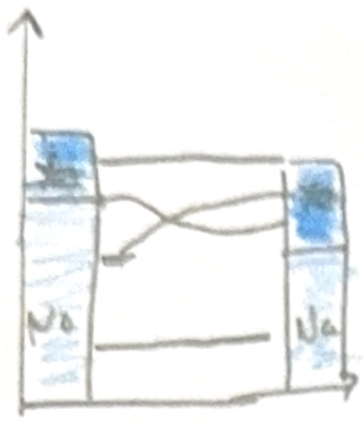
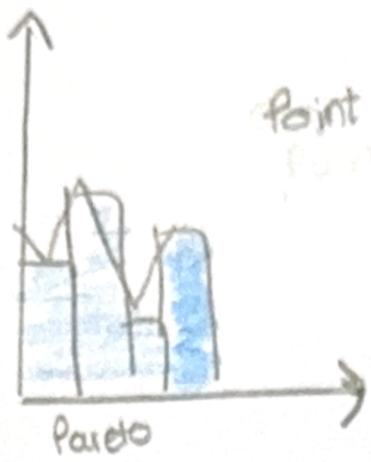
Ideas



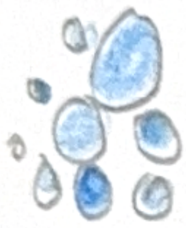
sankey

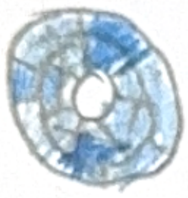


Pareto

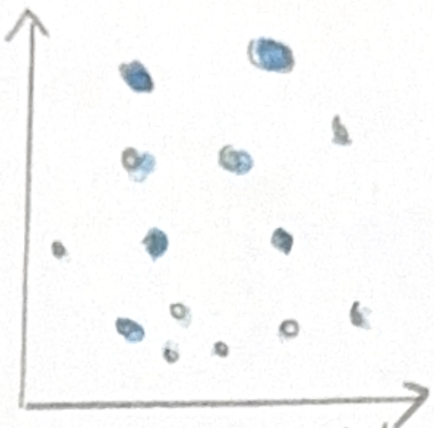
Point Map

Clustered force layout

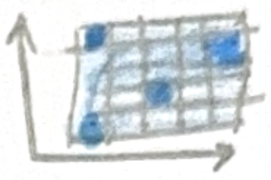




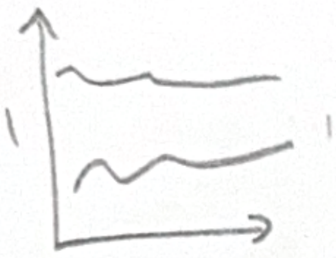
Circular Heat Map



scatter plot

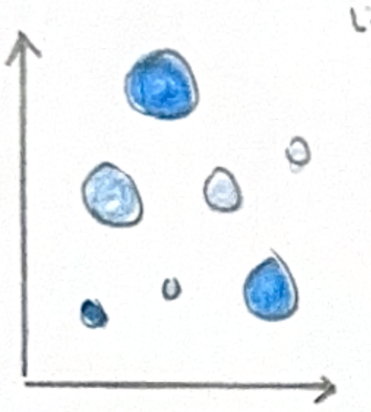


Heat Map

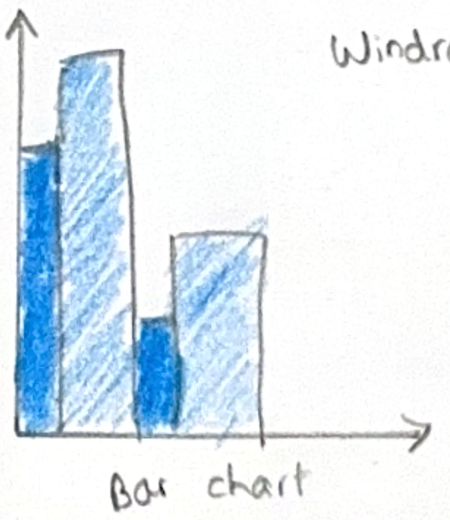


Line

Windrose



Bubble Chart



Bar chart

Filter

Author - Paralage Hashen Ramith Abeggunawardana

Date : 5/10/24

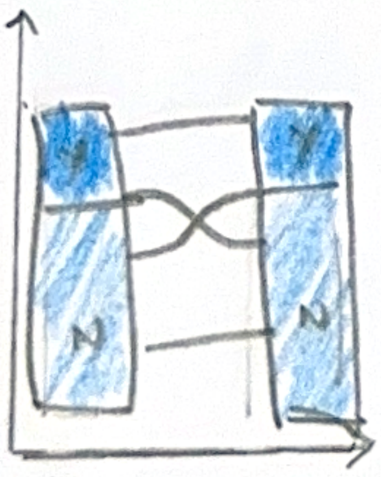
Sheet - 1

* Filter Sankey by City
  ↓
  Allows prediction Rain Today/ Rain Tommorrow
* Filter Heat map by City / Year
* Filter Map by Year / Temp
* Filter gar by Wind

Categorizes

* Amount of Rainfall at a City
* Rainfall and Temp change overtime
* Sunshine Hours and Wind intensity (Speed / Direction)
* Max Temp at certain Day / Month / Year.

Combine and Refine



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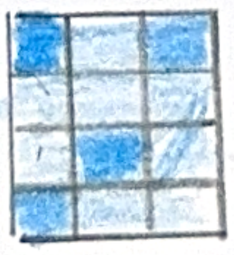

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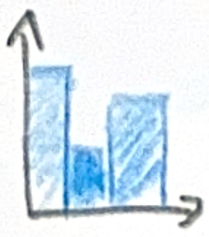


+

Questions

1. Is the implementation feasible?
2. Do they represent the data well?
3. will it be interesting to the target audience.

Title: Dashboard / Web View

Author: Pahalage Hasten Ramith Abeygunawardana

Date: 5/10/24

Sheet-2

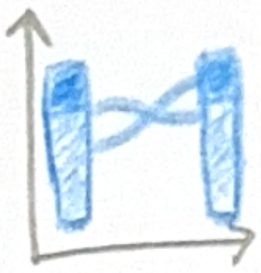
Task- Basic Layout and Viz Placement

Layout

① Layout and overall Flow of web Dashboard

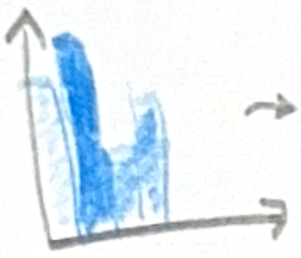
→ Will show cities with highest rainfall / Temp via Points.

②

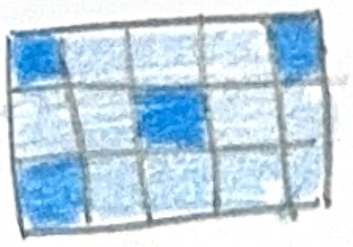


Allow Prediction of Rain Today / Rain Tomo

③



→ Allows Temp Range and sunshine to be seene alongside wind speed.



Allows for Max Temp and rainfall to be seene by Day/Month/Year

Operation:

filter by city - sonkey
└ Tool tip

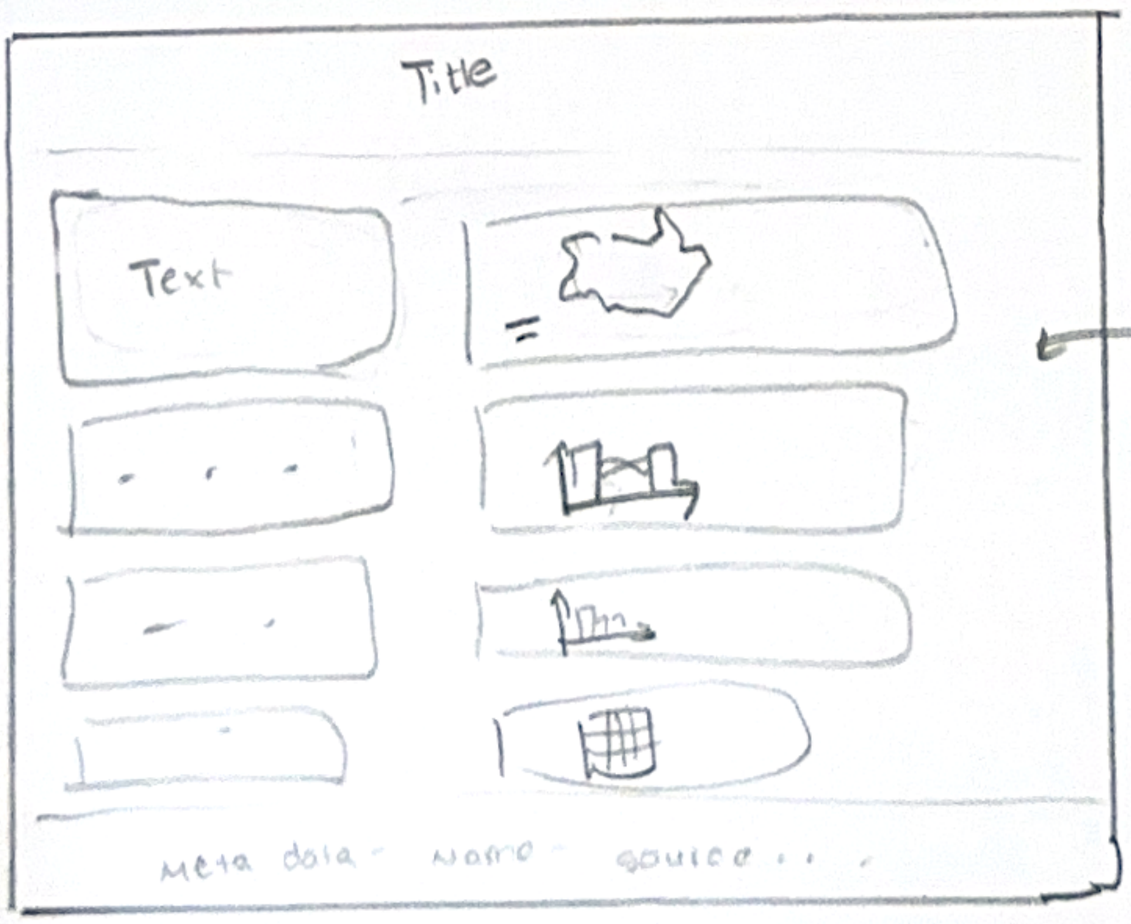
Filter by City / Year - Heatmap
└ Tooltip - Rainfall / Temp

Filter by year / Temp - Map
└ Tooltip - city, Date, Temp, Rain

Filter by wind speed - Bar
└ Tooltip - Temp
city
sunshine
wind speed

focus

Webpage View - Sample



← Text / Viz in containers

Discussion

* Lots of Data, may require data cleaning to remove null values, and to partition data set into specific years

* Map is main viz, must have graticule and state borders

* Size of Map must be well considered, when compared to rest

Title - Full Narrative View

Author - Pahalage Hashen Ramith Abeygunawardana

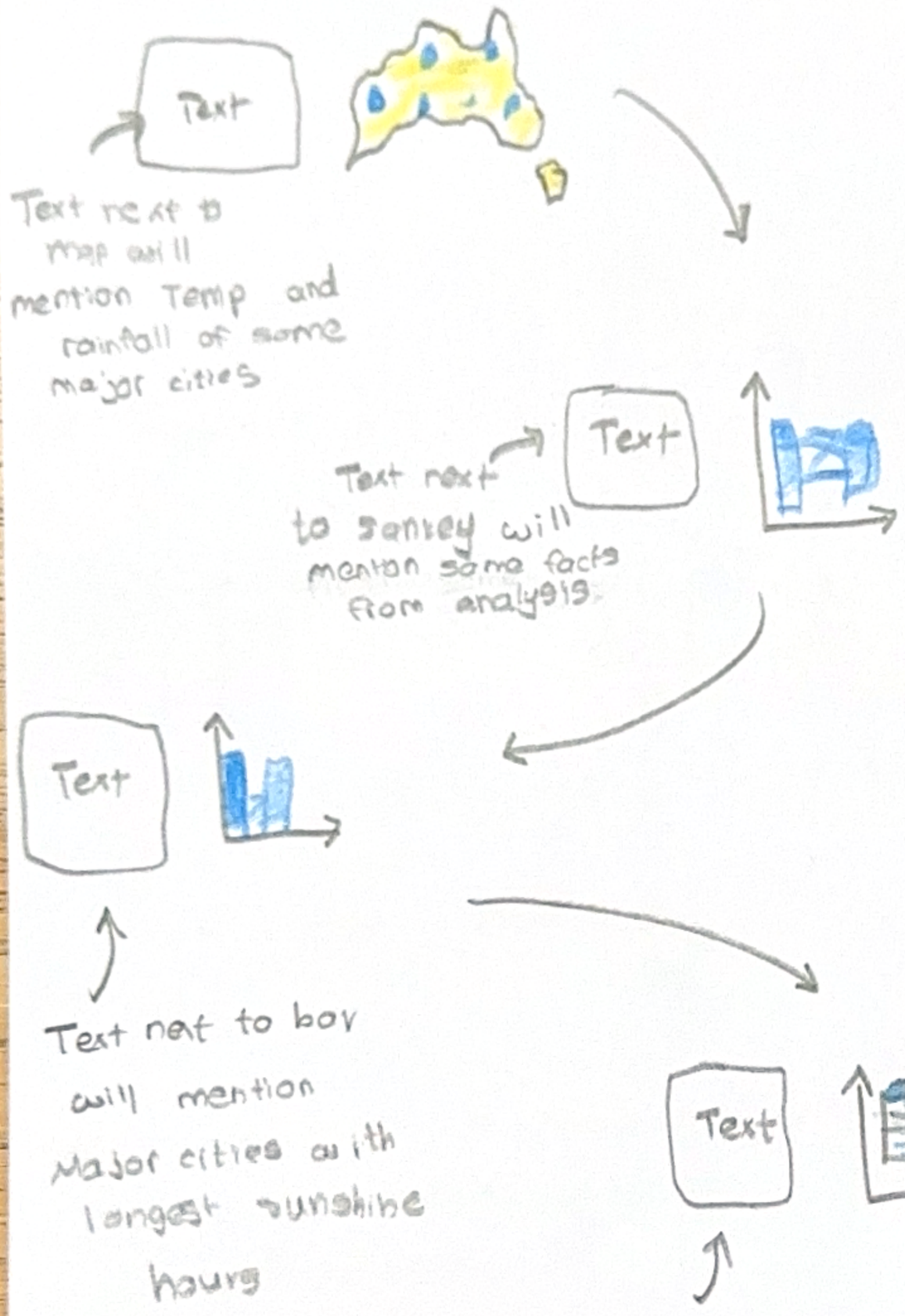
Date : 5/10/24

Sheet - 3

Task - Narrative / flow of web visualization

Layout

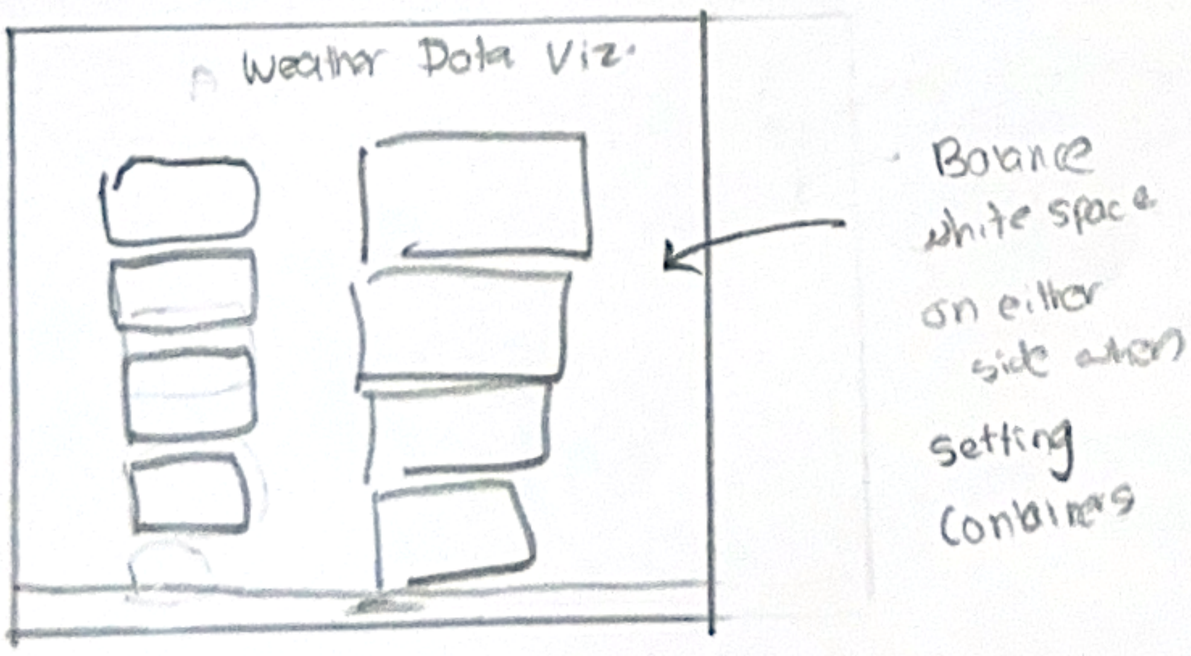
Narrative Layout - Flow of web dashboard.



Operations breakdown

* When hovering on Map points → City, Date, Temp, Rainfall
* When hovering over Sankey → Rain Today, Rain Tommorrow
* When hovering over bar → City, Temp, Sunshine, Windspeed.
* When hovering on heatmap → Date, Temp, Rainfall

Focus



Discussions

* Is all data neccessary? consider removing irrelevant data.
* Is implementation feasible?
* Is layout appealling?
* Will Target audience find this relevant?

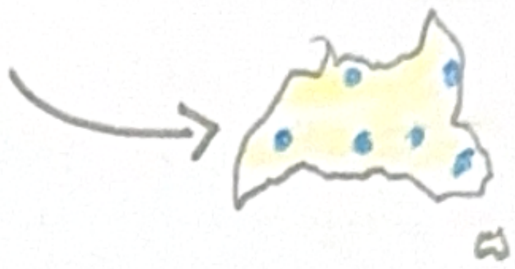
Layout

- Map - Main Visualisation - Uptop

  Size - Largest viz.

  Country - Light Yellow shade

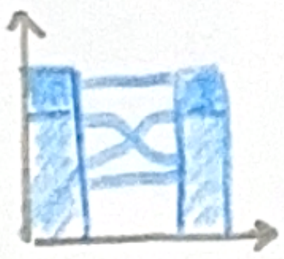
  Color scheme - blue



- Sankey - Supporting Viz - After Map

  Size - Medium

  Color scheme - blue



- Bar - Supporting viz - After Sankey

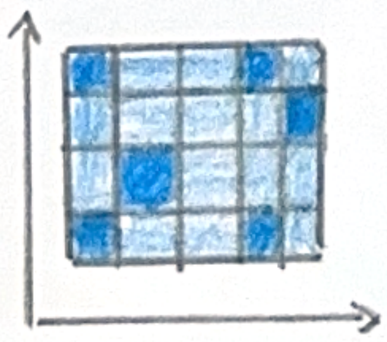
  Size - Medium

  Color scheme - blue

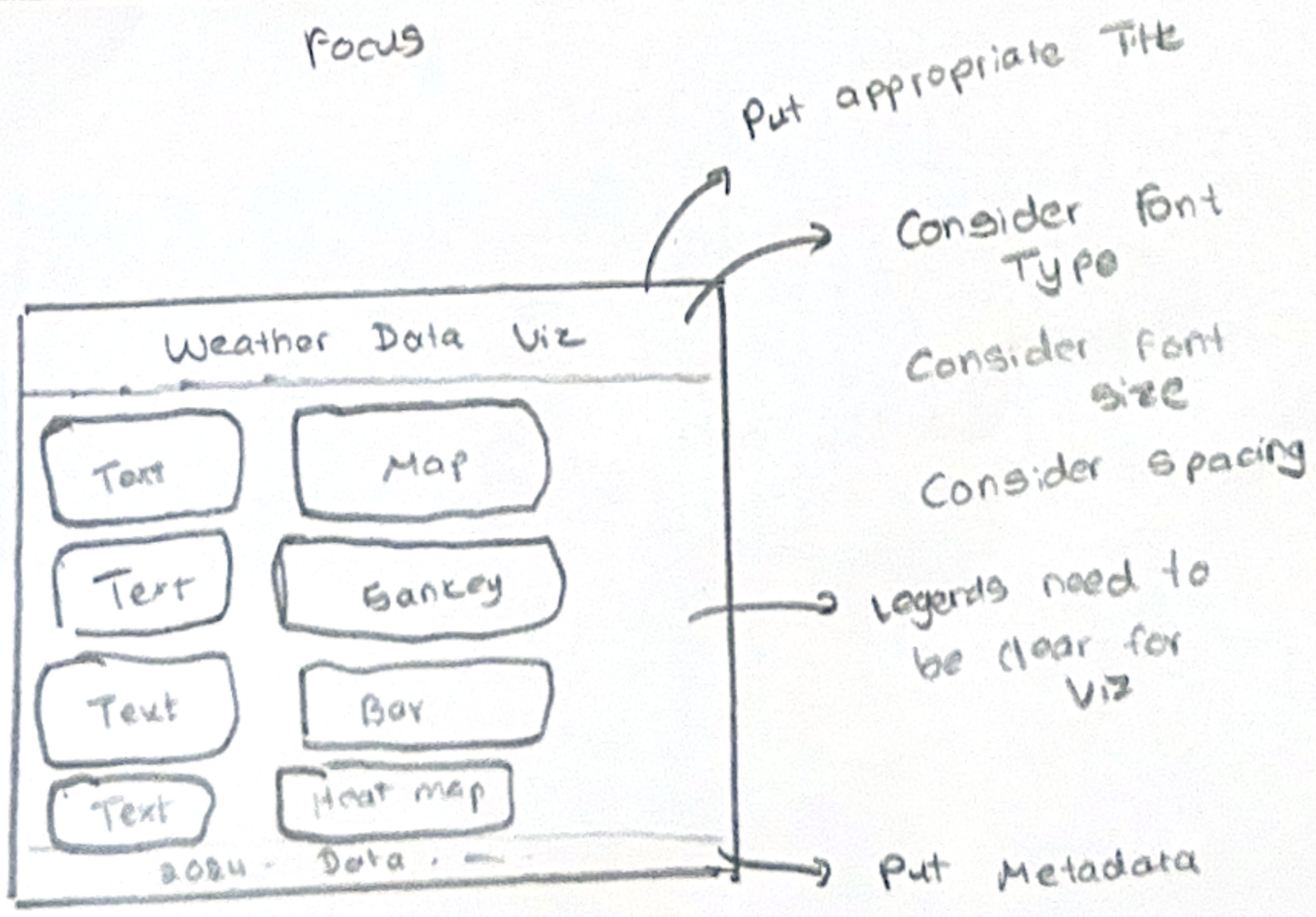
- Heat Map - Supporting Viz - After Bar / Last Viz

  Size - small - medium

  color scheme - blue.



Focus



Title : Simple Narrative

Author : Pahalage Hashen

Ramith Abeygunawardana

Date : 5/10/24

Sheet - 4

Task : Simple Narrative

practical Layout Plan

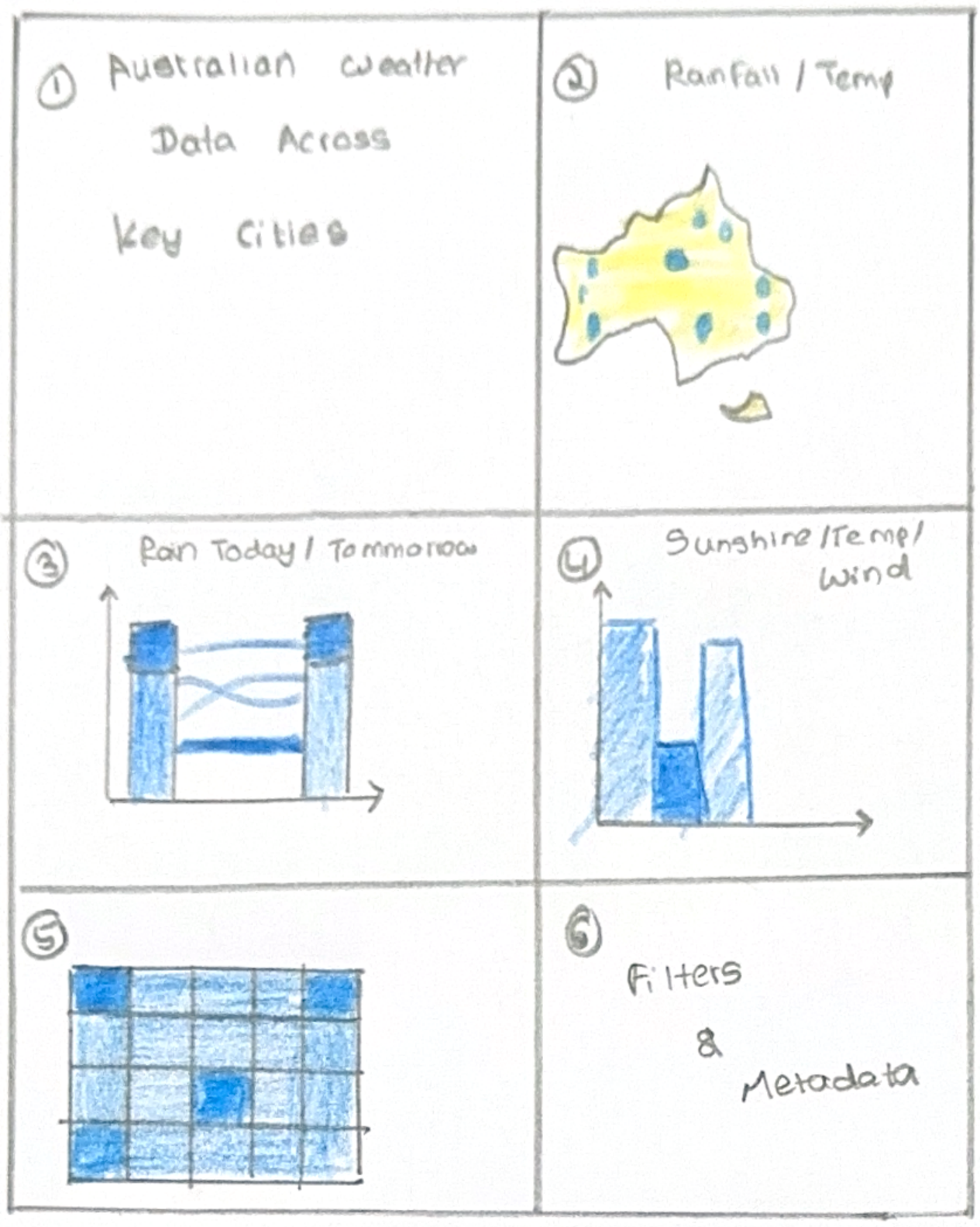
Operations - Overview

- Map → Hover - Tooltip
  → Filter - Year / Temp
- Sankey → Hover - Tooltip
  → Filter - City
- Bar → Hover - Tooltip
  → Filter - wind speed
- Heat map → Hover - Tooltip
  → Filter - city
  - year

Discussions

- Do operations make sense and are relevant ?
- Will User Experience be smooth ?
- Will Color / Font be appropriate ?
- Is there a good flow of narrative ?

Layout

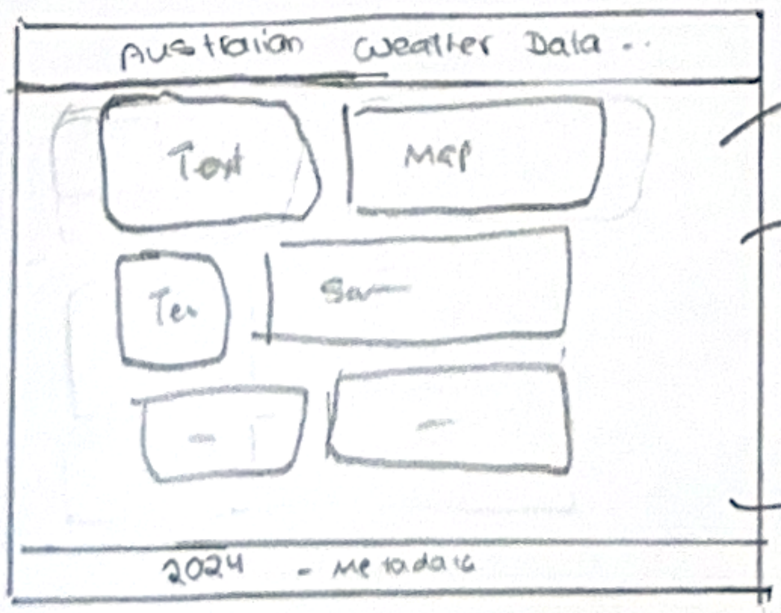


① Title → ② Map shows cities around Australia

③ See predictions for rain → ④ See avg sunshine / temp / windspeed.

⑤ See Temp / Rainfall on specific date → ⑥ Metadata / footer Details.

Focus



→ Apple system font

→ Adjust spacing in Text and container size in a row accordingly

→ Ensure Adequate Visual hierarchy

Title : Final Design Sheet

Author : Pahalage Hashen Ramith Abeygunawardana

Date : 5/10/24

Sheet - 5

Task - Final Dashboard Implementation Design

Operations summary

- Filter by Year / Temp - Map
  Tooltip - City / Date / Temp / Rain
- Filter by City - Sankey
  Tooltip - Rain Today / Rain Tommorrow
- Filter by City / Year - Heatmap
  Tooltip - Rainfall / temp
- Filter by windspeed - Bar
  Tooltip - Temp / city / sunshine / windspeed.

Details.

- Preprocess / Clean data if needed
- Visual studio code to implement web design
- Vega Lite for visualisations
- Github to host
- Ensure all text / tooltips are clean and legible.