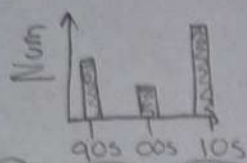
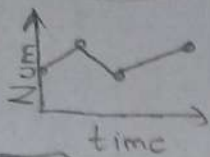


# Ideas

① Total historical disasters



90s:

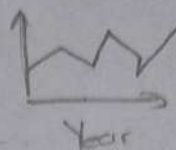


00s:

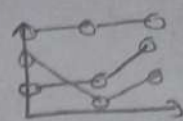


## Filter

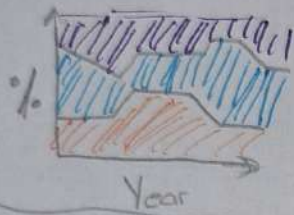
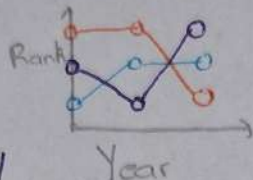
Disaster Trend



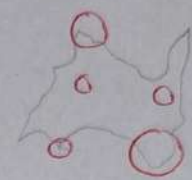
Types



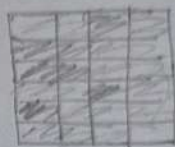
② Disaster categories



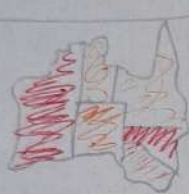
Map



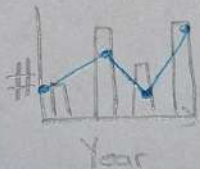
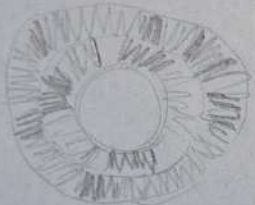
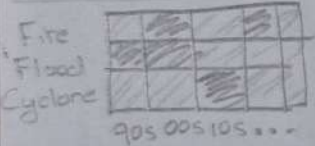
Time



③ Geographic Distribution



④ Temporal



## Categorise

Disaster Trend

Categories

Proportional Map

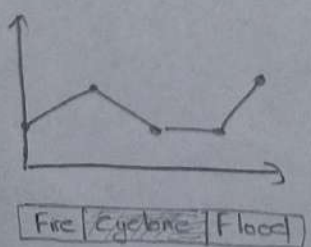
Temporal

## Combine & Refine

① Use 2 types of maps to provide multiple perspectives

② Want to show lots of temporal data, Line chart is easiest to annotate

③ Filter on charts to compare & contrast

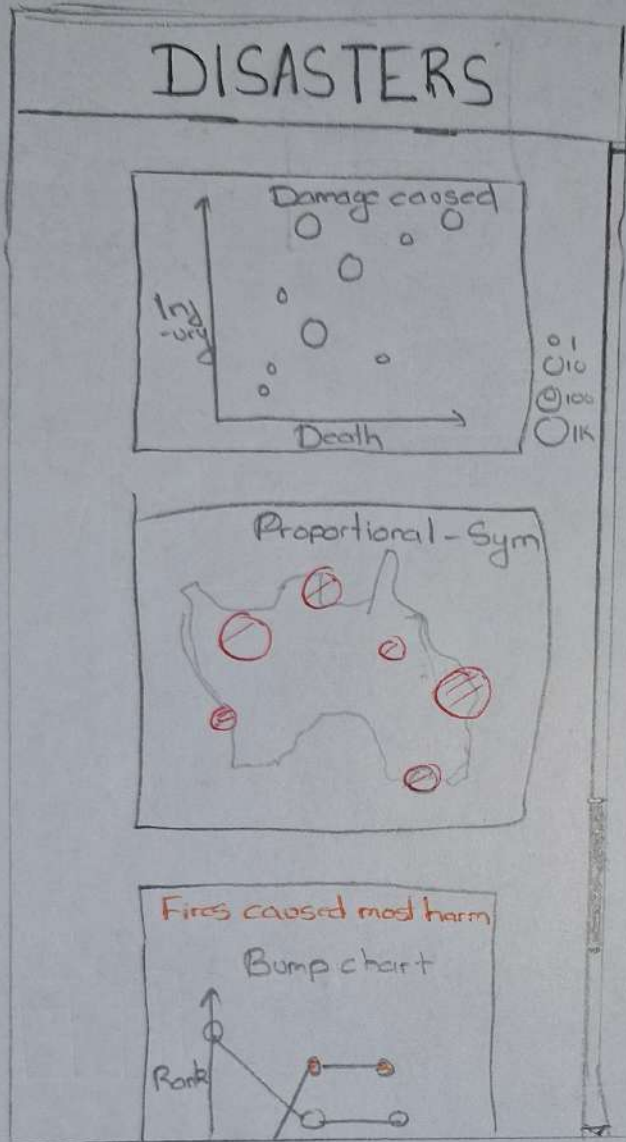


## Questions

① Is heatmap better than line chart

② How to show multiple views in easiest way

## Layout



Title: Overview of Damage

Author: Amish Mishra

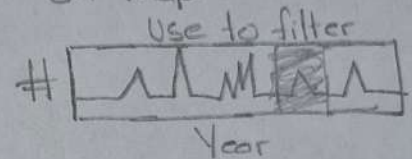
Date: 02/10/24

Sheet 2

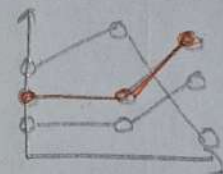
Task Explore Damage Caused

## Operations

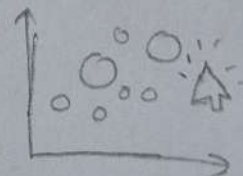
① Time brush filter on map



② Highlight



③ Zoom/pan



## Focus

- ① Main focus is to depict damage caused
- ② Lots of clickable highlighting so user can compare easily
- ③ Map to show location-based impact

## Discussion

### Pro

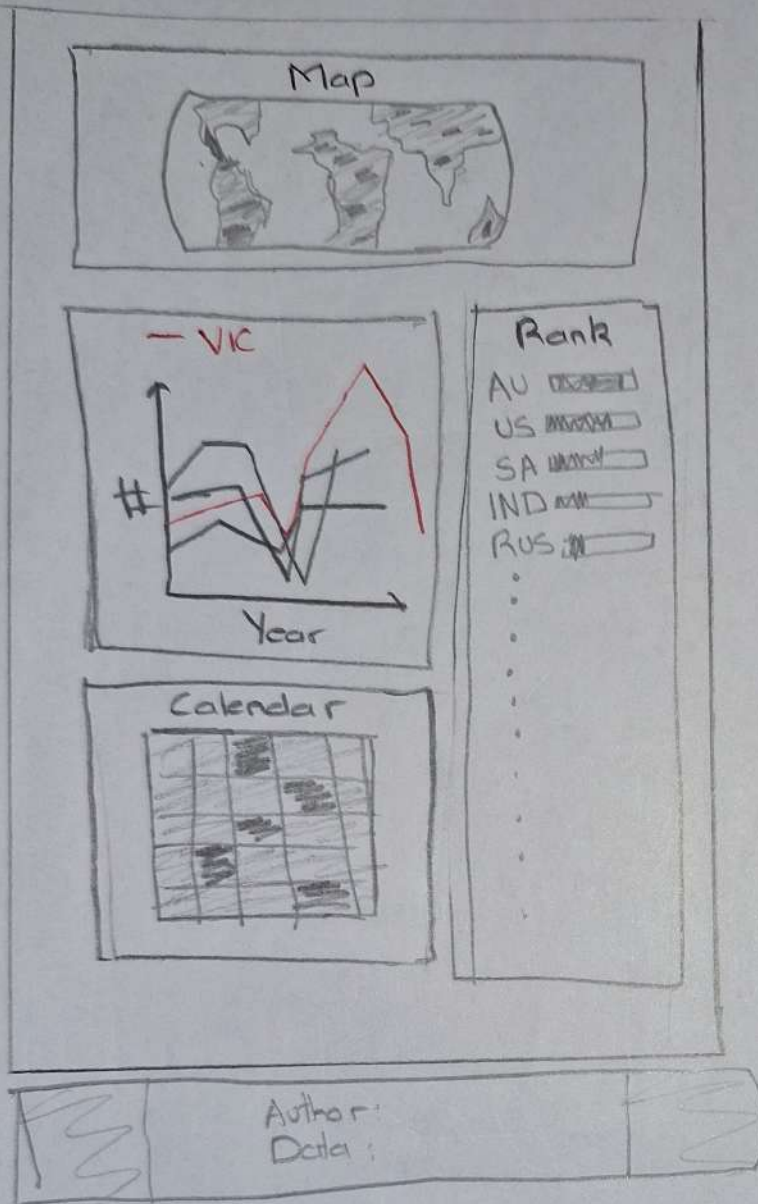
- Simplify lots of data
- Colour used meaningfully

### Con

- Scrolling
- Many categories



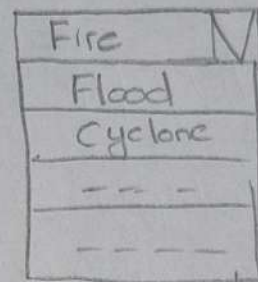
## Layout



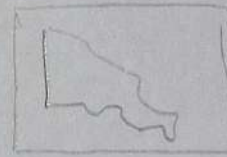
Title Card-based  
Author Amish Mishra  
Date 2/10/24  
Sheet 3  
Task Mini-comparisons

## Operations

### ① Category Selection



### ② Zoom on map



Zoom 

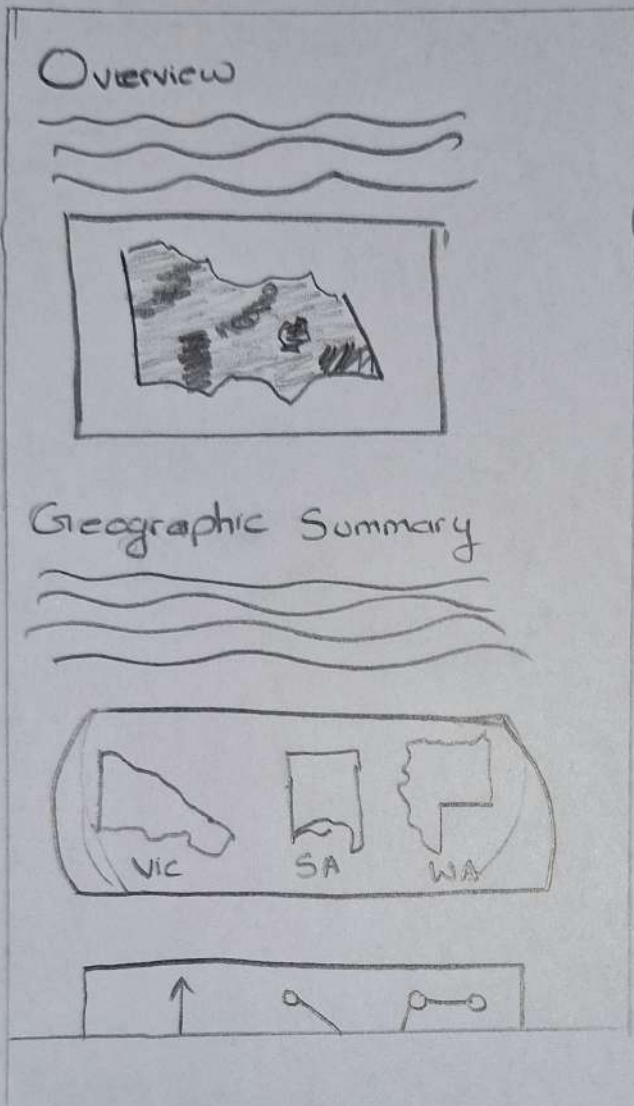
## Focus

- ① Explore map to see regions closely
- ② Use calendar to see temporal spread
- ③ Bar chart shows quick rankings

## Discussion

Pro	Con
① Easy comparisons	① Confusing
② Can formulate a story	② Bad visual hierarchy

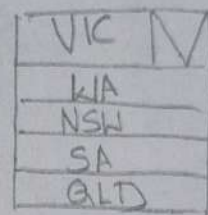
## Layout



Title Simple  
Author Amish Mishra  
Date 2/10/24  
Sheet 4  
Task: Very Simple  
Storytelling

## Operations

- ① Choose state to show choropleth map



- ② Select Year to show different results

Year:

- ③ Tooltip showing summary



## Focus

- ① View State-wise breakdown of data
- ② View trends through time
- ③ Map annotations

## Discussion

### Pro

- Easy to compare Regions
- Simple layout

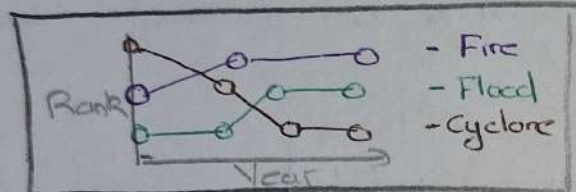
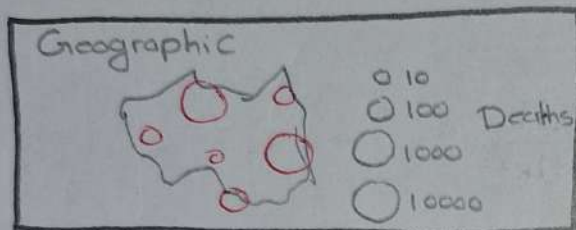
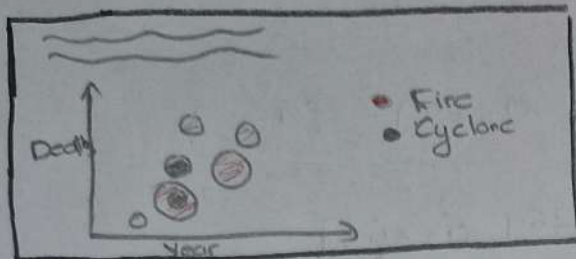
### Con

- Lots of maps, can be bad for cognitive load
- Lots of text



# Layout

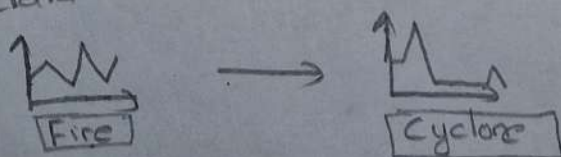
## Disasters



## SUMMARY

## Focus

- Important focus on depicting change caused
- Choosing category will change data

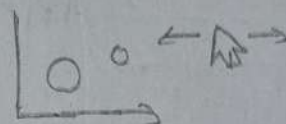


- Each 'card' is standalone

Title Final Design Sheet  
 Author Amish Mishra  
 Date 3/10/24  
 Sheet 5  
 Task Implementation

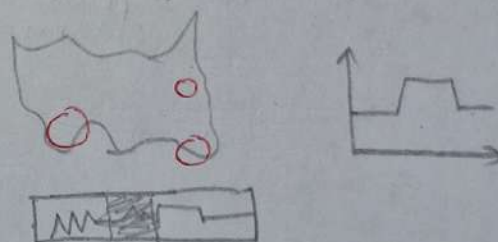
## Operation

- ① Zoom and Pan bubble plot



- ② Click event to highlight

- ③ Time-brush to change map



## Detail

- Database from National Disaster Institute (CSV)
- Sheet 2 with simplicity of sheet 4
- Dependency:
  - Excel
  - Vega-lite
- Time:
  - 1.5 day per vis
  - 3 days to build page