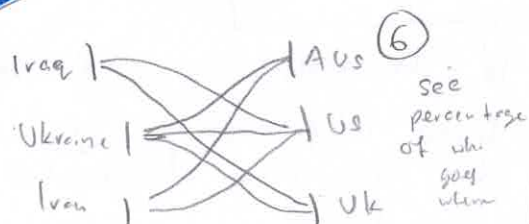
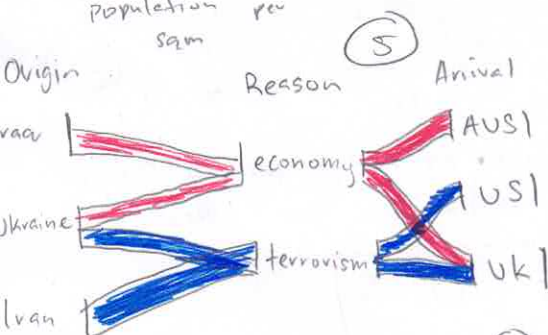
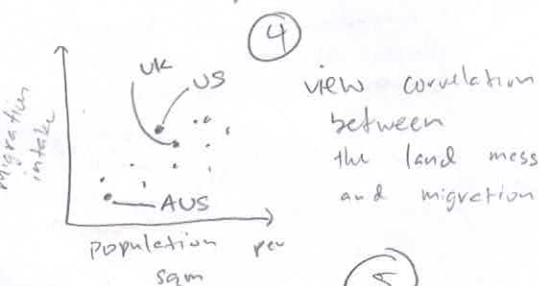
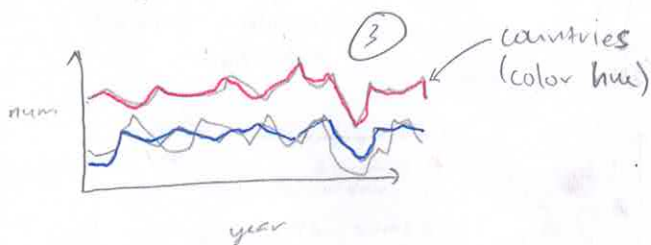
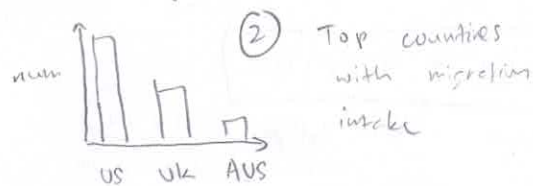


IDEAS



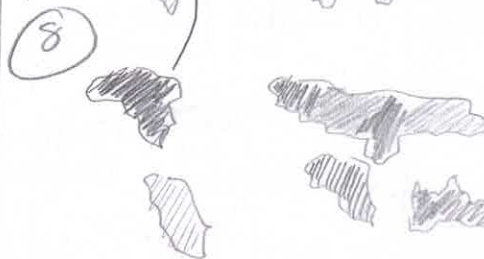
QUESTIONS

- Are the graphs doable in Vega lite
- Can I access migration data for all different
- Does graph 2a have too much info, might have to be reduced to continent instead of country
- Are the graphs presented, the best way to display that information

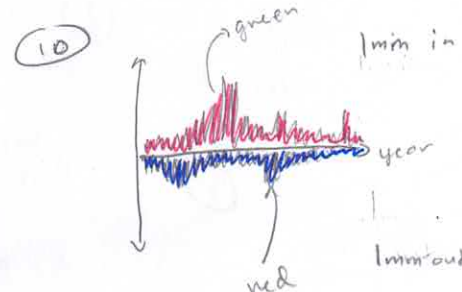
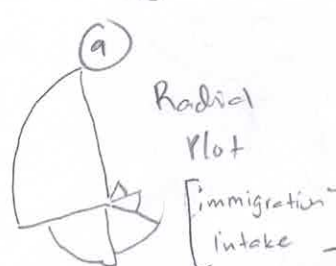
Internet Usage



does the advancement of the country effect its immigration in



Similar, does income have that correlation



CATEGORIZE

Reasons for immigration - 4, 5, 7, 8

Immigration comparison between comp - 1, 2, 3, 6, 9

- 6, can help see the percentage of input & output between countries

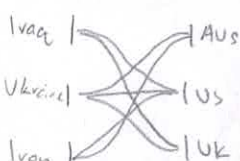
FILTER

- ⑦ & ⑧, having 2 maps can be distracting

- ⑤ & ⑥, show the same info just with the reason for immigration, might be hard to find this data

COMBINE & REFINE

⑦+⑧ 1a

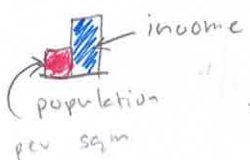
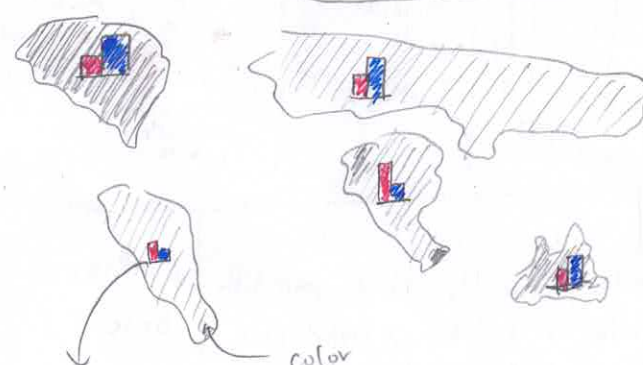


- easier to view the transfer percentage

- the viability to create in Vega life is still low, so simplifying is better

Author: Thytus Benjamin
Sheet 1
Date: Oct 3 2024

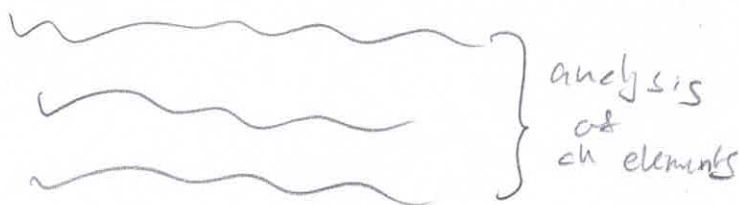
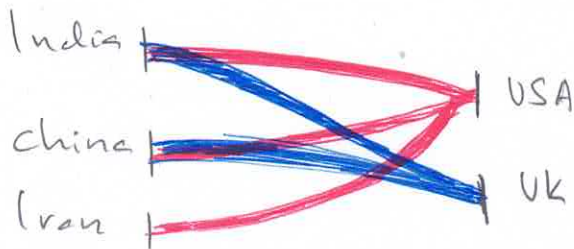
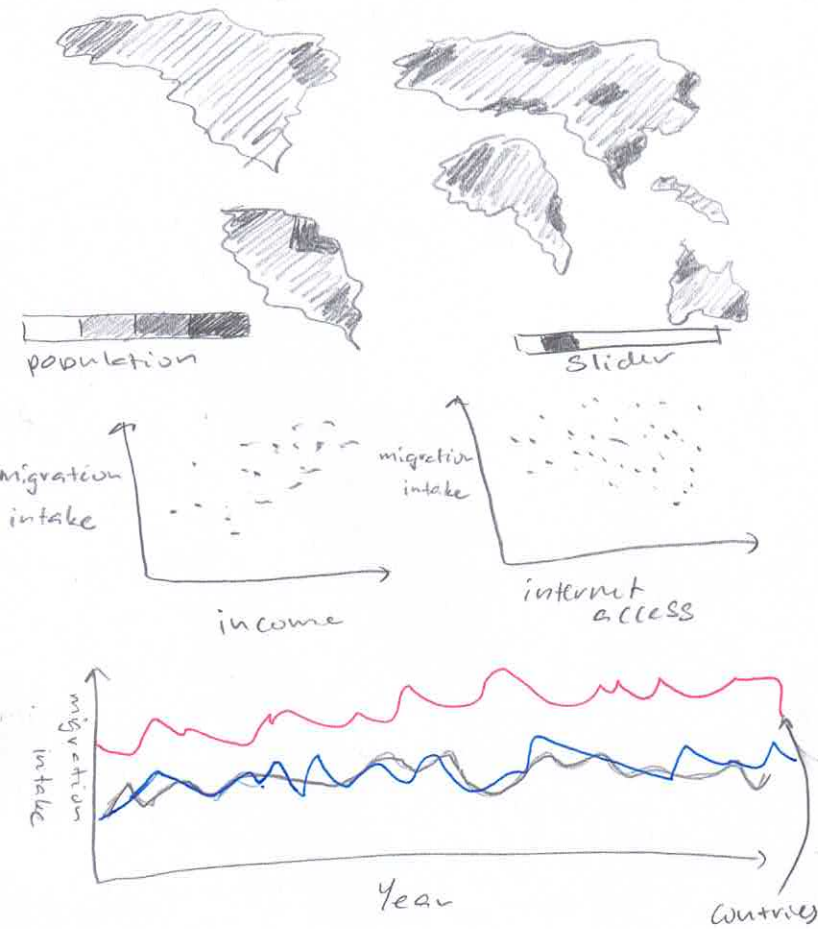
⑦+⑧+④ 2a



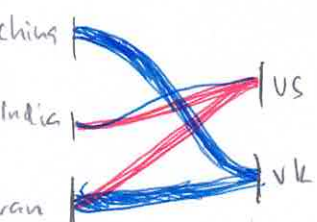
color saturation [internet usage]

- combines information from 3 graphs making it really insightful

LAYOUT



FOCUS



Sankey to help see the flow of migration between countries

FOCUS

slider

- To filter through and grey out countries lesser than threshold
- Set using slider.

OPERATIONS

- Hover over chart elements like sankey line connection or dots on scatter plot, to reveal respective chart info
- Slider to set threshold for maps to view graph information better.

DISCUSSIONS

PRO

CON

- slider for easier view and analysis of chart
- the line chart is easy to compare against different countries
- layout consistency

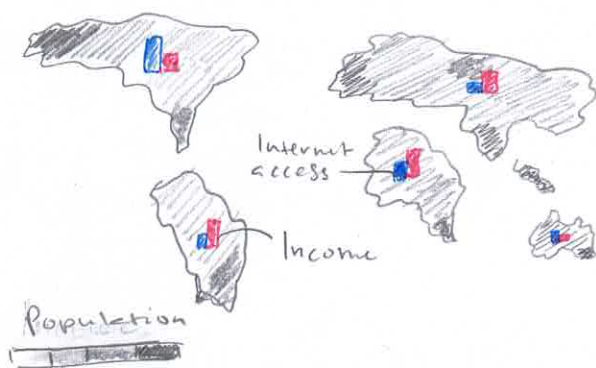
- creation of Sankey might be difficult
- lacks storytelling and analysis connecting charts

Author : Thytus Benjamin

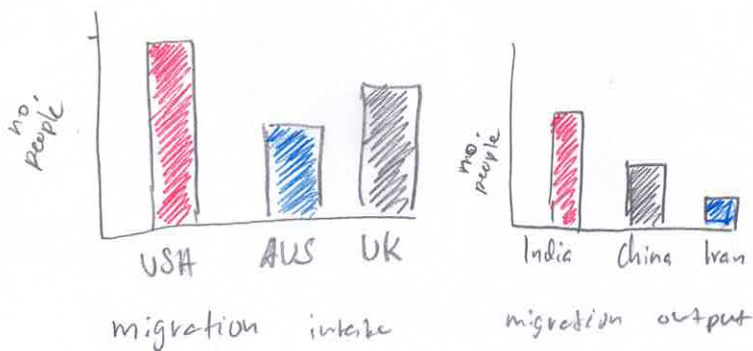
Date : 5/10/2024

sheet : 2

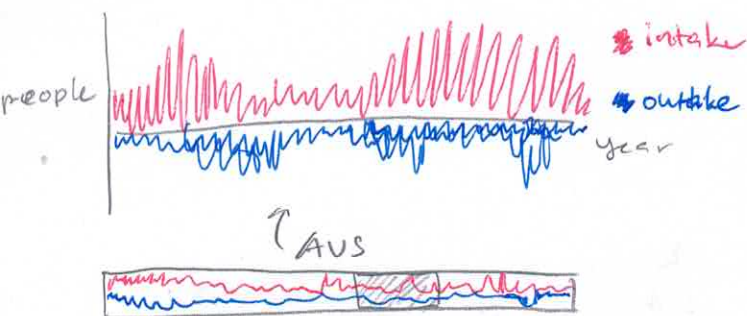
LAYOUT



analysis on attributes



analysis



FOCUS

- Concat vertically, to zoom in onto certain time periods to help analyse certain time periods easily

FOCUS



scale representing population of each state/country

- income of each country
- no. of people with internet access

3 attributes onto one graph

OPERATIONS

- Hover over the respective chart elements for tooltips representing chart info
- Concatting over the stacker bar chart, to zoom into certain time zones

DISCUSSIONS

PRO's

- Concat allows focus on time periods
- the bar chart on the Map presents information efficiently

CON's

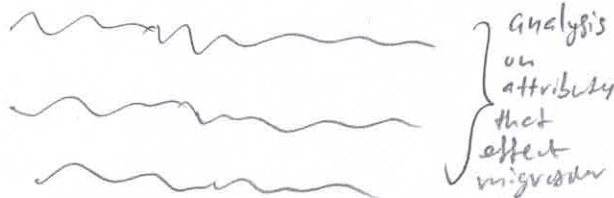
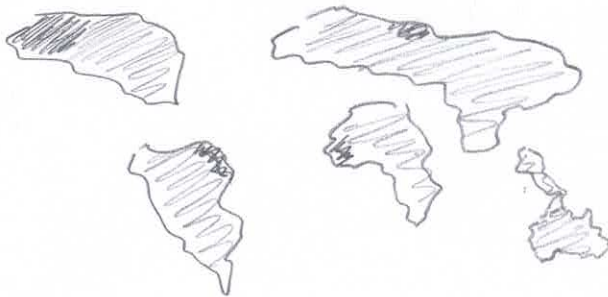
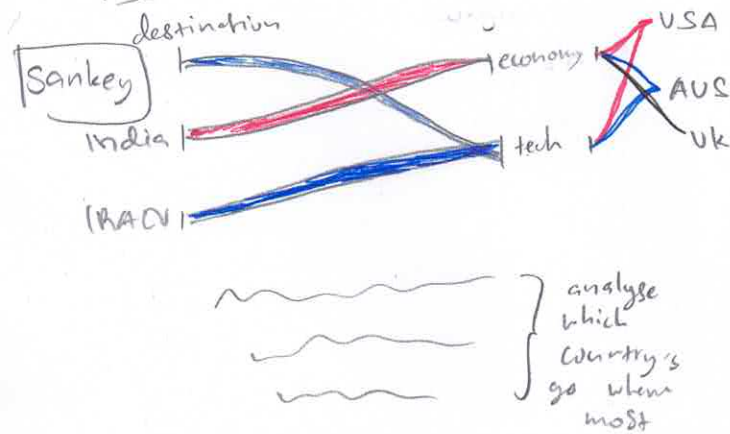
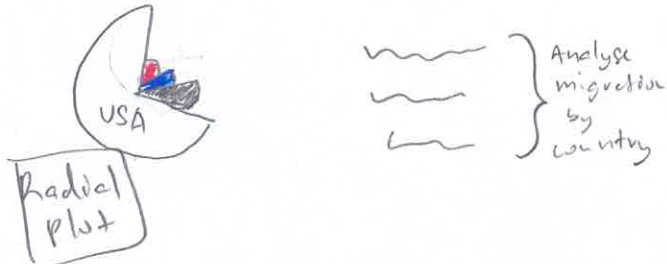
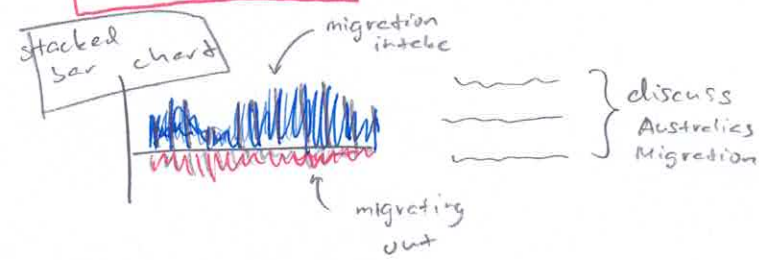
- Reproducibility, creating a bar on the map might be quite difficult to create
- Storytelling is all over the place, seeing effects and then global analysis is inverse

Author : Thytus Benjamin

Date : 5/10/24

sheet : 3

LAYOUT



FOCUS

- Story telling
- analysis of Aus migration then global analysis (radial & sankey) then see attributes that affect it

FOCUS

- Unique graphs & complexity of visualisations
- Drop down
- plan to analyse at least 3 attributes, instead of having 3 maps next to or below each other, the drop down allows interaction between the 3

OPERATIONS

- Hover over the selection chart elements for tooltips representing information clearly
- Slider for map, controlling lower limit of element on chart
- EG. 200, any element below 200, turns grey

DISCUSSION

PRO

CON

- Complexity
- layout for 3 maps, is unique and pleasing
- Length & Area channel, allowing easy analysis of density

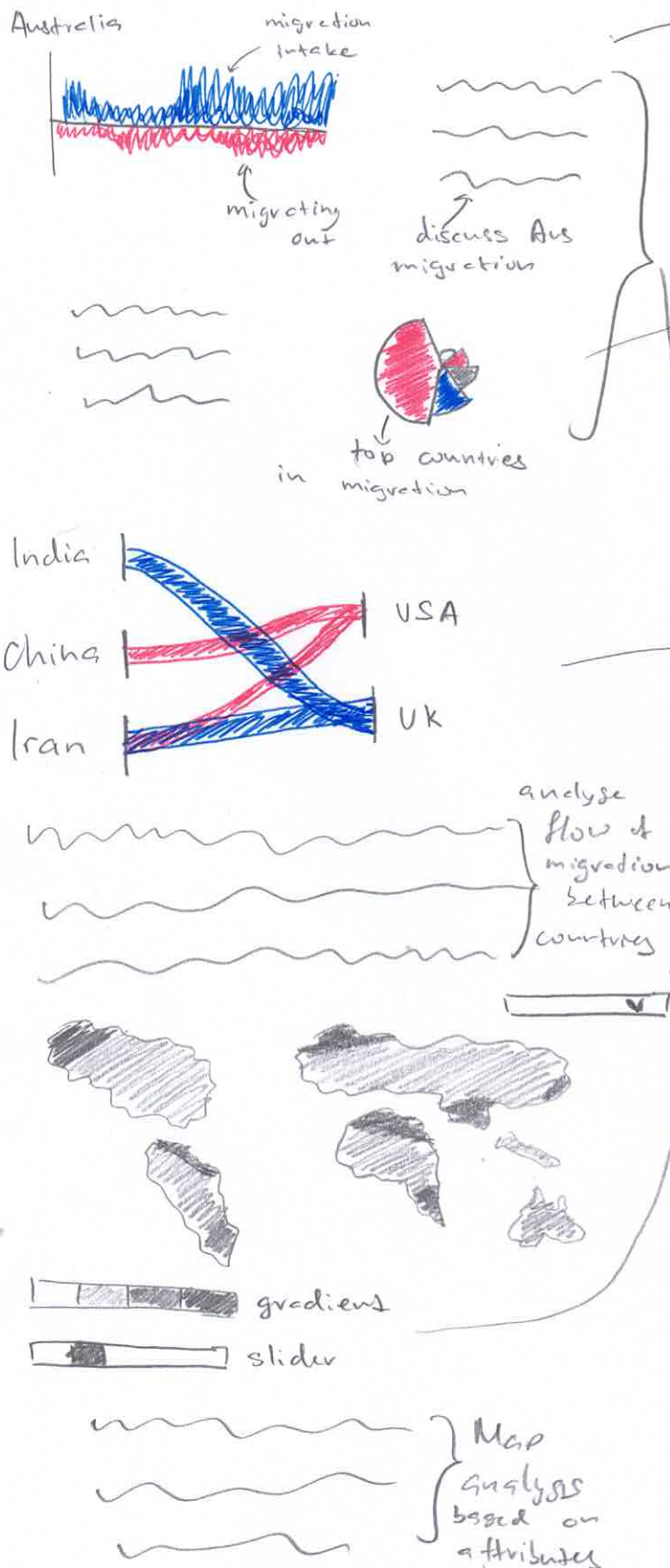
- Data Set for Sankey is hard to find
- Sankey hard to connect
- Drop down to work correctly

Author : Thythir Benjamin

Date : 5/10/24

Sheet : 4

LAYOUT



PROCESS

Stacked bar chart, treat people leaving as negative seeing it that way makes it easy to distinguish the gap between leaving and arriving

Radial over PIE chart Since in pie chart we compare area only, in radial we also compare length which is easier to distinguish

50% / 50% sightline

Able to see the flow of migration between countries

Drop down, to switch between 3 different attributes that could effect the migration intake & outtake

Slider to filter values of the respective attributes for easier analysis

OPERATIONS

- Hover over the relative chart elements for tooltips representing information clearly
- slider for map, controlling lower limit of element on chart E.G. 200, any element below 200, turns grey

DETAIL

Hardware / Software Requirements

Design Details

- colour red & blue orange & purple red & green
- ↳ for map & bar chart

- Vega Lite
- CSS
- HTML
- JS

Author : Thytus Benjamin
Date : 5/10/24
Sheet : 5

Time to Build : 2 weeks

- Income by Country
- Internet as Population percentage by Country
- Population

Data Sets

- Australian migration in & out by year
- Countries by highest migration
- Migration origin to destination