

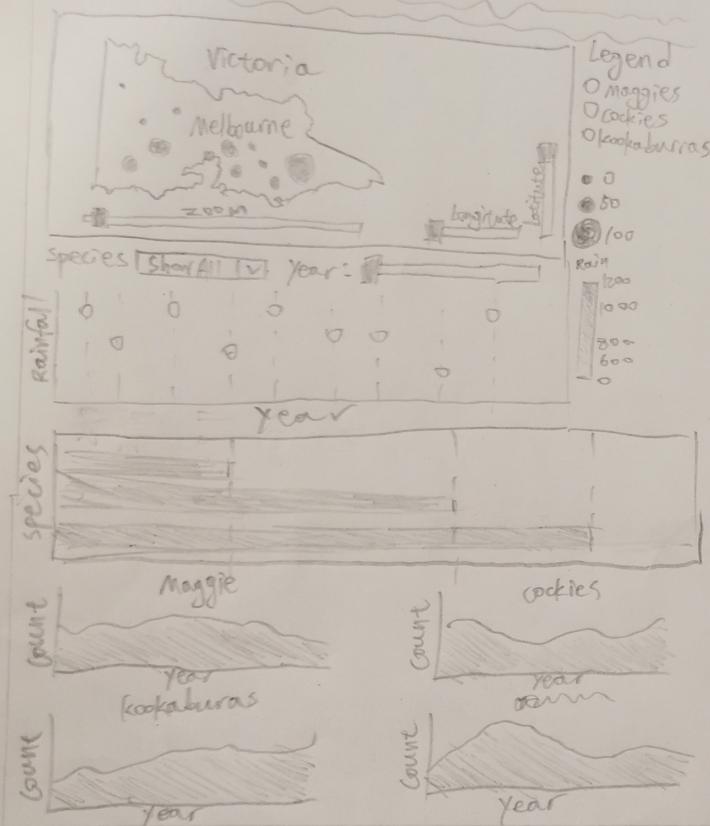
LAYOUTS

By zixian Huang
6/10/2025
sheet 5

OPERATIONS

Based of sheet 4:

Intro in Australian Bird Observations



FOCUS

As the final layout is based off of sheet 4 which is balance, this sheet does the same, but separates stack charts together for more clear visuals to avoid confusions.

All sliders are only for controlling maps, for less move menus.

species:
 Show All

drop down window for map only.

click select filtering for correlation graphs below.

Maybe:

maybe interval filtering.

DETAILS

needs:

Visual studio code or Vega-lite
2 data sets and working browser

ETA:

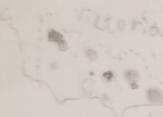
1 week for each major implementation
↳ 1 for coding in Vega-lite
1 for HTML coding
and 1 for refining.

IDEAS

By Zixian Huang
2/4/2025

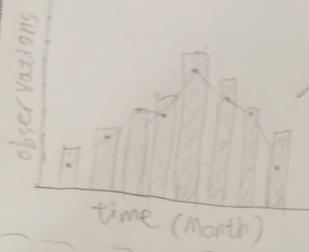
Sheet 1

Heat Map



Shows distribution & densities of birds in Victoria. Dot scaled by count for size. Species classified with blue.

line + column



Show major seasonal migrations in/out of Victoria of specific type of bird.



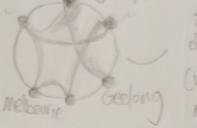
travel trends of different birds (would need precise location data)

Stacked area chart



Compare the amount of observations of different birds across a period of time

Chord graph

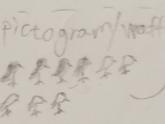


flow of birds to different regions?

(Would need specific regional data)



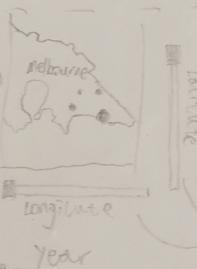
pictogram/mosaic chart



compare neighbor's observation: easy and readable alternative.

Name: Show All

Traditional drop down window for bird type filtering



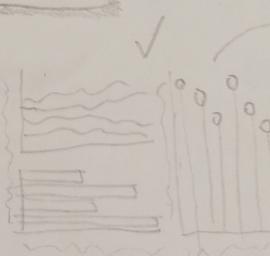
FILTERS

COMBINE
REFINE

Dropouts:



Combine:



Questions:

How would I clearly show the effects of rain on bird observation if it does not show clear signs? How much is not too much filters/visual clutterers on the graph?

I chord graph, pictogram and flow map are not suitable for this viz in my opinion due to either having too high of a Data-inks ratio or too hard to implement.

Heat maps are also not a good idea due to too large of a data set of coordinates in the data.

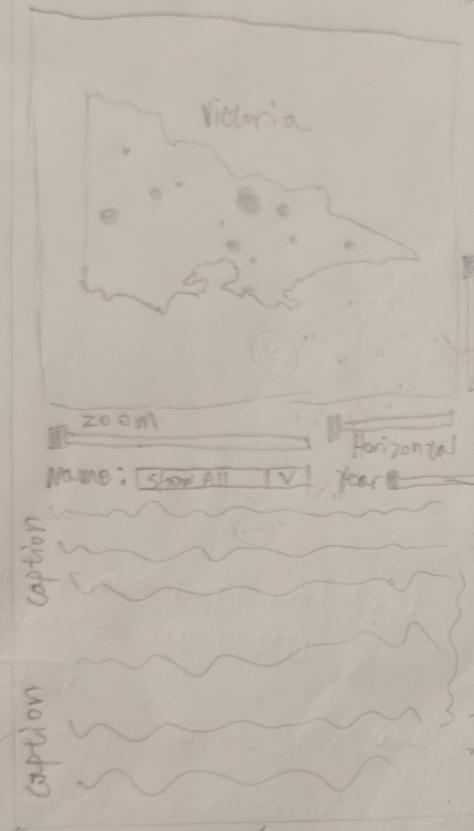
A combination of small/simple charts will work better & show more clearly than a cluster of multiple charts stacked together.



LAYOUT

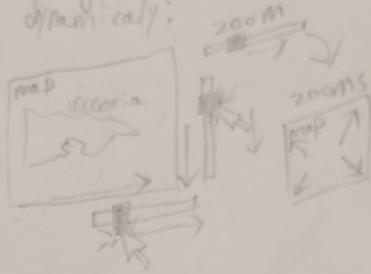
By Zixian Huang
2/10/2025
Sheet 2

Australian Bird Observations



OPERATIONS

Camera position sliders:
Changes camera latitude
dynamically:

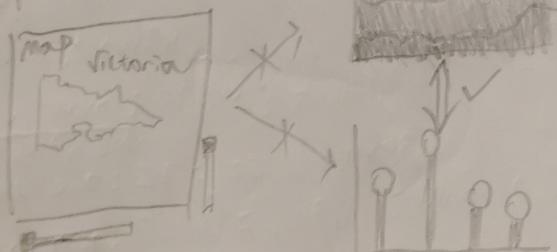


Clicking on any object
on both the correlated
graphs focuses on that
selected object for both
graphs



FOCUS

The Focus is on the Correlated graphs, functioning together for the best comparison experience. And the map is separated by itself for more in-depth exploration.



The Good:

Readers can better focus on the presented data instead of exploring on the map by themselves.

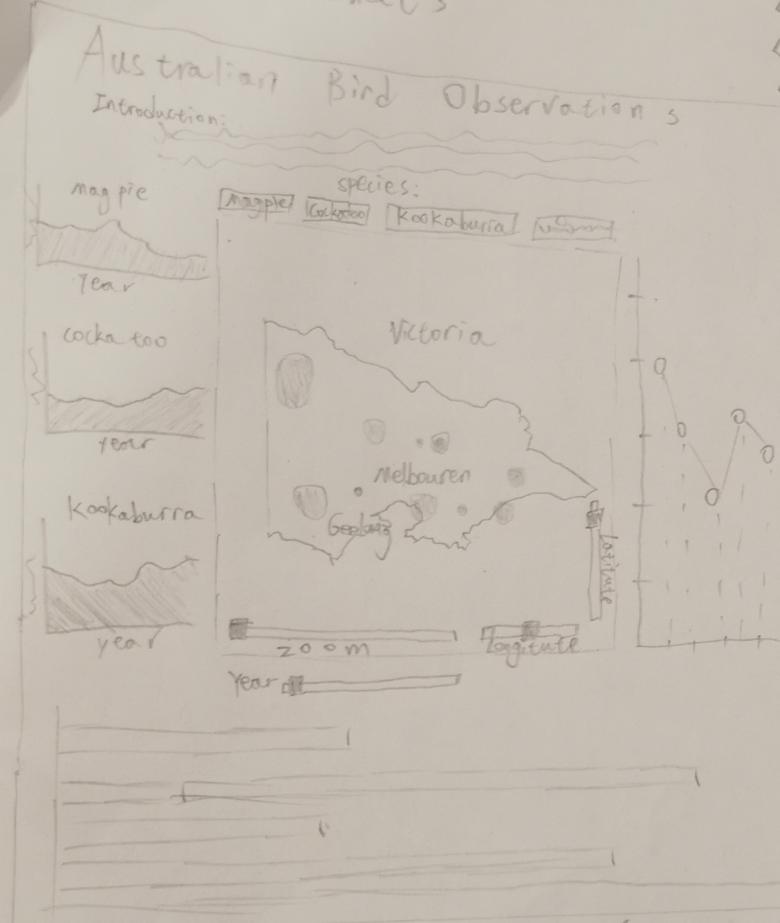
The Bad:

Unbalanced graph placements and less interactivity with the map since the caption made up a lot of the space on the dash board.

DISCUSSIONS

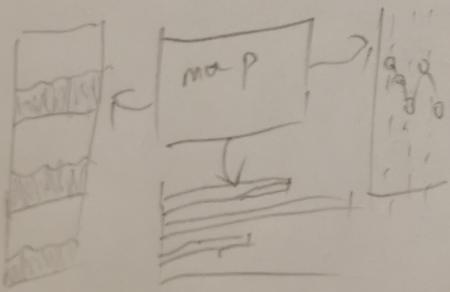
LAYOUT

By Zixian Huang
3/16/2025
Sheet 3



FOCUS

This layout design is very clearly map focused as other small graphs surround the map. As the map is like a center control that controls other graphs.



OPERATIONS



changing the year slider for the map also changes graphs around it.



clicking the dots on the map or the species filter buttons on top filters every graph by species

The Good:

DISCUSSIONS

very catchy with a big map in the middle and very interactive as it is linked for all graphs.

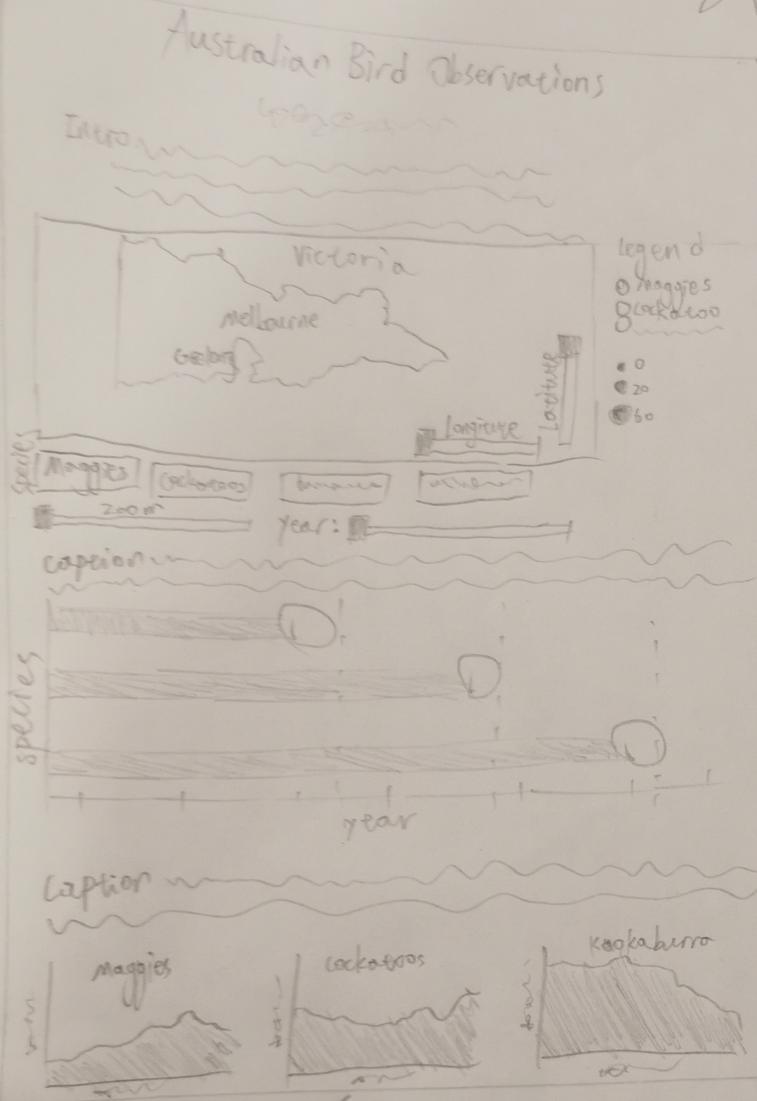
The Bad:

limited writing spaces for annotations and discussions. graphs are distorted due to having not enough space around the map.

AYOUT

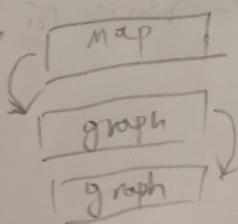
By zixian Huang
4/10/2025
sheet 4

OPERATIONS



FOCUS

enthesis on balance as storytelling, where the Top idiom is the order from top to bottom.



sliders are only controlling the map.



interval filter where you drag a range filter.

Magpies

Cockatoos

Kookaburra

species buttons: click to filter species.

DISSCUSSION

The Good:

A very clear hierarchy and order is within this layout design, this will guide the users smoothly, all idioms are balanced

The Bad:

The clustering of graphs stacked on top of each other can still be confusing.