

Author: Lee Ting Sen
Date: 15/10/2025
Sheet: 2

Layout

Tourism

Description

- State 1
- State 2
- State 3
- State 4
- State 5
- State 6

Description

Description

Description

Operation

- A slider on Choropleth map to select each Year
- Hover/click on cell ↓
Tooltip appears with detailed value

Discuss

+VE

- The interactive filter and hover tooltips allow user to explore the data easily and get detailed information without cluttering visuals.

-VE

- The design relies on user interaction so key insights might be missed if users don't engage with the feature.

Focus The main focus of sheet 2 is to analyze the relationship between tourism performance and international travel patterns over time and across regions.

The choropleth map highlights how international arrivals are distributed geographically across different states in Malaysia, allowing users to identify top tourism destinations and track changes over the years. The line chart provides an economic perspective by showing the trend in GDP/GVA and international arrivals, helping to illustrate the connection between tourism growth and economic impact. Meanwhile, the bar chart offers a comparative view of visitor behavior by country, focusing on the average length of stay, which indicates market potential and travel patterns.

A year filter is applied to enable users to narrow their analysis to specific periods, and hover tooltips provide exact values for more precise interpretation.

Ideas

Tourism

State: All

Description

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Date: 16/10/2025
Sheet: 3

Operation

- Filter on choropleth map allowing user to select with particular state they want to see.
- Hover: show exact values/percentage on choropleth, heatmap and also the slope chart.

Discussion

The choropleth map gives clear spatial patterns and highlights regional differences effectively.

Heat map and slope chart provides strong visual comparison over time, making trends and shifts easy to spot.

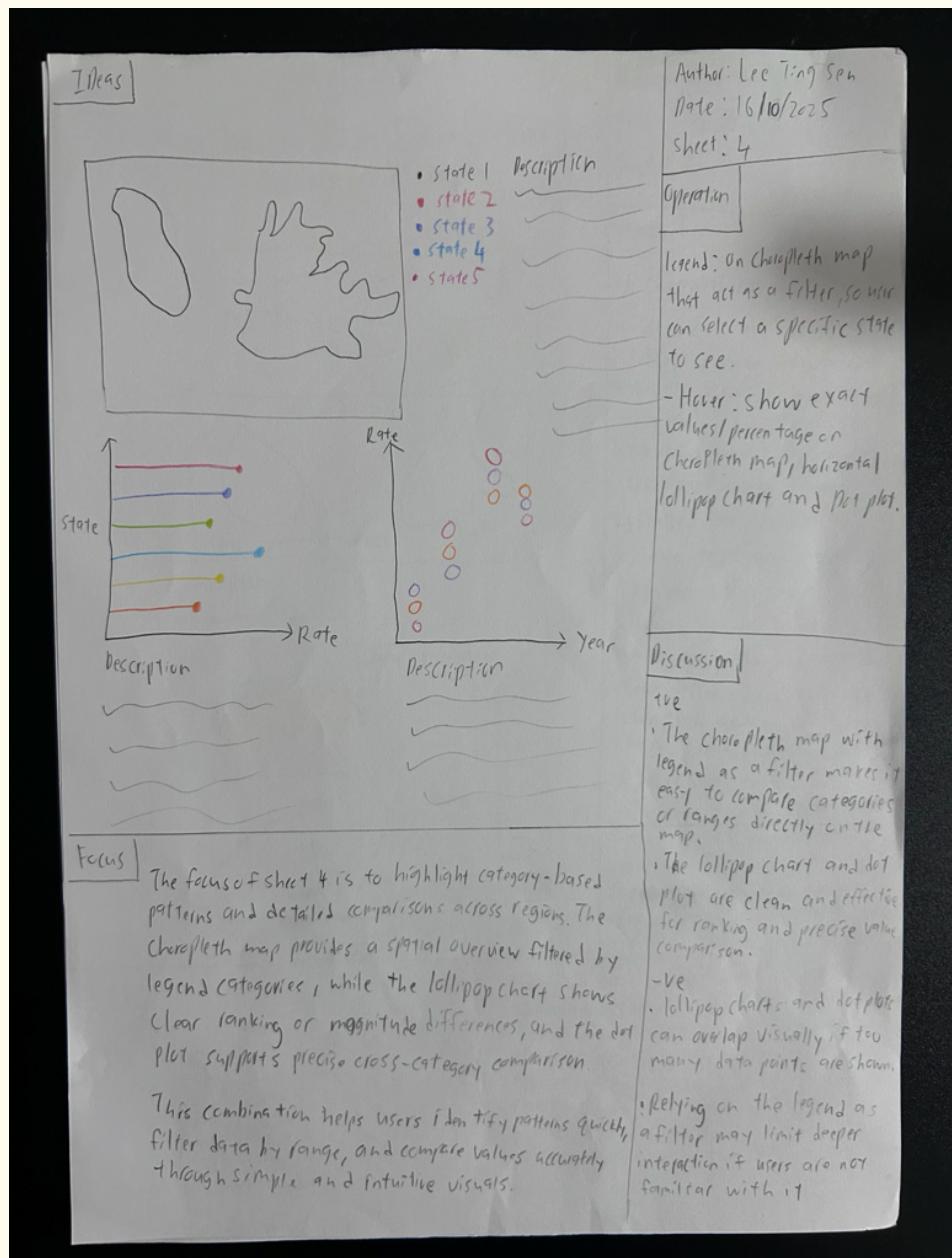
- VE

- Displaying three visuals may overwhelm users if not well arranged.
- Slope charts can be less intuitive for first-time users especially when multiple line overlaps.

Focus

The focus for sheet 3 is to analyze regional patterns and changes over time using multiple visual perspectives. The choropleth map emphasizes spatial distribution, the heat map highlights temporal intensity or concentration, and the slope chart shows changes between key time points clearly. Together, they help users identify which regions stand out, how trends evolve, and where shifts occur over time.

STATE filters and hover tool tips further enhance data exploration.



Layout

How Tourism Drives Economy Growth And Recovery in Malaysia

Author: Lee Ting Sen
Date: 16/10/2025
sheet: 5

Operation

- 1) Choropleth map:
 - Users can use the year filter to view international arrivals across different states by year.
 - Hovering over state displays the exact number of arrivals.
- 2) Stacked bar chart:
 - Shows employment distribution by industry over time.
 - Hover interaction displays industry name, year, and employment.
 - Year filter syncs with the choropleth map to update the chart dynamically.
- 3) Line chart:
 - Displays tourism expenditure trends for different industries.
 - User can filter by industry to focus on specific sectors.
 - Peak years are visually highlighted for each industry to make key trends stand out.

Focus

The dual-axis combination of a line chart and a bar chart enables clear visualisation of relationship between growth trends and absolute arrival numbers over time. By placing growth rate on the left axis and arrivals on the right, the chart highlights how changes in arrival volume align with or diverge from growth trends.