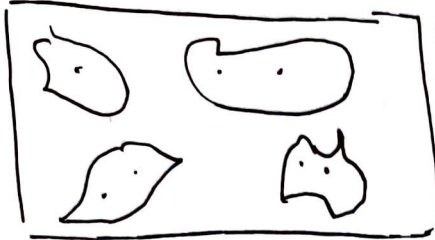


IDEAS

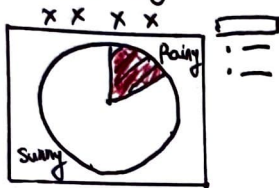
① World Temperature Map

a)



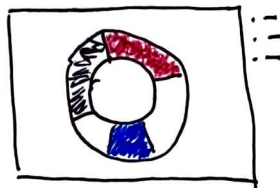
With higher temperature, the colour of dot will be darker and more toward yellow.

② Pie chart

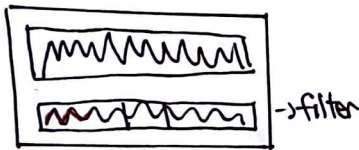


Annotation:

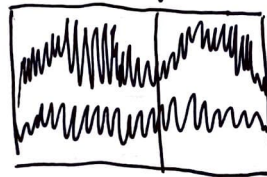
- Donut chart



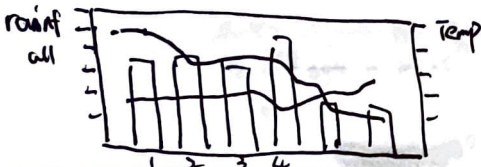
③ Temperature line chart



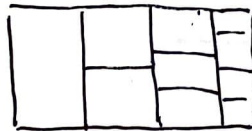
⑤ max/min temperature hover to see changes.



④ Temperature & rainfall bar & line chart



⑥ Treemap



for each state/place in Australia

Author: Yunkai Huang

Date: 13/10/2024

Sheet: 1

Student ID: 32444311

~~IDEAS~~ CATEGORISE

Australian Temperature

Categorical

- Weather (sunny/windy/rainy)

Quantitative

- rainfall
- Temperature
- Extreme

- Days that sunny/windy/rainy

- MIN & MAX

- Overall Trend

Map

- Global map

- Australian map

Relation between Temp & Rain

- Correlation

- Linear regression

~~CATEGORISE~~ FILTER

→ Donut chart



→ hard to do for a dataset and plan, as I only have two categories.

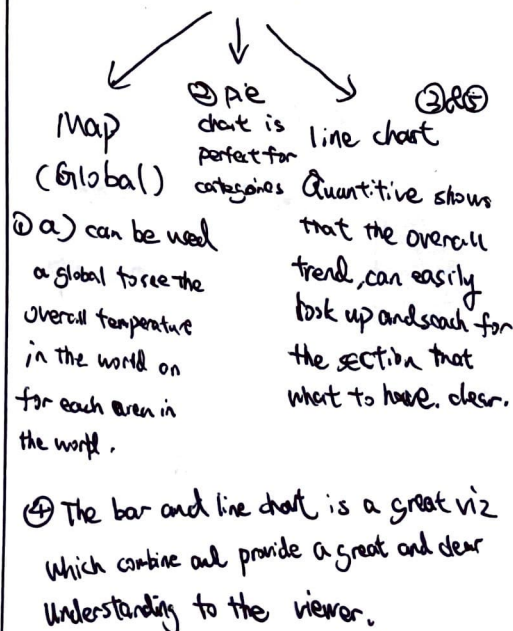
→ also hard to achieve, maybe a simple pie chart is fine

→ Treemap

→ based on the dataset, I am not be able to find similar like this, can it's not interactive and clear compare to other visualisation, not very informative

COMBINE & REFINE

Australian temperature



QUESTION

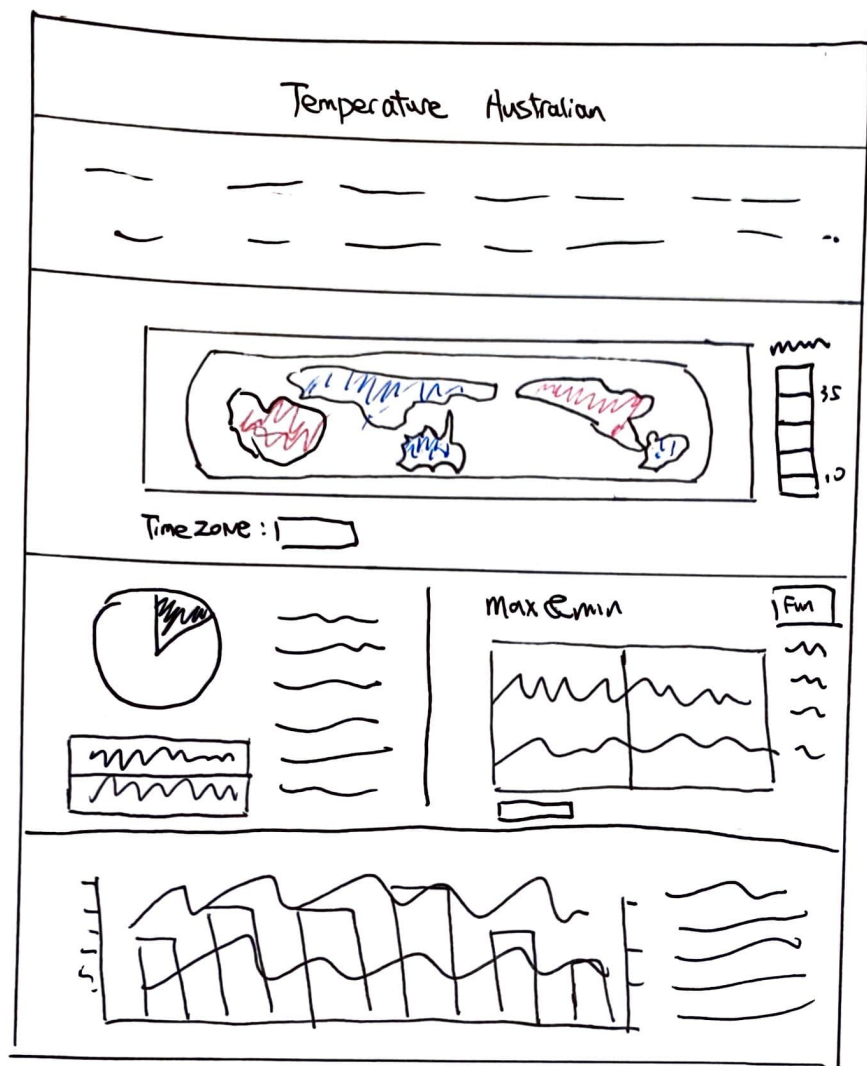
① Is the visualisation enough or more visualisations should be added?

② How should the visualisation be more understandable to the user?

③ Is the visualisation flow easy to follow?

④ Should more annotation being added to the visualization?

LAYOUT



Title: IDEA1

Author: Yunkai Huang

Date: 15/10/2024

Sheet: 2

Student ID: 32444311

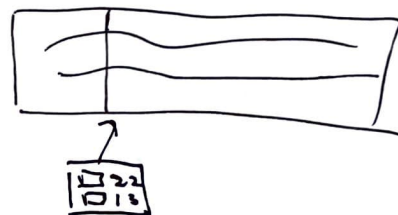
OPERATION

→ Timezone:

ALL
Asia
Pacific

Switch to the specific timezone that the user ~~want~~ want to explore different time zones

→ Hover on the max & min graph, which allow the user to see the specific info at certain time series & tooltip



FOCUS

→ Global map that shows the overall temperature distribution in the world.

→ the bar & line chart with description, which for each month that how the temp and rainfall distribute in Australia.

DISCUSSION

Advantage:

→ Simple and clean, easier to understand.

→ lots of interactions

Disadvantage:

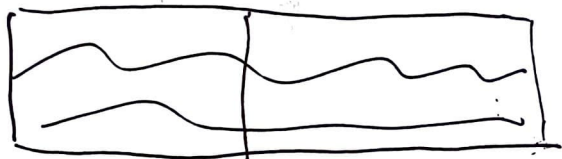
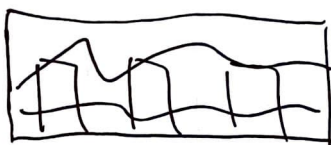
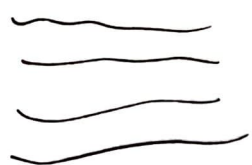
→ not much space for text

→ less creative

LAYOUT

(background)

T I T I E S E



Title: IDEA 2

Author: 1511012024 Yuhkai Huang

Date: 15/10/2024

Sheet: 3

ID: 32444311

OPERATION

→ Max & Min
temperature selected

→ Filter as the line chart
itself

→ pie chart annotation &
tooltips

FOCUS

→ The map still will be the focus,
but ~~the~~ also the chart under,

→ The background will be related to the
topic.

→ The overall structure should be in a
way of exploring ^{& explore} temperature in Australia.

DISCUSSION

Advantage:

→ user friendly

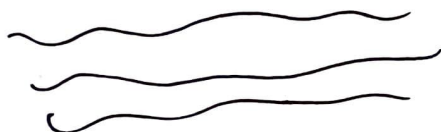
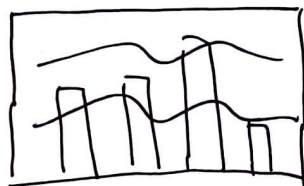
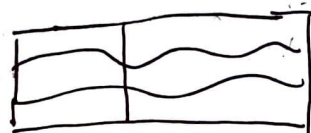
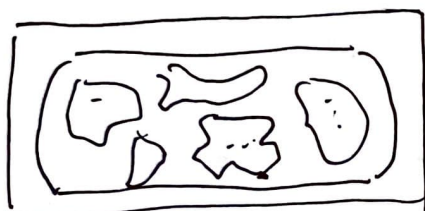
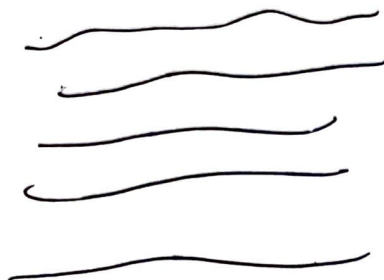
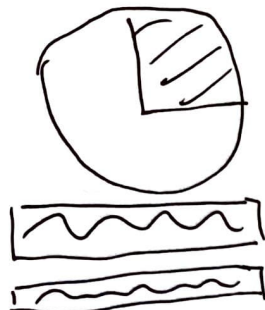
→ Background that fill the
white space

→ The main graph in the middle
more focus

Disadvantage:

LAYOUT

T i T l e



Title: IDEAS

Author: Yunkai Huang

Date: 15/10/2024

Sheet: 4

ID: 32444311

OPERATION

→ Tooltips for all the graphs.

→ Graph is a filter of another graph

→ The text will have highlight and different colour to make sure the graph is readable.

FOCUS

→ No main focus in this way

→ But some of the graph will be combined together as a whole.

→ Text and annotation will be some extra things that help with the story telling and the explanation of the graph.

DISCUSSION

Advantage:.

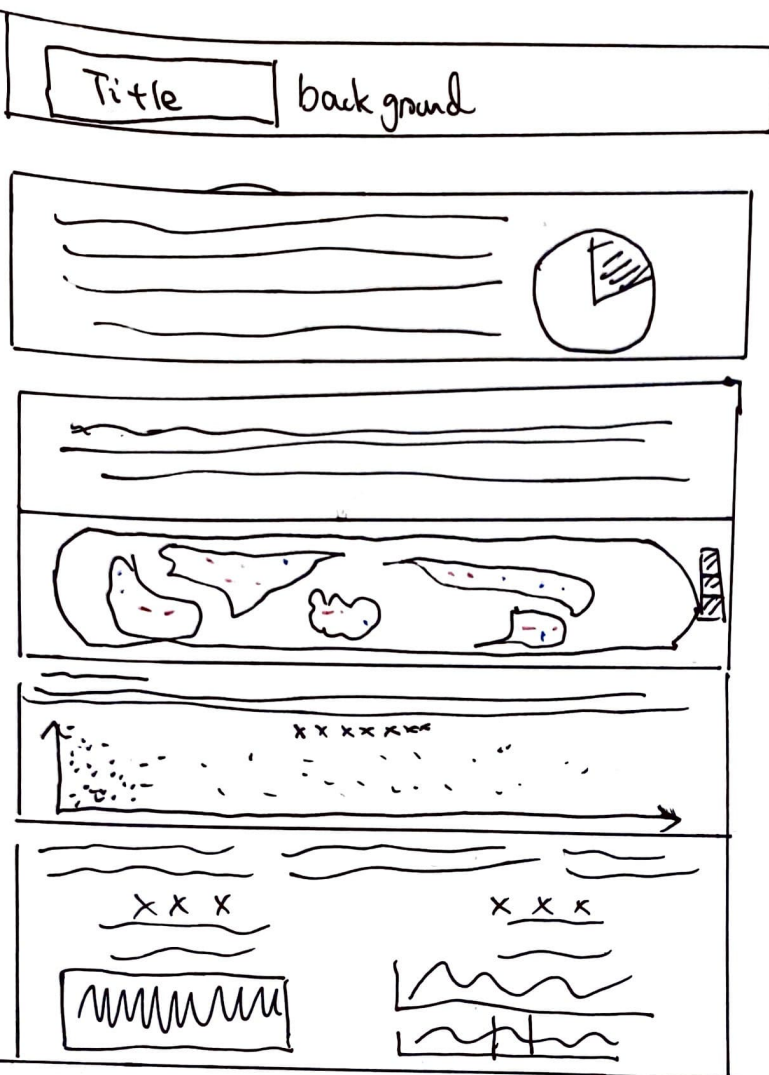
→ ~~not~~ No a specific main focus, everything evenly spread out

→ The user can read in order

Disadvantage:

→ If the text are not form great then the reader will be hard to understand and read the graph

LAYOUT



Title: final design sheet

Author: Yunkai Huang

Date: 15/10/2024

Sheet: 5

Task: Australia Temperature Visualisation

OPERATION

→ All tooltips covered

→ More text include

→ Timezone

All	▼
Asia	
...	

→ select Temperature

Min	▼
Max	

→
↑
Filter

FOCUS

→ Global map that focus the overall temperature distribution, also reflect the Australia temperature when in a global scope

→ Graph presentation Rainfall vs Temperature, explaining the relationship between these two factors

→ (colour and background use:

→ Australian background used

→ consist colour.

DETAIL

→ Dependencies:

→ vega-lite

→ dataset

→ github

→ Estimated time and effort:

≥ weeks

↳ 1 day → critique ↳ 1 day

↳ 1 day work for map CSS & HTML

↳ 1 day work for others & text

→ specific requirement:

the overall ~~css~~ structure of the HTML & CSS