetrical.

Discussion

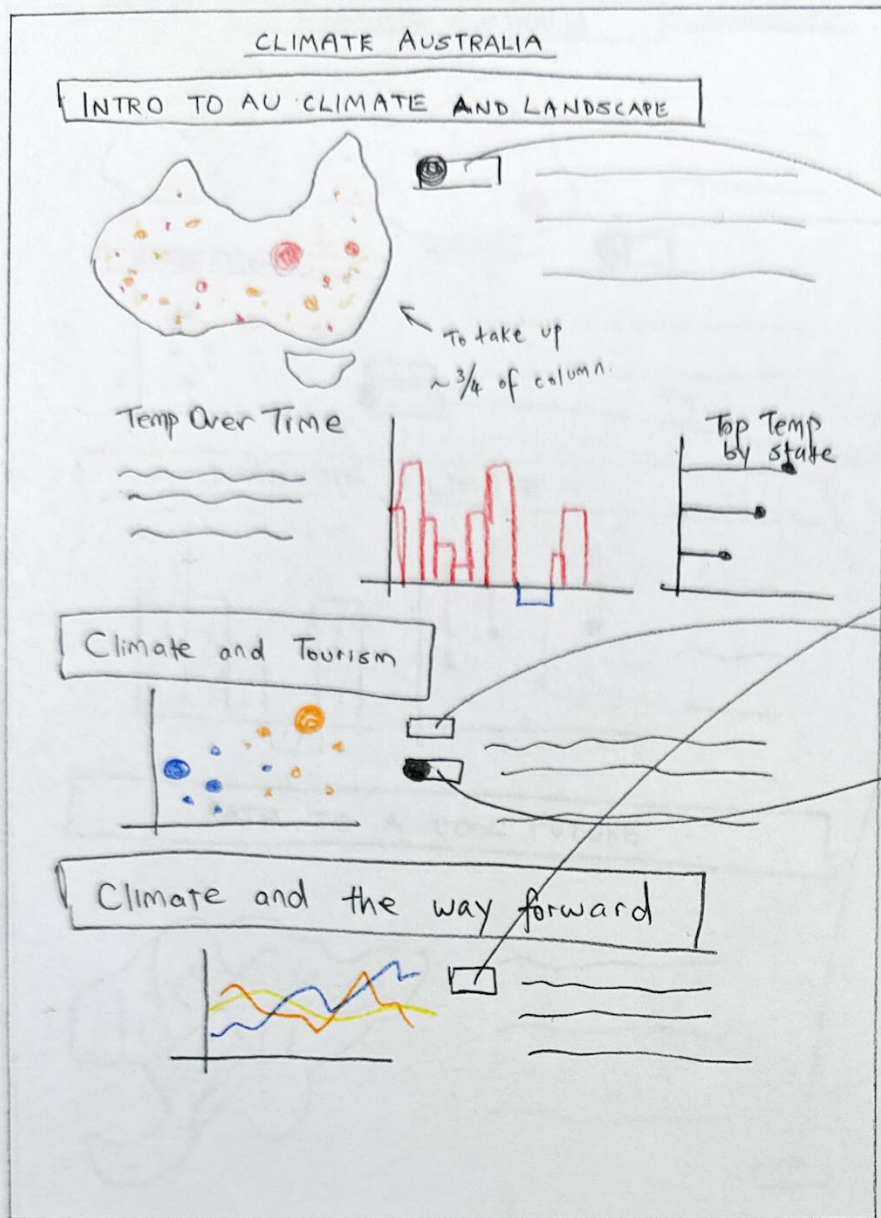
• Advantages:

- Nice symmetry + balance
- Nice visual hierarchy
- Limited white space
- Nice narrative flow

• Disadvantages:

- Limited filters due to chosen graphs
- Two maps next to each other may be too visually intense.

LAYOUT



Author: James Liang

Date: 03/10/2025

Sheet: 3

Task: Design - scrollable poster.

OPERATION

Slider to toggle temp through the years

Filter by Key states

Filter by state

Toggle by temperature

Tooltips and annotations would include:

- Month
- Temp
- Rainfall
- State
- ect.

FORMAT

- Split into 3 sections, each with their own focus target.

1. Section One focuses of the proportional symbol map
2. Section Two, the bubble chart.
3. Section Three, the multiple line chart.

DISCUSSION

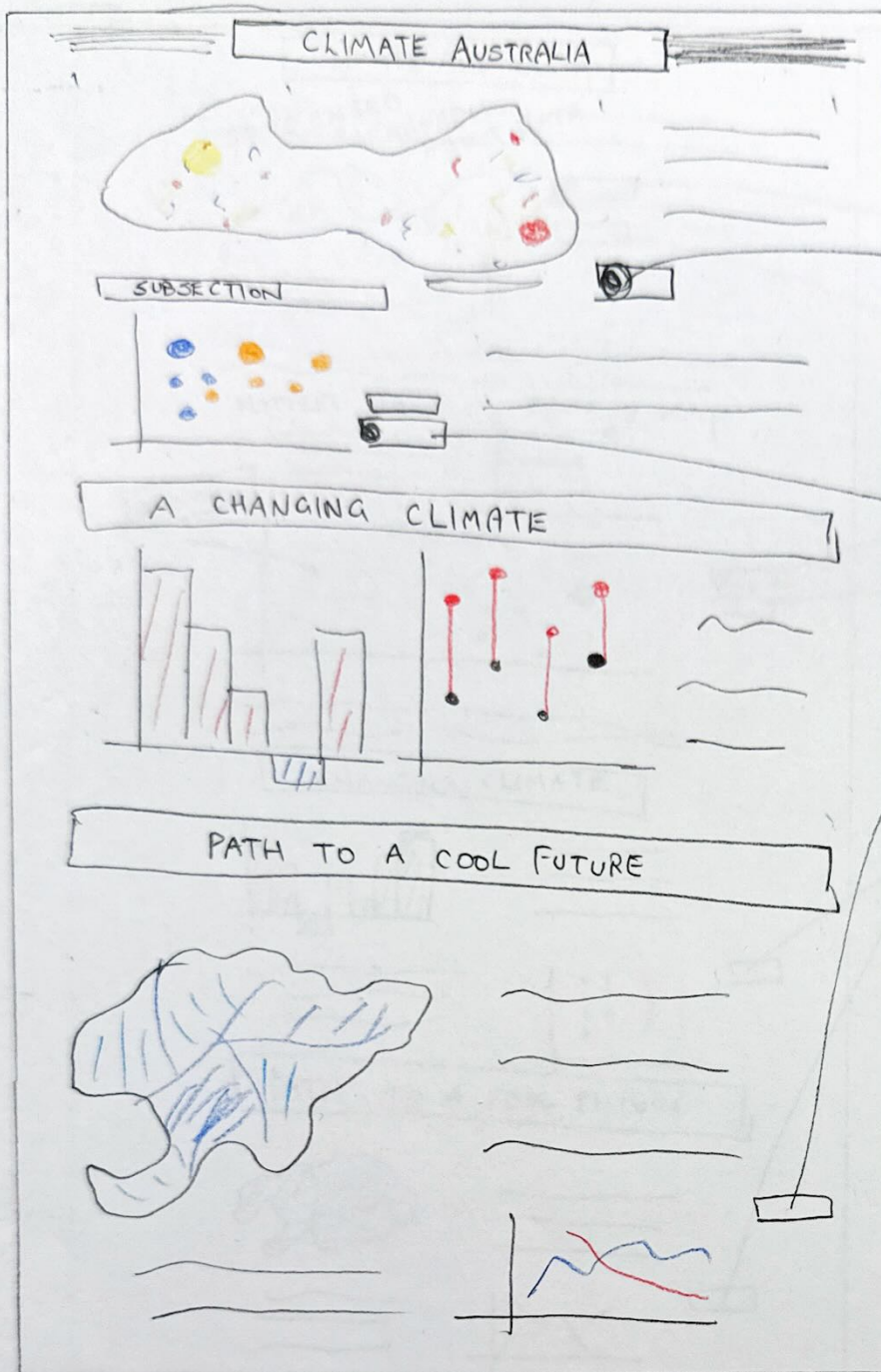
Advantages:

- Layout poster makes it easy to tell a story
- Good visual hierarchy
- Limited whitespace
- Clear segmented sections.

Disadvantages:

- Need to be cautious of overusing text
- Need to consider sight lines
- Narrative structure may need rework.

LAYOUT



Author: James Liang

Date: 03/10/2025

Sheet: 4

Task: Design - Scrollable Poster 2

OPERATION

Slider to toggle temp
throughout the seasons/
months/
years

Slider for temp
Filter by state.

Filter for state.

Tooltips still include:

Month:
Temp:
Rainfall:
State:
ect.

Focus

- Split into 3 sections, each with their own focus targets.

1. Section 1 focuses on the Map
2. Section 2 focuses equally on the 2 charts
3. section 3 gives equal weight to both graphs.

DETAILS

Advantages:

- Strong visual hierarchy
- Clear segments
- strong storytelling narrative.

Disadvantages:

- Text heavy
- May be too cluttered (in section 2)

LAYOUT



Title: FINAL DESIGN SHEET

Author: James Liang

Sheet: 5

Task: Design Final Layout

OPERATION

Slider to toggle month
Filter by state

Slider for temp

Filter for state

Filter by industry

Filter by state

Tooltips will include:

month

Temp

Rainfall

state

etc...

Focus

- Split into 3 main sections:

1. Focuses on the broad picture. Main graph is the Map + Bubble chart.
Illustrates temp and tourists in Australia.
2. Focuses on the problem from Rising temperatures leading to more heat related deaths.
Equal importance of graphs.
3. Focuses on some solutions, like recycling water.
Both graphs equally important.

DETAILS

- Dependencies:

- R for data cleaning.
- GitHub pages for hosting.
- Vega-Lite, HTML, CSS, JavaScript

- Estimated Time/effort:

- ~3 days to preprocess data and build out all idioms and designs.
- ~2 days to build out webpage.

- Requirements:

- Maintain cohesive narrative without relying too much text.