# IDEAS

w) water waves → Bar plot. Time water bottles valve.

a) Bar chart

Burned area / Region

b) Pie chart

c) Donut chart

d) Scatter plot

Time / Area burned

e) Area chart

Area burned / Time

f) Tree map

g) Heat map

Time fire intensity / Region

h) Radar chart

W, Q, S, T, A

i) Line chart

Area / Time
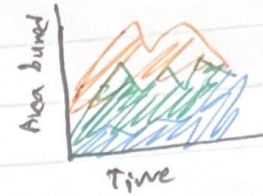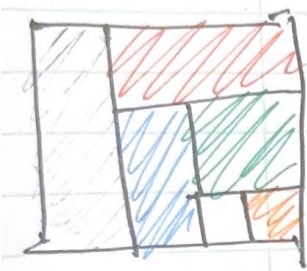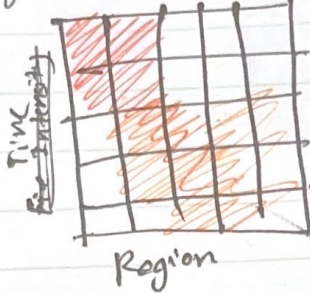
j) Dot density map - fire readings
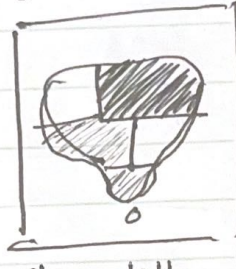
k) Chloropleth map - no. of fires

l) Bubble chart - animal species affected
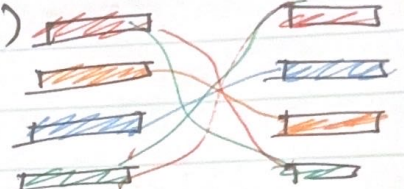
m) Sankey diagram - animal species affected

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# FILTER

c) Donut chart
  - Not necessary, pie chart would be easier to implement, shows same info.
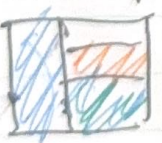
f) Treemap
  - Too Big, takes up too much space and bulky.

i) Live chart - area chart tells same story

# CATEGORISE

History of fires in Australia

↓

Impact

↓

Recovery
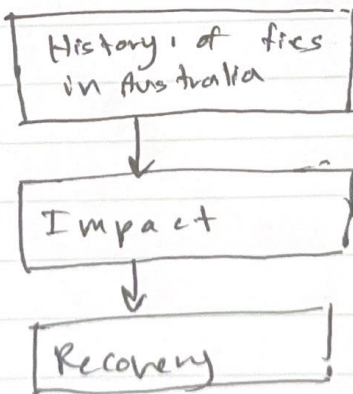
# QUESTION

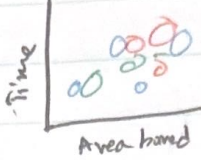- Is this viz telling a story?
- Is there a better way to visualise the forest fire data?
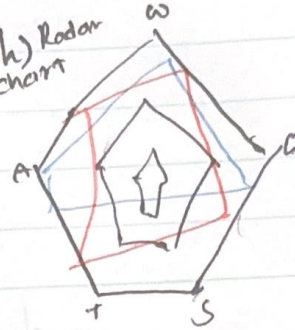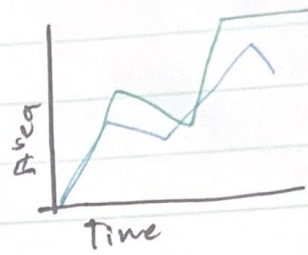
# COMBIN & REPAZ
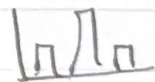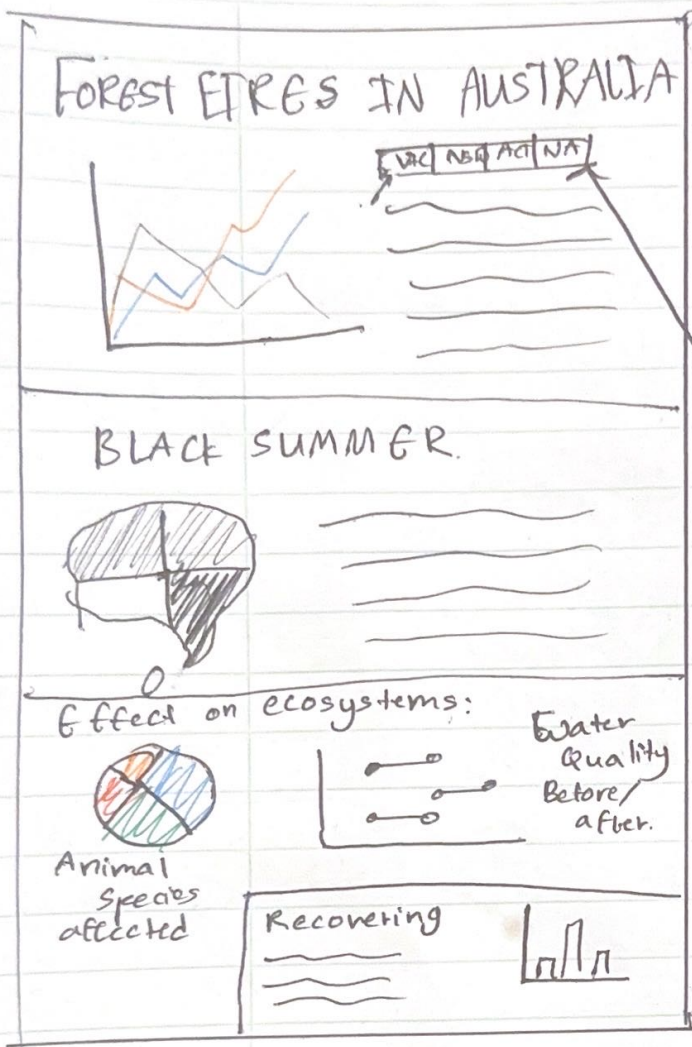
a) Bar chart

+

b) live chart

=

d) Area chart

# LAYOUT

FOREST FIRES IN AUSTRALIA

| VIC | NSW | ACT | NA |

BLACK SUMMER.

Effect on ecosystems:

Animal Species affected

Water Quality Before/ after.

Recovering

# OPERATION

- click to filter by state.

- This will filter the entire vizualisation to focus on a specific State.

# FOCUS

- The focus here is on the BLACK SUMMER section in the middle of the viz.

- The user is led on a journey through the viz, starting with the history of bushfires, talking about Black summer, its impact and recovery.

# DISCUSSION

## Advantages

- Good storytelling

- Idioms used are not complex, easy to understand.

- Overall good layout

## Disadvantages

- A chloropleth map may not be suitable for satellite fire data.

# LAYOUT

## FOREST FIRES IN AUSTRALIA



● Fire
▲ Recovery project.

Effect Over Time.



Region
Time

Wildlife

Population Logs
Time

Water Quality
pH
salinity

Use zoom filter to zoom in and out of the map

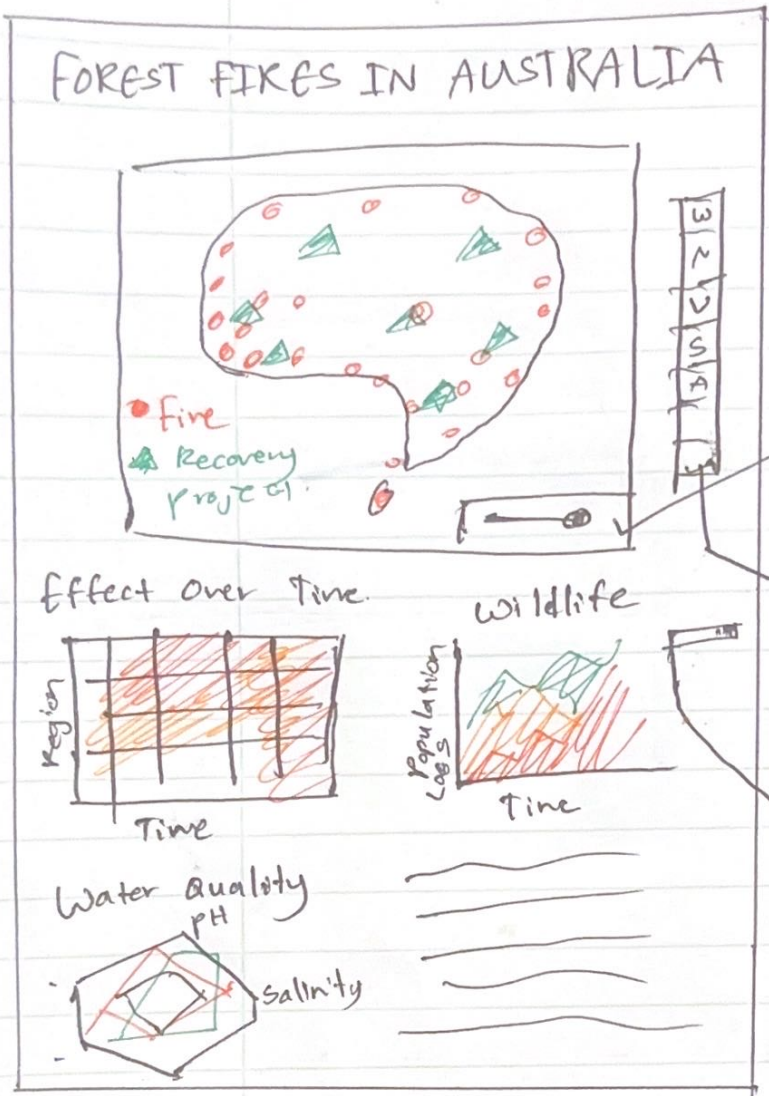Use to filter entire visualisation by state

Drop down to select type of animal.

# FOCUS

- The main focus here is the huge map of Australia that shows both Readings of bushfires and recovery projects.

- This catches the user's attention quickly and ~~allows~~ ~~them~~ draws them to further explore the viz.

# DISCUSSION

Advantages
- The use of a dot map is more appropriate for the satellite data.

- The radar chart for water quality before and after the fires is appropriate.

Disadvantages
- The map is too big, less space for other elements.

# LAYOUT

### AUSTRALIAN BUSHFIRE DASHBOARD

Most affected STATES

REGIONS

STATE ▾

YEAR ▾

HISTORY

WATER IMPACT

ANIMALS THREATEND

Clicking the state filter filters the entire visualisation based on state.

Clicking the year filter filters the entire visualisation based on year.

# FOCUS

- The focus here is the entire dashboard, there is less reading to do. Instead, ~~visual~~ almost all information is delivered visually through the charts used.

- The map in the middle grabs viewer attention, with all the charts around it building upon it.

# DISCUSSION

Advantages
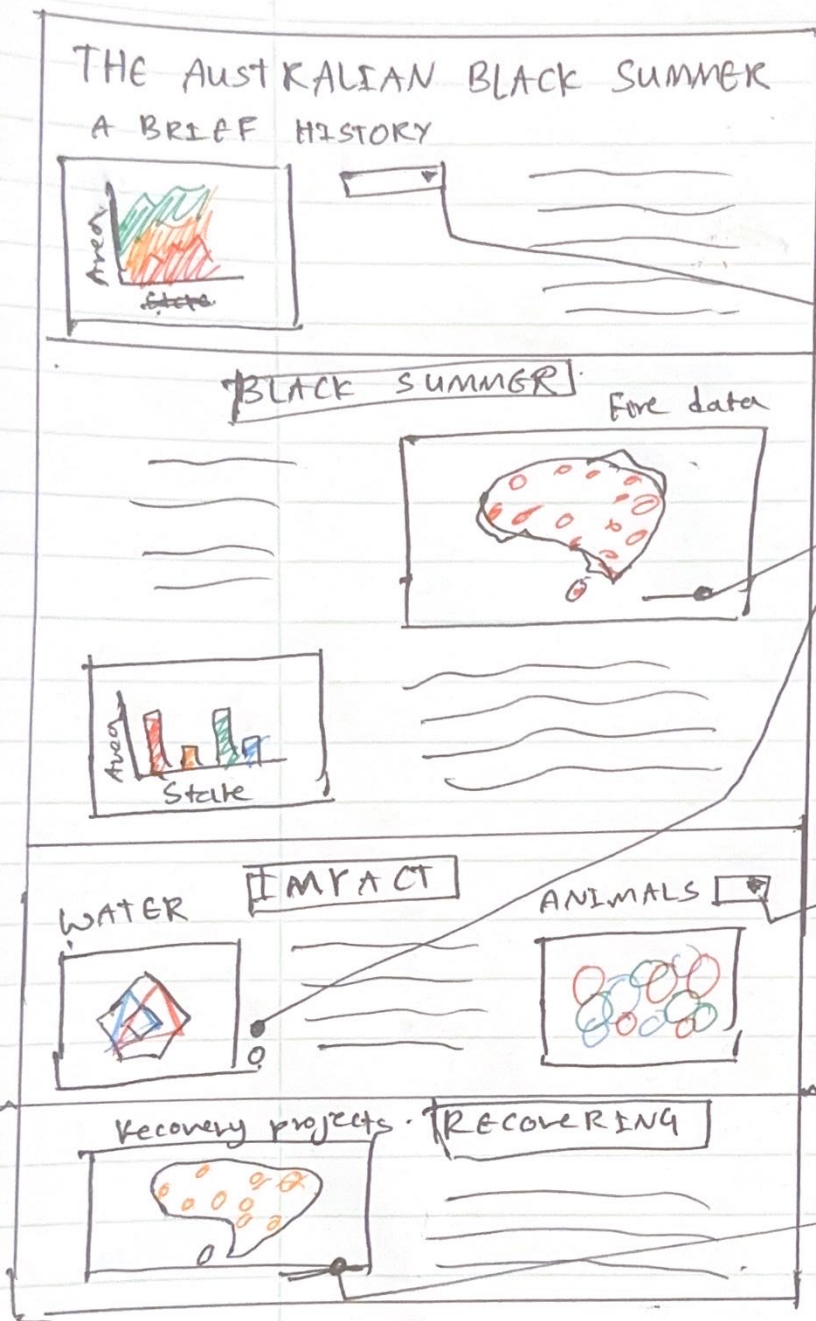
- The use of a bubble chart for the theatered animals section makes sense, with each species represented by a bubble.

- An area chart would be helpful and appropriate to present burned area.

Disadvantages

- Less narration, no story being told.

# LAYOUT

THE AUSTRALIAN BLACK SUMMER
A BRIEF HISTORY



BLACK SUMMER

Fire data



IMPACT

WATER

ANIMALS

RECOVERING

Recovery projects.

Click to filter by state.

zoom in/out of map

Click to filter befor/ after fires in order to see water parameters before and after the bushfires

Click to filter by type of animal (bird, fish etc).

zoom in/out of map.

# FOCUS

- The focus here is on the entire visualisation as a whole.
- The reader will be led on a journey from learning about the history of bushfires, to learning about the worst season (2019) to date, its impacts and ~~how~~ recovery efforts.

# DISCUSSION (DETAIL)

* Dependencies: Vega Lite will be used in VS code, in addition to HTML and CSS. Github will be utilized for webpage hosting.

Time to build: 3 weeks, for complete visualisation.