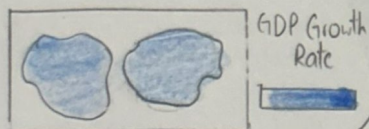


IDEAS

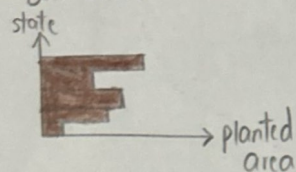
MALAYSIA AGRICULTURAL PRODUCTION AND ECONOMIC PERFORMANCE

1. GDP Growth by State
→ Choropleth Map



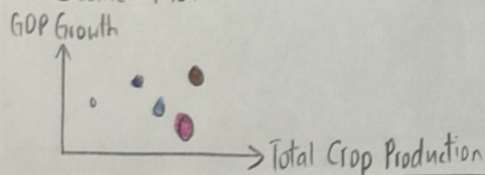
2. Compare multiple crops by state

→ Bar chart



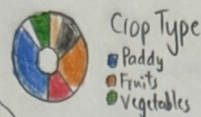
3. Production Vs GDP

→ Scatter Plot



4. Crop Composition

→ Donut Chart



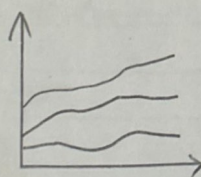
5. Crop Trend Over Time

→ Stacked Area



6. Crop Production Trend

→ Multi-line Chart



FILTER

Main:

(1) Choropleth Map

(2) Bar Chart

(3) Scatter plot

(4) Donut chart

CATEGORIZE

1. Geographic Visualisation

Purpose: Show spatial patterns

→ Choropleth Map

2. Comparison

Purpose: Compare across categories

→ Bar Chart

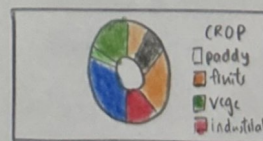
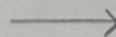
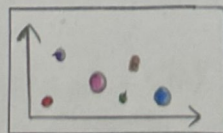
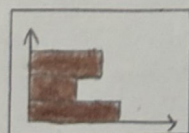
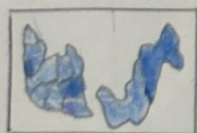
3. Relationship and Composition

→ Scatter Plot

→ Donut Chart

COMBINE AND REFINE

Multi-layered Analysis



QUESTIONS

1. How does agriculture relate to economy

2. Which state produce more crops?

3. What crops does each state specialize in?

LAYOUT

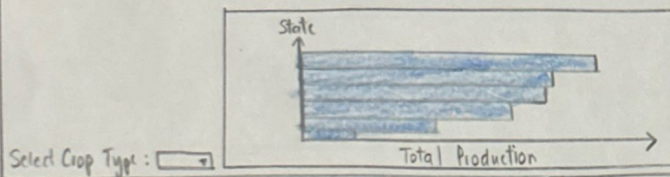
How Malaysia's Agricultural Heartland Fuels the Nation's Economy

Introduction Text

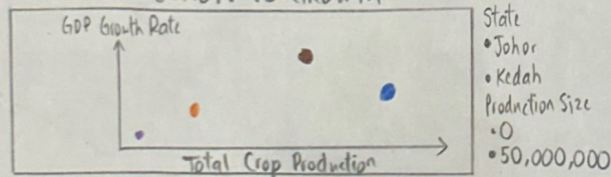
ECONOMIC PERFORMANCE



CROP SPECIALIZATION



PRODUCTION VS GROWTH



NATIONAL CROP



TITLE: Economic Performance
Across Malaysia State

AUTHOR: Winnie Ng

DATE: 20/10/2025

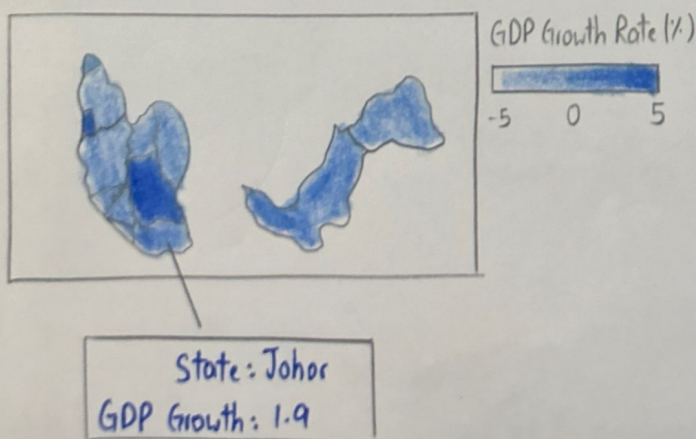
SHEET: 2

TASK: Explore state-level data
geographically

OPERATION

- Hover tooltips: Display the state name and the GDP growth rate (%), the crop type, the planted area, and the production value.
- Crop Type Selector: Click on the crop type to show only the planted area for that specific crop across all Malaysia state
- Year Selector: Click on the year to show how Malaysia's crop composition has changed over time

FOCUS



DISCUSSION

Pros:

- Provides a comprehensive overview
- Clear narrative flow
- Mobile friendly

Cons:

- Limited exploration

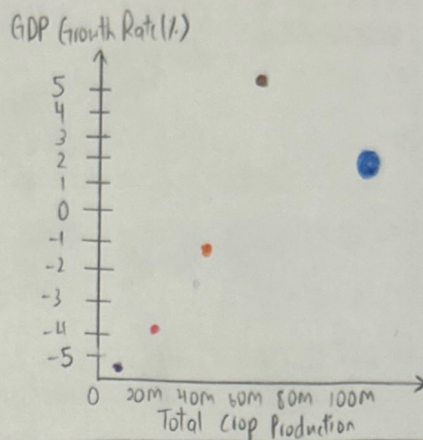
LAYOUT

How Malaysia's Agriculture Heartland Fuels the Nation's Economy

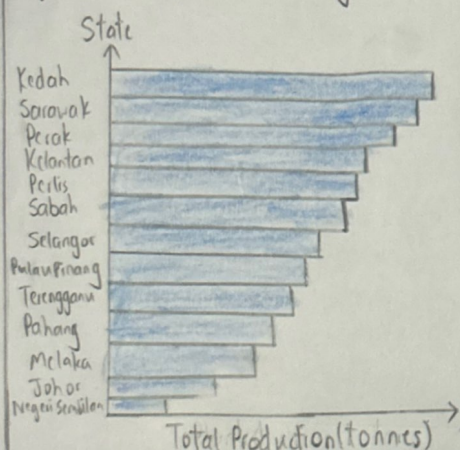
Economic Performance



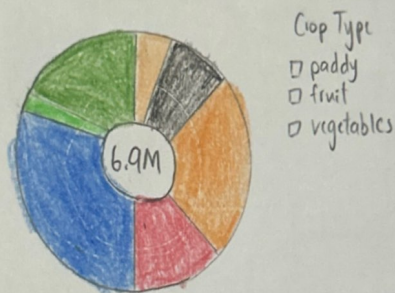
Production VS Growth



Agricultural Specialization by State



Natural Crop Composition



Select Year:

TITLE: Malaysia Agri-Economy Dashboard

AUTHOR: Winnie Ng

DATE: 20/10/2025

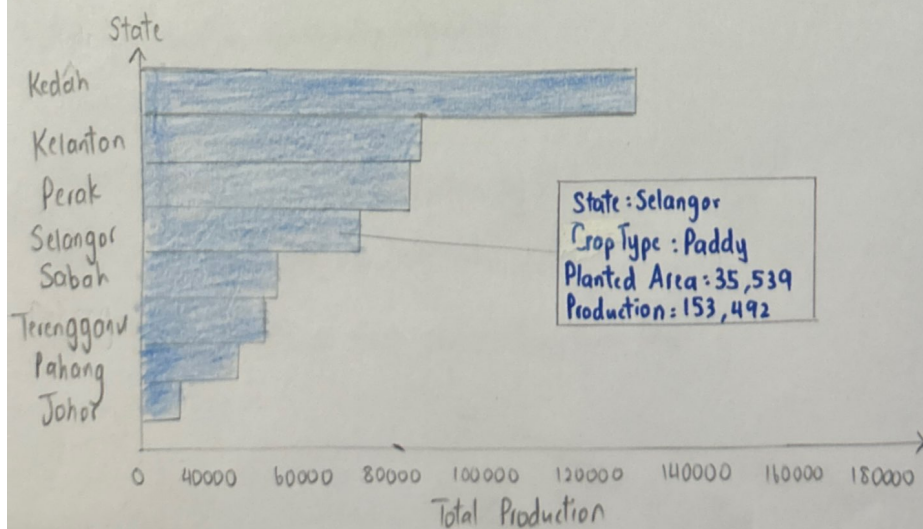
SHEET: 3

TASK: Compare performance of specific crops across state

OPERATION

- Hover tooltips: Display the state name, and the GDP Growth Rate (%), the crop type, the planted area, and the production value.
- Crop Type Selector: Click on the crop type to show only the planted area for that specific crop across all Malaysia state
- Year Selector: Click on the year to show how Malaysia's crop composition has changed over time

FOCUS



Select Crop Type:

Click on the crop type to choose specific crop type

State: Selangor
Crop Type: Paddy
Planted Area: 35,539
Production: 153,492

DISCUSSION

Pros:

- All information visible at once
- Good for exploration

Cons:

- May feel cluttered on small screens
- Reduced size for each chart may lose detail

LAYOUT

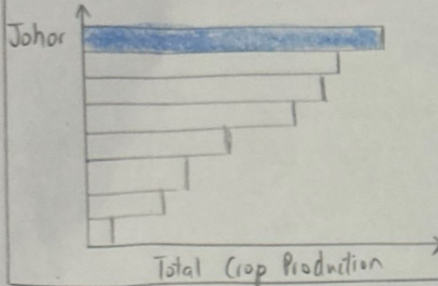
How Malaysia's Agricultural Heartland Fuels the Nation's Economy

Economic Performance

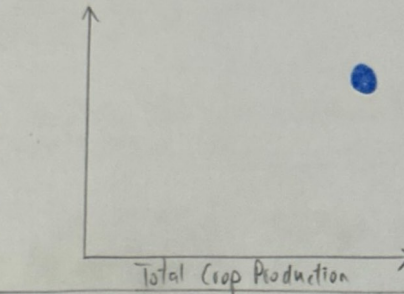


Selected State:

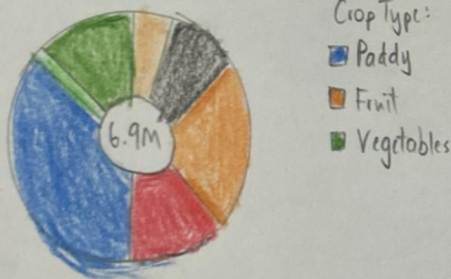
Agricultural Specialization by state



Production VS Growth



Natural Crop Composition



Select Year:

TITLE: The Agricultural Landscape: A State-by-state Comparison

AUTHOR: Winnie Ng

DATE: 20/10/2025

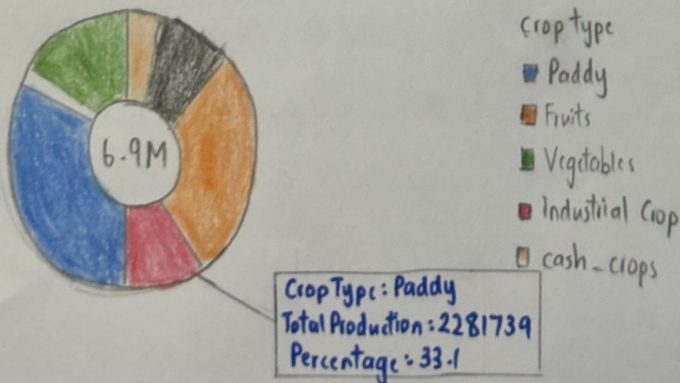
SHEET: 4

TASK: Enable direct, side-by-side comparison between different states

OPERATION

- Hover tooltips: Display the state name and the GDP growth rate (%), the crop type, the planted area, and the production value
- Crop Type Selector: Click on the crop type to show only the planted area for that specific crop across all Malaysia state
- Year Selector: Click on the year to show how Malaysia's crop composition has changed over time.

FOCUS



Select Year:

Click on the year to choose specific year

DETAIL

Pros:

- Clear information hierarchy

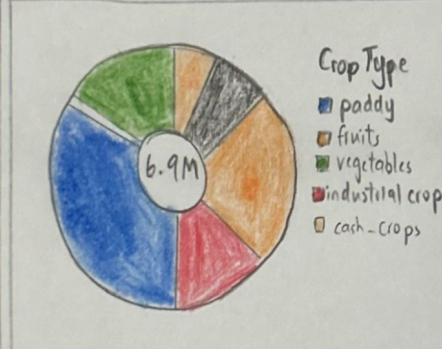
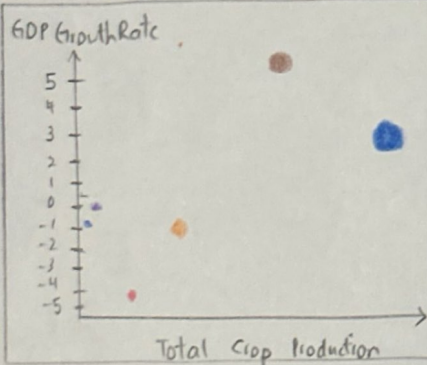
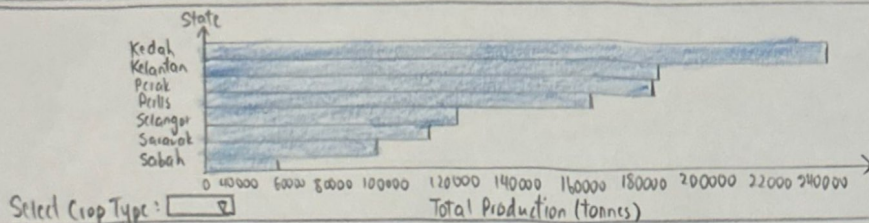
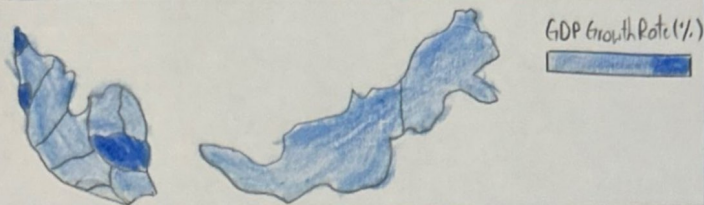
Cons:

- Potential information overload
- Fixed layout constraint
- Limited space for annotations

LAYOUT

How Malaysia's Agricultural Heartland Fuels the Nation's Economy

Introduction Text



Data Source: Link & Text

Source 1

Source 2

Created by: Winnie Ng

TITLE: Malaysia's Agricultural Economy: Final Realisation

AUTHOR: Winnie Ng

DATE: 20/10/2025

SHEET: 5

TASK: Final Implementation Design (Interactive Story)

OPERATION

- Hover tooltips: Display the state name and the GDP growth rate (%), the crop type, the planted area, and the production value.
- Crop Type Selector: Click on the crop type to show only the planted area for that specific crop across all Malaysia state
- Year Selector: Click on the year to show how Malaysia's crop composition has changed over time.

DETAIL

- Use Vega-Lite for all charts
- Time to build / implementation 3 weeks
- Require TopoJSON file of Malaysian states.

FOCUS

- All visualisation are equally important
- Choropleth Map: GDP Growth with annotations
- Interactive Bar Chart: Crop Production by State
- Scatter plot: Production vs GDP relationship
- Donut Chart: National Crop composition over time