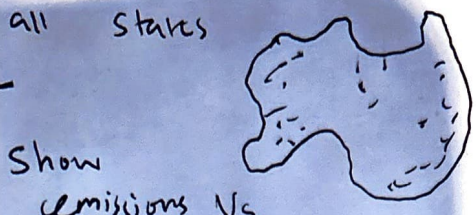
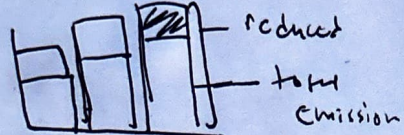


Ideas

Show resource consumption
via map of Australia across
all states



Show emissions vs
reduced emissions
Use stacked bar
Chart



line
Chart to
compare
Energy vs Emission



Filter

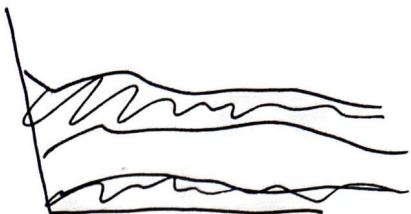
For Annual Change
Use Combined line
Chart and brushing
feature



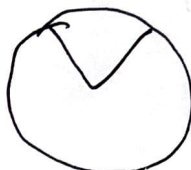
all brushing
for more
info



area Chart will better show
the total and individual
Emission Contribution



Area Chart?
for total emissions
and stacked to
show each individual
State



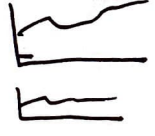
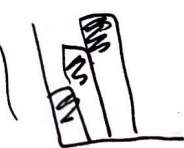
Pie Chart to
show
the same
thing?

- Emissions
- Energy intensity
- CO2 reduced
- CO2 intensity
- Years
- States
- Change in IP

Area Chart
better option
due to
better readability

Bubble Chart
for CO2
reduced
over
the
Years

Combining Visually
so far



Categorise

Categorised
- States
- reduction type
Ordinal
Year

Quantitative
- Emissions
- CO2 reduced
- CO2 intensity
- Energy intensity
- Change in IP

Author

Gen Vans

date: 13/10/2024

Sheet 1

Layout

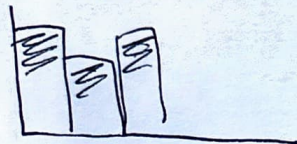
Author: Gen Vohara
date: 13/10/2024
Sheet: 2

Australia's CO₂ Emissions

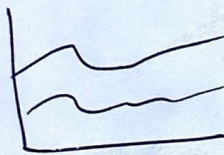
CO₂ reduces over time



Total CO₂ vs
CO₂ reduced



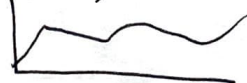
CO₂ Intensity vs Energy



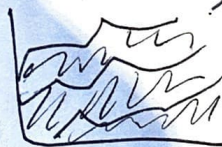
Resource Consumption



Annual change in
IP



CO₂ emissions



Operations:

Zoom in
feature
for clustering

Brushing for
a particular
year filter?

Tool tips for each
graph

- total CO₂
- state name
- reduction type

Focus?

- no main focus
all graphs are important
- make a eye catching
title
- Subheadings should be
smaller than title but
still eye catching.

Discussion

- Advantages:
 - ~~Still not~~
 - zoom in provides visual
clarity
 - year and state filter to focus
on one particular thing so
does brushing for line chart
- Disadvantages
 - meet visual hierarchy
 - need visual boundaries
 - need more interactivity for
other maps.

Layout

title

Author: Geon Vohra
Date: 13/10/2024
Sheet 3



Operation

Use a light background colour

Create a contrast for containers

Add tool tip in all the graphs

For States
Maintain colour consistency

Discussion

- Colour consistency +
- interactivity but not too much and not unnecessary +
- Visual hierarchy +
- Visual separation via containers +

Focus

Zoom in feature to focus on map

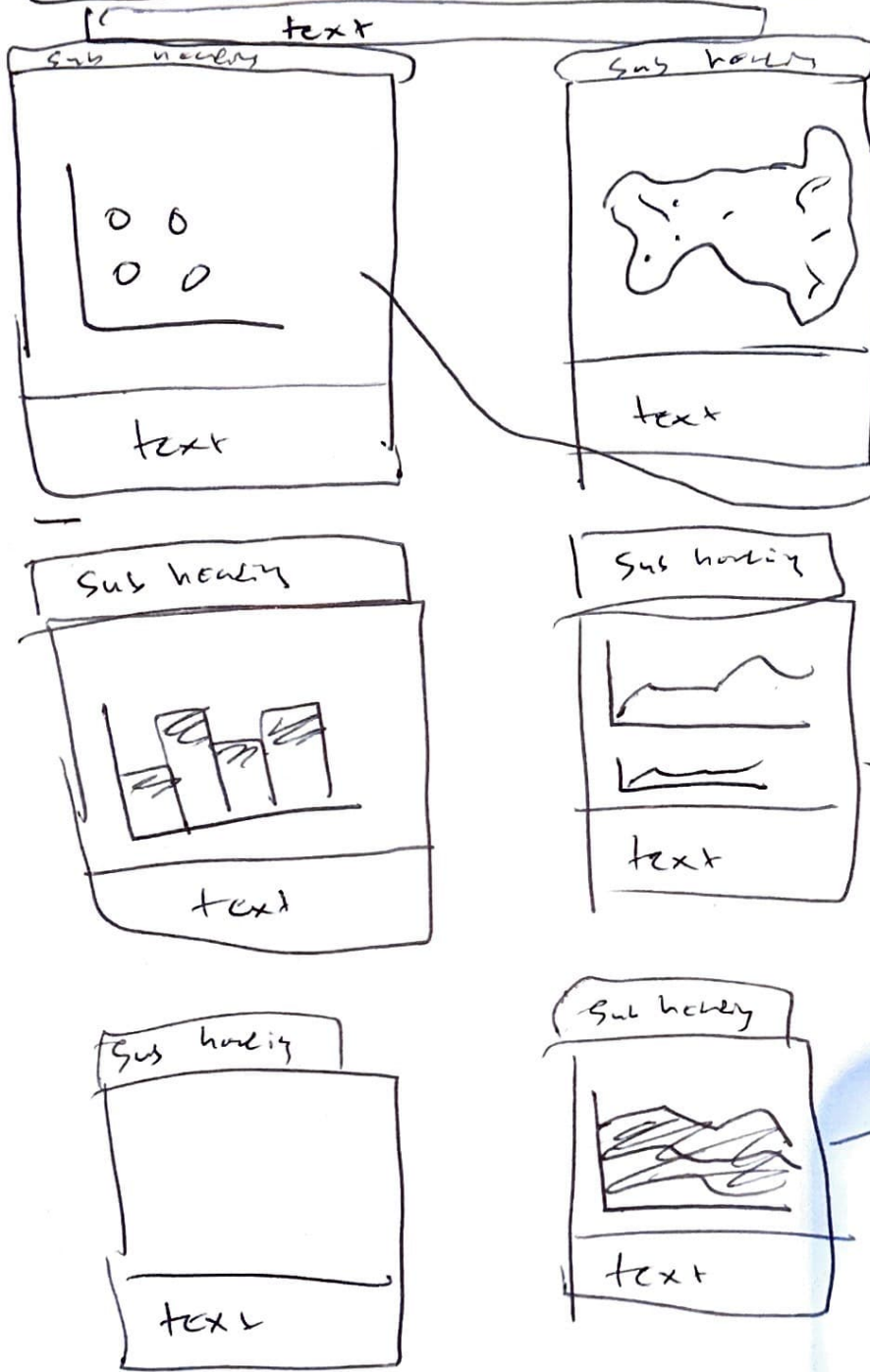
Brushing feature to

focus on months of the year.

Layout

Name: Chen Yume
date: 13/10/2024
Sheet: 4

Australia's CO2 Emission



Operation

add select
state filter

add judgement
and year
filter

In all the
Containers add
a hover over
from mouse for
more pleasing
Effect.

brushing
feature

All the
Years are
shown so
no need for
year
filter

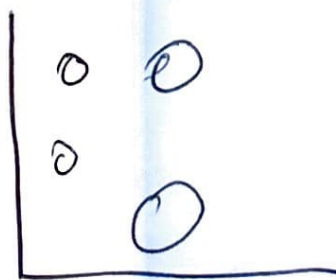
Source
author; date

Discussion

- Container create
Clear Visual boundaries
- title size, sub, heading
create clear visual
hierarchy.

Focus

use this



To focus on
total emissions too
for bubble chart

Final design Sheet

Gen Vonn

Sheet: 5

date: 13/10/2024

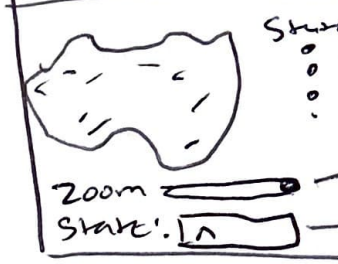
Layout

Australia's CO₂ Emissions

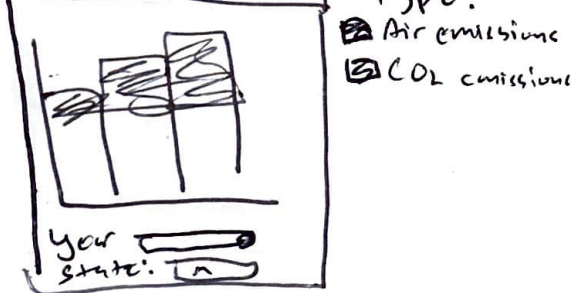
CO₂ Emission reduced



Resource Organization map



CO₂ vs CO₂ reduced



Annual IP change



CO₂ vs Energy



CO₂ by state



Operation

Zoom feature

Select state feature

Legends added in all graphs

brushing feature

Tool tips added in all graphs

hover feature for all containers

Focus

No main focus all graphs are important.

Title - highest focus due to font size and color

Sub title - 2nd highest

text boxes - 3rd highest

- creates clear visual hierarchy

- each container same size for equal focus on graphs

Estimated Time and effort

- 3 days

1 day for ~~3~~ 3 visuals

1 day for 3 more visuals

1 day for - type graph layout, interactivity

Advantages: colour consistency, interactivities, borders, different font style and size, tool tips, menu data.