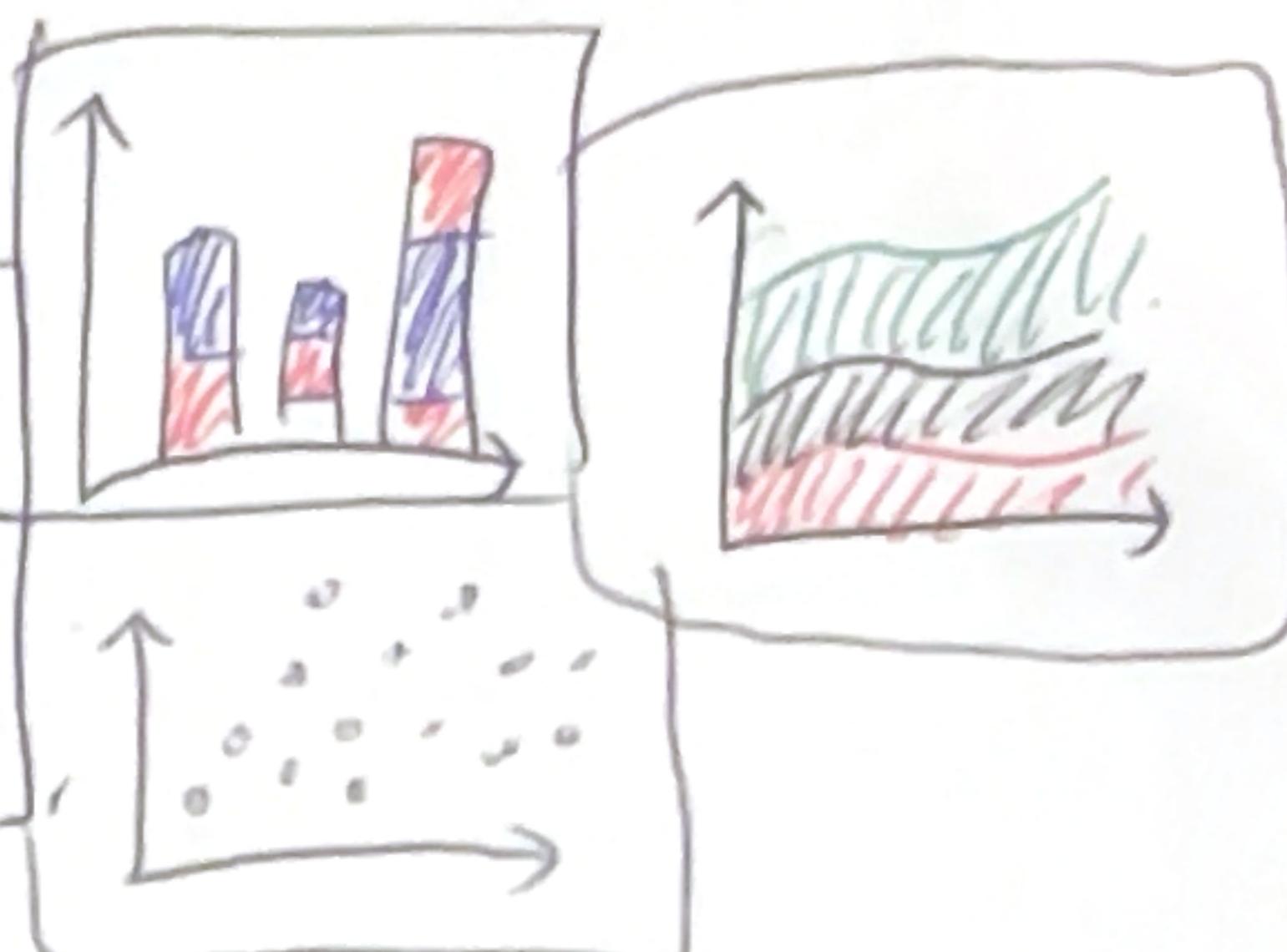
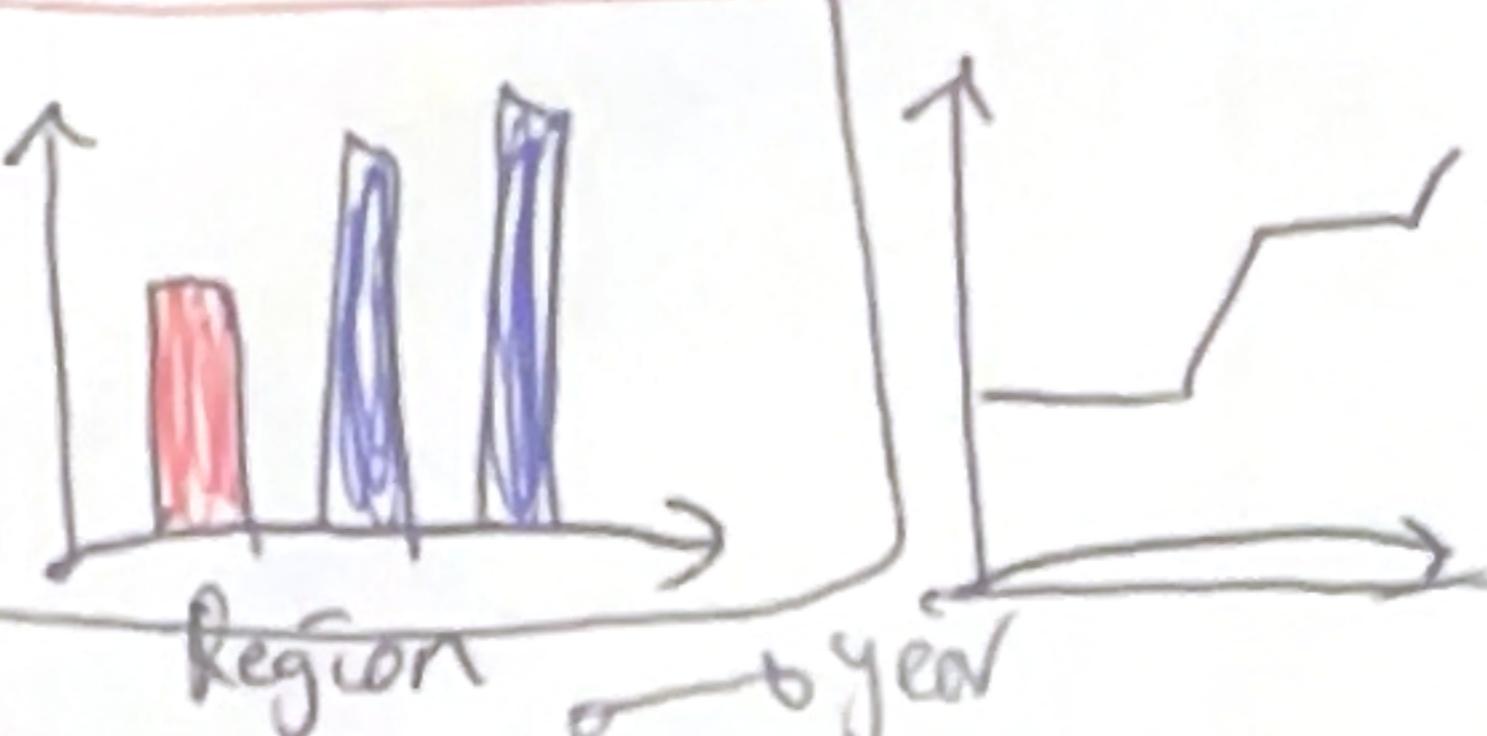


• Map (multiple region)



• Isotype



- Isotype: could emphasise the Intensity of bushfire but takes up too much space, does not represent area/ actual data well

- Scatter: Ambiguous In terms of visualisation purpose, other options are better

- Small multiple map: focused on NSW data only

categorise

1. Geographical + year slider



by ~~country~~  
states

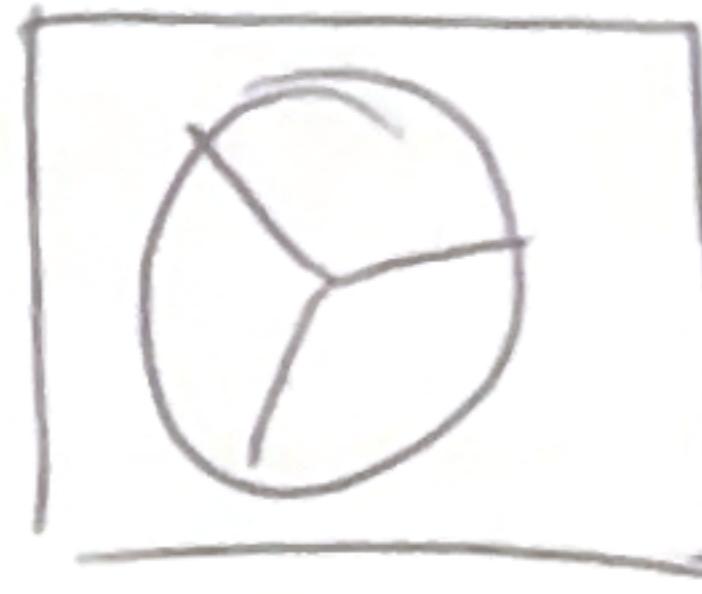


by Villages

2. Trend graph over fire



3. Comparative data.



combine & Refine

Layout: → Intro → on page content → sections

Interactions: year slider, legend filter, Hover tooltips.

Map showing nsw only - Data availability.

Stacked area for yearly comparison.

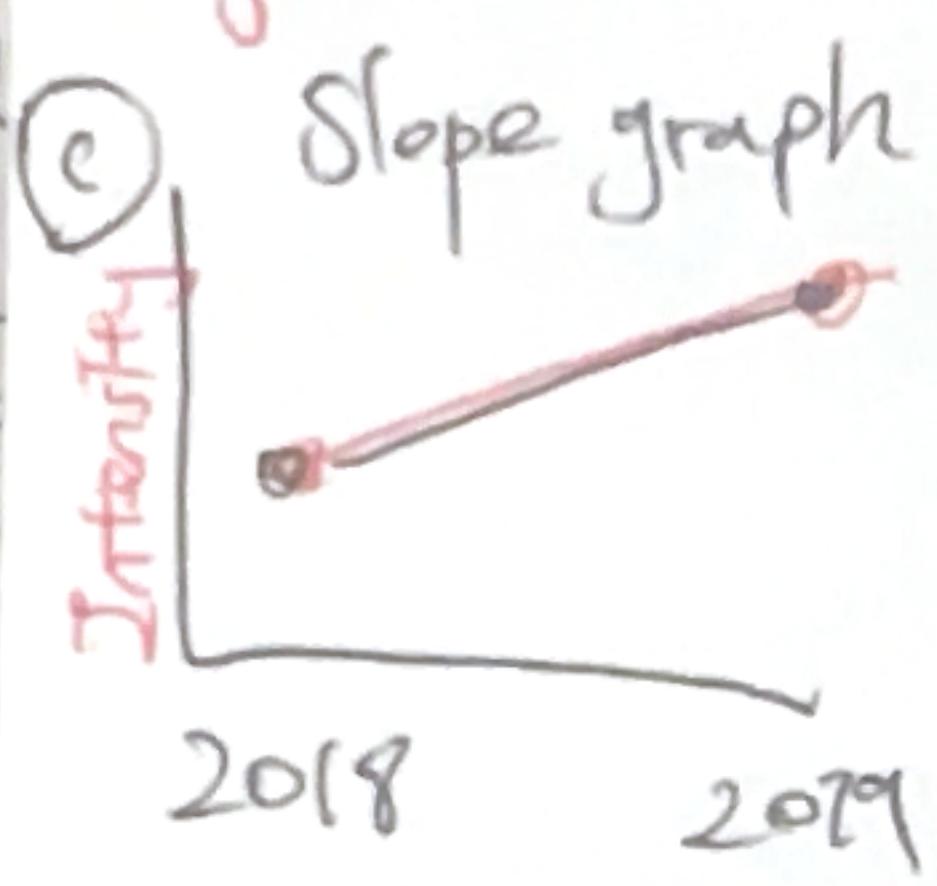
Colour choice: fire - red, orange

summarise and question (Does each chart add different perspective about the VIZ?)

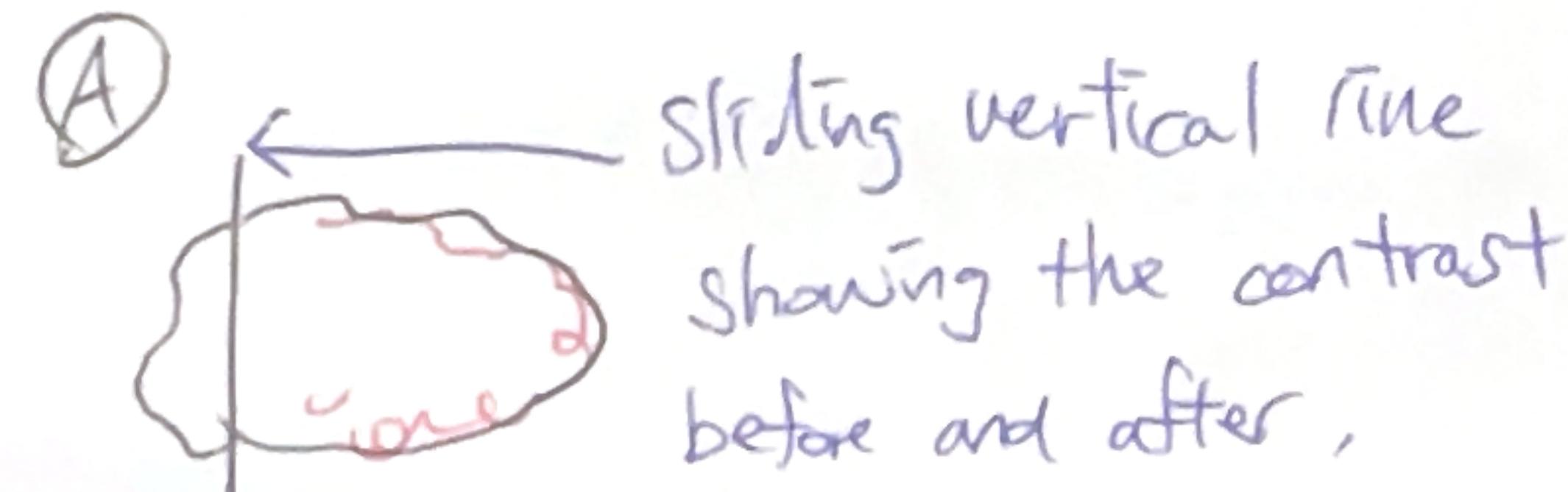
2. Are colours and sizes interpretable for colour blind users and on mobile?

3. Do the year slider and legend filter feel natural?

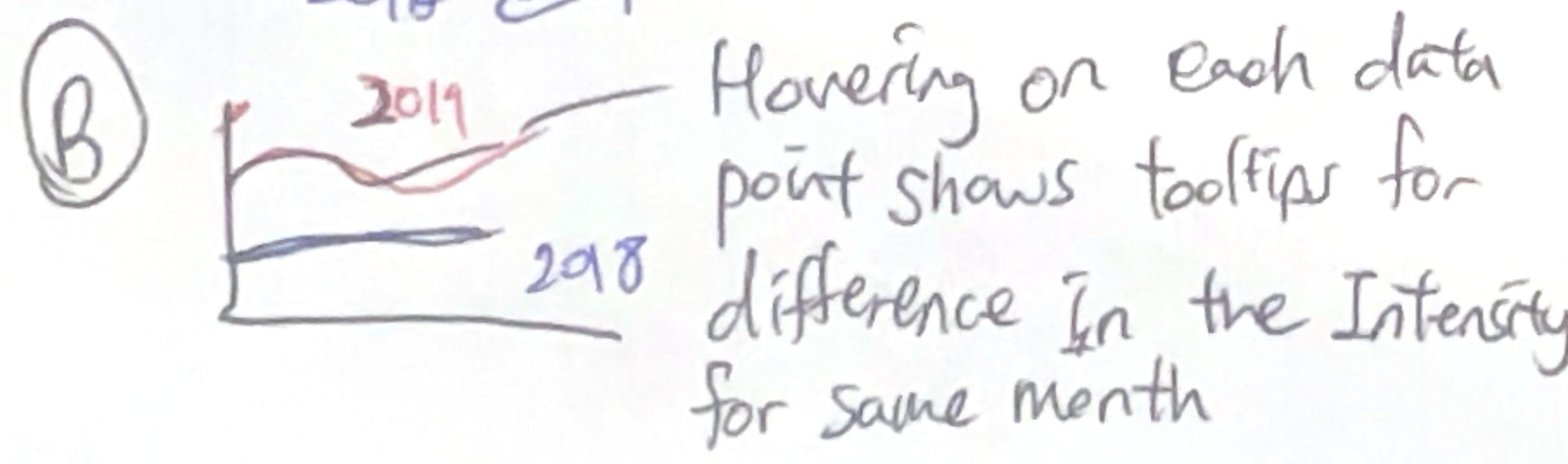
# NSW Bush fire Before & after Black Summer 2019



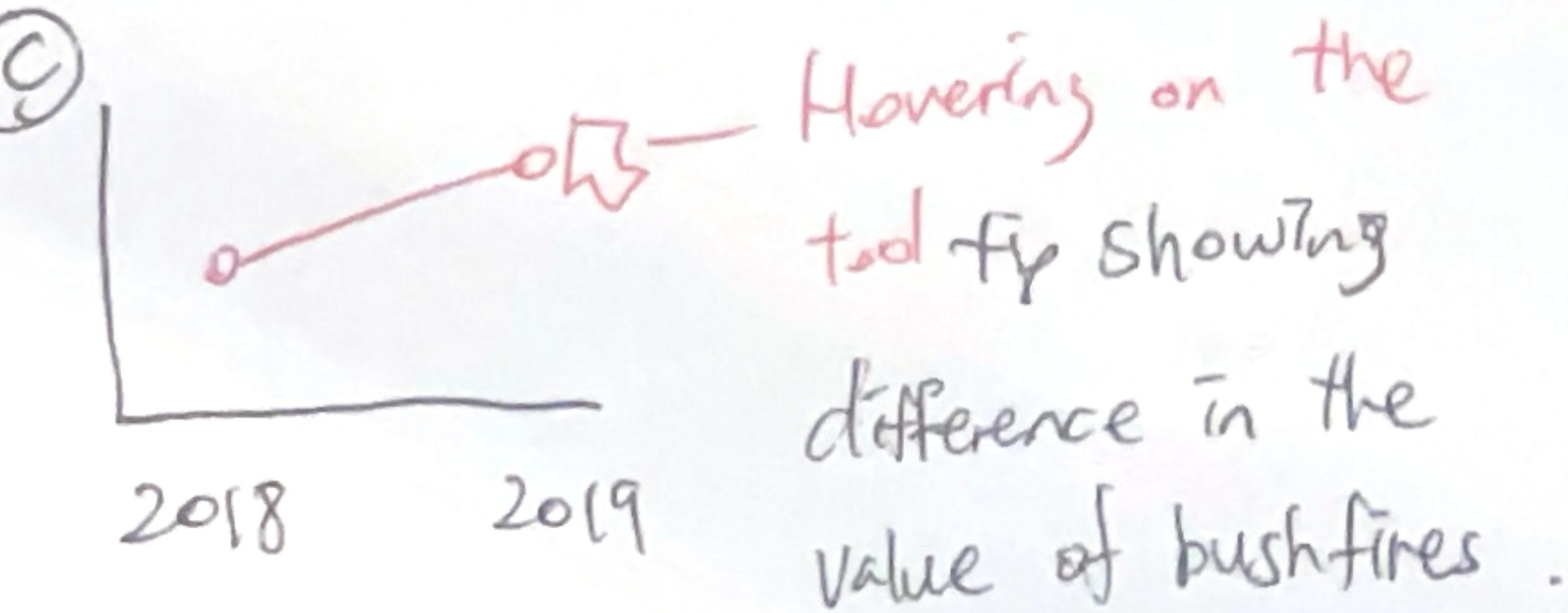
## Part / Focus



sliding vertical line  
showing the contrast  
before and after.



Hovering on each data point shows tooltip for difference in the Intensity for same Month



Hovering on the tooltip showing difference in the value of bushfires.

Sheet 2,3,4

Name Heejae Lim

Date 10/10/2025

Title NSW Bushfire Before &amp; after

Description Black Summer 2019  
NSW Bush fire Before & afterBlack summer 2019 comparing  
Intensity and Incident numbers.

Components / Operations

(A) : vertical slider line.  
using Vega lite  
and map rendered from  
TopoJson

(B) : seasonal trend for  
2018 and 2019  
x = Month (Jan - Dec)  
y = Num of Incidents.

(C) Two y = fire size  
x = Year (2018 &  
2019)

## Pro &amp; Cons

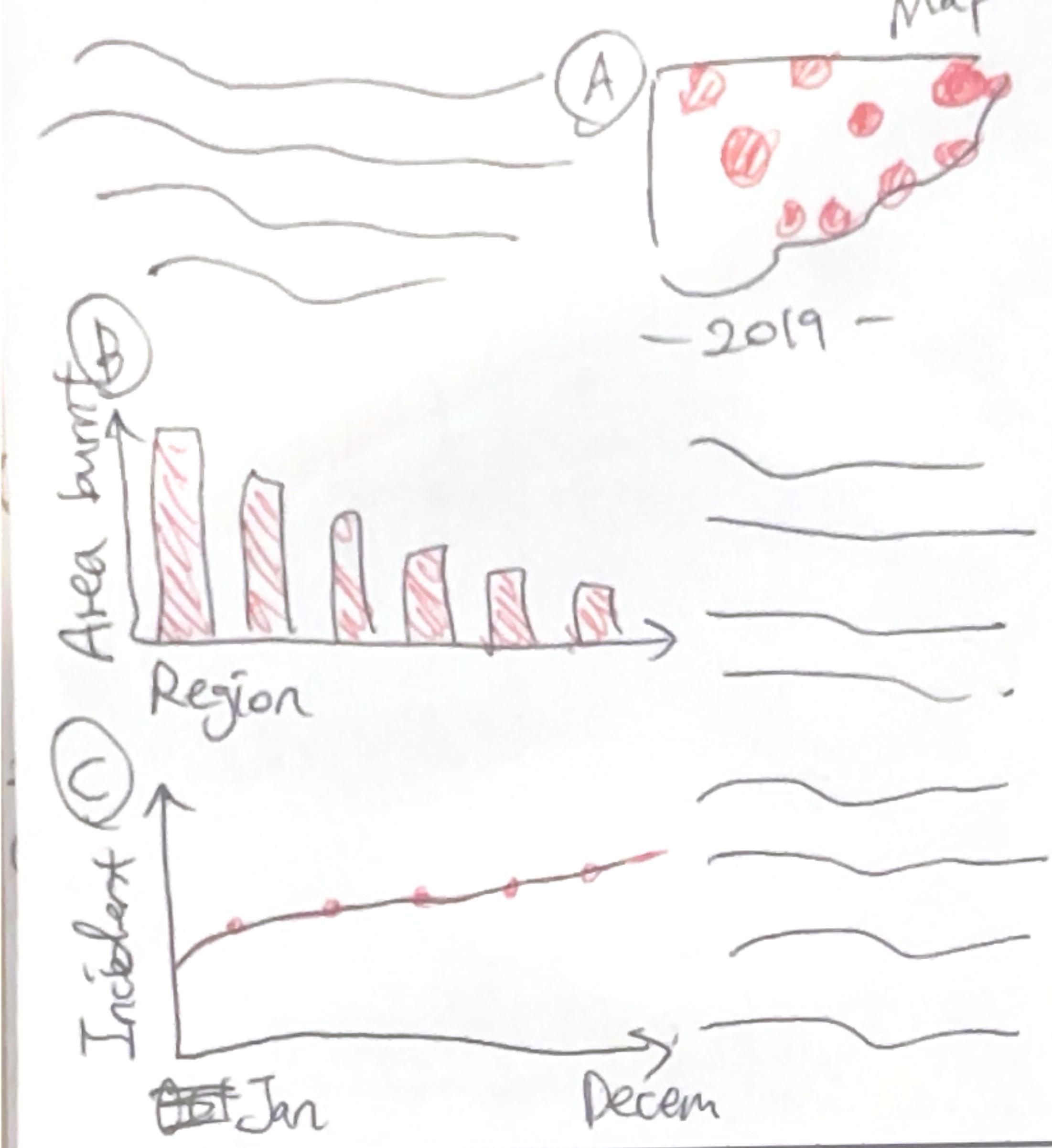
Pro : - Can show a strong  
contrast between  
2018, 2019 bushfire  
trend.

Cons = Focusing on 2018 - 2019  
only, the data is small  
contains small information

- (A) can be difficult to  
Implement with vega  
lite.

## NSW Black Summer 2019

## Hotspots &amp; Bushfire Trend for Map



## Part / Focus

**A**: Clicking on the centroids give Information tooltip.

**B**: Tooltip for each area burnt in regional area.

**C**: Clicking on each month shows # of Incidents In the month.

Sheet 2/3/4  
Name Heejae Lim  
Date 10/10/2025

## Title

Description  
**B**: Dashboard focusing on Black summer 2019 only.

## Components / Operations

**A**: Map using NSW TopoJson.  
& 2019 CSU file

**B**: x-axis: regional area in NSW  
y-axis: Area burnt

**C**: Number of Incidents by each month

x-axis: Month in 2019

y-axis: # of Incidents

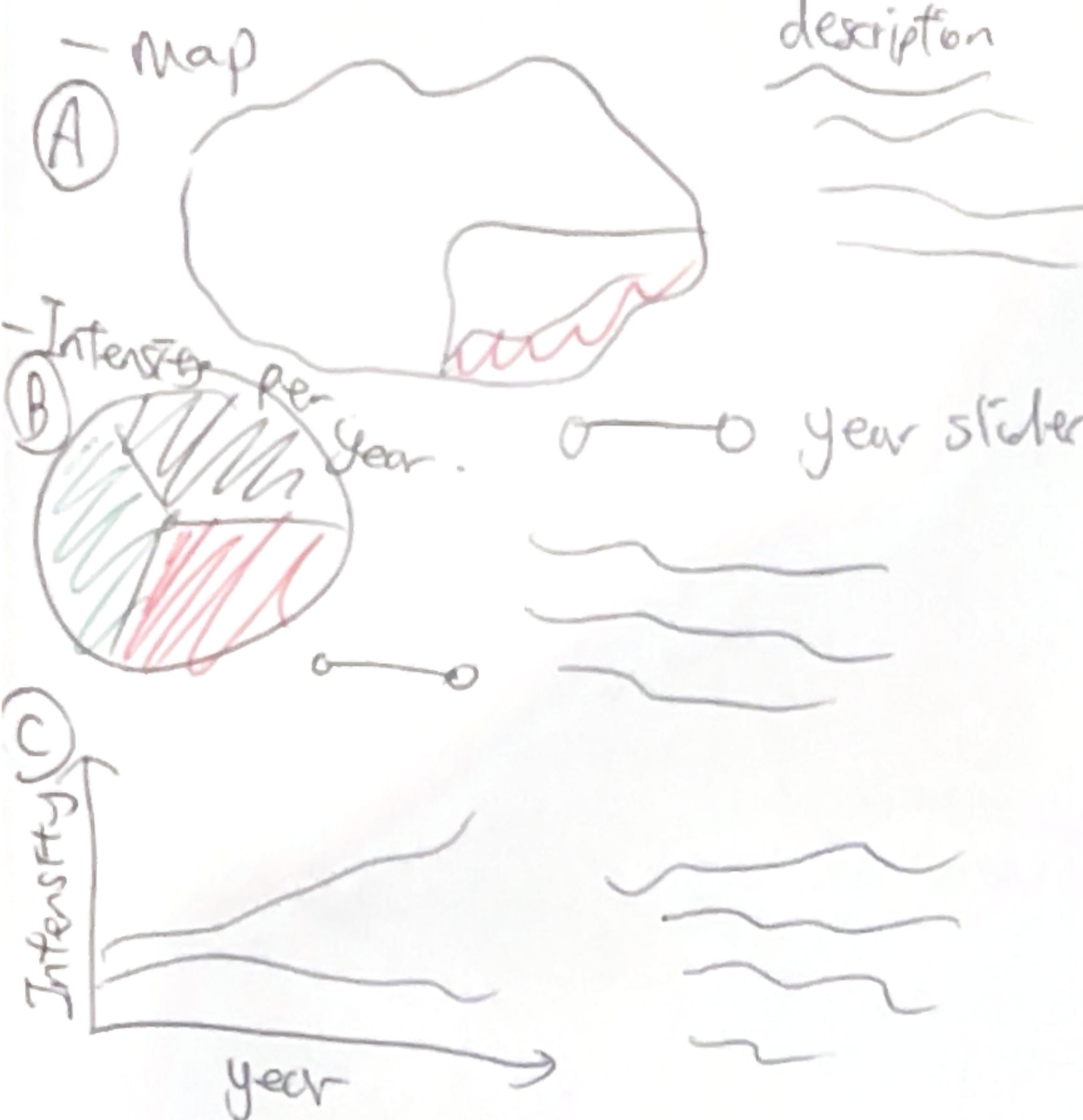
## Pro &amp; Cons

pro: Detailed analysis on Black summer 2019.

- more story can be included about each regional area

Cons: Dataset needs to be from multiple sources. to talk about In-depth story line in the dashboard.

## NSW Bush Fire (2010 - 2020)



## Part / Focus

- Map **A** Hovering tool tips.
- Sliding year directing into each years bushfire location **B**
- Hovering on each year gives tool tips. **C**

Sheet 2,3④

Name Heejae Lim

Date

10/10/2025

Title

NSW Bush fire

Description

NSW bushfire dashboard

Exploring data from 2010 - 2020

## Components / Operations

**A**: Map

- Mark - points or circles.

- Size - area of Intensity

- Filtered by year slider function.

**B**: Pie:

- Data: selected year

- filtered by year slider function

**C**: Line trend graph $y = \text{fire size}$   $x = \text{year}$ .

## Pro &amp; Cons

## Cons:

- Point overlaps ~~at~~

on crowded area could hide smaller incidents

pro: Year slider links view

tool tips give precise value.

consistent colour for bushfire

Big Picture / Layout

# Bush Fire In NSW

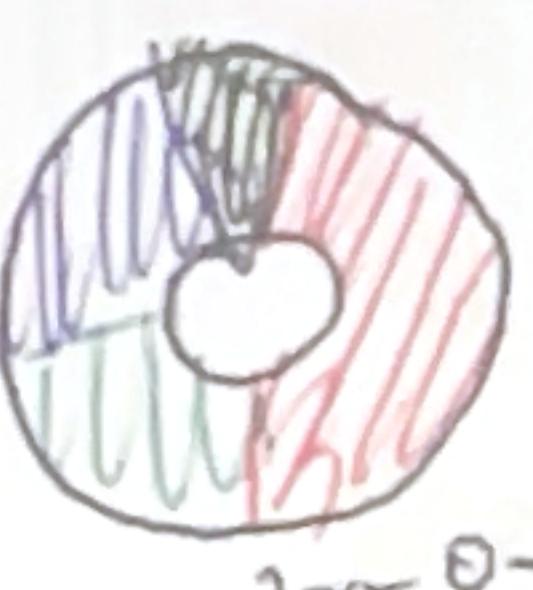
## Table of contents

1. ~

2. ~

3. ~

A) 

B) 

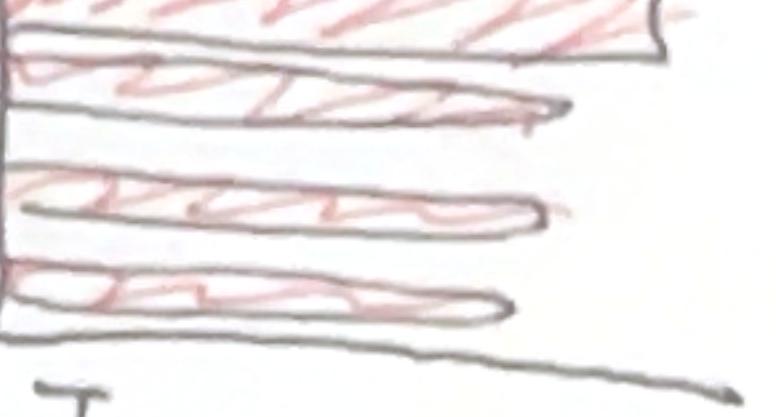
## Part / Focus

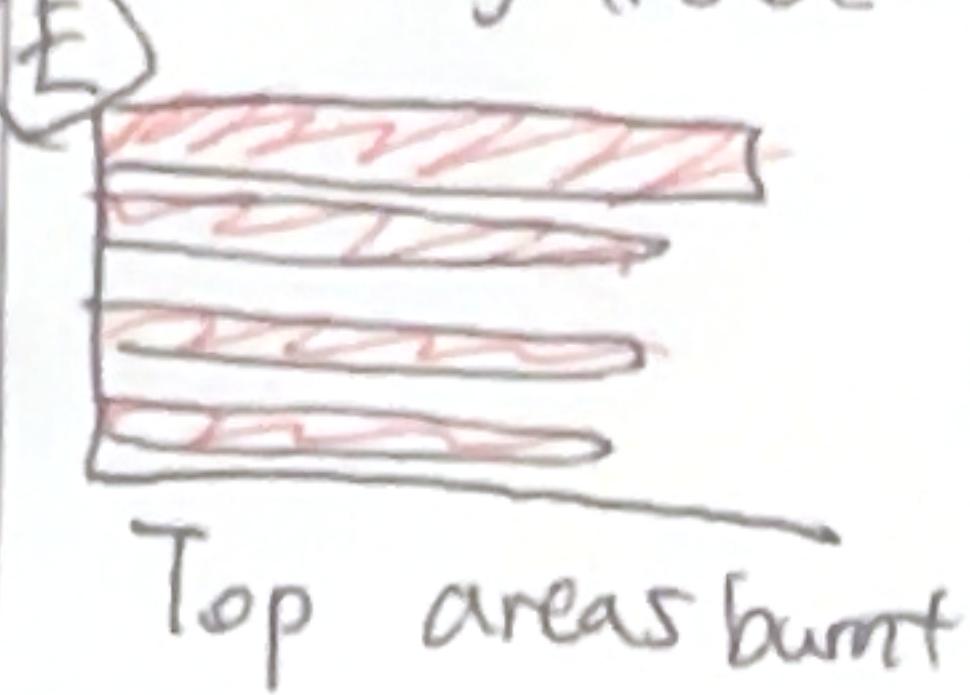
A)   
Hovering on the centroids gives information about fire name, year, type and year slider from area.  
2010 - 2019

B)   
Hover → Tooltip for area burnt  
2015 2017 - year slider.

C)   
Hover → Tooltip for category & Incident.

D)   
Hover → Tooltip for month

E)   
Hover → Tooltip for firename & start and end date



Sheet 5

Name Heejae Lim

Date 10/10/2025

Title Final Bush fire In NSW

Description

Care up with a layout that

Includes different aspects from each sheet 2, 3, 4.

## Components / Operations

A) Year slider using param function in Vega - light + Tooltip and TopoJson file for map

B) pie chart Including + Tooltip Severity portion per each year

D) Bush fire trend  
x-axis = each month from 2018 - 2019  
y-axis = Number of Incidents

E) planned vs wildfire  
from 2015 - 2019

E) x-axis = Regional area name  
y-axis = Fire Name in each area.

Details Scope & flow: Start wide the zoom in.

Starting from Broad years from 2010 - 2019 then narrow down to 2018 - 2019 then finally biggest fires from 2019 Black summer, ~~big~~ Good for Storyline.

Consistent colours

- Interactive tooltips and sliders.