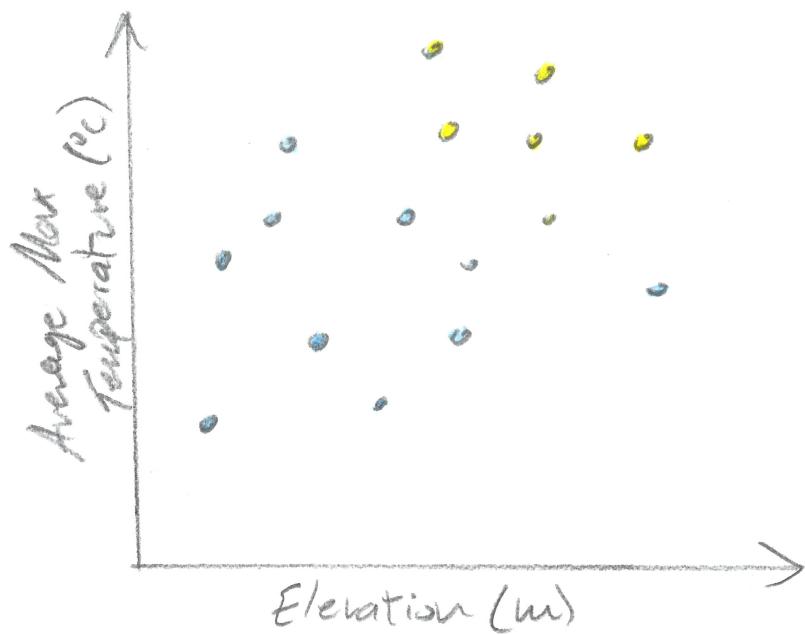


## IDEAS

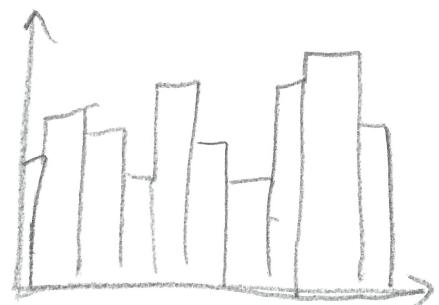
- Map of Australia with geospatial locations of weather stations.
- Scatterplot of max average temperature vs elevation.
- Explore how maximum temperatures are distributed among states and territories.
- Histogram to show trends in temperatures over last few decades.



Select State:

- Determine whether stations with higher elevation have lower average max temperature.

## FILTER

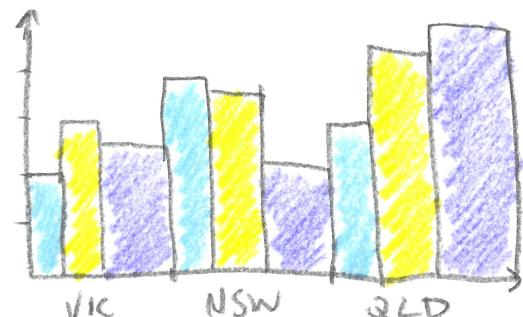


Filter by state

- VIC - NT  
- NSW - WA

## COMBINE AND REFINED

- Bar chart with multiple weather and station metrics.



Metric 1      Metric 2  
Metric 3

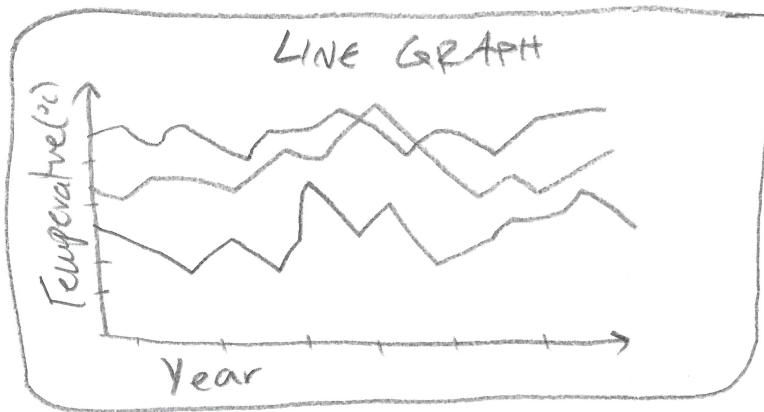
## QUESTION

The solution satisfies the aim of displaying weather statistics at all 112 Australian weather stations??

# LAYOUT

Australian Climate Visualisations (74-19)

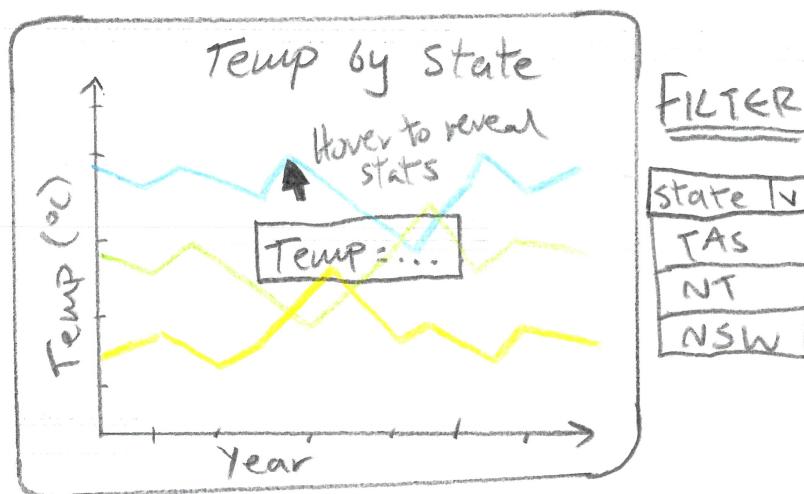
INTRODUCTION



## Focus

Victoria Queensland

Tasmania



- Enables flexible comparison of average max temperature between states over last few decades.

Title: DV2 FDS

Author: Geve Androulacos

Date: 20/10/25

Sheet: 2

Task: Visualise Acorn-SAT Station data

## OPERATIONS

- Tooltip to highlight key statistics
- Lines can be changed by state for analysis
- Temperature trends can be better understood by state.

## DISCUSSION

Advantages-

- Easy analysis of state temperature trends.
- Highly flexible

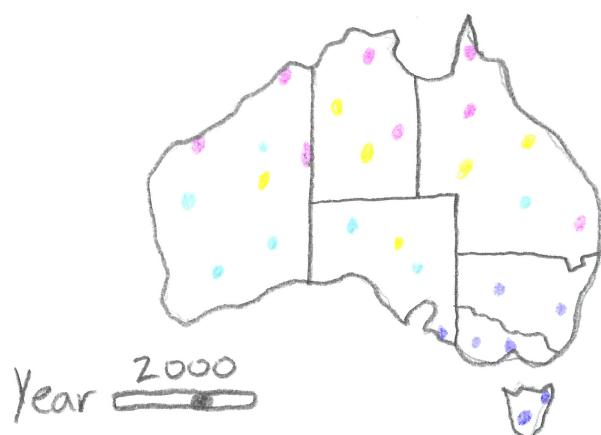
Disadvantages -

- Can become visually cluttered with many states selected at once.

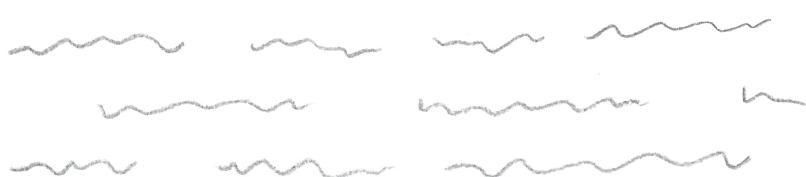
## LAYOUT

### AUSTRALIAN ACORN-SAT DATA DASHBOARD

#### NATIONAL MAP



#### MAP DESCRIPTION



## Focus



- Effective when analysing geospatial distribution of stations and temperatures.

Title: DV2 FDS

Author: Geeve Andronikos

Date: 20/10/25

Sheet: 3

Task: Visualise ACORN-SAT Station data.

## OPERATIONS

- Tooltip to identify station location and temperature.
- Year slider to see how the temps have changed throughout the years.

## DISCUSSION

Advantages -

- Provides an easy to read geospatial idiom.
- Highlights temporal data trends.

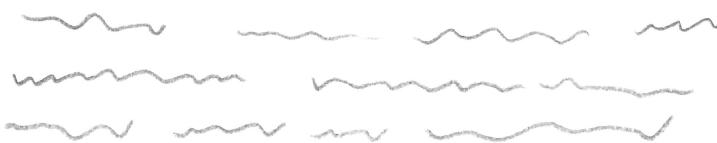
Disadvantages -

- Station points can become cluttered in high density station areas.

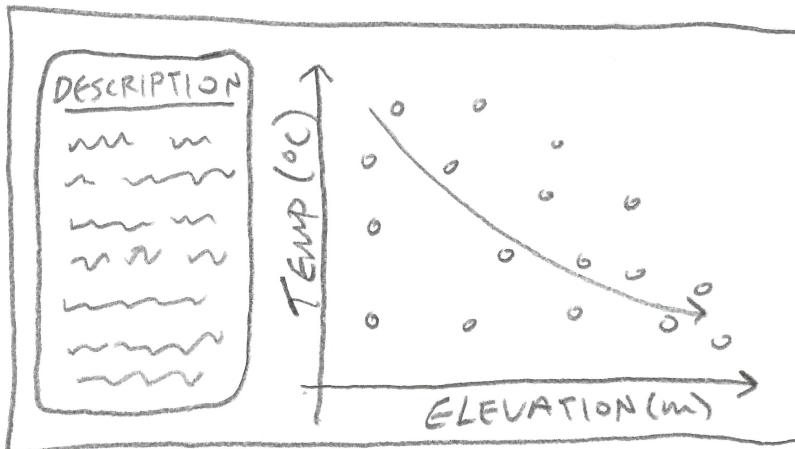
# LAYOUT

## AUSTRALIAN CLIMATE VISUALISATIONS

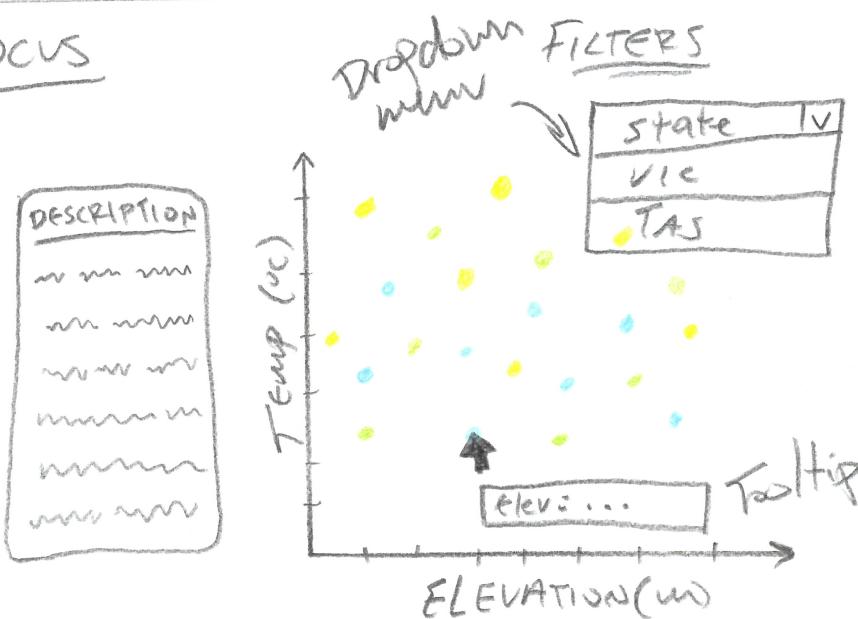
### INTRODUCTION



### ELEVATION VS TEMP



# Focus



- Description box enables analysis of trends and points.
- Allow us to see relationship between max temperature and elevation.

Title: DV2 FDS

Author: Breve Androultss

Date: 20/10/25

Sheet: 4

Task: Visualise ACORN-SAT station data

# OPERATIONS

- Tooltip to highlight elevation and temp.
- State Filter to select stations from specific state.

# DISCUSSION

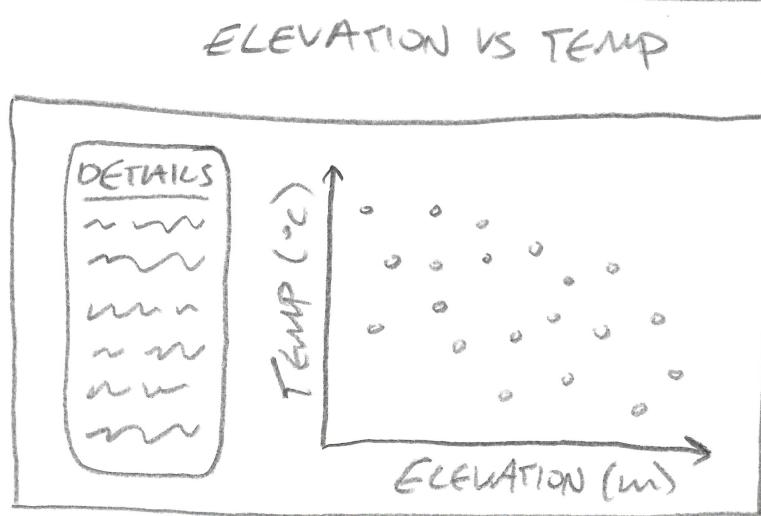
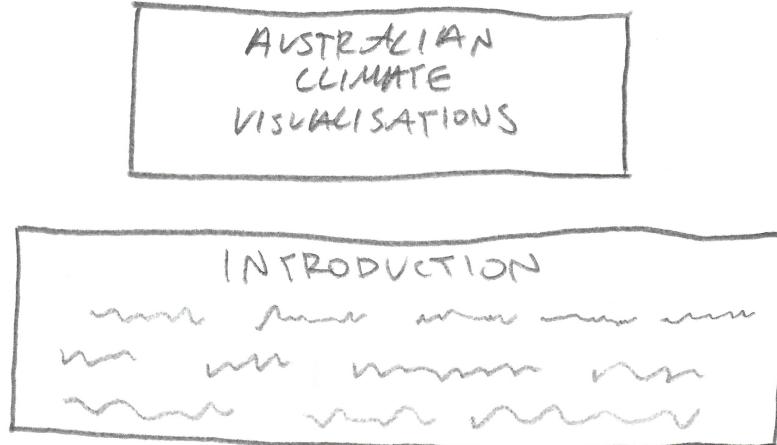
### Advantages -

- Description box enables easy analysis for viewers.
- State filter for added analysis options.

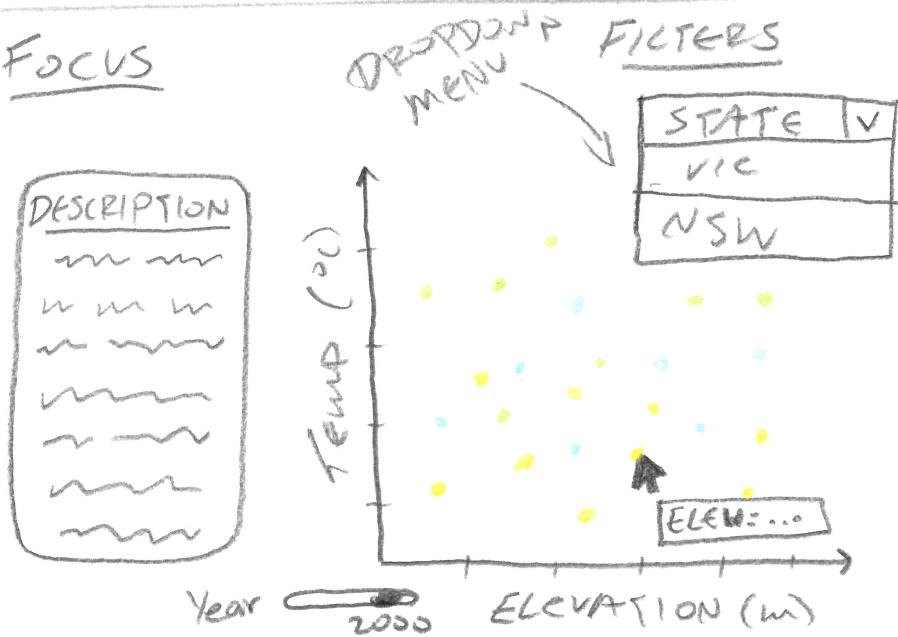
### Disadvantages -

- Points can become visually cluttered.
- Description dependent on state selection.

# LAYOUT



# FOCUS



- The visualisation allows us to analyse the relationship between Temp and elevation.

Title: DV2 FD2  
Author: Geve Androultsos

Date: 20/10/25

Sheet: 5

Task: Visualise ACORN-SAT station data.

# OPERATIONS

- User selects "vic"  
→ Stations in Victoria appear.
- User selects "2000" on slider  
→ All station elevation and temp values in Victoria in year 2000 appear.  
→ Tooltip shows elevation, station name, temp, and state

# DETAIL

Algorithms/Techniques -

- Overlay state data.
- Normalise data.

Dependencies -

- Must be compatible with multiple d3.js branches and window sizes.

Estimates -

- Data wrangling (1 hr)
- Scatterplot (3 hrs)
- Operations (1 hr)

Requirements -

- Standard desktop hardware and display res for features