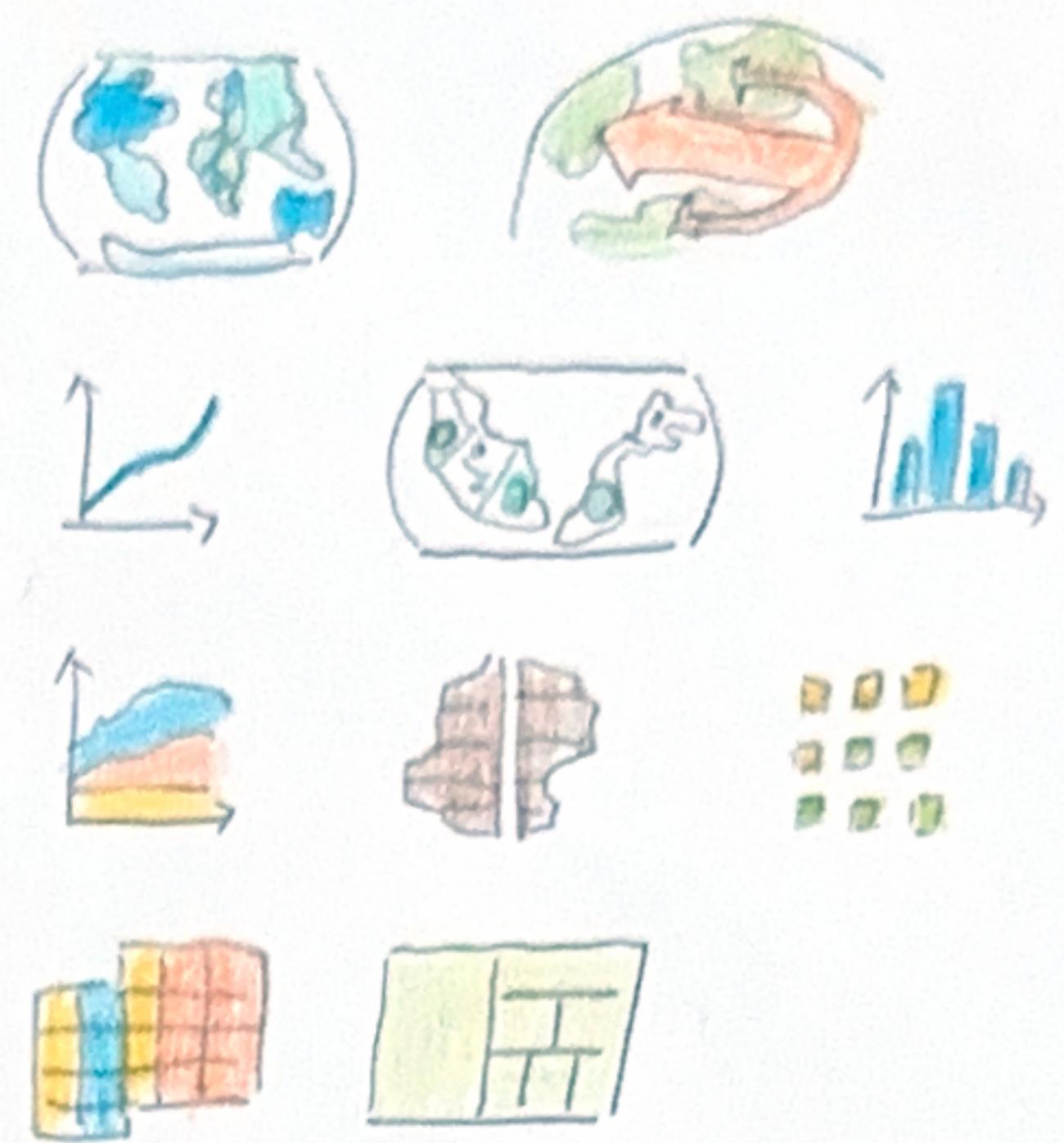


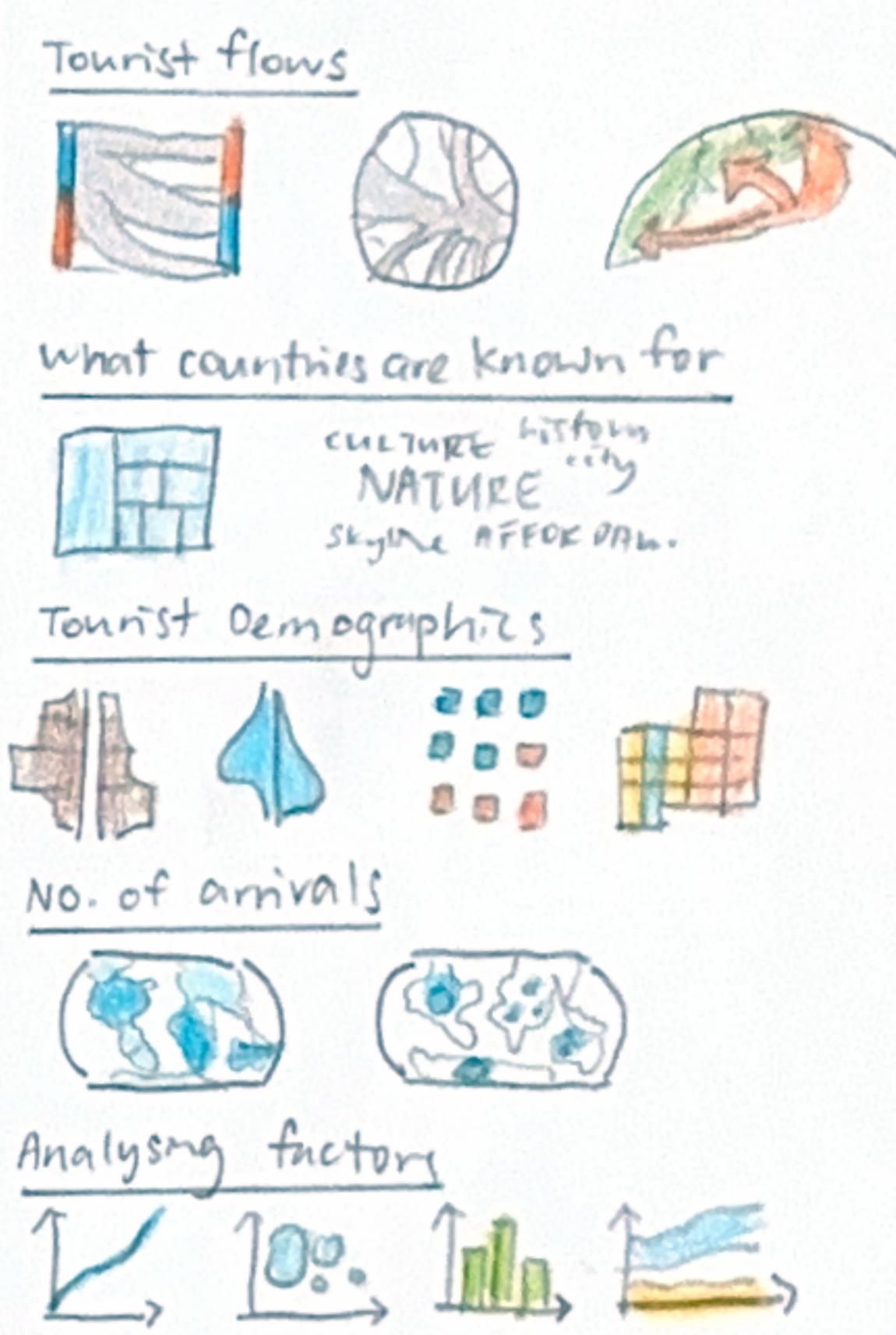
IDEAS



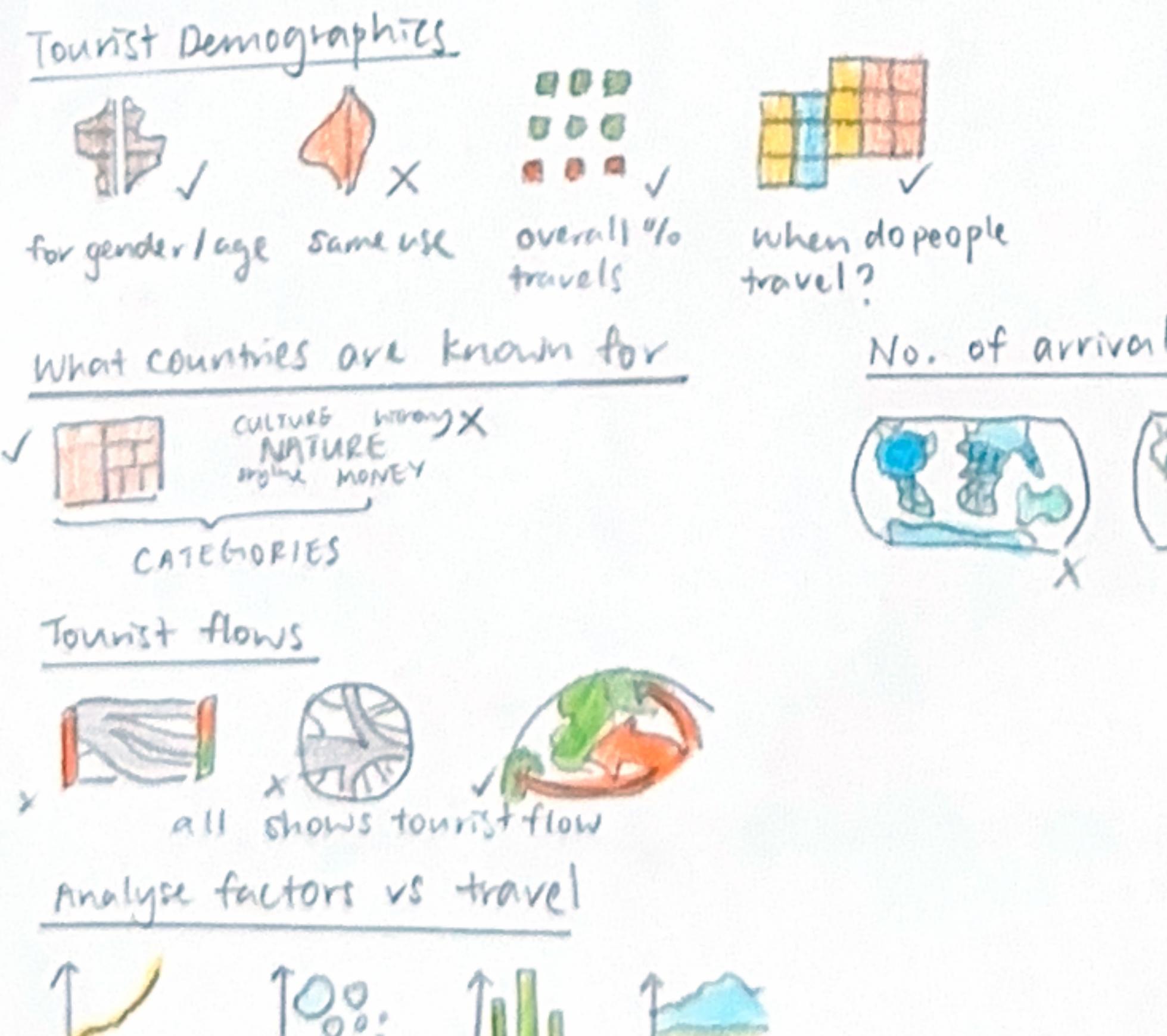
FILTER



CATEGORISE



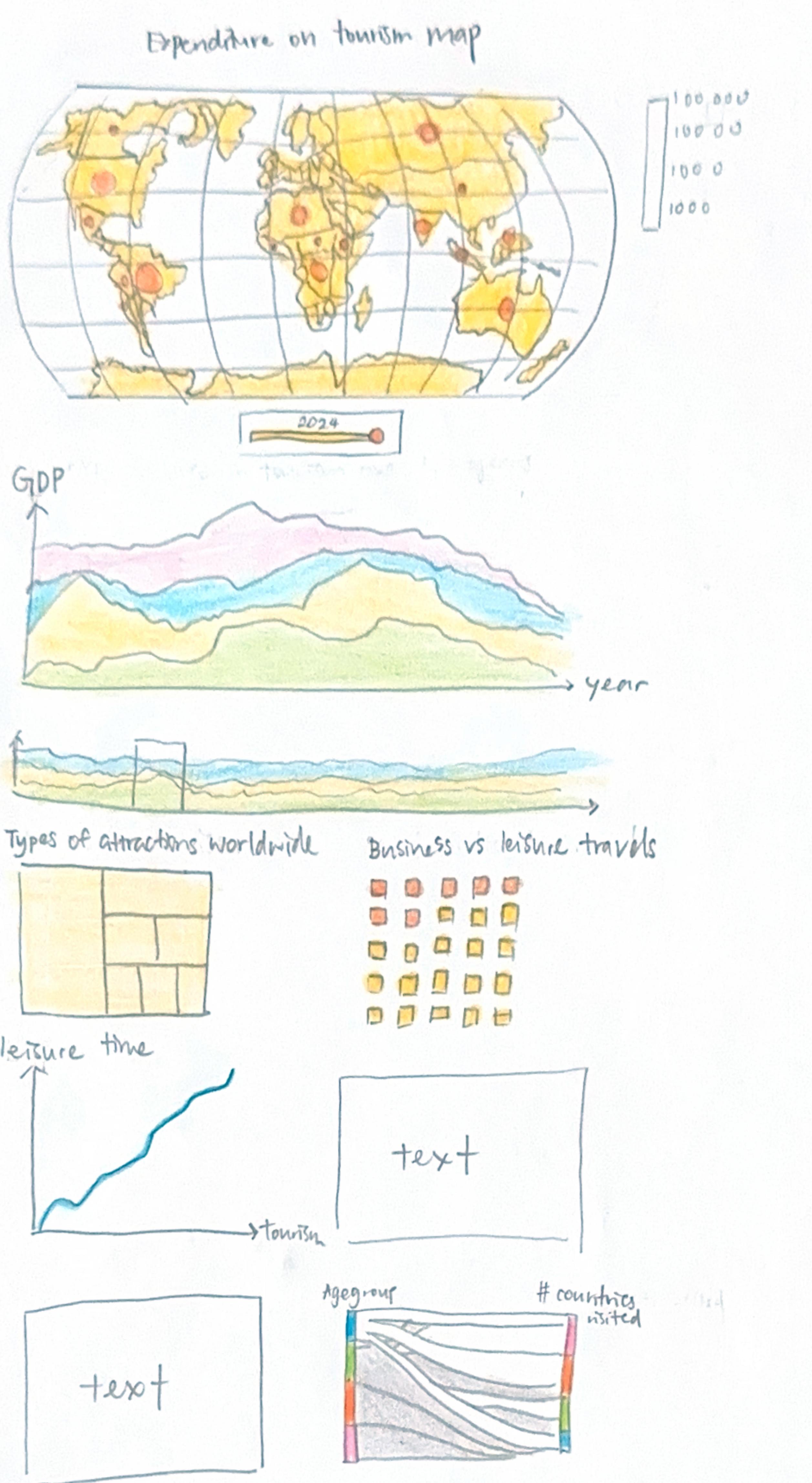
COMBINE & REFINER



QUESTIONS

1. What are recent in tourism?
2. Which demographics travel frequently?
3. Where do people travel?
4. Where is frequently visited?
5. What are these places known for?
6. What are some factors affecting tourism?

LAYOUT



Title : SDesign Sheet

Author : Hsu Chyi See

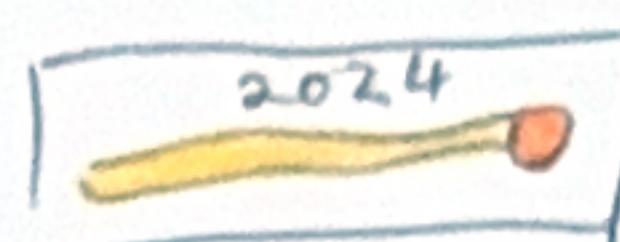
Date : 23 Sept 2025

Sheet : 2

Task : FIT3179 DVII

OPERATIONS

- Slider for world map
 - changes sizes of proportional symbol map



Filtering area charts

- users drag to brush & filter the area charts



→ main area chart: updates based on brushed areas

tooltips

- all graphs contain tool tips



FOCUS

This visualisation places focus on global tourism & economy

↓
users view proportional symbol map, knows which countries are popular tourist destinations worldwide

↓
Show viewers how much people spend while travelling

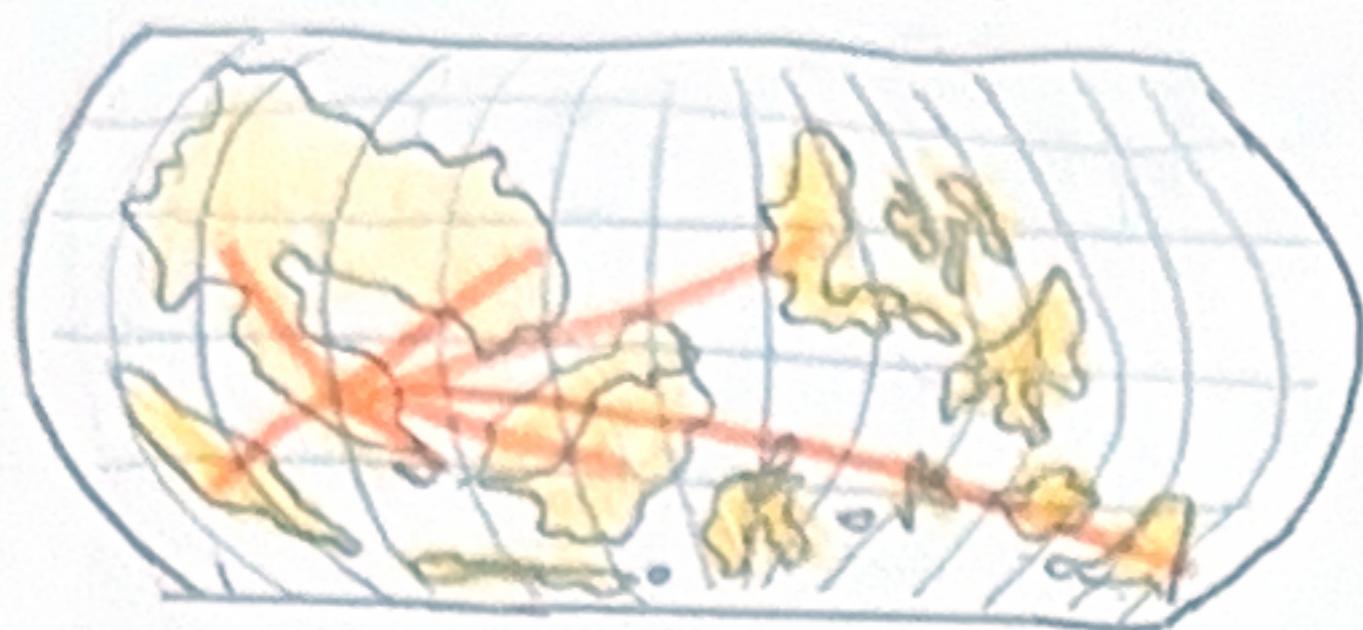
↓
Analyse factors, demographics, and also flow of tourism from country to country

DISCUSSION

pros	cons
<ul style="list-style-type: none">- Ben Schneiderman's mantra clearly shown- A lot of factors of tourism communicated- Global distribution of arrivals	<ul style="list-style-type: none">- May contain too much text explaining

LAYOUT

Malaysians tourism to ASEAN countries

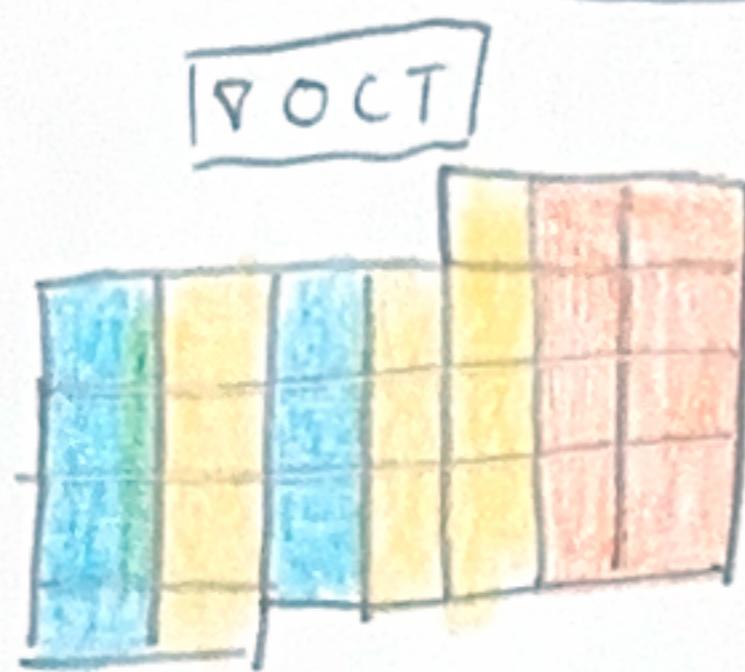


Malaysian's top travel goals

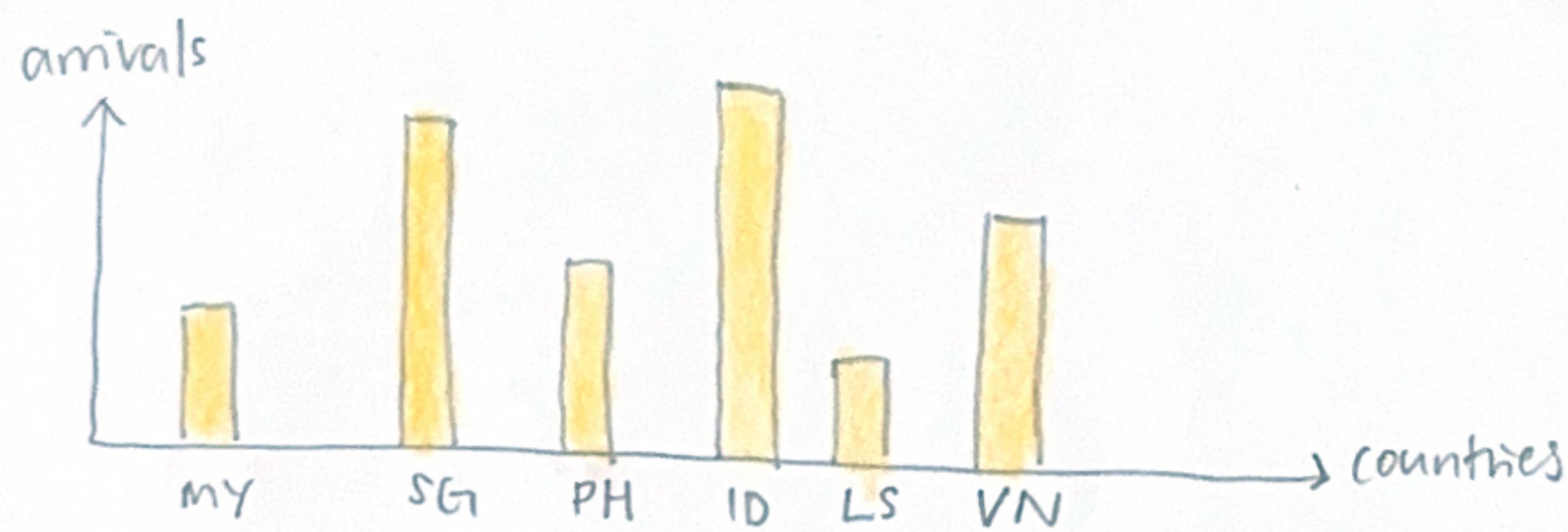


Words to describe ASEAN

Food	Singapore beaches corals	nasi lemak Weather Ho Chi Minh friendly community	Ayam Goreng cities nature
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Distribution of ASEAN visitors



When do people usually visit ASEAN countries?

Title : SDesignSheet

Author : Hsu Chyi See

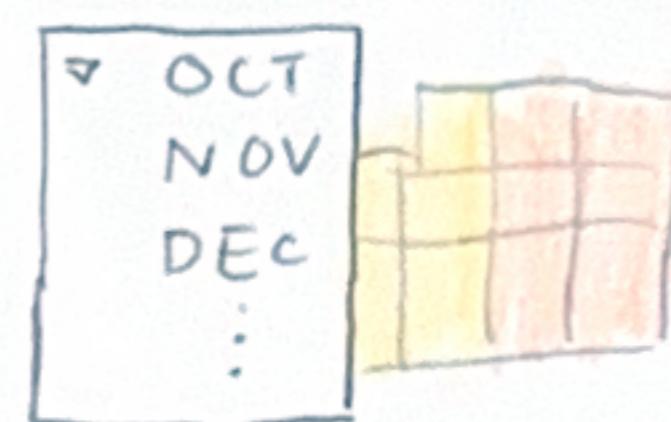
Date : 23 Sept 2025

Sheet : 3

Task : FIT3179 DVII

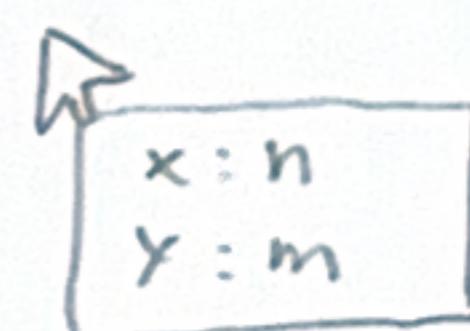
OPERATIONS

Month filters



- Similar to flight prices in a calendar view
- Switches calendar layout accordingly to selected month

Tooltips



- Standard tooltips across all visualisation idioms

Annotations



- Adds useful information that adds to user experience

FOCUS

This version explores a visualisation that focuses more on tourism within ASEAN countries

Start with flow map to show flow of tourism in ASEAN
Gives viewers better idea of countries frequently travelled to

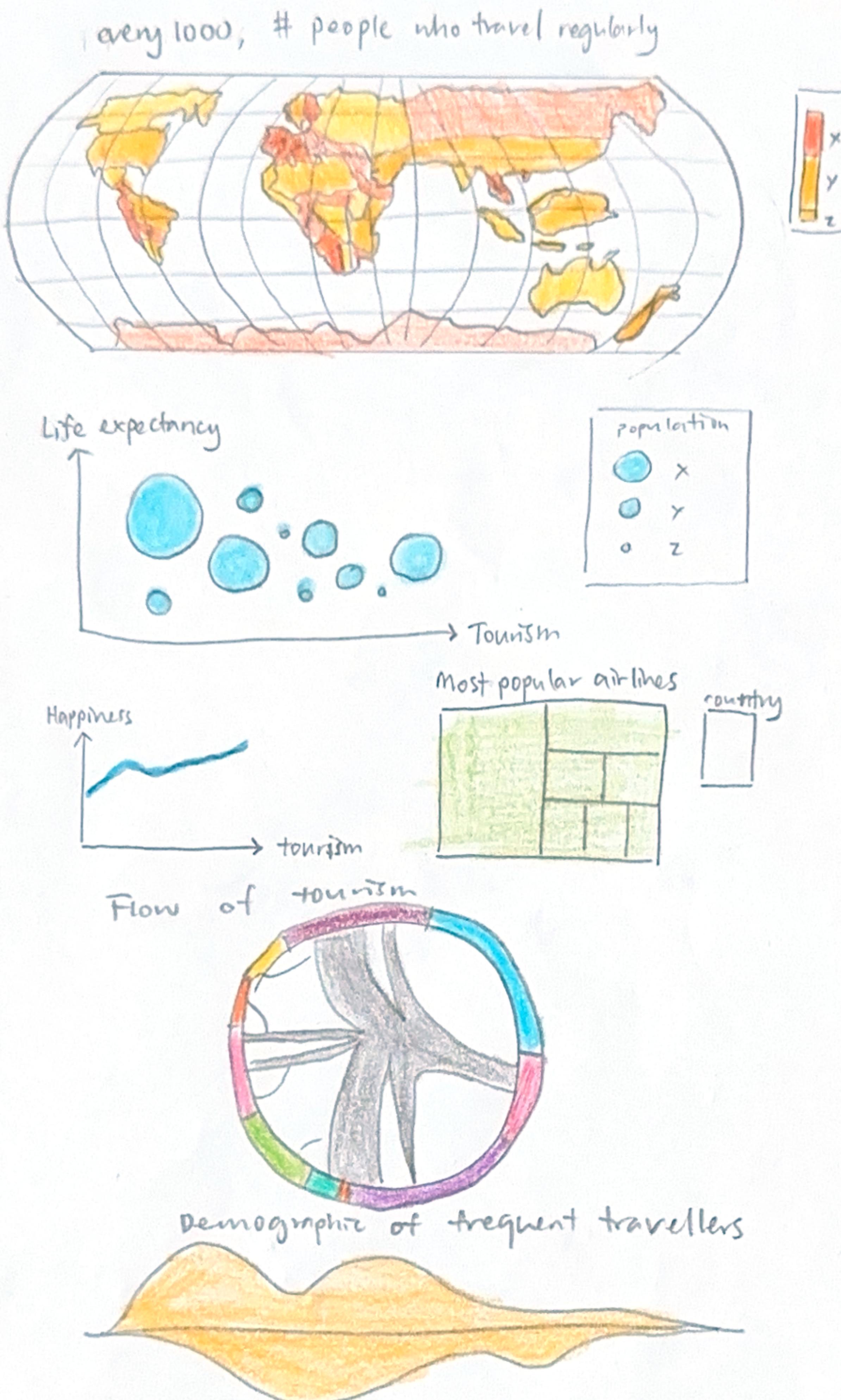
Analyse who and when ASEAN is most visited

Lastly, zooms out to see which countries are most visited overall

DISCUSSION

pros	cons
<ul style="list-style-type: none"> - Narrowed down focus is more specific - Calendar chart is unique and good for analysis 	<ul style="list-style-type: none"> - Not too many complex idioms existing

LAYOUT



Title : 5 Design Sheet

Author : HsuChyi See

Date : 23 Sept 2025

Sheet : 4

Task : FIT3179 DVII

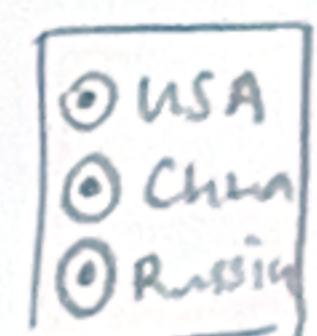
OPERATIONS

Filter

- choropleth map and bubble chart filters each other



Country filter in Treemap



- changes treemap accordingly to country

Tooltips

- chord diagrams, when hovered, display proportions

FOCUS

This version focuses more on the factors that allow travel within citizens.
factors : GDP, Happiness



using Ben Schneidemann's mantra, overview using choropleth explores factors more in-depth using subsequent idioms



The dashboard then shows the flow of travel (Chord)
Followed by "who" are more likely to travel (violin)

DISCUSSION

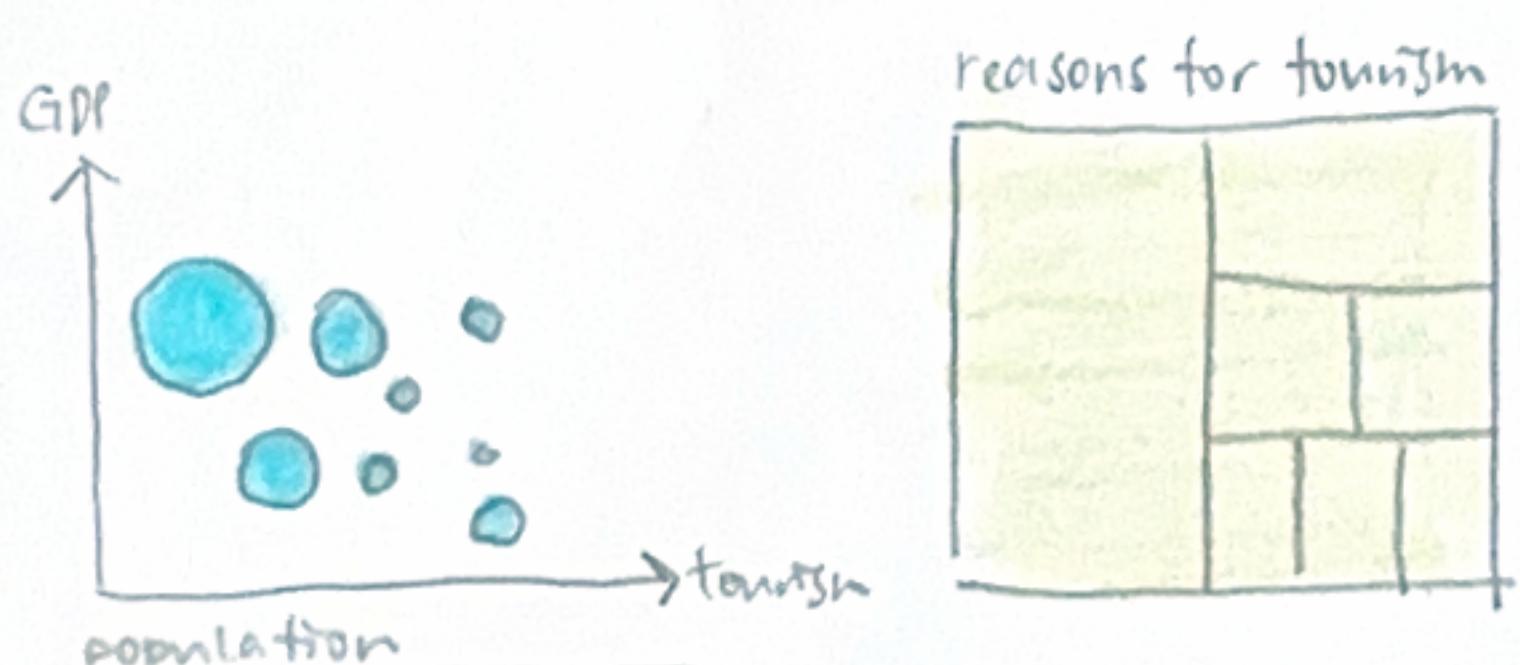
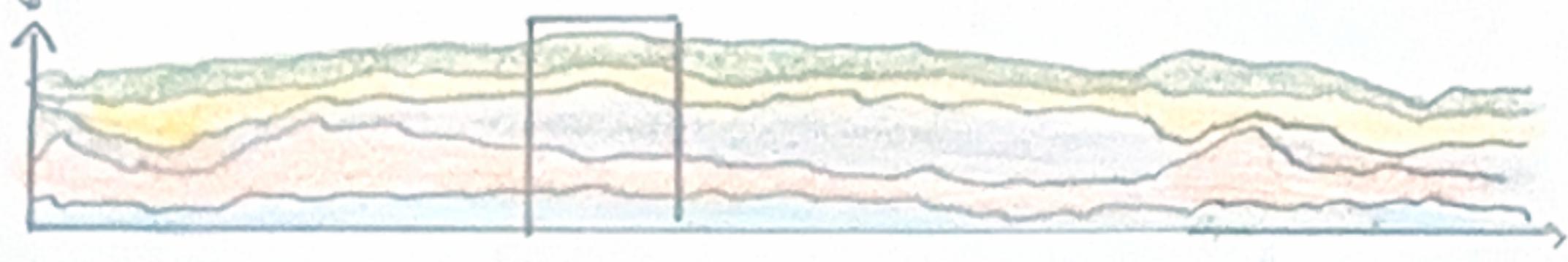
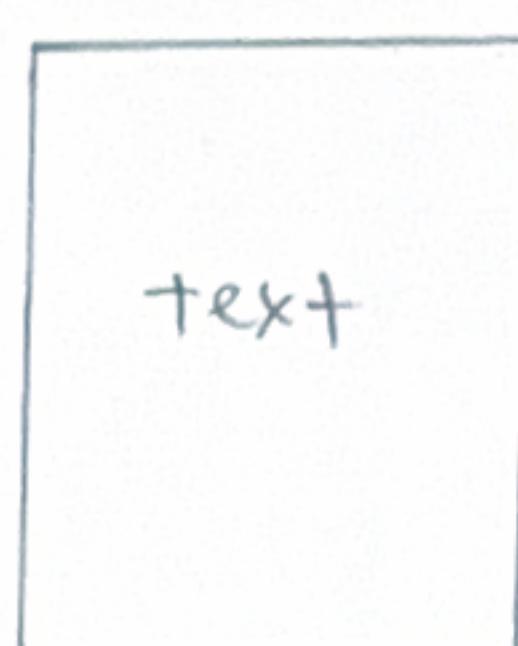
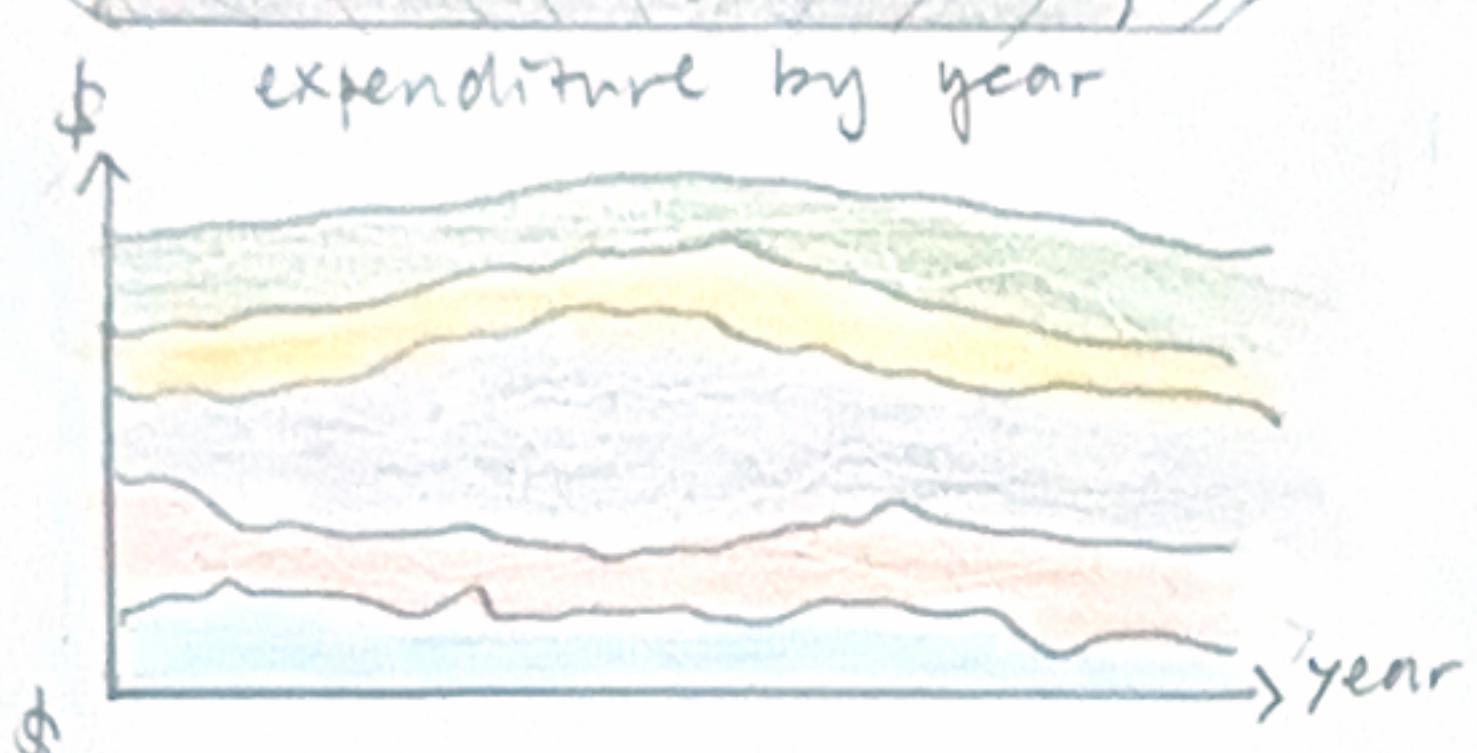
pros

- Bubble chart communicates much more information compared to normal scatter plot
- Treemap by country filter much more specific

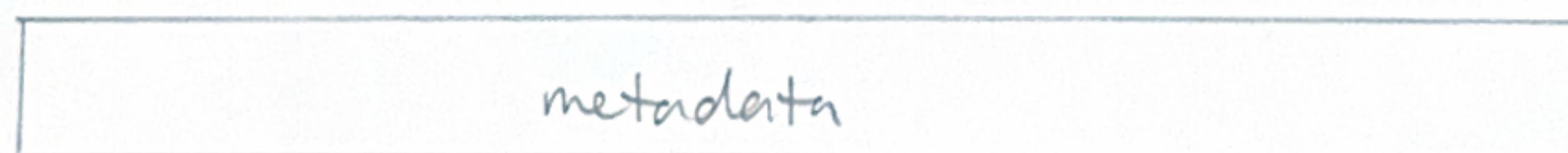
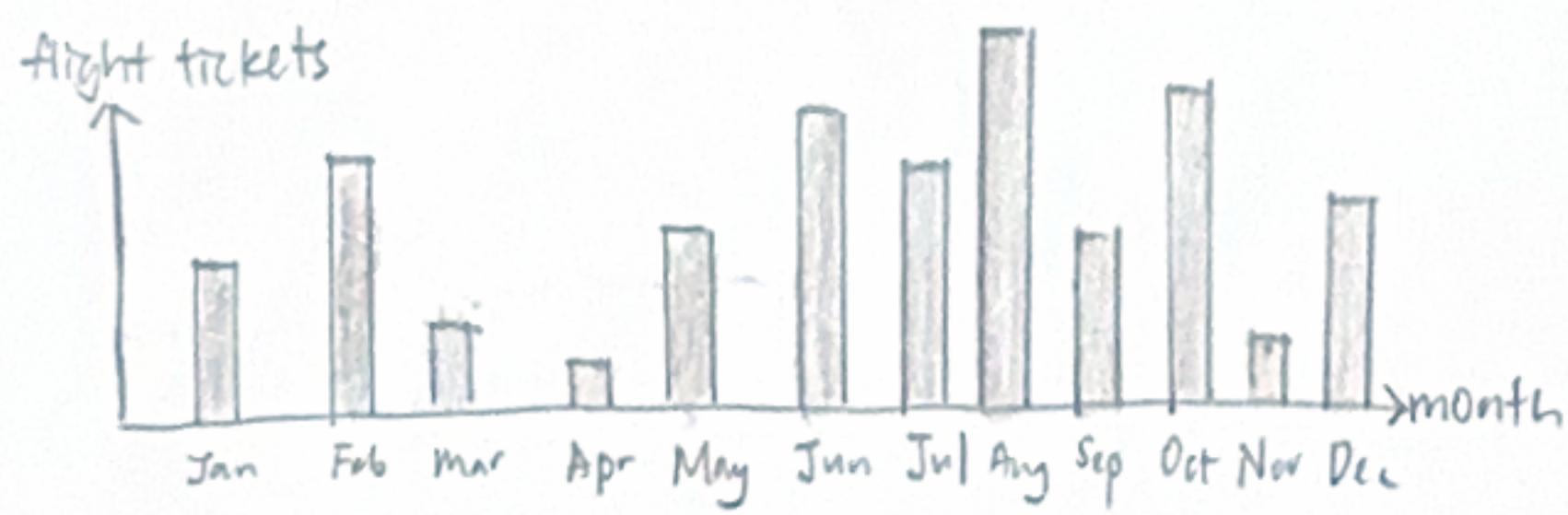
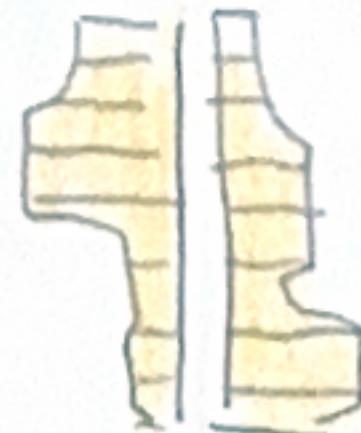
cons

- Chord chart may become too messy when visualising a lot of countries

LAYOUT



traveller demography



Title : S Design Sheet

Author : Hsu Chyi See

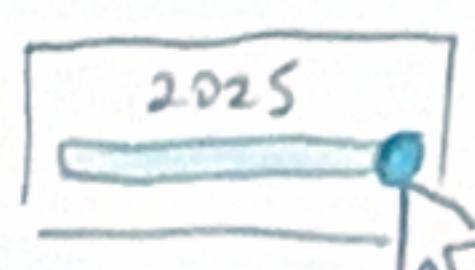
Date : 23 Sept 2025

Sheet : S

Task : FIT8179 DVII

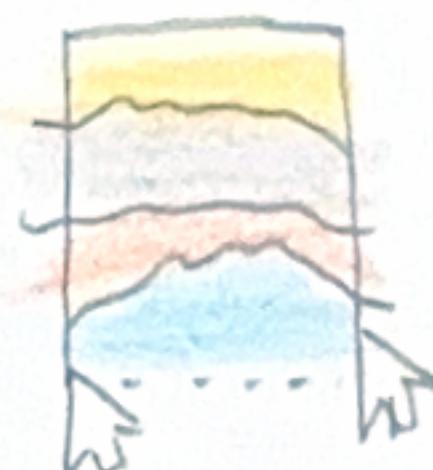
OPERATIONS

Year Slider - Graduated symbol app



- Sliders change the bubble sizes based on the year
- allows birds eye view on tourism trends

Filter on stacked area chart



- filters the main stacked area on top
- Uses Ben Schneidermann's mantra

Informative tooltips



- additional information encoded within tooltips

DETAIL

Data manipulation

- Python for aggregating NaN's and inner joins
- Excel for joining from the same data source

Software

- VScode
 - JavaScript
 - HTML for website layout
 - CSS for styling

Time estimate

- 2 hours / visualisation idiom
- 1 hour for data cleaning
- 1 hour for analysis
- 1 hour for adding annotations
- 1 hour for styling elements

FOCUS

Focus on global tourism trends



How much do tourists spend ?



Factors that impact tourism + how many people travel frequently



who travels? When are flight prices high?