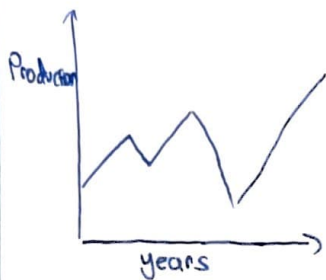
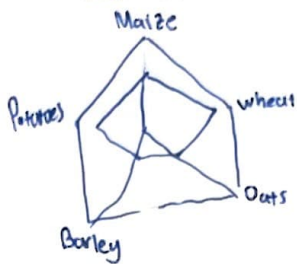


IDEAS

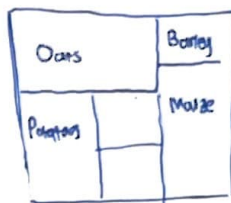
• Line chart



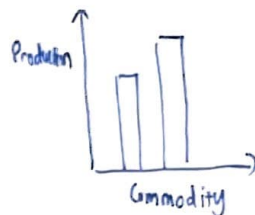
• Radar chart



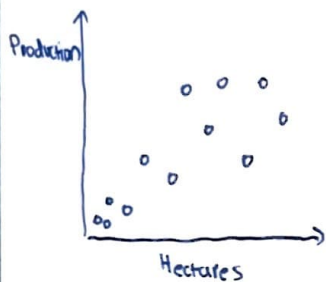
• Treemap



• Bar chart



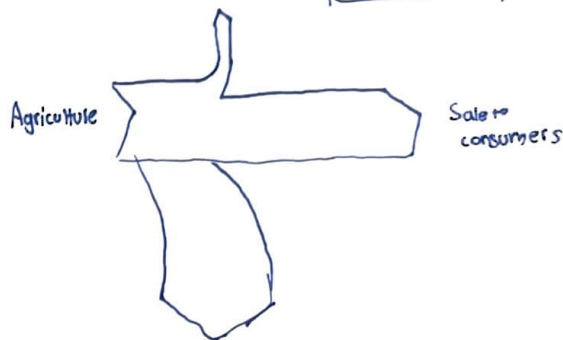
• Scatter plot



• Choropleth



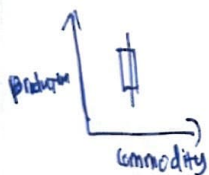
• Sankey diagram



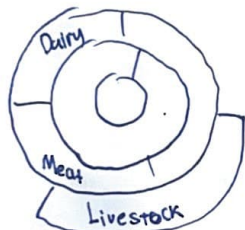
• Area chart



• Boxplot



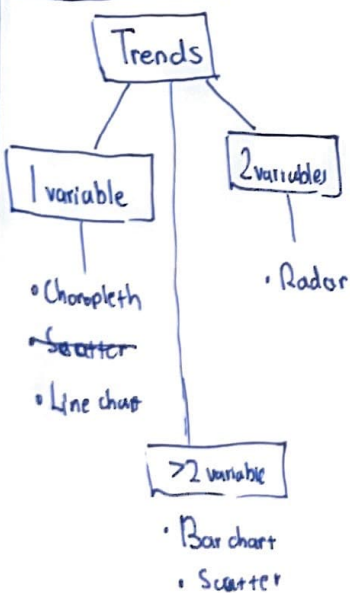
• Sunburst diagram



FILTER

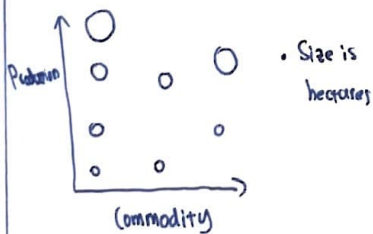
- Radar chart
- Bar chart
- Choropleth
- Area chart
- Scatter plot
- Line plot

CATEGORIZE

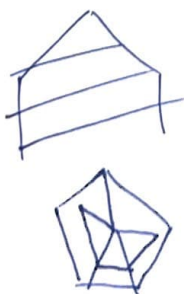


COMBINE & REFINE

• Bubble chart



• Radar chart comparing 2 regions



- Bubble map
- Symbol map
- Density heat map

Questions

1. Other than trends what else can I show to the audience
2. How can I select visualisations based on target audience
3. How can I balance complex charts and ease to read

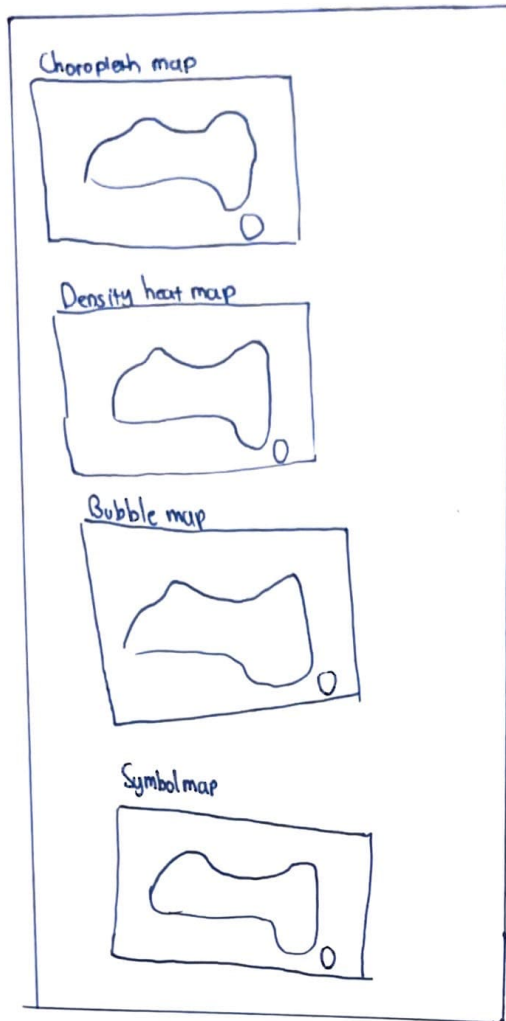
Author: Jerome Tan

Date: 10/10/2024

Sheet: 1

Task: Planning Visualisations

LAYOUT



TITLE: Geographical Analysis
AUTHOR: Jerome Tan
DATE: 10/10/2024
SHEET: 2
TASK: Maps & Geographical Analysis of trends

OPERATION

- For all maps we have two interactions
 - Commodities as a dropdown box
 - Year, slider to select year to view.

Barley | v



FOCUS

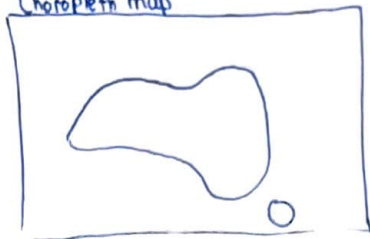
- Choropleth map
Display state by state differences in agricultural production
- Density Heatmap
Show concentration of farming activities, highlighting regions with the most farming areas or highest production density
- Bubble map
Visualise the total hectares under cultivation in each state using bubbles
- Symbol map
Use symbols to show production output

DISCUSSION

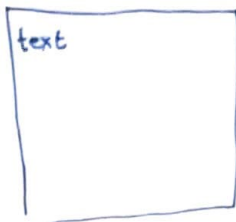
- Highlights geographical trends and production hot spots, allowing users to compare regions visually.
- Different map types provide various perspectives on the data, encouraging exploration and deeper understanding
- Bubble map adds a layer on choropleth incorporating scale of farming areas.

LAYOUT

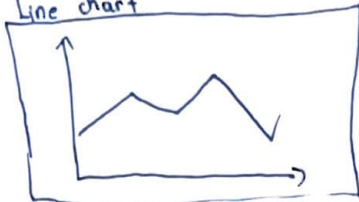
Choropleth map



text



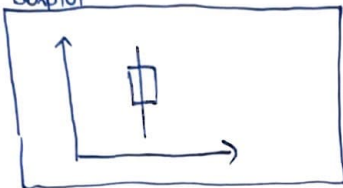
Line chart



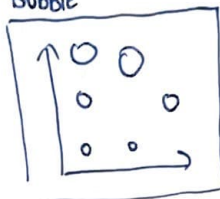
text



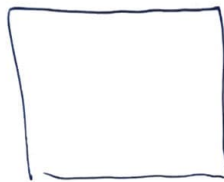
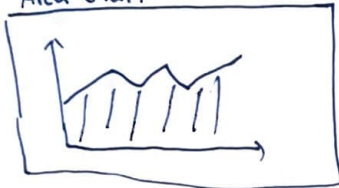
Boxplot



Bubble



Area chart



TITLE: Time-series & trends

AUTHOR: Jerome Tan

DATE: 10/10/2024

SHEET: 3

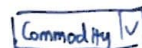
TASK: Explore time-series & trends charts

OPERATION

- Time slider for year selection



- Selection of commodity using a drop-down box



FOCUS

- Choropleth
 - Display state by state agricultural production
- Line chart
 - Track trends in commodity production over time
Showing how production changes over time
- Boxplot
 - Illustrates variation in production values across states and over time highlighting outliers
- Area chart
 - Use stacked areas to show cumulative contributions of various commodities to total production.
- Bubble
 - Explore relationship between commodity & hectares over time.

DISCUSSION

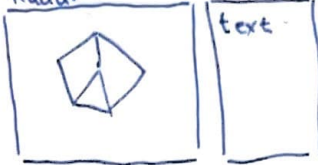
- Time-series charts ideal for showing how agricultural production evolves over time.
- Lack of complex charts when building the layout focussed on time series.
- The different charts provide complementary ways to view changes in production.

LAYOUT

Choropleth



Radar



Text

Sankey



Scatter plot matrix



TITLE: Relational & Flow analysis

AUTHOR: Jerome Tan

DATE: 10/10/2024

SHEET: 4

TASK: Explore Relational & Flow analysis

OPERATION

- Clicking on nodes of Sankey diagram
 - Show detailed flows related to node.
- Region/State selection
 - Using drop down box
- Date selection
 - using a slider to select year

FOCUS

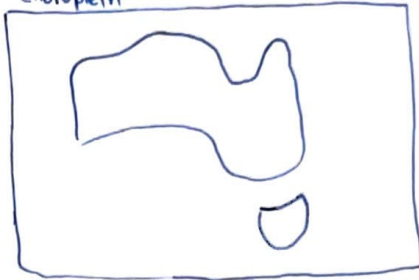
- Radar chart
 - Compares multiple agricultural metrics across states.
- Sankey diagram
 - Visualises the flow of commodities, such as from production regions to markets or export destinations.
- Scatter Plot Matrix
 - Allows for the exploration of relationships between multiple variables

DISCUSSION

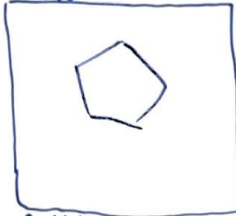
- Help audience understand connections dependencies and relationships
- Good use of complex charts with large amounts of information and relationships to draw, More text to be used to explain
- Compare & contrast between States as well as factors affecting production of agriculture.

LAYOUT

Choropleth

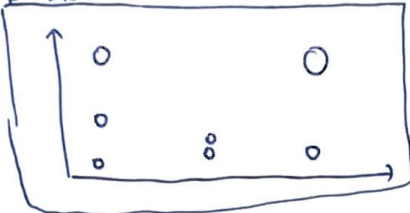


Radar



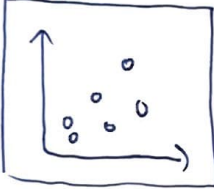
text

Bubble



text

Scatter



text

TITLE : Understanding Australia's Agriculture Production

AUTHOR : Jerome Tan

DATE : 10/10/2024

SHEET : 5

TITLE : Final implementation

OPERATIONS

- Selection of commodities
 - Use a dropdown box
- Selection of Regions/States
 - Use a dropdown box
- Selection of Years
 - Use a slider



FOCUS

- Choropleth map
 - Shows agricultural production on different commodities over time, between all the states of Australia
- Radar Chart
 - Compares between 2 Regions/States, the production of each commodity
- Bubble chart
 - Shows relationship between production & land use for agriculture over time
- Line
 - Shows the general trend of agriculture production over time
- Scatter
 - Draw relationships between land use & production over time

DISCUSSION

- Balance of both complex and simple charts.
- Balance of information being conveyed showing both trends, relationships, and allows for comparisons
- Interactivity for each visualisation helps to connect visualisations so that audience can gain a deeper insight.