FDS - FIT3179 V2

Project	FIT3179 Data Visualisation
Due	@October 23, 2024 5:56 PM
Status	Not started
Type	Task

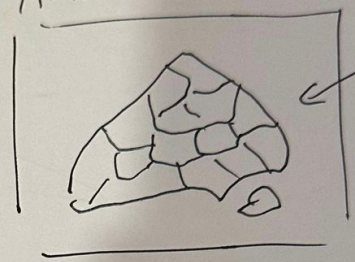
Description

FDS Sheet 1 - Allister Lim

Ideas

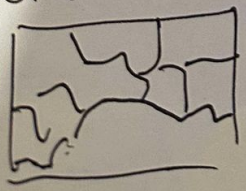
Data Avail:
- Income by Postcode (ATO)
- Vic or Aus?
- can't do World?
- Income by Suburb/Area (ABS)
- Dot Maps vs Chloropleths?
- ATO Tax Dataset for Aus

Why?
- For policy enforcers
- For individuals who want to know where most income is generated from?

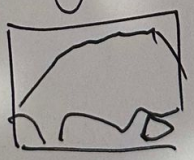


Pie chart for Income of Vic } generate using ABS Dataset?

~~Data~~ Filter
- Use income by Post code from ATO
- .geojson from Studio 10 of Vic



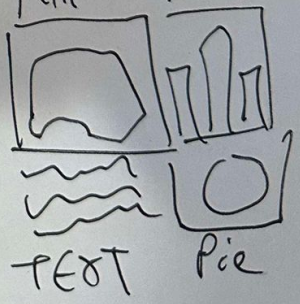
~~Group~~ CATEGORIZE
- Map containing Income Data of Aus

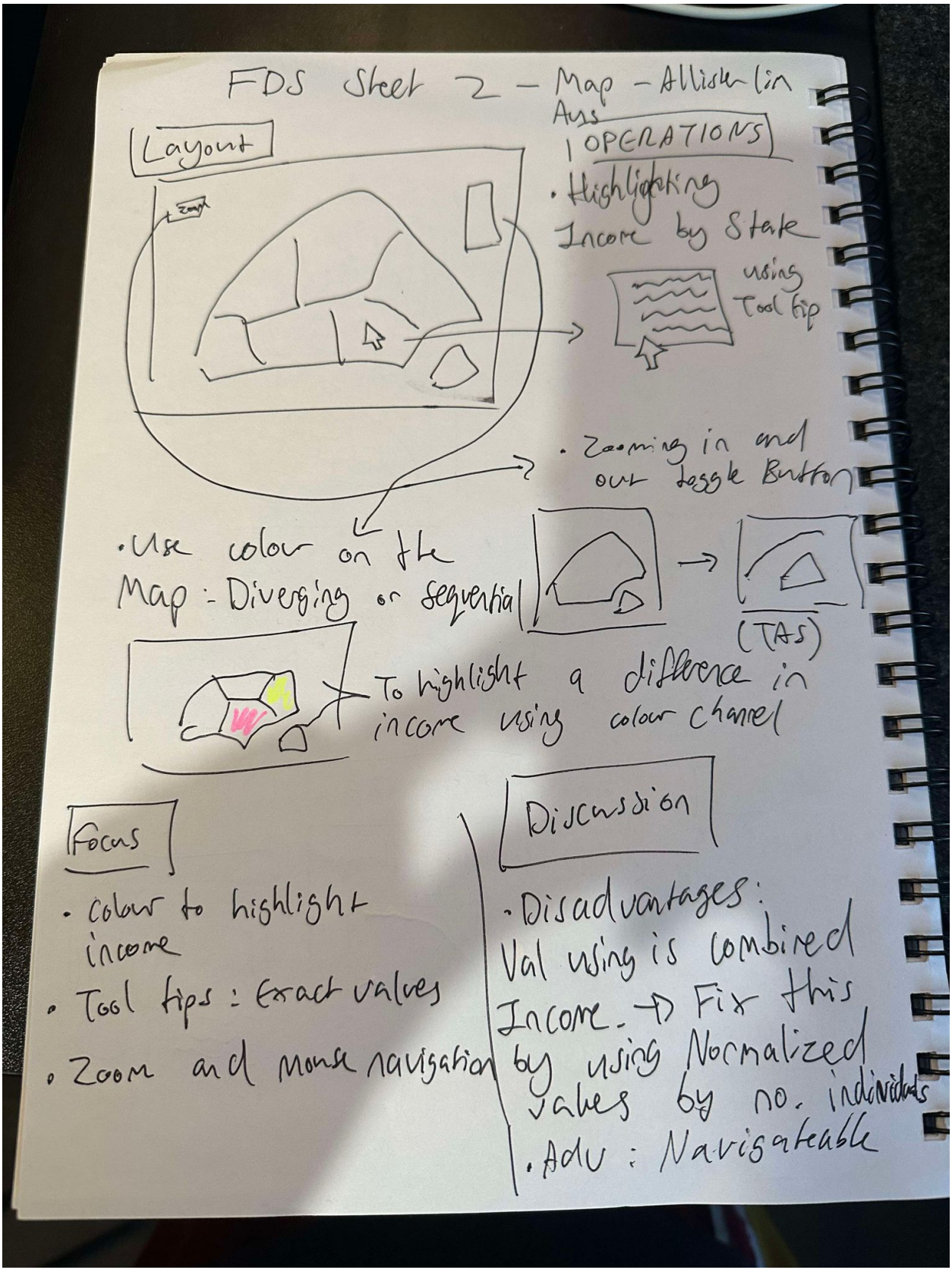


- Bar } Pie highlight ordering

Combine } Refine

MAP BAR




FDS Sheet 2 - Map - Allison Lin Ass
Layout
OPERATIONS
• Highlighting Income by State
using Tool tip
• Zooming in and out toggle Button
• Use colour on the Map - Diverging or sequential
(TAS)
To highlight a difference in income using colour channel
Focus
• Colour to highlight income
• Tool tips : Exact values
• Zoom and mouse navigation
Discussion
• Disadvantages:
Val using is combined Income. → Fix this by using Normalized values by no. individuals
• Adv : Navigateable

FDS Sheet 3 – Vic – Allister Lim

Income

OPERATIONS

- Similar to state but focused on suburb data.

Tool tip

Total income: qqq, qqq
Tax: qqq, qqq.
No.: 100

Colour channel B

- Will need more ranges b/c vals go from 5 digits to 9 digits.
- Becomes more complicated w/ Normalized vals, must ensure ranges are stable. ← Preprocess required.

→ copied from Studio. 10: Ability to center around diff areas of Vic, not just Melb.

ie. geelong vs Melb CBD

Focus

- centering around diff areas
- Scaled vals for diff metrics.

Discussion

Disadv: Many metrics...

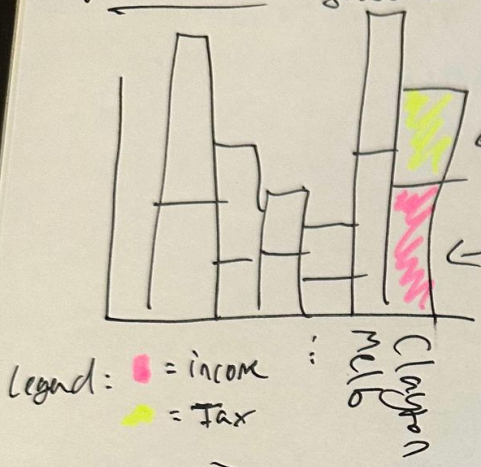
- Need to toggle across diff types of income Metrics

Adv: shows suburb disparity well.

FDS sheet 4 – Bar chart – Allister Lim

Layout

stacked Bar Chart of suburbs



This stacking highlights how much tax vs income for a suburb

Legend for differentiating b/w values

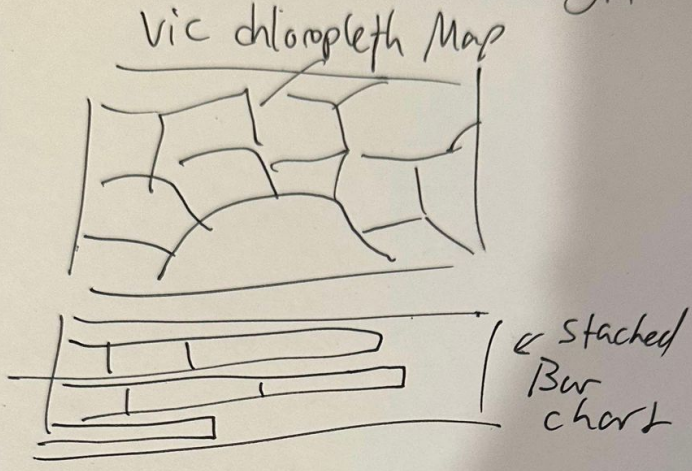
Focus:

- This will focus on comparing diverging or opposite vals from dataset ie ncome vs Tax

Discussion

- Grouped or stacked
- Pie chart was not a good fit, since we want to compare vals.

FDS Sheet 5 – Realisation Design



- R & Python for preprocessing as current .csv from ATO only contains $ by Post code.
- . Geojson/Topojson taken from Vic Map in Q2 of studio10 (the house price in Vic chloropleth)
- Use Vegalite of course, html, CSS, github
- Time: 5 hours Data Pre process
  5 hours Map
  5 hours Bar
- Hardware: . M3 Mac