IDEAS

① Heatmap

② Dol axis line prodution Chart GDD

③ Scatter Plot

④ Stacked Bar Chart
Avg yeild
states

⑤ lollipop Chart
import/export
years

⑥ Pie Chart
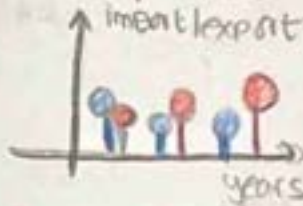
⑤ Grouped Bar Chart

⑦ line Chart
Crop production
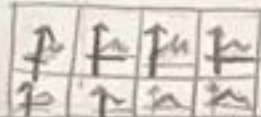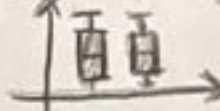GDP
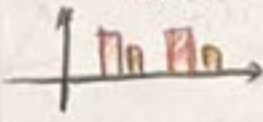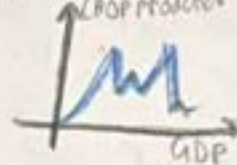
⑧ Donut Chart

⑨ Small Multiples Area Chart

⑩ Proportional Map symbol

⑪ Box Plot

⑫ Chloropath Map

② Filter

Pie Chart: → No

Pie chart works best when wanting to show proportions in a slice and I wanna do more relationships and comparision.

Proportional Map: → No
It is used to depict the spatial distribution of quantitative data.

④ Combine and Refine

① Category 1: Climate sectors
Shows how climate is in malaysia

② Category 2: Agricultural Sector
Show how yeild is across States

③ Category 3: Agricultural Imports Exports & Employment
How agriculture contribute to the Economic sector

③ CATEGORIZE

Compare values across categories
Stacked Bar Chart
Bar Chart
Donut Chart / Pie chart

Time series
↓
line chart

Distribution Chart
Data spread across ranges 6 Box Plot

MATRIX
↓
Heatmap

⑤ Questions

↳ How well does the graphs tell in order to showcase the story that needs to be told
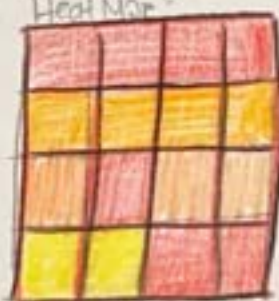
LAYOUT

Chloropath Map

Total rainy days in Malaysian States:

Plot:- Climate Variables Across Malaysian state.

BoxPlot

or

Heat Map:


Are there any climate that dominates malaysia more?

severity of different climate variable

FOCUS:

Focuses on the climate Side of Malaysia. Malaysia is known as a tropical country so in sense, it is somtimes raining alot or maybe the temperature is really hot, so to focus on such trends and capture the pattern we are combining states with climate variables

+

consistent story telling
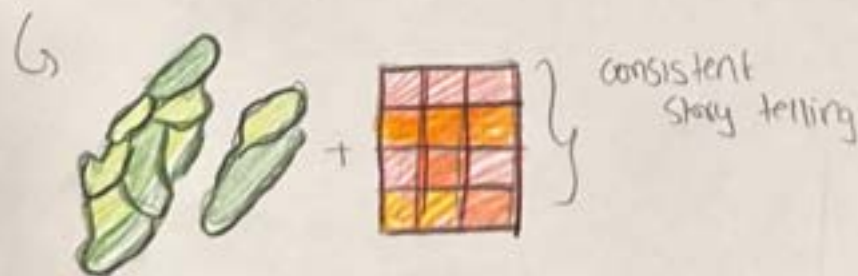
Chloropath Map + Heatmap → To show rainy days severity and trends of max/min temp.

Title: Climate sectors of Malaysia

AUTHOR: MARZANA BINTE ASRAF

DATE: 20/10/25
SHEET: 2
TASK: Identify the trend of climate variable across states.

Operations:-

↳ User can explore with a slider to see over the years which states have more rainy days on a avg, and compare with the states.

↳ Users can see the heatmap and clearly see the pattern of max/min temp within each state in Malaysia.

Discussions:

Pros:

↳ Is the box plot more useful than the heatmap?
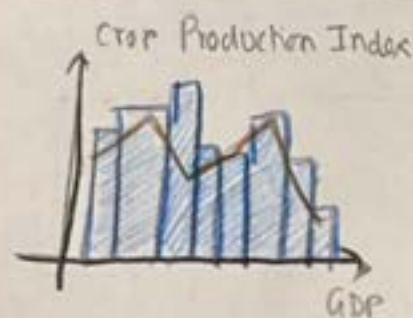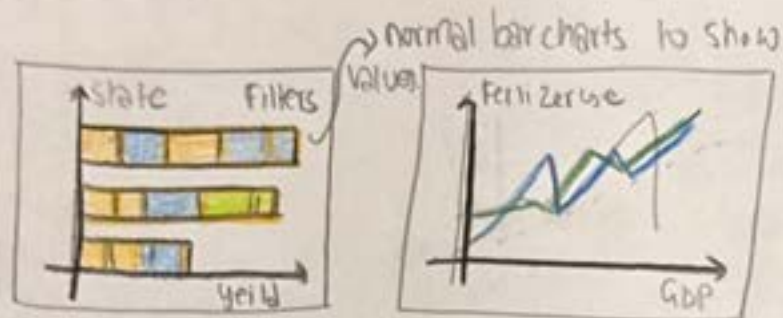
↳ But dependending on the intensity of climate variables the heatmap makes more sense logically.

↳ graph/map is easy to understand.

Cons:

↳ Chloropath maps colours are tricky if not normalised so data must be normalised

LAYOUT

state   Filters   → normal barcharts to show values

yeild

Fertilizer use

GDP

Crop Production Index

GDP

Food Production Index

GDP

2010   2011   2012   2013

Food Index

OR

Food Inflation

years

Focus:

The focus of this sheet is to acknowledge the agriculture sector. Agriculture sector is not only responsible for giving us food but it contribut01 to a country's gdp very importantly and majorly. The main essence is to capture these different contribution perspectives that come along in the agriculture sector.

+   +   +

consistent storytelling
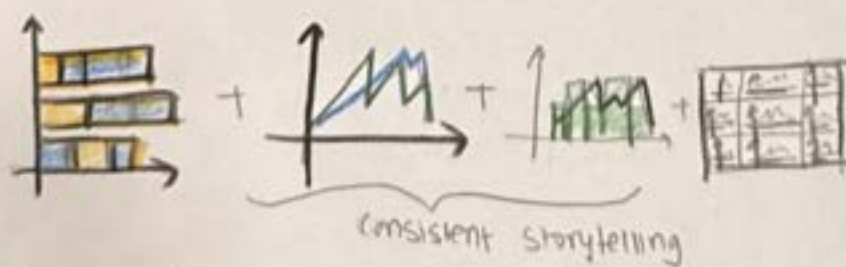
6 Shows how agriculture embernds in other sector.

OPERATIONS:

6 Users can trace and see which crop type brings in the most yeild.

6 Users can also understand that how ferlizers contribute to the GDP: positively / negatively.

6 Allows users to understand how GDP is effected through crop / food which comes from agriculture.

6 Also shows food inflation trends.

DISCUSSIONS:

Pros:

6 Uses a variety of charts so each and every sector of agriculture is throughly explored.

6 line and bar charts shows clear comparisons / stacked display proportion → easy to understand.

Cons:

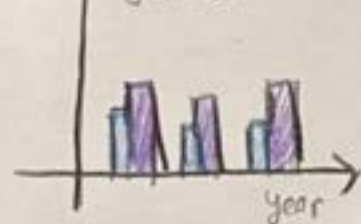6 The scatter plot is precise compared to the multiples graph.

LAYOUT

Agriculture
Imports
exports

year

Shows the lollipop chart to show the import/export with the year.

Employment by Gender

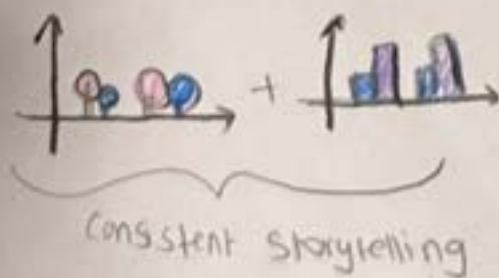year

OR

Gender
☐ male
☐ female
☐ total

Shows how employment is differed across the years.

FOCUS:

This sheet focuses on the impact of import and exports and employement of male/female in the agriculture sector. Import and exports are a huge part of malaysian economy and agriculture plays a huge part in it, not only that it is responsible for employment for both genders.

agriculture in trade and employment

Consistent storytelling

Title: Trade and employment
Author: MARIANA BINTE ASRAF
Dak: 20/10/25
Sheet: 4

Task: Examine to see how agriculture effects trade and employment sector of Malaysia.

OPERATIONS:

↳ Allows user to understand what proportion of male/female are being employed in agriculture accron the years

↳ The lollipop chart allows to see the agricultural import/exprt giving a clear guide in how much the agricultural sector gives out

Discunions:

Pros:

↳ Show clear corelation of how import/export differ from year to year giving clear pattern of what sector malaysia specialises in.

Cons:

↳ Users might need guidance if a stack chart is used to show employment if the numbers don't vary at all.

LAYOUT (combination of 3 sheets)

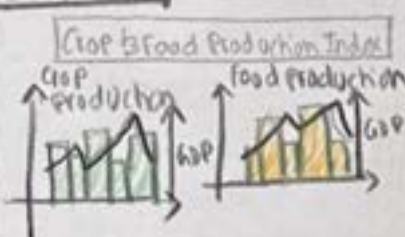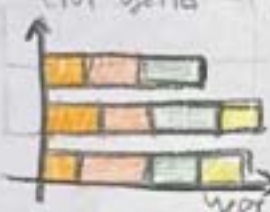## Climate Trends and Agricultural Sectors of Malaysia
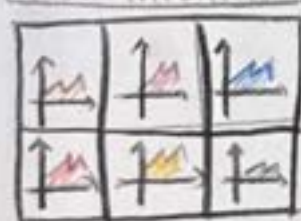
Climate Trends

Rainy Days Across Malagsia States

States.

Heat map: Climate and man.

+

interactivity

Agriculture Sector

Crop yeild

year

interactivity

GDP fertilizer

year

Crop & Food Production Index

Crop production

GDP

Food production

GDP

food inflation

Trade and Employment

Import/exports

year

Employment

year
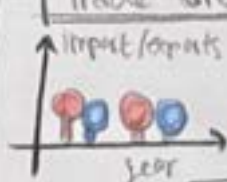
interactivity

FOCUS

This dashboard shows how climate trends and agriculture sector's trends and patters are, giling as a knowledge of malaysia's climate, economy.

A brief layout of how the DV2 Html will look like with interactivity

Title

HAP

Filter

Filter

text

filter

text

text

Filters

TITle: Climate Trends and Agricultural Sectors Across the years.

AUTHOR: MARZANA BINTE ASKAF

DATE: 20/10/95

SHEET: 5

TASK: Final implementation of 5 sheet design.

OPERATIONS:

- Uses vegalite and css library
- Allows users to scroll up and down and interact with the graphs present
- Allows the user to visually understand the pattern and even filter to see the information visually.
- Allows the user a different perspective of agricultural sector rooted to other sectors.

DISCUSS:

Pros:

- Put all the trends and pattern in one place with vertical scrolling, making it easier for users to quickly spot key coreltations without having to navigate charts.

Cons:

- Without proper notes or legend it can be confusing on how parts connect.