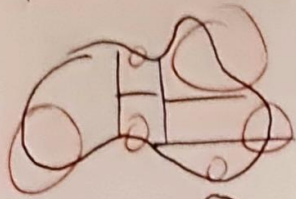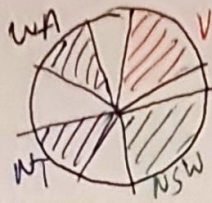# IDEAS, Shane Hettiarachchi
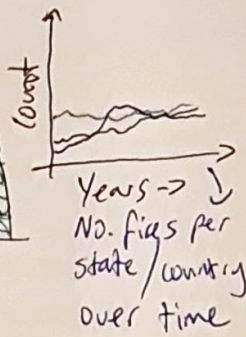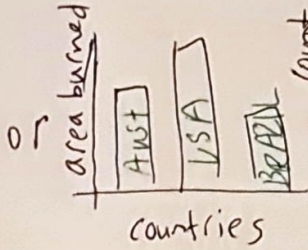
→ bubble size = fires / frequency / area burned

Pie chart which state has most fire

WA, VIC, WT, NSW

→ Bubble map
bubble = fire & saturation = count

area burn — Forest type

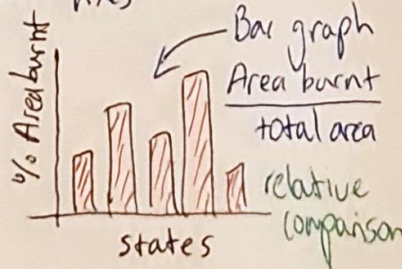or area burned — countries (Aust, USA, Brazil)

count — Years → No. fires per state / country over time

states — months
→ Heatmap shows which months have more fires

Geo heatmap
Saturated = more fires / area burned

% Area burnt — states
Bar graph Area burnt / total area relative comparison

FILTER
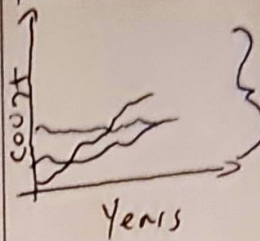
count — Years
overlap with bar graph

area burnt — Forest type

Geo Heatmap
overlap with Bubblemap But Less detail

CATEGORISE

Australia vs World
↓
State vs State
↓
Fire count + fire severity
↓
Within year comparison

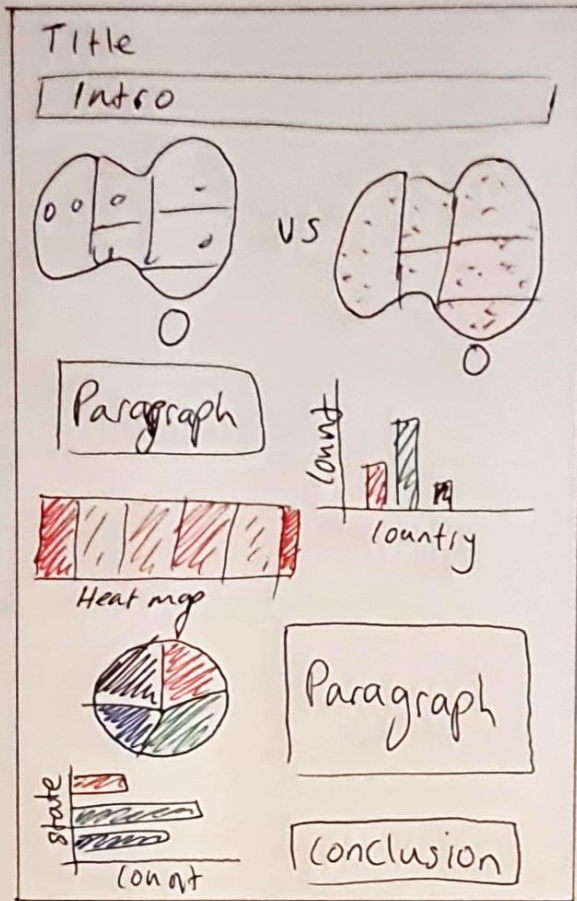# COMBINE & REFINE

state — month
Heatmap
→
Australia — month

Heatmap
Refine heatmap to entire Australia over the year for overall simplicity

QUESTIONS

1.) Does it answer? "where are the fires?"

2.) How do fires compare to other disasters?

3.) Are there any missing points that are relevant?

LAYOUT

Title
| Intro |

Paragraph

Heat map

Paragraph

Conclusion

Country (Count)

State / Count

VS

OPERATION

- Tooltips shown when hovering over data points

→ tool tips
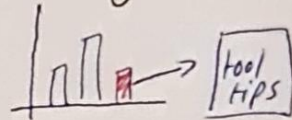
- Dropdowns to select data being displayed (Year, disaster)

DISCUSSION

Advantages

- Clear segments
- Good spacing between items
- Clear flow of information

Disadvantages

- Focus obscures after maps
- No clear narrative.

FOCUS

- Main focus → 2 map charts at top

- Focus shifts downwards

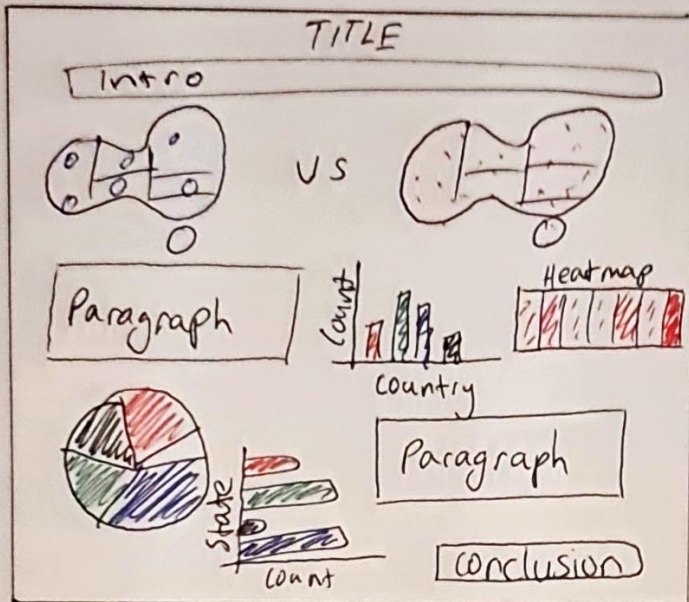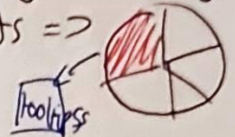- After maps, focus is shared with all other components

LAYOUT

LANDSCAPE ORIENTATION

TITLE

Intro

Paragraph | Count / Country | Heatmap

State / Count | Paragraph | Conclusion

VS

OPERATION

Tooltips will be displayed when hovering over any data points =>

Tooltips

- Ability to select specific data via dropdowns.

DISCUSSION

Advantages

- No need to scroll vertically
- All information same level
- Ample space for everything
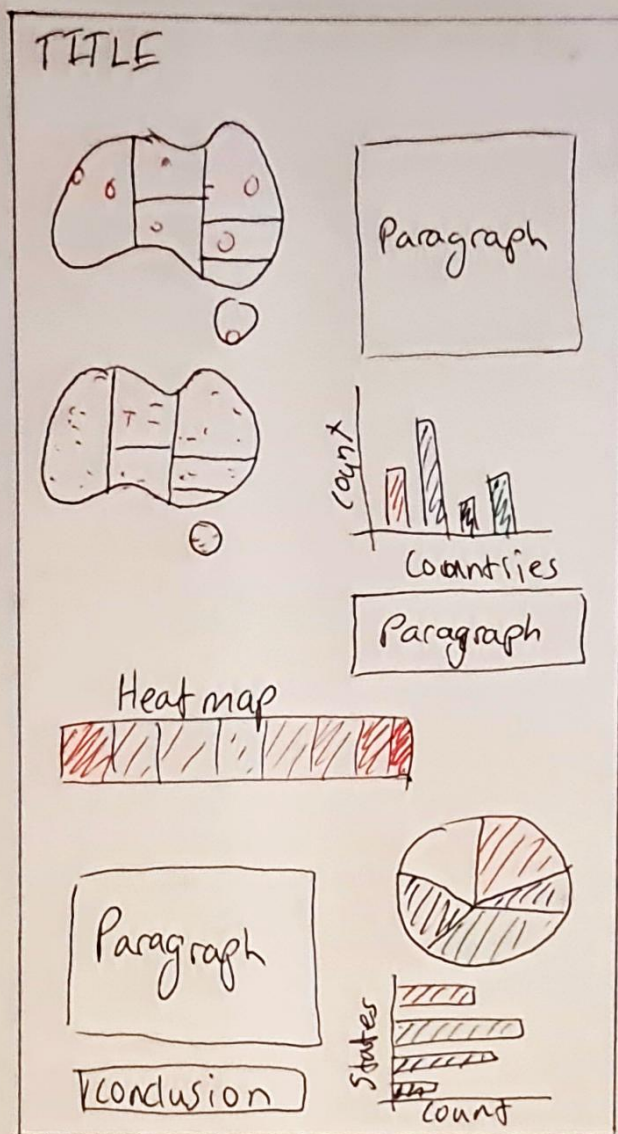 ⤷ not cluttered

Disadvantages

- After maps, focus obscures.
- No real structure
- Charts not really spaced out

FOCUS

- Main focus on the 2 map charts
- Focus then spreads to rest of visualisation

- Focus shifts horizontally
  ⤷ Like reading

LAYOUT

TITLE

Paragraph

count / Countries

Paragraph

Heat map

Paragraph

Conclusion

States / Count

OPERATION

Tooltips when hovering over any data point

Heatmap   tooltip
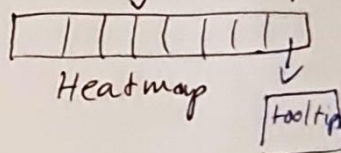
changeable maps to different data

FOCUS

- No <u>main</u> focus
  - └ But emphasis on the 2 map charts
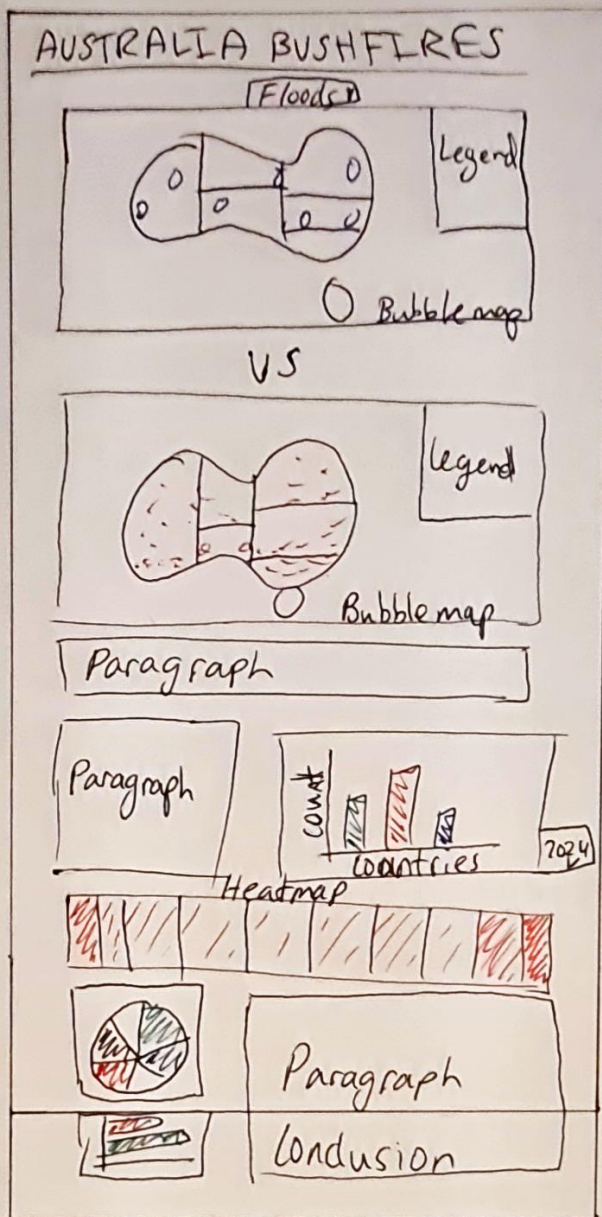
- Focus shifts downward

DISCUSSION

Advantages
- Not clustered / roomy
- More narrative
- Clear path to follow

Disadvantages
- Too much white space
- too little words
- No real focus

LAYOUT

AUSTRALIA BUSHFIRES

Floods

Legend

Bubble map

VS

Legend

Bubble map

Paragraph

Paragraph

count

countries 2024

Heatmap

Paragraph

Conclusion

OPERATION

Disaster → Above first map
A drop down to select
which disaster to display

Year → Near country
box bar chart to select
different years.

Hovering over any
data vis will show
tooltips.

tooltips
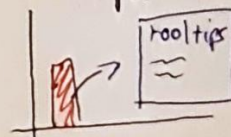
FOCUS

- Main focus on initial 2 maps charts
  ↳ Highlight main point of visualisation

- Focus shifts naturally downwards

- Paragraphs aid understanding.

DETAILS

Dependencies
- Vega lite   - HTML
- VS code   - Typescript
- Dataset (CSV/JSON)

Estimates
- 2 weeks / no money

Requirements
- Computer
- Datasets