

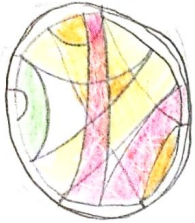
IDEAS

① Number of Tourists per Country

② Choropleth



③ Chord diagram



④ Proportional Symbol Map

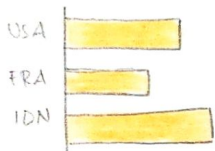


⑤ CO₂ Emissions

2a Area chart

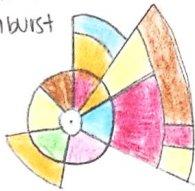


2c Bar chart

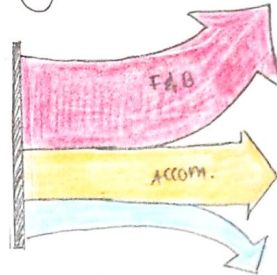


③ Tourist Expenditure

3a Sunburst



3b Sankey diagram

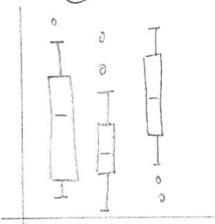


④ Average Length of stay

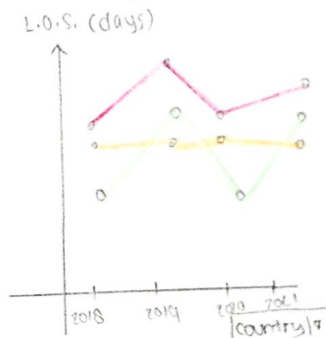
4a Heat Map



4b Boxplot



4c Line Chart



FILTER

① Break Down 3a

- Difficult to interpret
- make it into small multiples

② Remove 4a

- Like ①, it's difficult to interpret visualisation and draw conclusions.

CATEGORIZE

Number of Tourists

1a, 1b, 1c



CO₂ Emissions

2a, 2b, 2c



Tourist Expenditure

3a, 3b

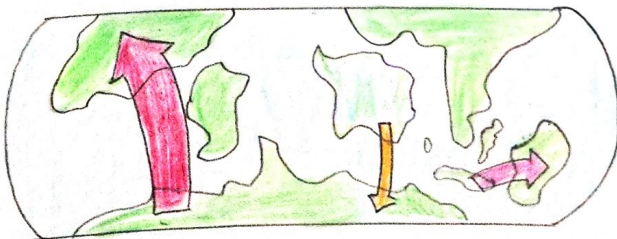


Average Length of stay

4b, 4c

COMBINE & REFINE

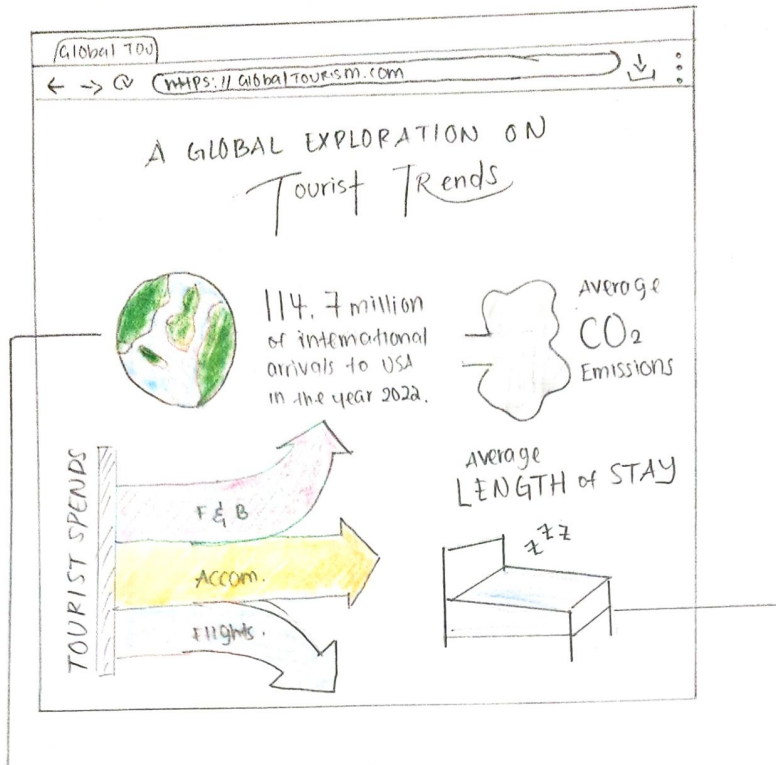
combine choropleth + chord diagram
= Flow map



QUESTIONS

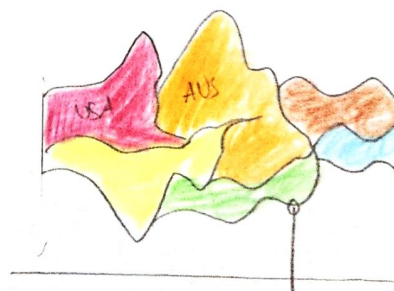
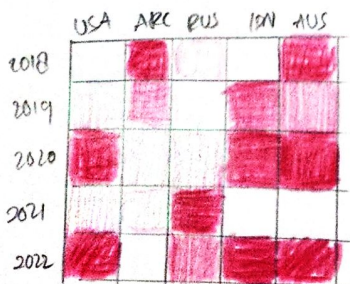
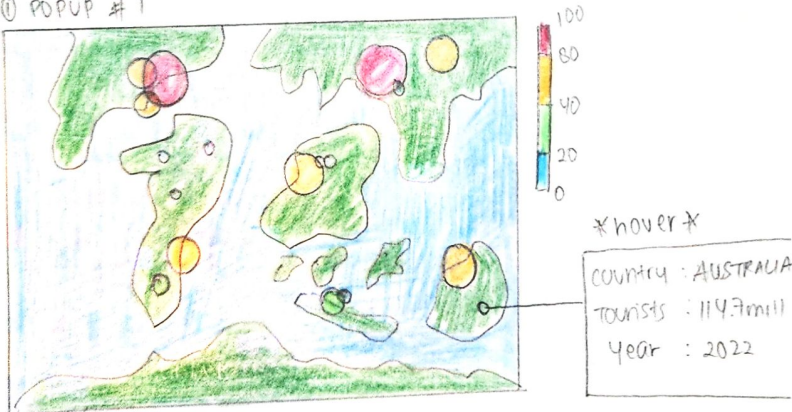
1. Does the visualisation communicate the data properly?
2. Is it implementable with vega-lite?
3. Are the colors color-blind friendly?
Is it attractive to audience?

LAYOUT



FOCUS / ZOOM

① POPUP #1



* no colour = no data for this country.

TITLE: DV 2

AUTHOR: ALICIA TIOPAN

DATE: 01/10/2024

SHEET: 2

TASK: Interactive website.

OPERATIONS

① SCROLLABLE

② TOOLTIP

country: USA
Tourists: 114.7 million
year: 2022

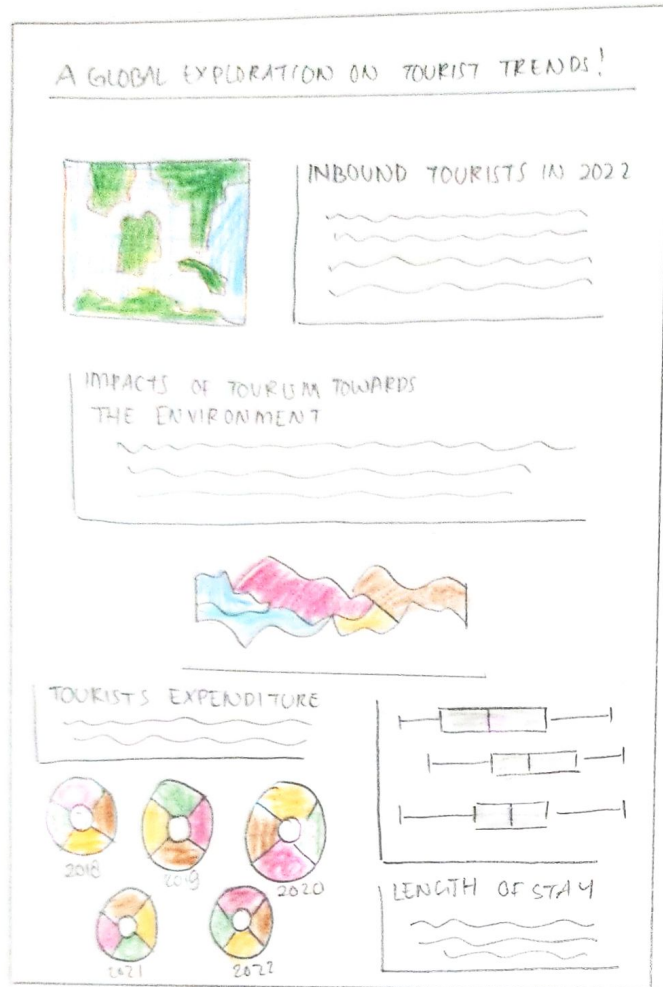
③ Clickable + POPUP

- When user click on the icons on the 'Layout' screen, a popup of the respective idiom will show up to illustrate further details.

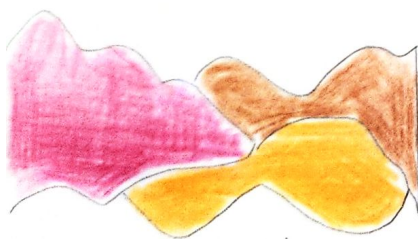
DISCUSSION

1. Is it efficient?
 - Not really, audience can't make conclusions in first glance
2. Is there enough context?
 - No, need more description to explain charts
3. Too much chart junk
 - Excessive icons
4. Choice of idioms
 - Overlaying symbols might make it difficult to get exact insights of data
 - might be hard to compare with heat map
 - Source 4 looks out of place

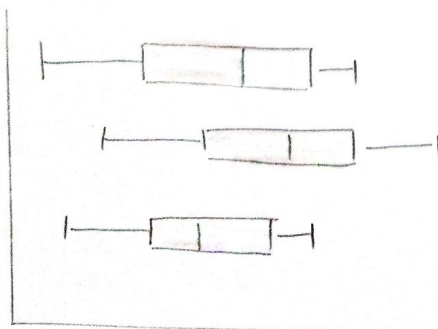
LAYOUT



FOCUS / zoom



Area : country
Size : CO2 Emissions
Channel : color hue
* No Red - Green combo



x axis : colour

y axis : Length of stay

mouse hover over
1 of the small
multiples to show
tooltip -
extra insights
on data



Category : Accommodation
Amount : 11.4 million

TITLE : DV 2

AUTHOR : ALICIA TIOPAN

DATE : 01 / 10 / 2024

SHEET : 3

TASK : Newspaper (storytelling) Report

OPERATION

① Scrollable

- vertical scrolling to access all description + idiom

② Tooltip

- when mouse hovers data attribute, tooltip will show up as such

country : AUSTRALIA
Q1 : 1.11 days
median : 5.07 days
Q3 : 7.43 days
Year : 2022

DISCUSSION

1. is the orientation too 'generic'?
2. is the description too overwhelming?
3. Did we keep sightlines to a minimal?
or is there any other arrangements to make it look cleaner?
4. is the information sufficient for audience to gain insightful information?
5. with only a dataset from 2018 to 2022, will it be appropriate to utilize a box plot?

LAYOUT

①

A GLOBAL EXPLORATION ON TOURISM

②

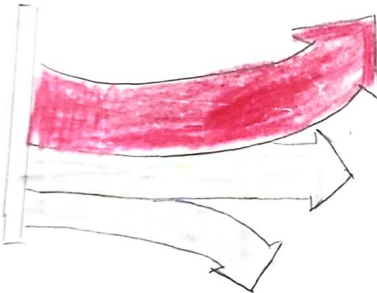
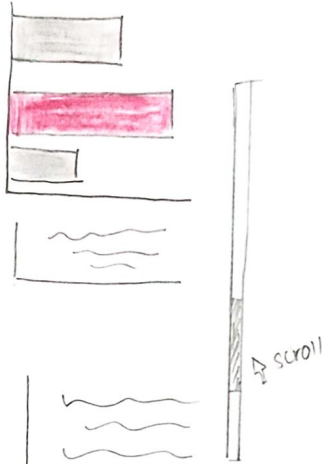


③

Avg Length of stay



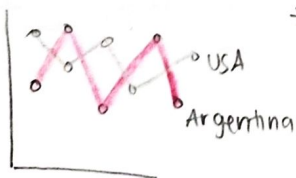
CO2 Emission



Focus / zoom

1. High emphasis on Figure-Around.

2. Line



* will contain annotated labels at end of each line for easy distinguish.

3. Tooltip (map)

Origin	: Indonesia
destination	: Russia
Tourists	: 10.4million
Year	: 2022

* include details on network connection.

TITLE: DV2

AUTHOR: ALICIA TIOPAN

DATE : 1 / 10 / 2024

SHEET : 4

TASK : Interactive application

OPERATIONS

① scrollable

② clicking acts as filter

- clicking on a country on the map in ② will auto-filter for the idioms in ③

③ Figure - Ground

- In ③, only the selected country will have the most saturated color to divert attention and allow it to stand out from the background.

DISCUSSION

1. Will the flow chart be too clustered once all data is shown?

- might be ...

alternative: equi rectangular earth

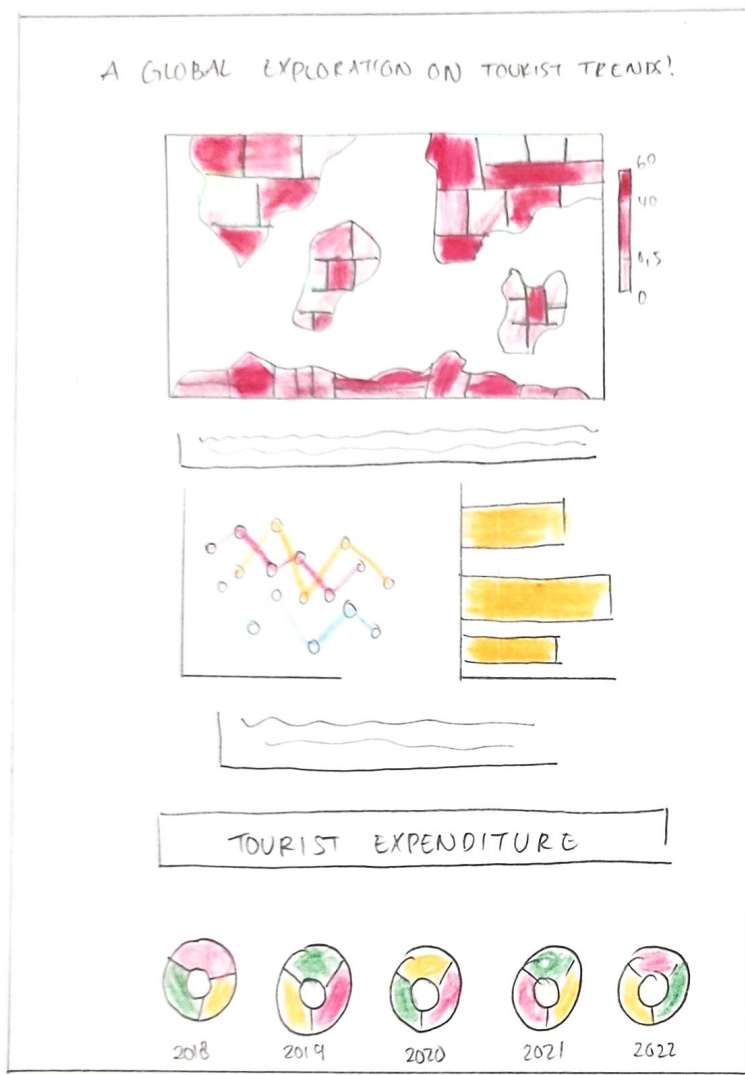
2. Will these idioms and operations be ideal to implement?

- Need to perform exploration

3. Is this approach too niche?

Should it illustrate more global data?

LAYOUT



TITLE: DV 2

AUTHOR: ALICIA TROPAN

DATE: 1 / 10 / 2024

SHEET: 5

TASK: infographic online poster

OPERATIONS

① SCROLLABLE

② FILTER

> Filter line chart by country



③ TOOLTIP

> Appear when hovering over
on attribute on the charts.

FOCUS / ZOOM

1. main focus will be on the map.
↳ number of international inbound tourists in 2022.
- 2.

Accommodation ⇒ Annotations

Sector : Food & Beverages
Amount : 11.78 million

DISCUSSION

1. Data sources

- Bea
- Kaggle
- Wikipedia

2. Data to be cleaned & filtered
with excel

3. Time to complete

- Data wrangling + cleaning - 2 days
- Visualisation - 5 days
- Add details - 2 days
- Finalisation - 2 days

4. Visualisations to be done with
VegaLite and published through
public Github URL.