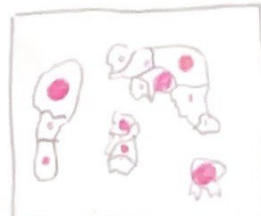


# Ideas

## Map

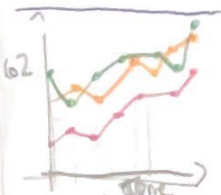


Choropleth Map



Proportional Symbol Map

## Time-series



Line chart for selected countries



Bar chart showing % increase from 2000-2023 for selected countries



Changing choropleth Map through the years

## Comparative

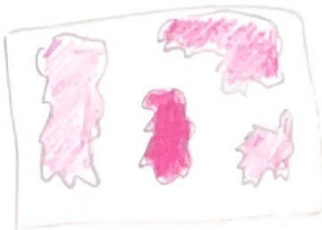


Area chart showing worst countries compared to rest of world



Donut chart showing each continent

## Combine + Refine



+



=



## Filter

### Map



- Make 'alive' and change by itself

### Increase



- Show Top 5 Biggest increase vs Global avg

### Comparison



- Show Area chart as Top 5 worst and the rest of World Australia



show Aus vs Global Average

## Categorise

Map: Showing Global effects

↓

Comparison: Biggest and worst countries

↓

Increase: 2023 vs 2000

↓

Australia's Impact

Combine choropleth map showing CO2 emitters with Proportional Symbol Map into 1 map

## Question

How do I make this relatable to Aus?  
How do I balance no. of idoms?

# Layout Dashboard View



Search for specific country and it shows CO2 emissions vs time compared to Global Average

Title: Dashboard View

Author: Luke Simakov

Date: 10/1/25

Sheet: 2

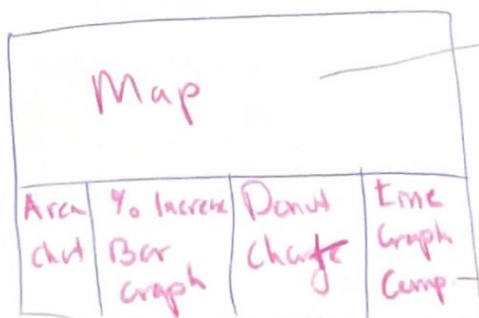
Task: Design a dashboard view for the user

## Operation

Search Bar shows specific country and highlights it on the map

Select Options allow user to select up to 5 countries to display on Stacked area graph + column chart

## Focus



Shows Change in CO2 emissions + Population over time from 2000 - 2023

Shows selected countries Temporal Change vs Global Avg.

Shows selected countries' % increase from 2000-2023

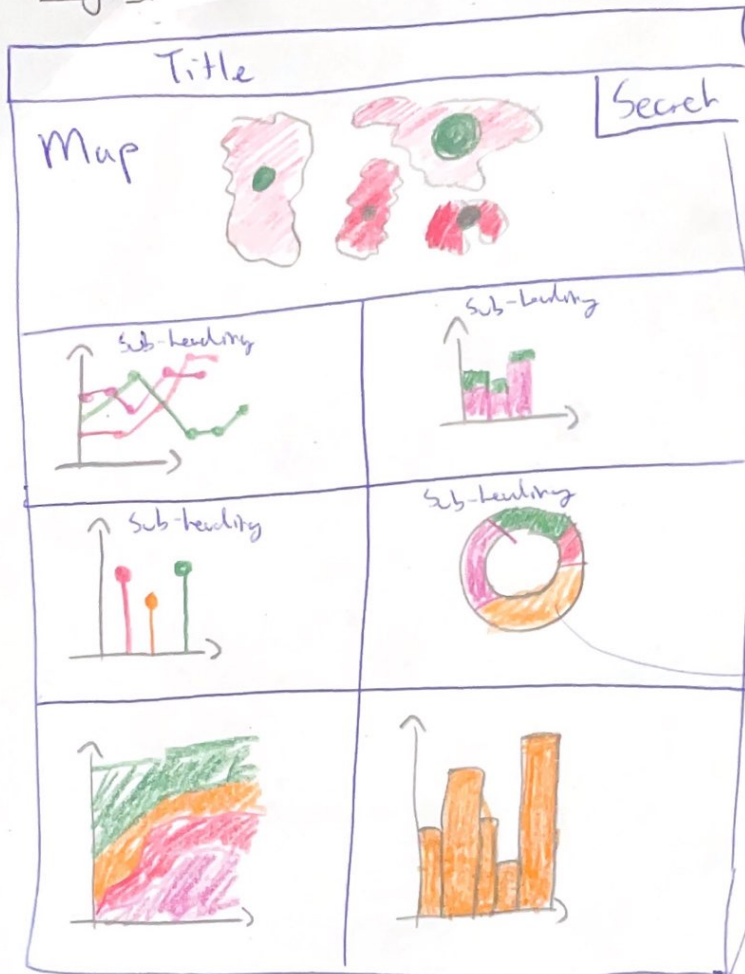
Shows Top Countries Influence on Global values.

Shows each continent's contribution to Global Total

## Discussions

- Doesn't focus on Australia unless User chooses
- Too much information on one page
- Good engagement with user
- Need more icons

## Layout



Title: Simple Narrative View

Author: Luke Smither

Date: 10/9/25

Sheet: 3

Task: Create a simple, scrollable narrative view for user

## Operation

Search bar filters all charts by selected country / continent

Hover over for interactive tooltips with info

country: xx  
CO<sub>2</sub> in 2023: x

## Focus

Focus is on interactivity

- Hover over graphs for additional info
- Search bar for selecting specific countries
- Click on country for backing selection

## Discussions

- How can I add more text to engage audience?
- Include discussions with idioms + general background knowledge



## Layout



Title: More Complex Narrative

Author: Luke Simukov

Date: 10/9/25

Sheet: 4

Task: Create a more complex, scrollable, narrative view for the user

## Operation

- Maintains same operations as sheet #3 with bar hovering + search option
- User scrolls down page to view each section
- Map operation



## Focus

Focus is on providing more information and context for the user

Do this with intro + conclusion, sub-headings and discussions for each graph.

Do a separate map with population

Map #1



CO<sub>2</sub> emissions

Map #2



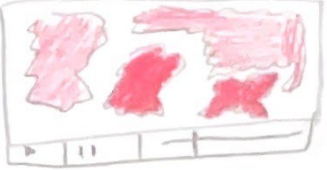



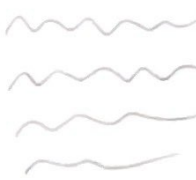


Population

## Discussions

- Will this overwhelm the reader with interactivity?
- How can I add annotations in to enhance the reader's experience



## Layout

Title	Search
Intro Discussion	
Map	
	
	
	
Conclusion	

## Focus

- Doesn't focus on any particular plots
- Allows viewer to easily view each plot + text without being overwhelmed
- Clear labels + discussions provide clear context for user
- Emphasis on user's usability (Annotations)

Title: Final Design Sheet

Author: Luke Sminkov

Date: 10/9/25

Sheet: 5

Task: Design the final layout to be implemented in Vega-Lite

## Operation

- Implements Search Option to filter by country as shown in sheet #2

- Hover over countries for more info as shown in sheet #3

- User scrolls through all idioms + text at their own pace

- Map Progressions



## Detail

Dependencies: Vega Lite  
excel for data cleaning  
CSS + Java for website design

Estimated Time:

3/4 days building all idioms  
1/2 days refining and polishing all visualisations  
~1 day Researching