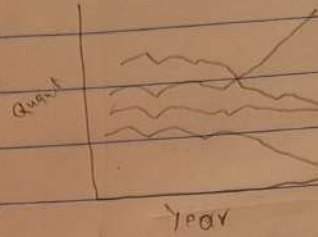
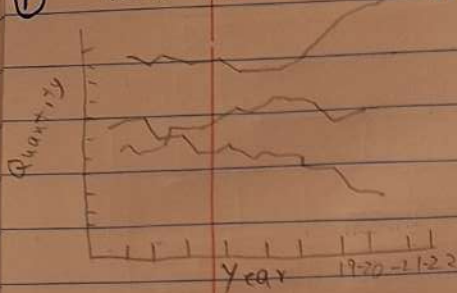


Sheet 1

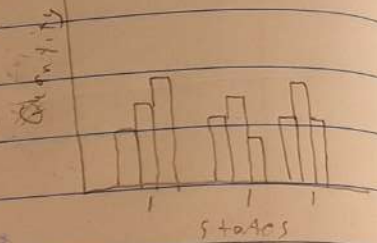
Ideas

① Total animal number by year

② State animal numbers by year



③ Animals - bar chart - states



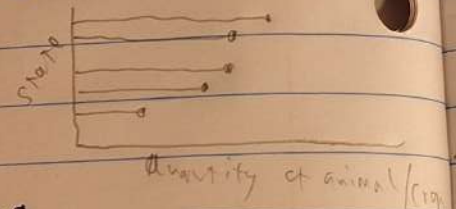
④ Production by state

⑤ % of land used for crops

"Not as Avg-like ④"

⑦ 2022 - State comparison

⑥ Crop / animals in a state

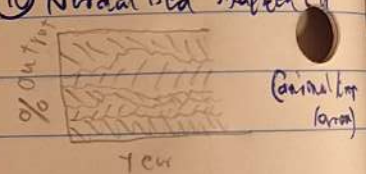
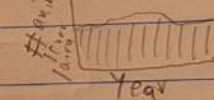


⑧ Coloured Scatterplot (Crops)

⑨ Area chart

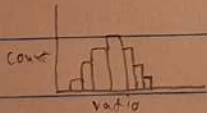
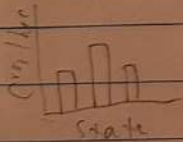
⑩ Normalised stacked

⑪ Crop tonnes per hectare



⑫ Crop/hectare histogram over time

⑬ Crops/animals treemap



⑦ & ② express

Filter

over the years = 1, 2, 9, 10, 12

Categorise

Combine & Refine

same data, ② shows more of it

crops (tonnes) = 4, 6, 7, 8, 9, 10, 11, 12, 13

①, ②, ③, ④, ⑤, ⑥, ⑦, ⑧, ⑩, ⑪

- ⑥ & ⑦ are interchangeable

crops (hectares) = 5, 11, 12

could interchange animals

- ⑪ & ⑫ are similar

animals (quantity) = 1, 2, 3, 4, 6, 7, 9, 10, 13

1 crop & 1 types

⑫ has more data

states = 2, 3, 4, 5, 6, 7, 11

- ⑧ & ⑬ could be shown

but ⑪ has more specificity

Countries = 1, 4, 5, 8, 9, 10, 12, 13

together due to

- ⑧ may be difficult to read / identify trends

Should I focus on data changing over time?

Similarities

- ⑤ & ④ are quite similar

- I think so, it helps

- ⑨ is unnecessary

- ⑨ fits shows less

with storytelling

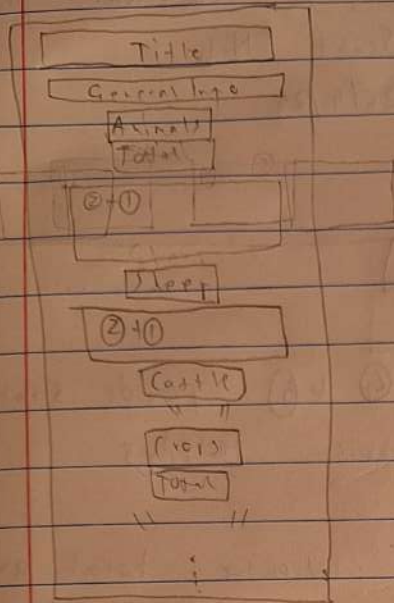
- with sorting, ③

than ①/② with

little to no benefit.

Sheet 2

Layout



Summary

Title: Change over time focus

Author: Scott Hill

Date: 26/9/24

Sheet: 2

Operations

- all idioms would have appropriate tooltips, highlighting precise values
- ②① = a combination of the two charts

Focus

"Change over time"

The Layout focuses on the crop & animal values as they change over time

~~Alternative~~ In addition the vertical hierarchy provides clear structure & story telling to the visualisation

Alternatively idioms that don't include year-spanning data could be included

- this would make the layout less focused

Discussion

Pros:

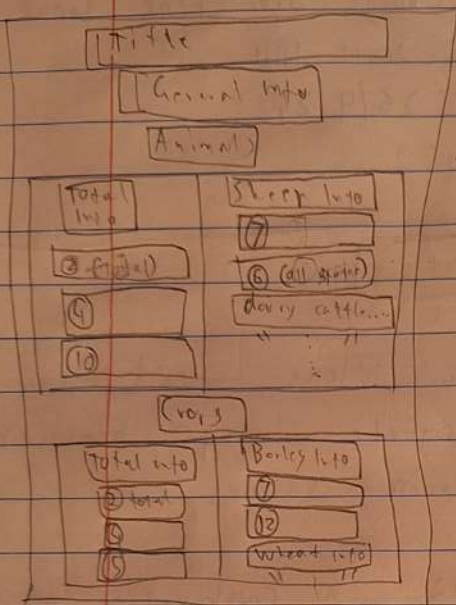
- Clear focus on change over time
- Vertical layout provides clear structure & direction

Cons:

- Too simple
- needs more variety & complexity of idioms
- Could take up too much space vertically

Sheet 3

Layout



Summary

Title: Category breakdown focus

Author: Scott Hill

Date: 26/9/24

Sheet 3

Operations

— Angs ④ & ⑤ provide state details in their tooltips

— ② (Total) indicates total animals by state, instead of ^{one} animal type

Focus

Categorical

Focus

This layout focuses on ~~break~~ breaking the page into sections based on categories (Animal/crop) & (Total/Specific type)

Discussion

Pros:

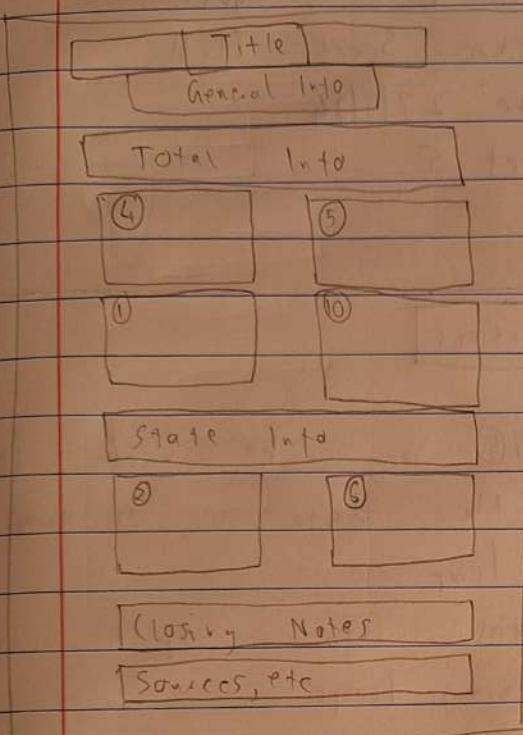
- Clear signposting
- Clear categorical breakdown
- Provides more details than sheet ①
- ~~Many~~ Variety of idioms

Cons

- Could become left/right unbalanced
- Heavy focus on categories draws away from the change-over-time

Sheet 4

Layout



Summary

Title: State comparison Focus

Author: Scott Hill

Date: 26/9/24

Sheet: 4

Operations

- (4) would have a selector for animals/crops
- State Info section would have a selector for the state

Focus State comparison Focus

The Layout focuses on ~~providing~~ providing a total summary section, & a state summary section, giving insights to individual states

Discussion

Pros:

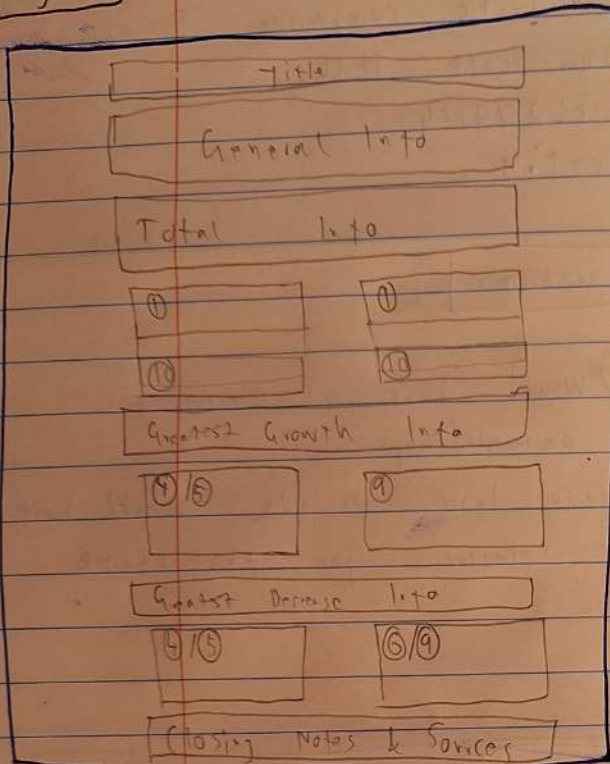
- Symmetrical structure
- well balanced
- Clear sight lines
- Concise overview section

Cons:

- No clear story being told
- Lots of using selectors to see all data available

Sheet 5

Layout



Focus

Combination of structure, layout, elements, and storytelling

- Change-over-time focus from Sheet 2
- Page structure from Sheet 4
- Story telling focus combination of Sheets 2 & 3

- I chose to focus on change-over-time for storytelling purposes

- I chose to ~~focus on~~ use a similar structure to Sheet 4 to support readability & the growth/decline storytelling narrative

Summary

Title: Final Layout
Author: Scott Hill
Date: 27/9/24
Sheet: 5

Operations

- ④/⑤ may be used if the data is an animal loop
- Total info is split into animal loops

Detail

Dependencies

- Github for hosting
- HTML, CSS & Javascript for structure & layout
- Vega-lite for graph construction

Estimates:

- (1-2) days to build charts
- (2-3) days to construct & style the ~~data~~ page layout

Requirements

- Scrolling functionality for vertical space