

Topic: International Movement and Tourism

Ideas **IDEAS**

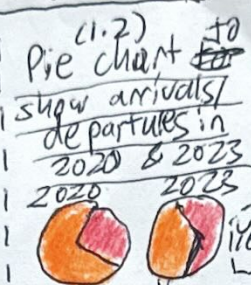
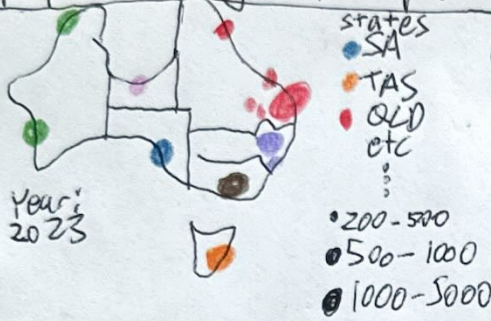
Sheet 1

Name Timothy
Beh

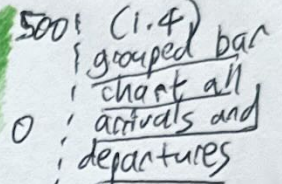
Date 09/10/24

International Crossings (1)

proportional symbol map for aircraft arrivals (1.1)



choropleth map of total arrivals per 1000 people per state (1.3)



Filter

- line chart (2.1), will be difficult to plot and see a lot of countries. will be unreadable
- pie chart, (1.2), will be easier to see difference with bar chart than angles.
- can combine donut chart (3.2) and bar chart (3.3) into one donut chart

Categorise

CATEGORISE

International Crossings: maps (1.1) and (1.3), bar chart (1.4)

Tourism: bubble plot (2.3), heat map (2.2), line graph (2.1)

Migration: area chart (3.1), donut chart (3.2), bar chart (3.3)

All have categorical + quantitative data

Combine & Refine

COMBINE & REFINE

1. Combine donut chart (3.2) and bar chart (3.3) to show migration arrivals and split amongst citizen/visa group



2. remove pie chart (1.2)

3. Split & classify proportional symbol map instead of continuous color size. Combine map (1.1) and bar chart (1.4) to show international crossings. Normalise data in 1.3

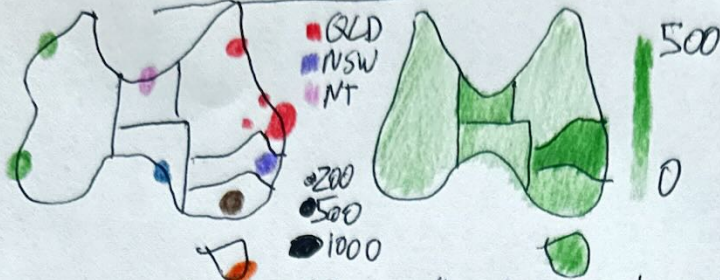
4. combine heat map (2.2) of different reasons for visiting and for how long into single view
5. change line chart to a/o

Summarise and question

SUMMARISE AND QUESTION

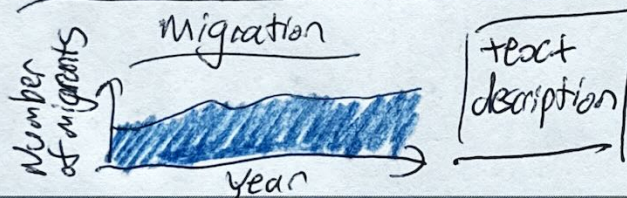
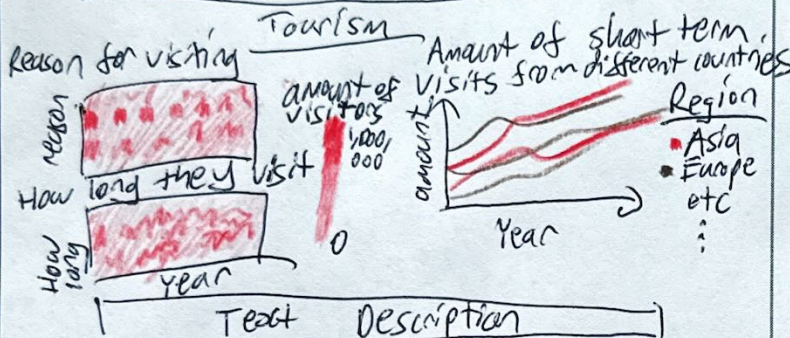
- Will the proportional symbol map allow people in tourism agencies see the amount of aircraft arrivals each year? Will they be able to compare the different states?
- Will the heat map have enough contrast to show interesting features of reasons for visiting Aus
- Will the order of visualisations help storytelling

International movement Filter Year



aircraft arrivals per state all arrivals per local people

Text Description



Part / Focus

- There is no visualisation that is the main focus. All visualisations share the same hierarchy.
- Colour coded text will also be used to help readers identify the categorical data.
- when region in highlight line chart is selected, the countries in that region are highlighted as they are the focus.
- Magazine style as visualisations are accompanied with text description

Title International movement and Tourism

Description

shows international movement patterns

Components / Operations

- filter for proportional symbol map and choropleth map to filter the years.
- Able to zoom into the map
- when selecting legend for line chart, the regions countries in that region will be highlighted
- tool tips will be visible when hovering over all charts

Pro & Cons

Pros

- quite symmetrical and story telling is evident with top to bottom approach
- Does not have single area filters will allow audience to compare arrivals from over the years

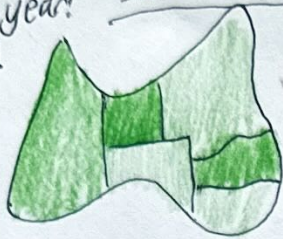
CON

- the two maps might be too similar and tell the same thing
- only one chart for migration

Filter year:

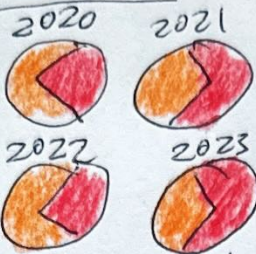


International Movement



all arrivals per 1000 people

Text



Total arrivals and departures

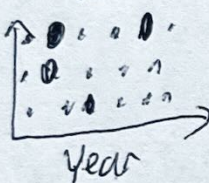
Text

arrivals • departure

Tourism

number of visits from different countries

country



Year

number of visitors

- 200
- 2000
- 20000
- 200000

why people visit Aus



number of visitors

migration

Filter years:

Text

Aus
NZ
temp

split between visa groups / citizenship

Parti / Focus

- No visualisation here is the main focus.
- Balanced hierarchy
- Magazine style set top to bottom read
- ~~pressing the~~ selecting the legend in pie chart, will highlight the selected & arrivals or departures. This gives more focus
- the donut chart to show migration numbers is smaller than other visualisations as it is the ~~least~~ least focused visualisation

Name ~~Timothy~~ Timothy Beh

Date 09/10/2024

Title International movement and tourism

Description

shows international movement patterns

Components / Operations

- filter years for choropleth map
- can filter years for donut chart
- can zoom into choropleth map
- when selecting legend of pie chart, the arrivals or departure will be highlighted

Pro & Cons

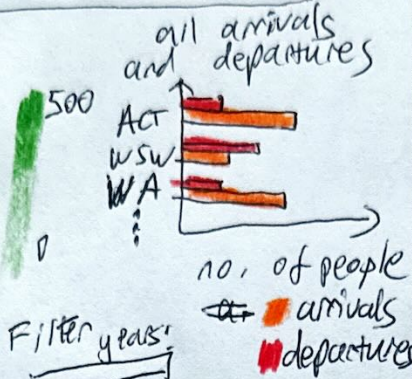
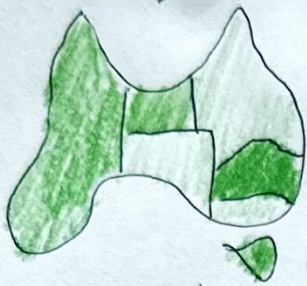
Pros

- balanced layout
- good horizontal and vertical sight lines
- Magazine style provides good storytelling

CONS

- no hierarchy for visualisations
- pie chart, may be difficult to see angles

International Movement

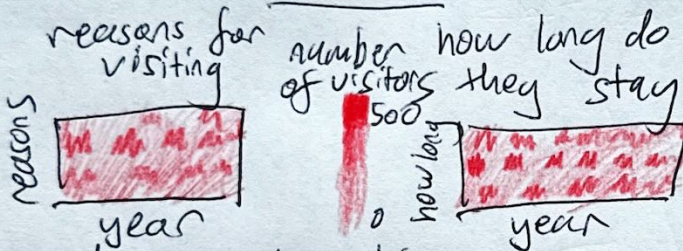


all arrivals
per 1000 people
per state

Filter years

text

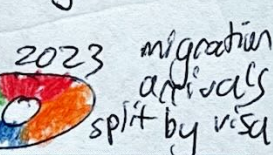
Tourism



Legend

temporary 2013
permanent
etc

Migration



Parti / Focus

- The main visualisations for focus are the choropleth map and bar chart as they are larger
- Tourism is the section with the second most focus as the visualisations are the 2nd largest
- migration section has the least focus as the visualisations are the smallest in size

Title International movement and Tourism

Description

shows international movement patterns

Components / Operations

- Able to filter years between 2013 and 2023 for bar chart and choropleth map
- when pressing ~~on~~/selecting on heat map, the box will be highlighted
- when selecting legend in donut chart, that proportion will be highlighted

Pro & Cons

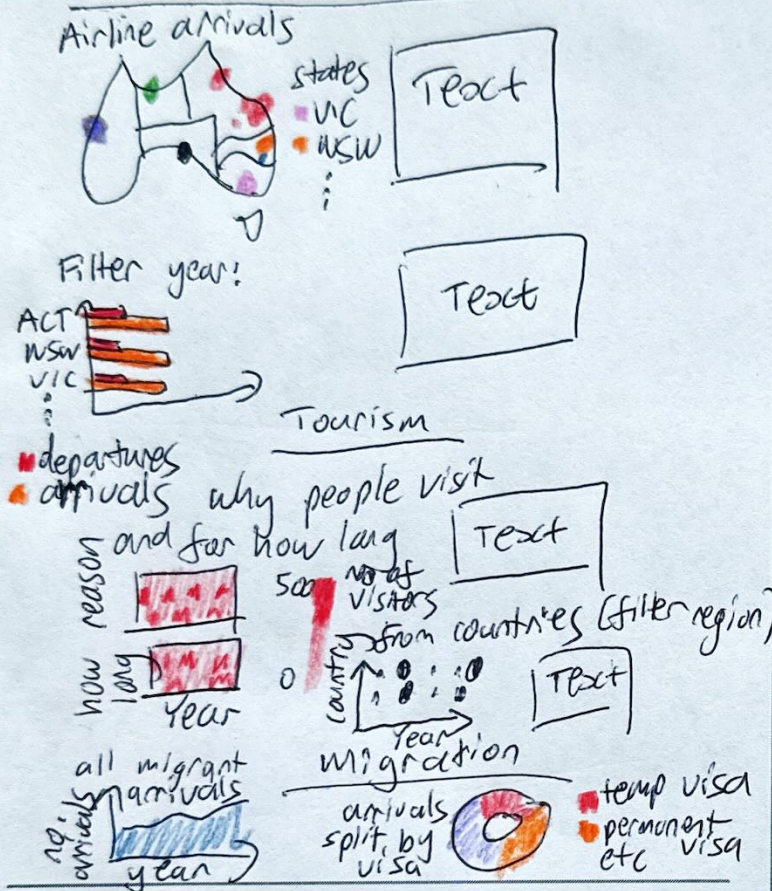
PROS

- very symmetrical
- very readable
- can filter years which helps storytelling

CONS

- lacks text description
- too many different colours

International Movement and Tourism



Parti / Focus

- The map and bar chart will be the main focus. This is because they fall under the main title
- Tourism and migration are subtitles, so they have less focus
- The zoom function for map will help users focus on different states

Sheet 5

Name Timothy Beh

Date 09/10/24

Title International movement

Description

show international movement patterns

Components / Operations

- can filter year of bar chart and map
- can zoom into map
- if legend of bar chart is selected, corresponding bar will be highlighted
- the area chart ^{will} have an interval filter which changes numbers in donut chart

Details

- use javascript, vega lite, CSS and HTML
- equatio pivoting and data cleaning will be performed with excel and vega lite
- data coming from Australian bureau of statistics
- finish visualisations (2 days)
- finish text (2 days)