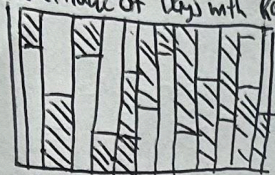


An Analysis of Australia's Weather

Choose Location

Rain In Australia

Percentage of Days with Rain



J F M A M J J A S O N D

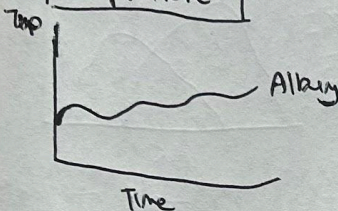
Average Rain fall



J F M A M J J A S O N D

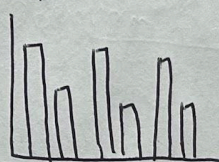
Text

Temperature



Time

Fluctuation

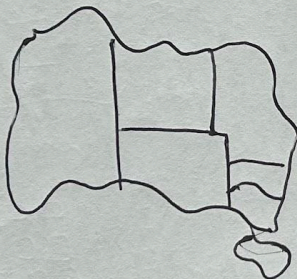


Filter

- max / min
- fluctuation

Text

Overview



Text

Title: An Analysis of Australian Weather

Sheet: 2

Author: Jia Ler Fong

Date: 25/9/24

Task: Convey weather trends

Operation

Global Location Filter

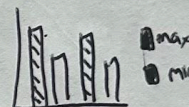
Choose Location

- Albany
- Hobart
- Melbourne etc

Fluctuation Filter

- max / min

- fluctuation



max
min



Overview

Rainfall

- 0.5mm
- 0.1mm
- 0.2mm
- 0.3mm
- 0.4mm
- 0.5mm

Colour



less rain

more rain

Evaluation

Advantage

- easy to implement
- easy to understand

Disadvantage

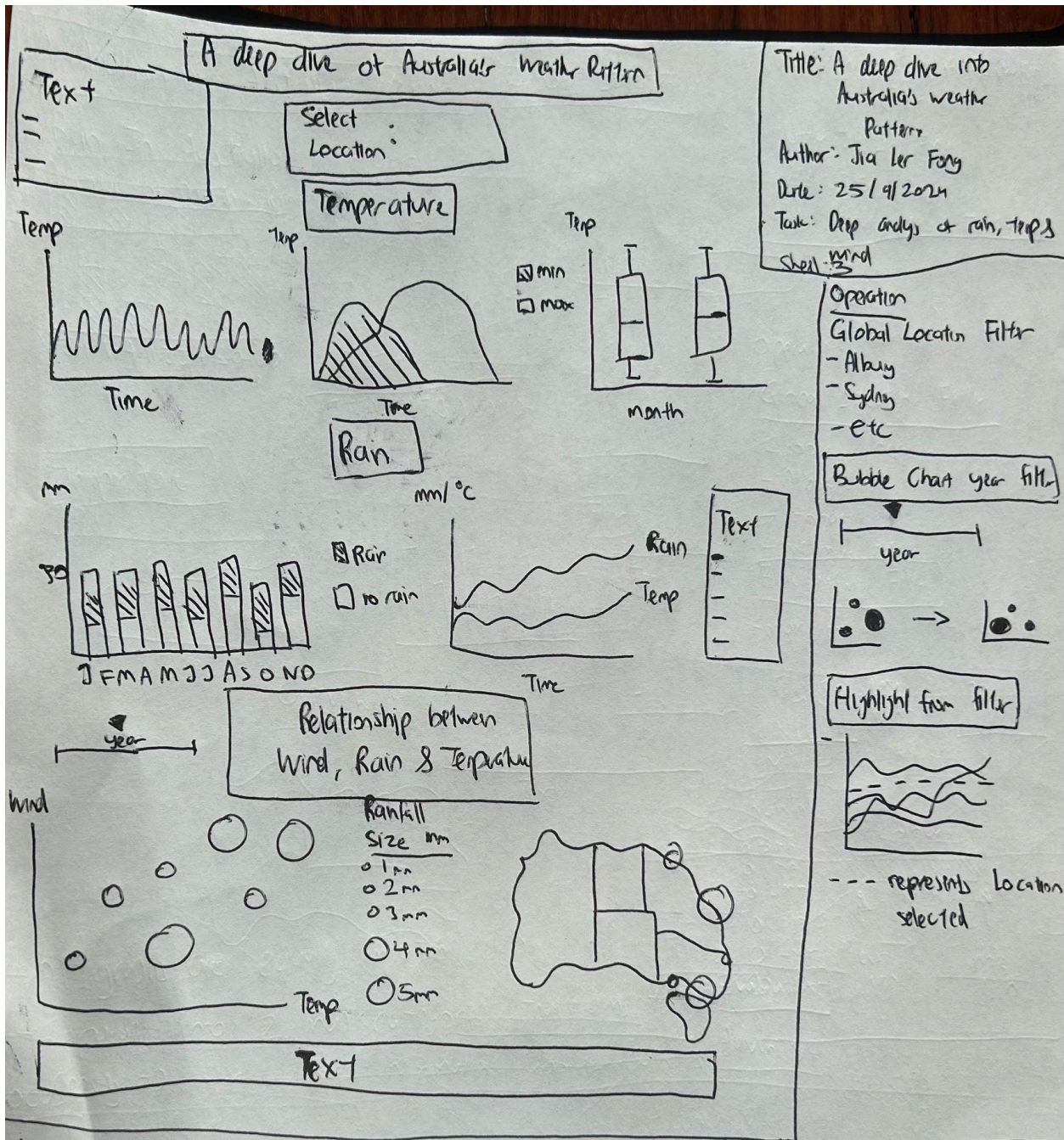
- might be too simple
- not very insightful
- charts are not very complex
- no deep analysis

Focus

- All graphs are equally important
- Separate into 2 main categories that aims to convey to user about information about rain & temperature

temperature

- Text should be used to provide & highlight key information & take away
- Annotations - highlight seasons eg winter, summer



Focus

- a main focus on this dashboard is to highlight the relationship between wind, rain & temperature
- The bubble chart & map should be a bigger size to further emphasize its importance
- Text should explain the relationship between the 3 factors

Evaluation

~~Text~~

advantage

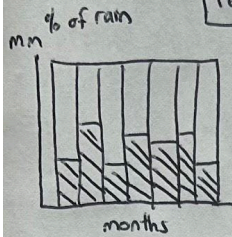
- much more useful than as it provides more insight
- temp & rain are too simple

disadvantage

- hard to implement
- formatting is not as simple & can be not symmetric

AN ANALYSIS OF AUSTRALIAN WEATHER

SELECT LOCATION:

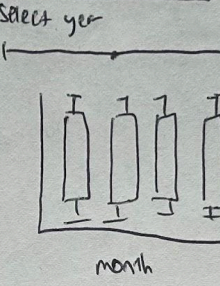
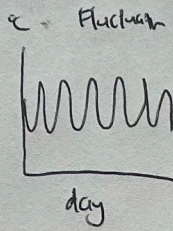
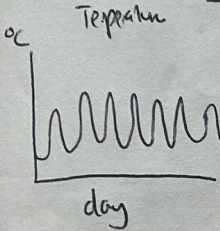


Precipitation Analysis



Text

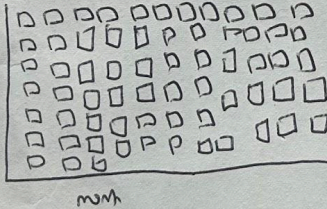
Temperature Analysis



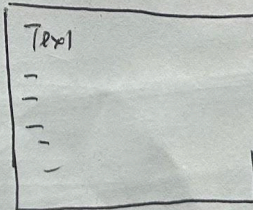
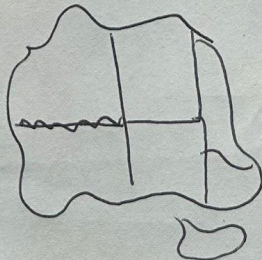
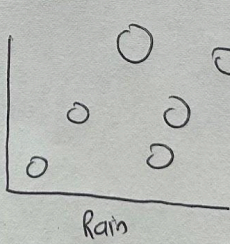
Text

Overview of Australia

Location/State



Top



focus

- no specific focus, aims to provide detailed info about all selected locations
- all visualisations are needed

Title: An Analysis of Australian Weather
Author: Jia Ler Fong
Date: 25/9/24
Task: To analyze weather patterns in Australia

Sheet: 4

Operation

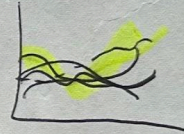
- Each section contains a year filter

year filter

2008 2022 2024

Select Location filter

- highlights line for temperature analysis



evaluation advantage

- Very comprehensive
- simple

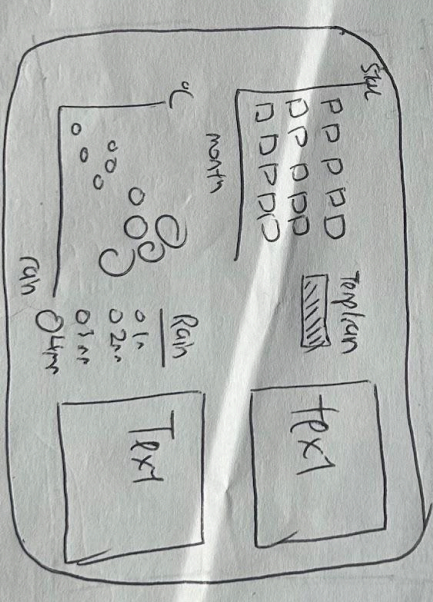
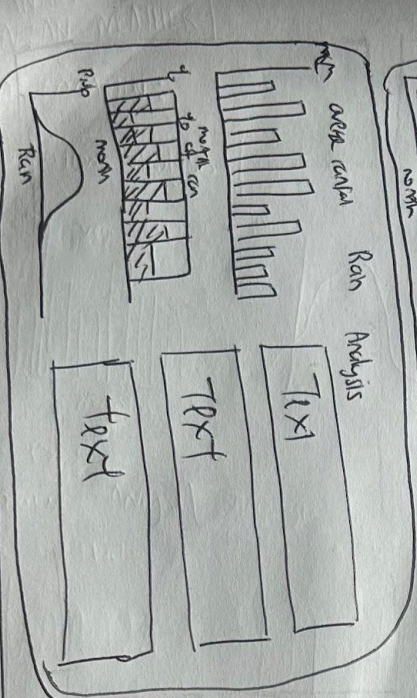
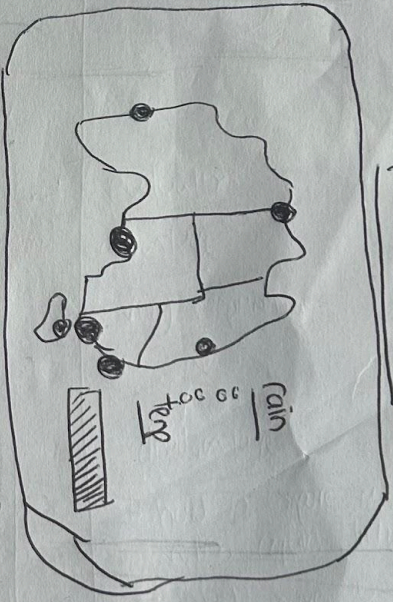
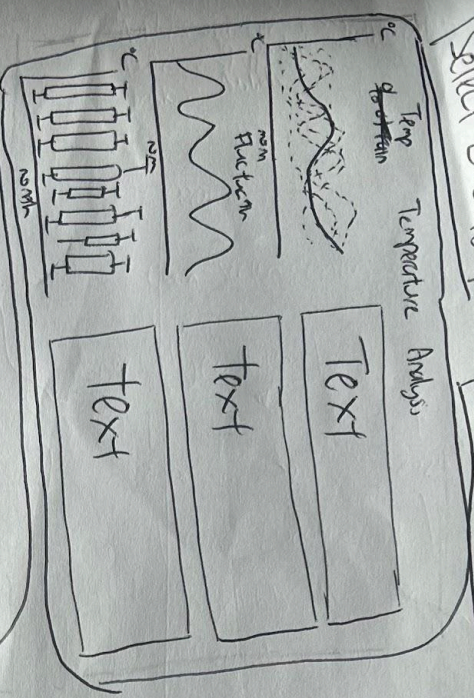
disadvantage

- hard to compare as all sections require filters
- might have too many locations, need to reduce
- add number of graphs make the visualisation not symmetric

Select Location

Analysing Australia's weather

Select year



Operation

Select Location filter

- Albany
- Melbourne
- Sydney

Select year filter



Location filter

highlighted line in temporal analysis

colour filter channel

lower temp

- 0 km
- 0.2 km
- 0.3 km
- 0.4 km
- 0.5 km

- all graphs are equally important as they provide important insight
- text and labels are needed to improve our readability & additional insight
- location & year filter are global & important

- Use R studio to clean & wrangle data into desired format
- CSS & HTML used to format webpage into desired design
- need to layout complex things such as a horizontal bar chart for primary
- implementation time - 2 weeks
- determine good layout - need to be symmetrical

After 3 days 1st Feb
Date: 25/4/20
Sheet 5
Title: Final implementation review