

Focus

- · All charts are equally important in displaying information related to the tourism industry in Malaysia
- All charts under the Pre-Departure and Statistic have a text description to describe the analysis on the usualized information
- . The chloropleth map and combined line stacked bar chart will have annotation overlay directly on the chart

Title: F173179 Data Vulualisation 2 Five

Design Sheet

Author: Lim Tong En Date: 10/10/2024

Sheat: 2

Task: Create a dashboard to analyse

tourism statistics

Operation

Steet Year

This allows users to filter the data according to Year. Once a year is selected, the corresponding data will be displayed with the categories

number of location This stider controls the amount of data being displayed and

Products @ Roduct 1

B beduct 3

Product 3

■ Product 4 D Anduct 5

The legend has a function that allows the wer to select on a specific cottegory and the colour will be highlighted to to cus, while of cotegory will be desoturated

Toothips are enabled for all charts to display comprehensive information Example of toothip for map:

State : Johor

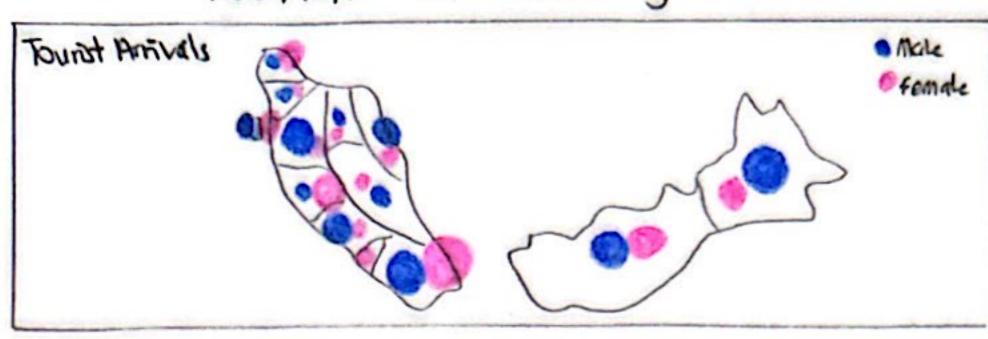
Tourist Prrivals (million): 5.8

Discussion

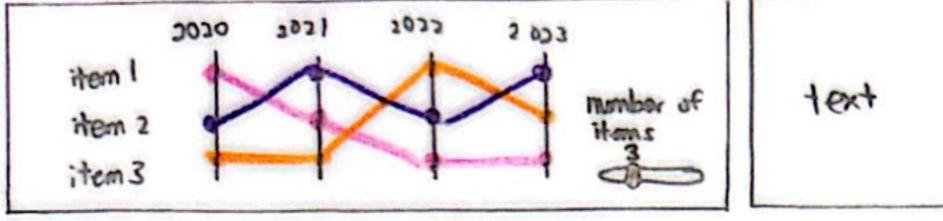
- · Advontage:
 - 1) Chait that display information which belong to a focus section are grouped together
- 2) Annotations or text descriptions are provided for viewer to gain better insights on the charts
- · Ossadvantage
 - 1) Hard to identify centre of visualisation as all chart seemed to be equally important
- @Annotations on chart might cause visual chutter

Layout

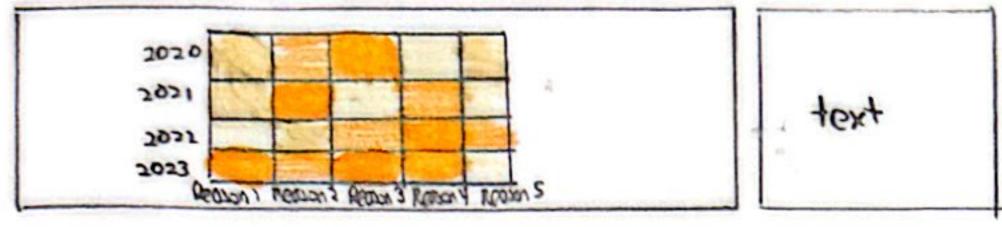
Malaysia lourism in



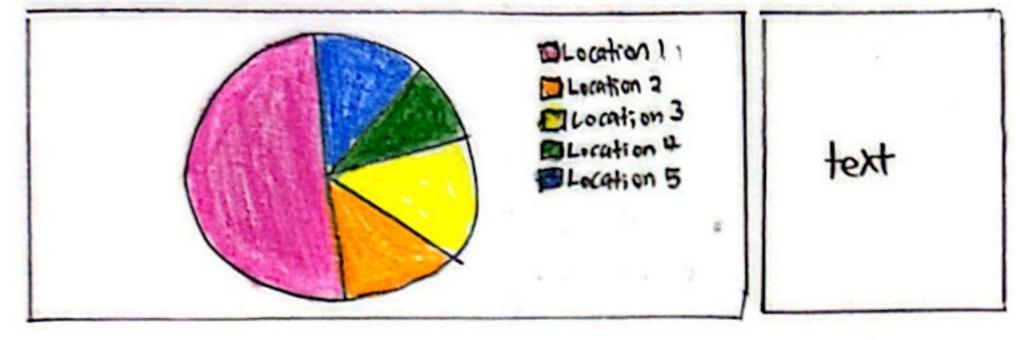
What they wully search for ?



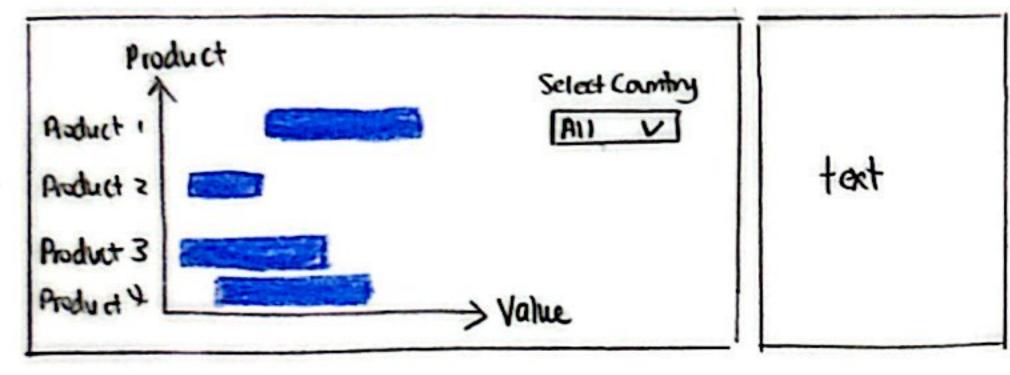
What is their purpose of willit?



Where do they wouldy visit?



What is their expenditure pattern?



Focus

- · All charts are displaying the breakdown of tourist demographic and their behaviour patterns, providing insights to identify. common patterns
- . Text descriptions are placed next to each chart to allow viewer easily reference the chart while teading the analysis
- · Interactive features are included for viewers to explore more data by applying the fifter

little: FIT3179 Data Vulualisation 2 Five Design sheet

Author: Lim Tong En

Date: 10/10/2024

Sheet: 3

Task: Create a poster to display various tourism behaviour breakdown

Operation

number of item

The slider controls the amount of data being druplayed



This interactive legend allow viewer to focus on a specific category while other categories are doothnut

select country All

The dropdown filter allows viewer to fitter data based on country

Toothps are enabled for all charts to provide more information

Example of tooltip for pie chart:

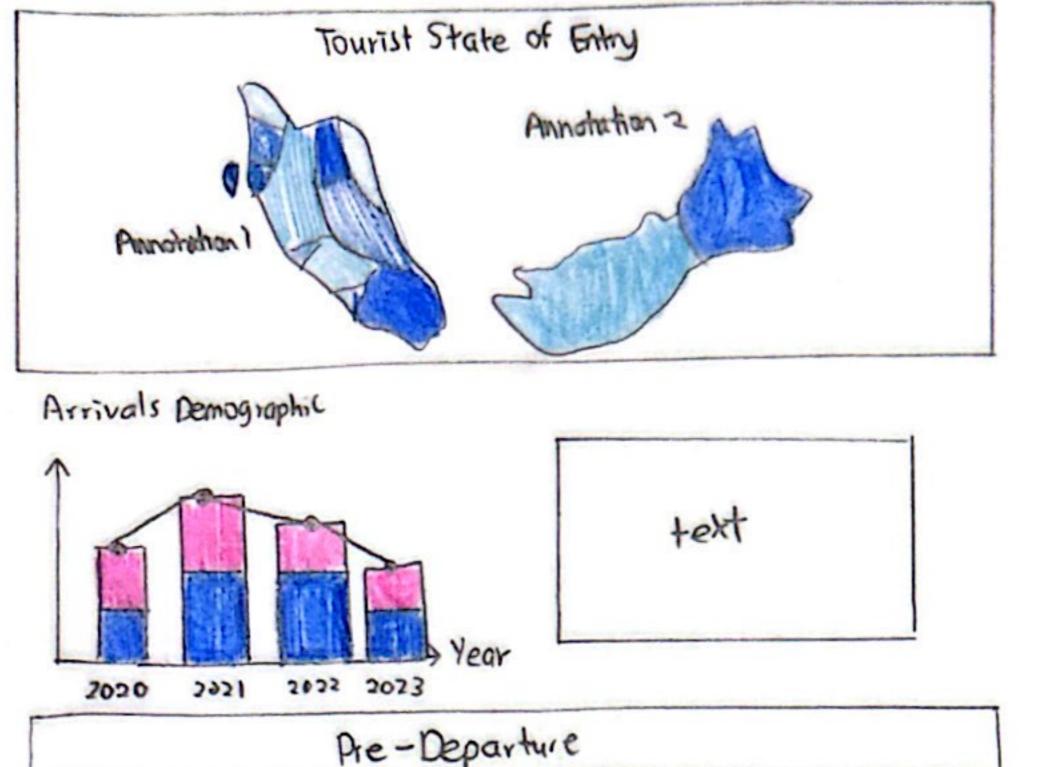
Location: Bukit Bintang Tourist Count (Million): 0.88

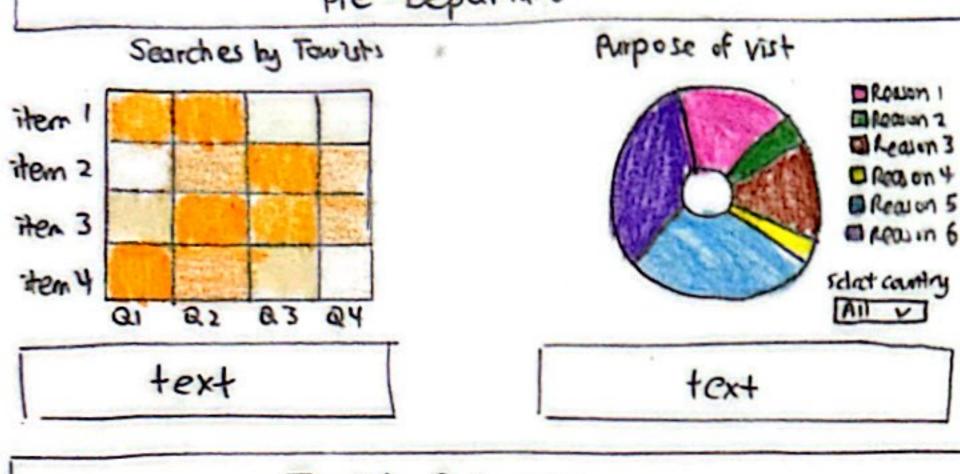
Discussion

- · Advantage:
 - 1) Text descriptions are provided for each chart for viewer to gain better understanding
- (2) Interactive filters are available for viewer to fitter information based on their needs
- · Disadvantage:
- OHard to identify centre of visualization as all chart looked equally important

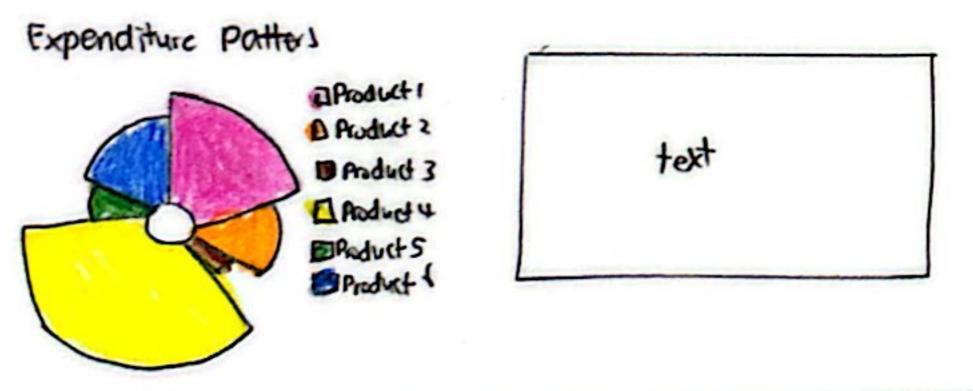
Layout

Tourism in Molaysia









Focus

- · The chloropleth map and bubble chart are the main focus in this dashboard due to their size and amount of information displayed
- · Interactive filters are available for the charts to allow viewer filter information based on their needs
- Annotations and text descriptions are included to provide more insights into the displayed statistics on Malaysia's tourism landscape

Title: FTT 3179 Data Visualisation 2 Five Design

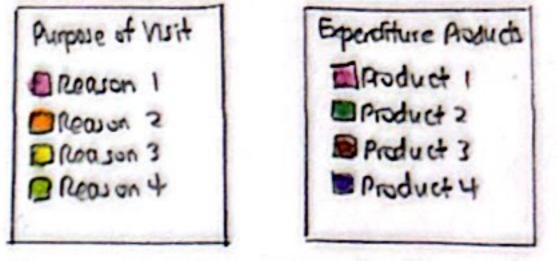
Author: Lin Tong En

Date: 10/10/2024

Sheet: 4

Task: Create a comprehensive dashboard about the tourism landscape in Malays

Operation



These interactive legend allows user to fitter information based on their needs

select Country

The dropdown selection all aus user to view distinct information for each country

number of country

The slider controls the amount of information being displayed

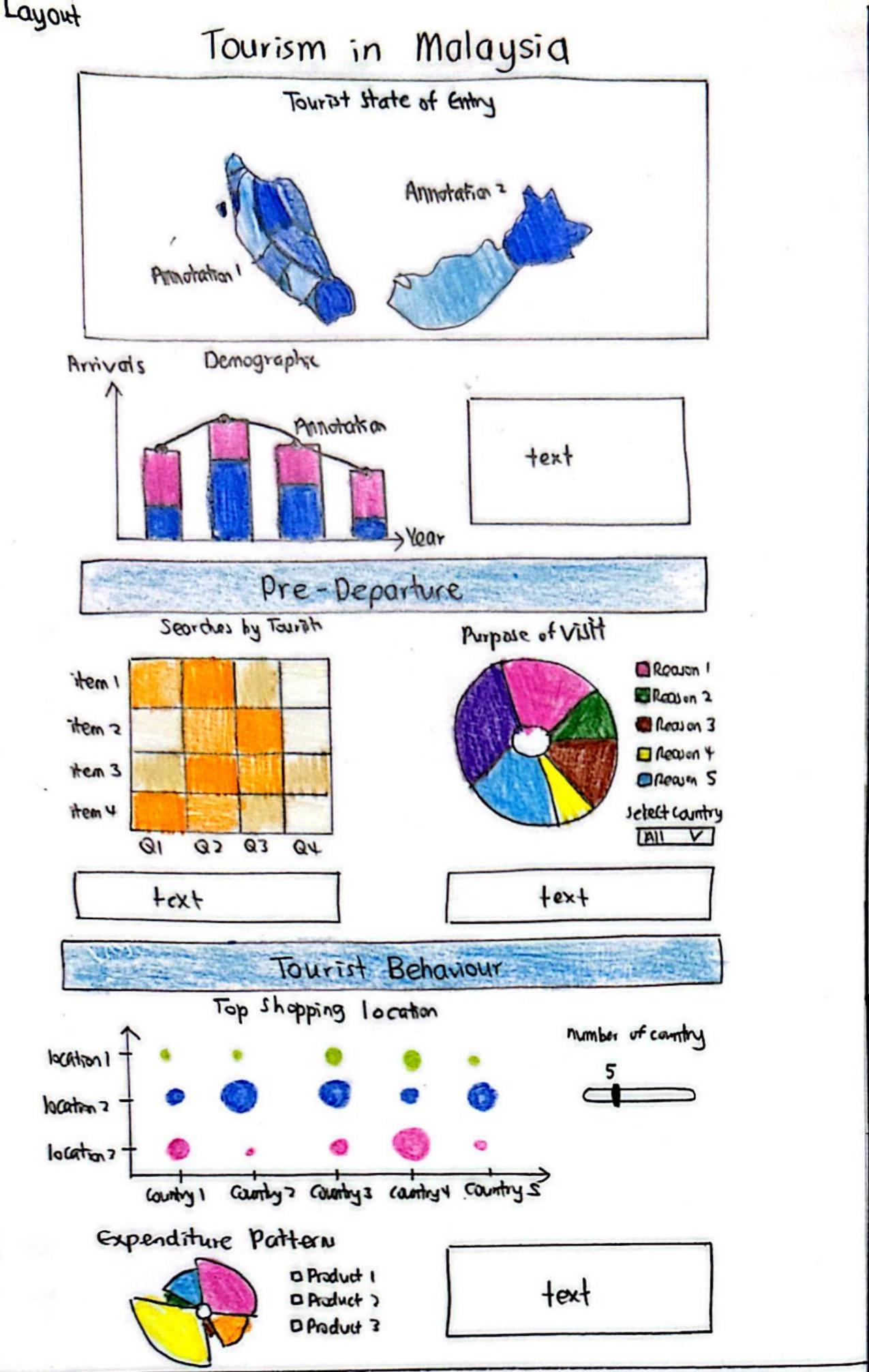
Tooltips are enabled for all charts to display comprehensive information

Example of toothip for heatmap

Quarter: Q1 Search Itom: Itom 3 Number of Jearches: 833

Discussion

- · Advantage:
 - 1) The sections segregates type of information being displayed which guide viewer on the flow to read the charts
- Text descriptions are included to provide extra information
- · Disadvantage:
- OThere may be visual clutter at bubble chart when it is displaying 40 countries information



Fows

- · Viewing Flow: Map > Tourist Demographic > Top Web Searches
 > Purpose of visit > Top Shopping Location > Expenditure
- · comprehensive information on the analysis of each chart is displayed using text or annotation
- · Use darker colour for section header, reasonable colour scheme for distinct categories
- · Consistent font for texts
- · Place legends near to charts
- · Ensure annotations do not overlapped with the point morks

Title: FIT3179 Data Visualisation 2 Five Design

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Sheet: 5

Task: Improve and refine final layart

Operation

- · Include legends for all possible charts to allow viewer filter information
- · Include tooltips for all charts to display more information on the dat
- · Each text description should provide additional context on the information visualized by the chart
- Include filtering options such as drop-down selection or slider to control the amount and type of data being displayed

Detail

- · Resources
- 1 Use HTML, CSS to format the style of user interface
- @Use vega lite to create the chart
- Topojson file containing map details
- 4) Five datasets from reliable online portals
- · Estimated time : 7 days
- 5 days to create visualization
- I day for writing text descriptions
- I day for improving UI
- · Requirements:
- OInclude interactive features
- *Use appropriate colours which is visually friendly for colour blind Viewer

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