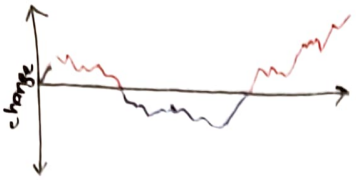
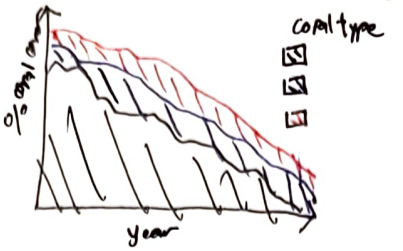
IDEAS

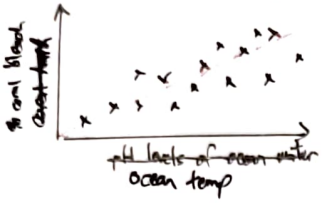
SSTs over time in GBR



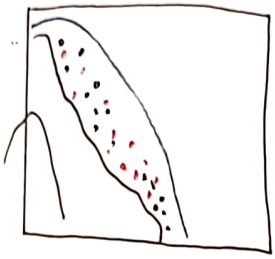
Decline in Coral Cover over time



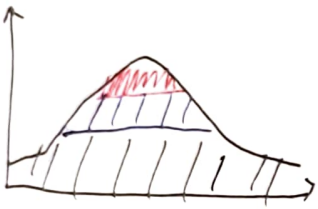
Ocean temperature & coral bleaching severity



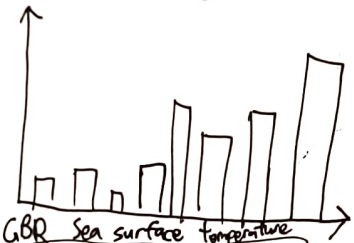
Live Coral Cover in GBR



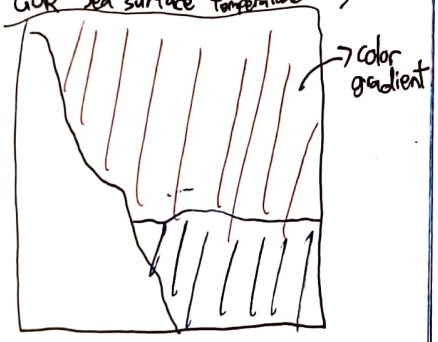
Degree heating weeks in GBR



Number of bleaching events across the world

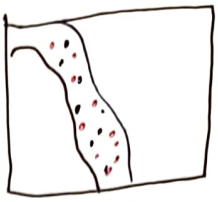


Causes of reef degradation



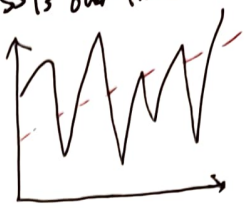
Filter

Live Coral Cover in GBR

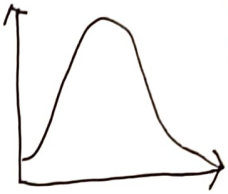


Number of bleaching events across the world

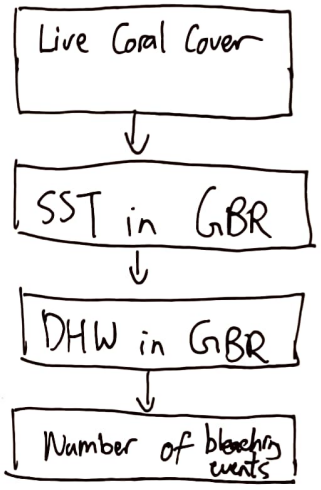
SSTs over time



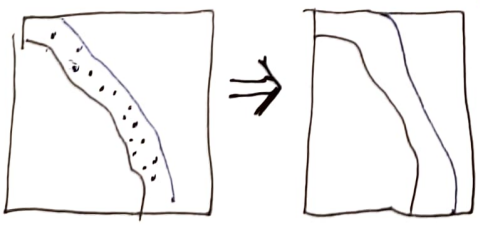
DHW in GBR



Categorize



Combine & Refine



- 0-20%
- 20-40%
- 60%-80%
- 80%-100%

Name : WEE JUNZIN

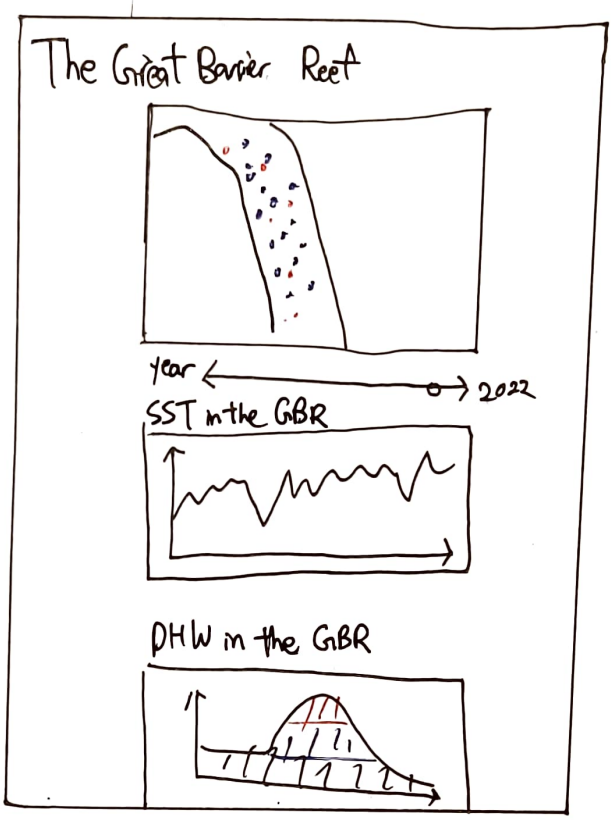
~~Author~~ Title : Great Barrier Reef

Sheet : 1

Question

1) Is the implementation of the viz doable?
2) Does it convey something meaningful?
3) Does this viz tell a clear story?

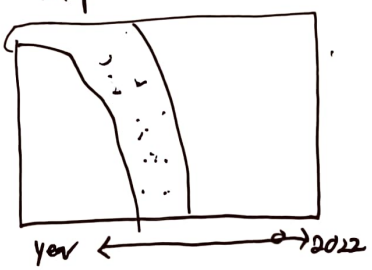
Layout



Title: Great Barrier Reef
Author: Wee Jun Lin
Date: 5/8/10/2024
Sheet: 2
Task: FIT3179 Assignment 2

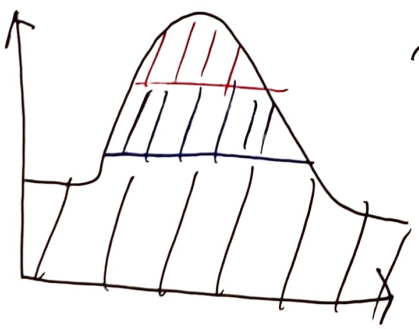
Operations

- Select the year of the map



- Scrollable through time

Focus



→ the user can see the number of weeks where the coral reef exceeds the bleaching temperature threshold.

Discussion

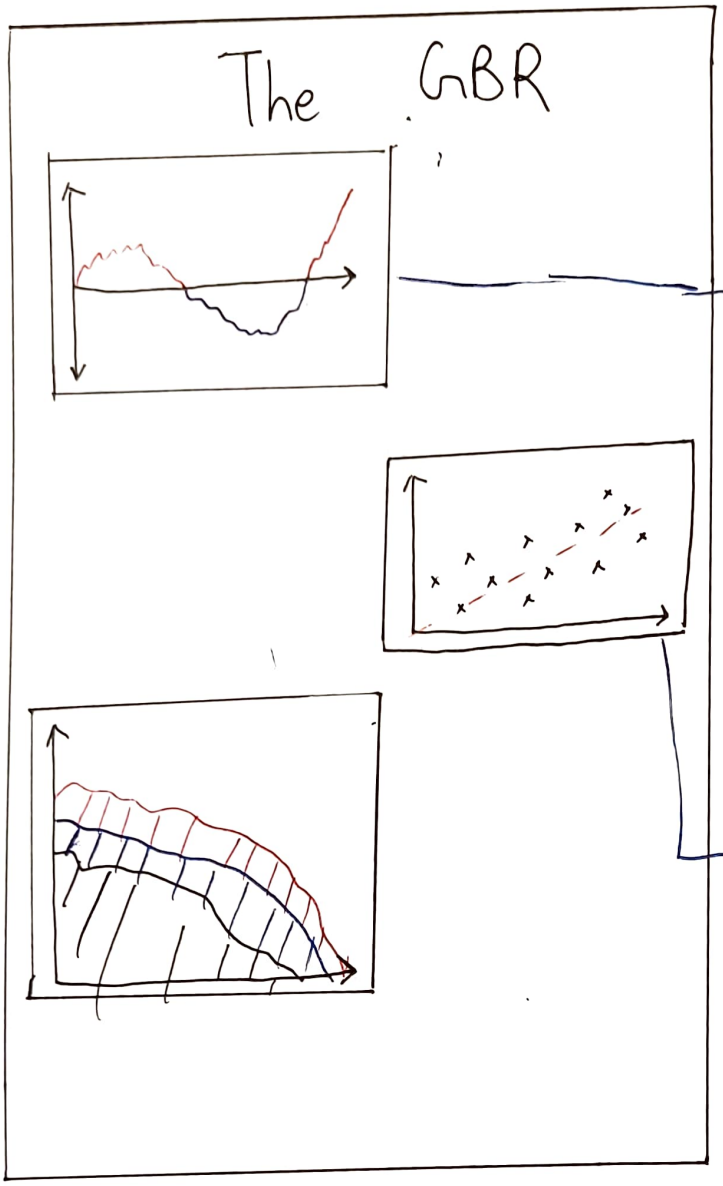
Advantages

Can read trends easily
map provides clear geographic context

Disadvantages

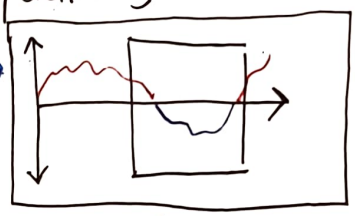
area is hard to differentiate
map can be visually cluttered when displaying too much info

Layout



Title: Great Barrier Reef
Author: Wee Jun Lin
Date: 5/10/2024
Sheet: 3
Task: FIT3179 Assignment 2

Operations



↓ select area to focus

Drag a box to focus

Focus

The main focus of this dashboard is the trend of all 3 charts showing the decline of the great barrier reef with the increase of the sea surface temperatures

Discussion

Advantage

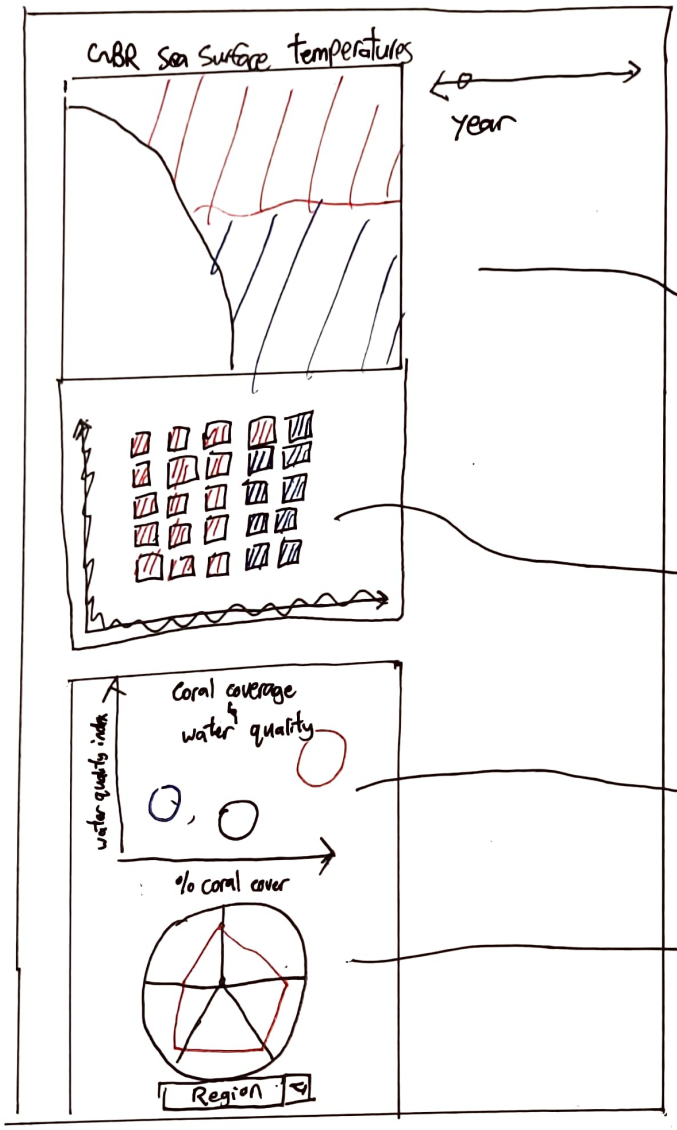
→ Scatter plot effectively shows the relationship between two variables making it easy to identify trends or correlations

Disadvantage

→ Scatter plots can become cluttered and difficult to interpret when there are too many datapoints

Layout

Title: Great Barrier Reef
Author: Wee Jun Lin
Date: 5/10/2024
Sheet: 2 of 4
Task: FIT3179 Assignment 2



Operations

- Slide to change the year
- Hover over to see the percentage tooltip
- Pan and Zoom
- Click dropdown list to change the regions

Focus

- Primary focus of the design is to convey the environmental health of the GBR.
- Map shows spatial distribution of SST, highlights temperatures stress across the reef
- Waffle chart quantifies the area affected by hot water, offering a quick overview of the scale of thermal stress.
- The bubble chart presents key reef health metrics.

Discussion

Advantage

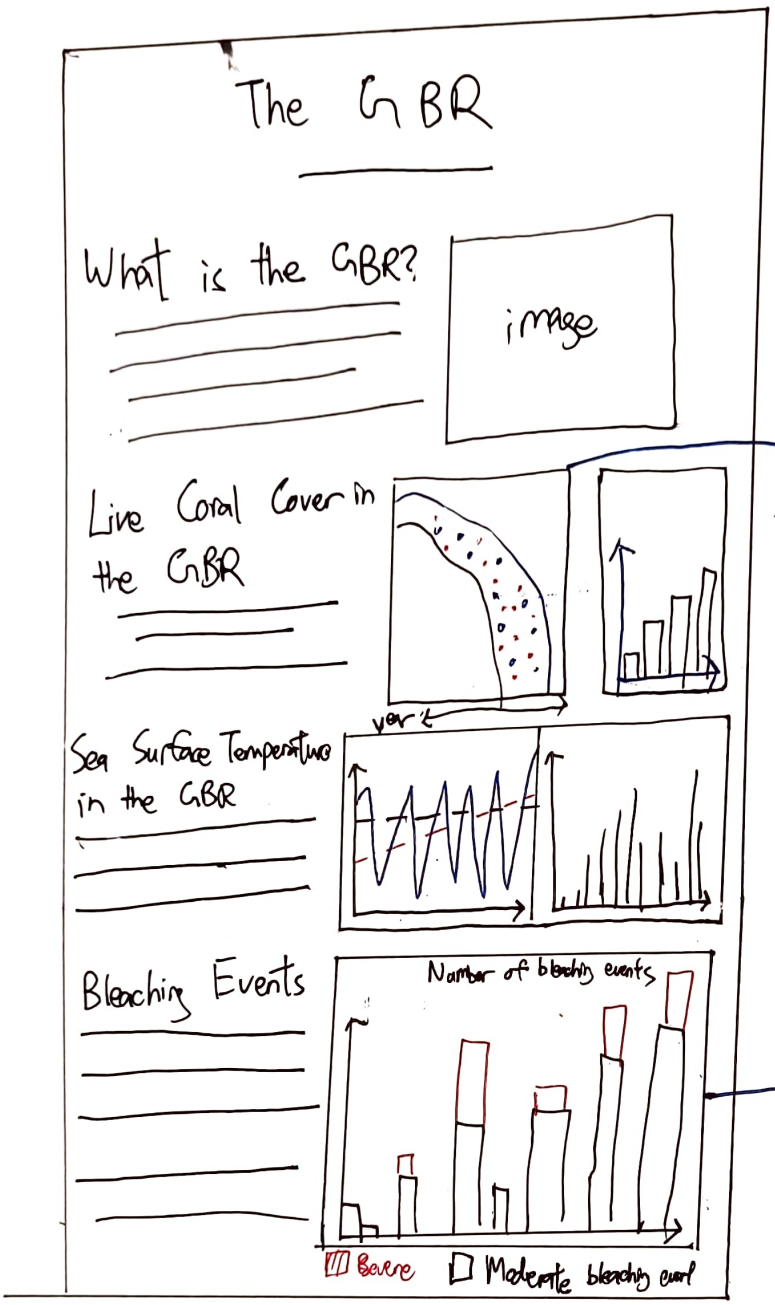
1) Provides comprehensive view of both temperatures stress and reef health.
2) The variety of chart types makes complex data easy to understand

Disadvantage

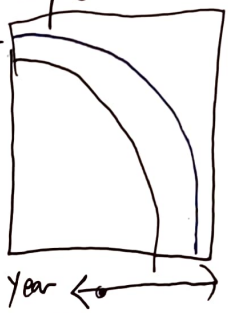
1) Challenging to interpret multiple charts together without prior knowledge.
2) Complex visualisation like the radar chart could overwhelm users.

Layout

Title: Great Barrier Reef
Author: Wee Jun Lin
Date: 5/10/2024
Sheet: 5
Task: FIT3179 Assignment 2



Operations

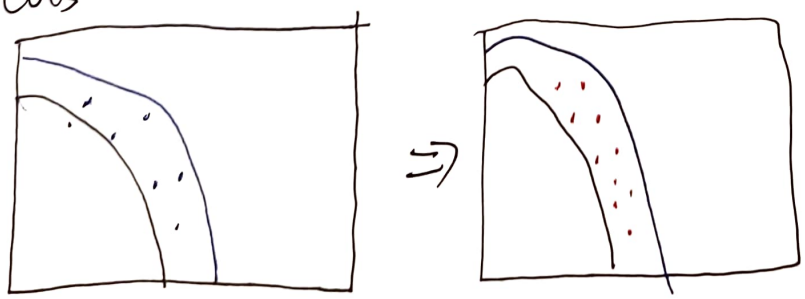


slide

Region [Australasia]

click

Focus



~~Discussion~~ Detail

1) Get topojson data for GBR
2) Get data for bleaching events in csv format.