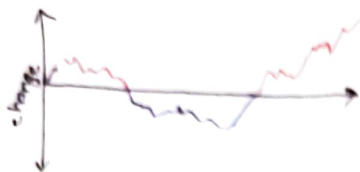
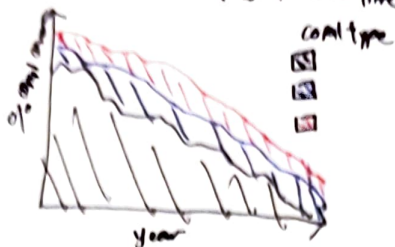


# IDEAS

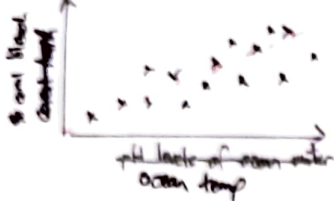
SSTs over time in GBR



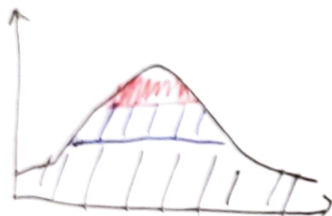
Decline in Coral Cover over time



Ocean temperature & coral bleaching severity



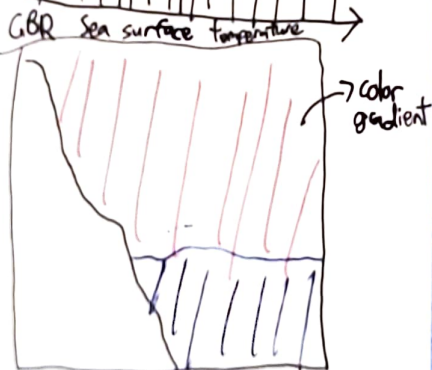
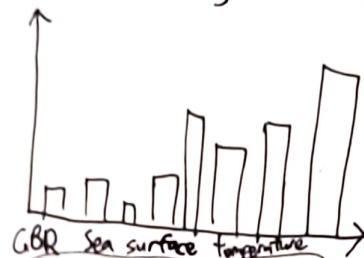
Degree heating weeks in GBR



Causes of reef degradation



Number of bleaching events across the world

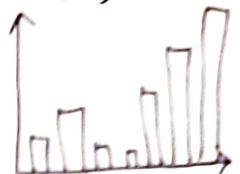


## Filter

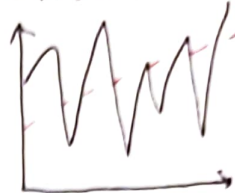
Live Coral Cover in GBR



Number of bleaching events across the world



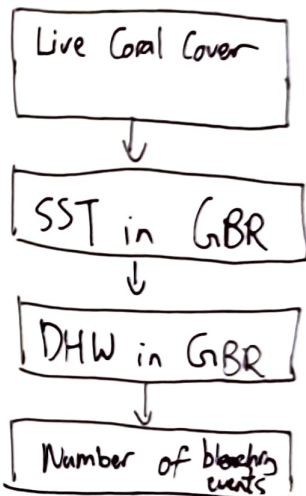
SSTs over time



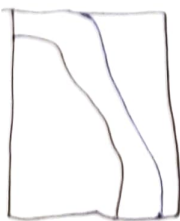
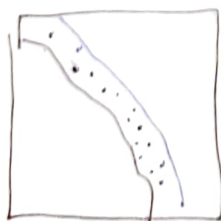
DHW in GBR



## Categorize



## Combine & Refine



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

Name: WEE SUN LIZ

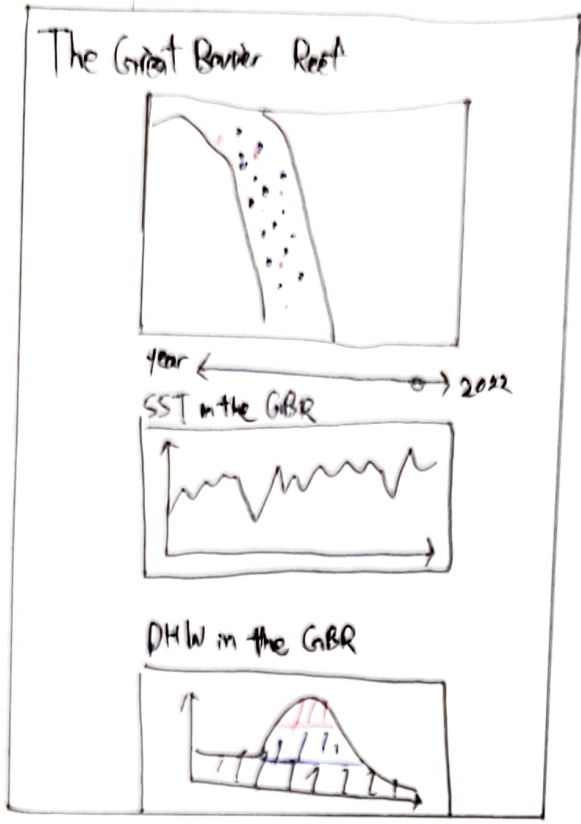
Author: Title: Great Barrier Reef

Sheet: 1

## Question

- 1) Is the implementation of the viz doable?
- 2) Does it convey something meaningful?
- 3) Does this viz tell or show story?

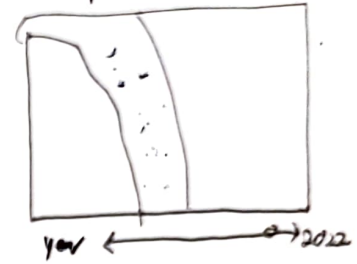
# Layout



Title: Great Barrier Reef  
Author: Wee Jun Lin  
Date: 18/10/2024  
Sheet: 2  
Task: FIT317  
Assignment  
2

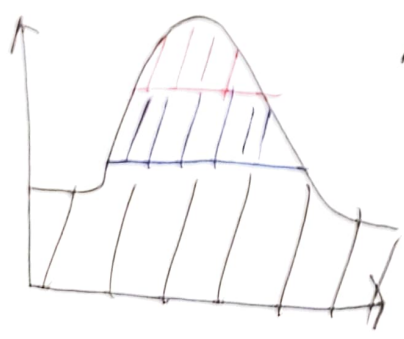
## Operations

- Select the year of the map



- Scrollable through time

## Focus



## Discussion

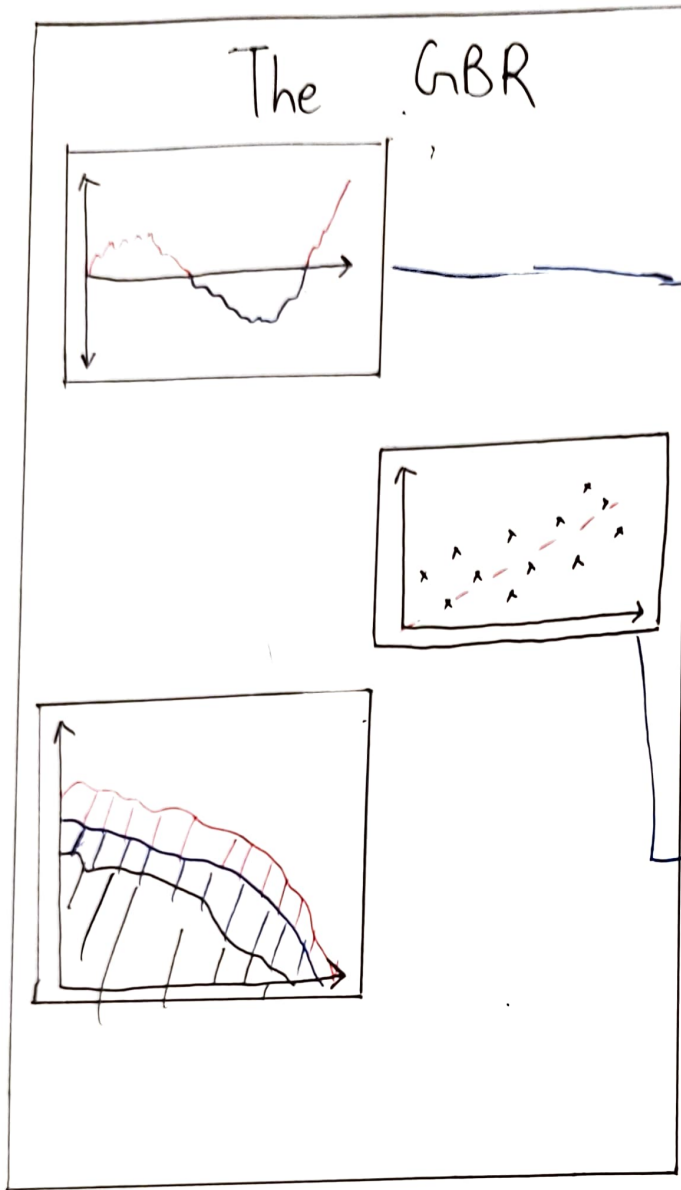
### Advantages

Can read trends easily  
map provides clear geographic context

### Disadvantages

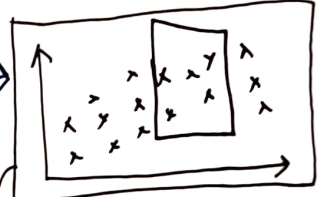
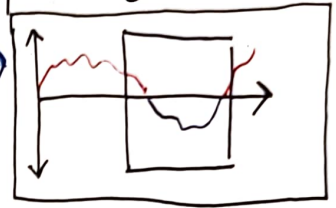
Area is hard to differentiate  
map can be visually cluttered when displaying too much info

# Layout



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

## Operations



## 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

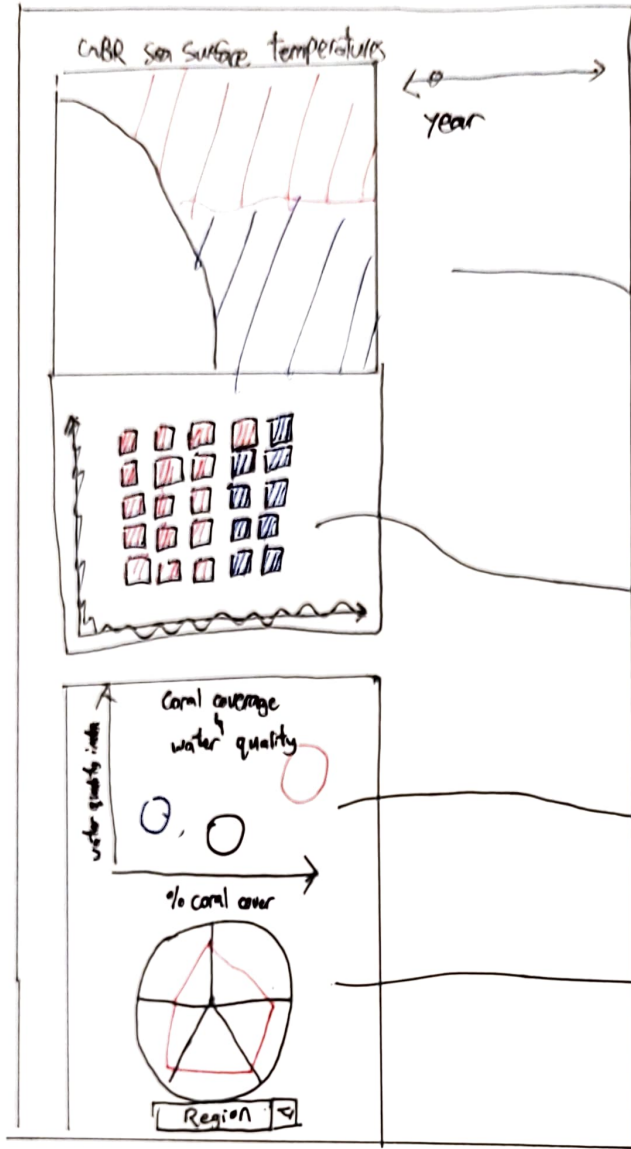
### Advantage

→ 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: 4  
 Task: FI T31A  
 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 CGR.
- 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 visualization like the radar chart could overwhelm users.



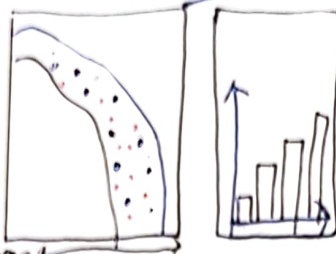
# Layout

## The GBR

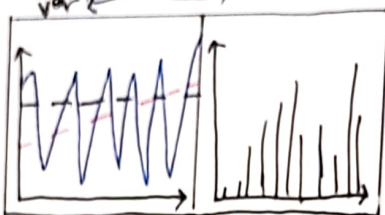
What is the GBR?

image

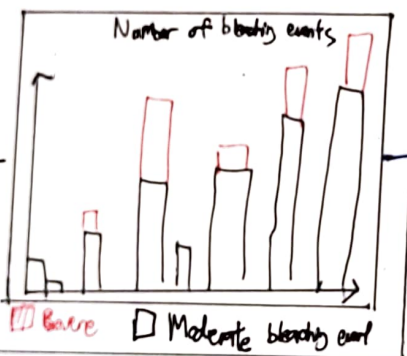
Live Coral Cover in the GBR



Sea Surface Temperature in the GBR



Bleaching Events



Title: Great Barrier Reef

Author: Wee Jun Lin

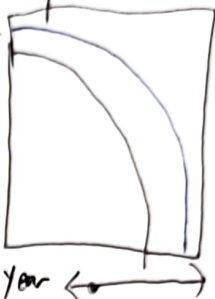
Date: 5/10/2024

Sheet: 5

Task: FIT3179

Assignment 2

Operations



slide

Region Australia

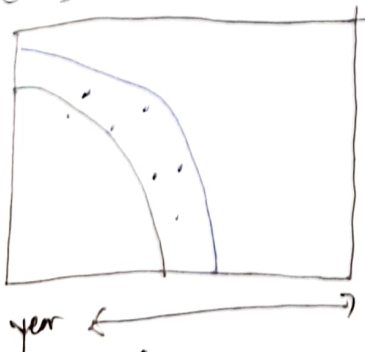
click

Australia

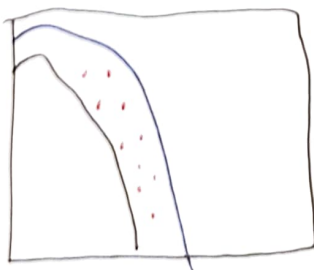
Pacific

Atlantic

## Focus



⇒



click n slide

→ Show trends over time interactively

## Discussion

Detail

- 1) Get topojson data for GBR
- 2) Get data for bleaching events in CSV format