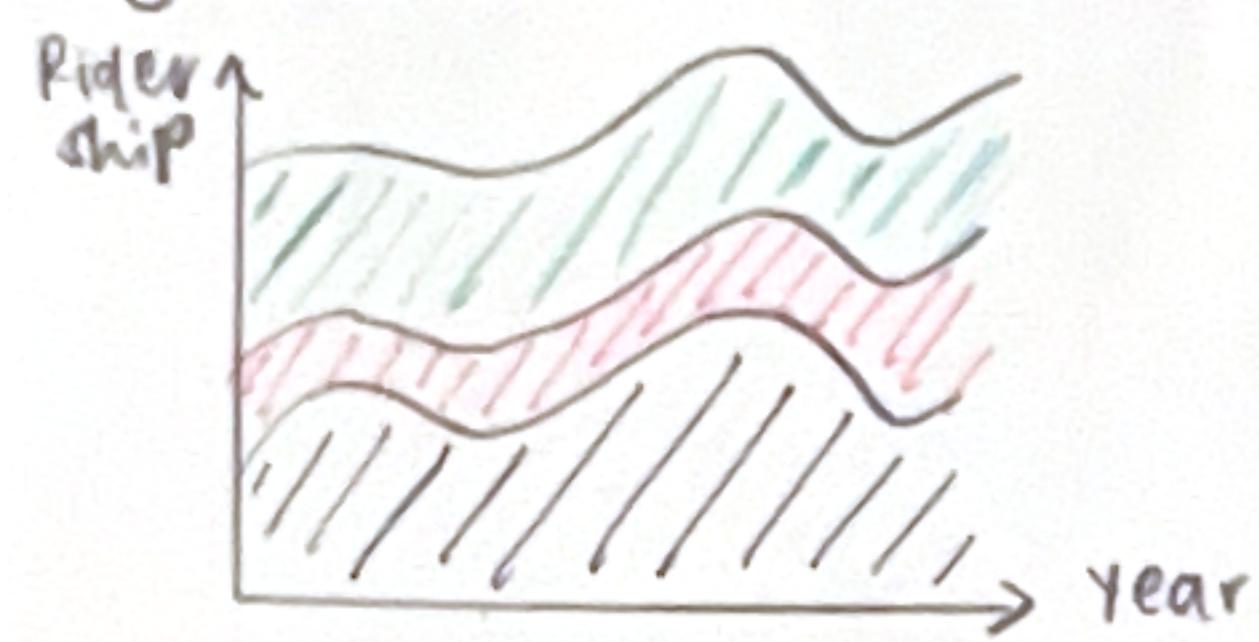
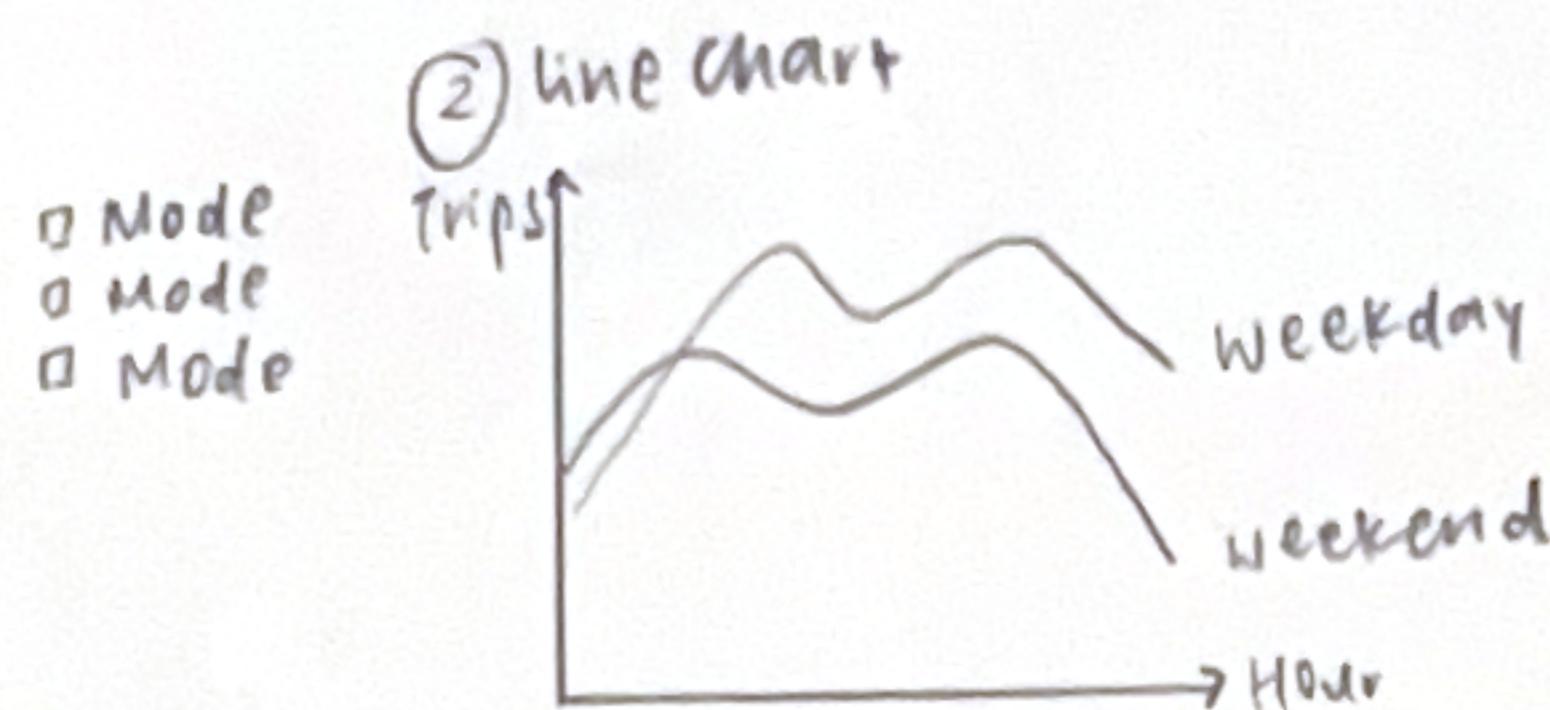


① IDEAS

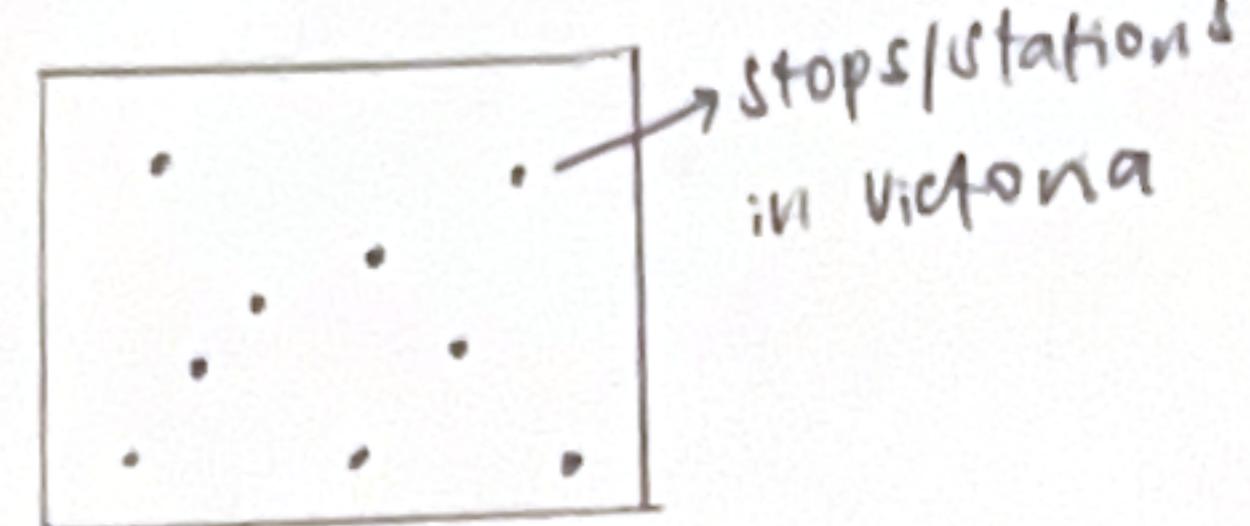
① Stacked area chart



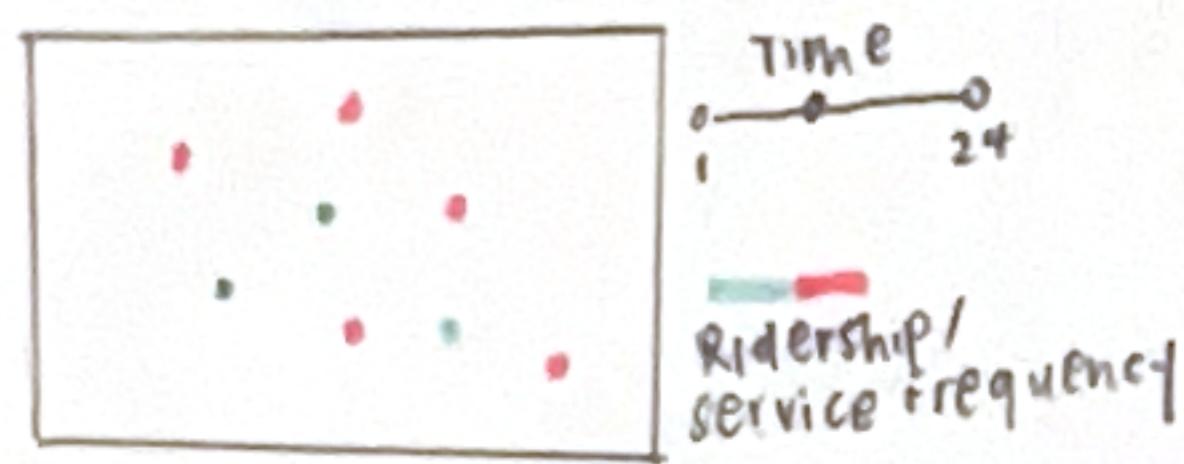
② Line chart



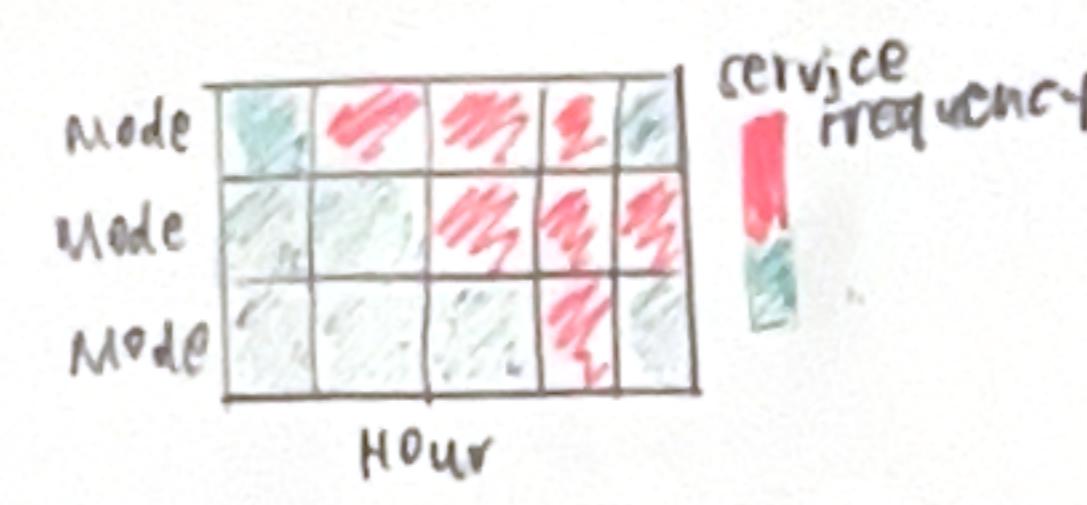
③ Point Map



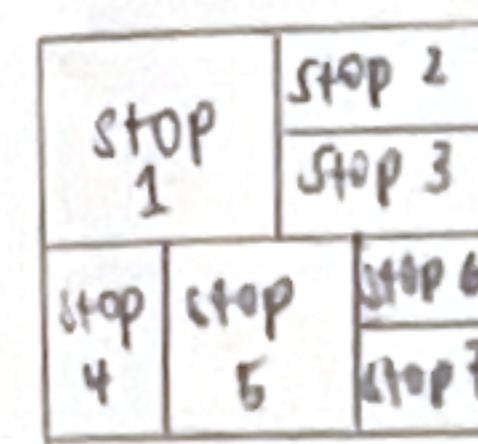
④ Point Map (Coloured)



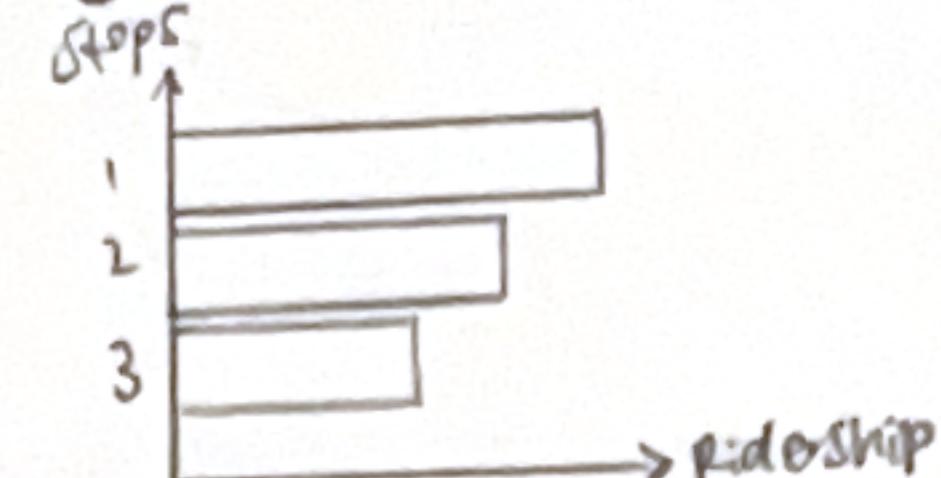
⑤ Heat Map



⑥ Tree Map



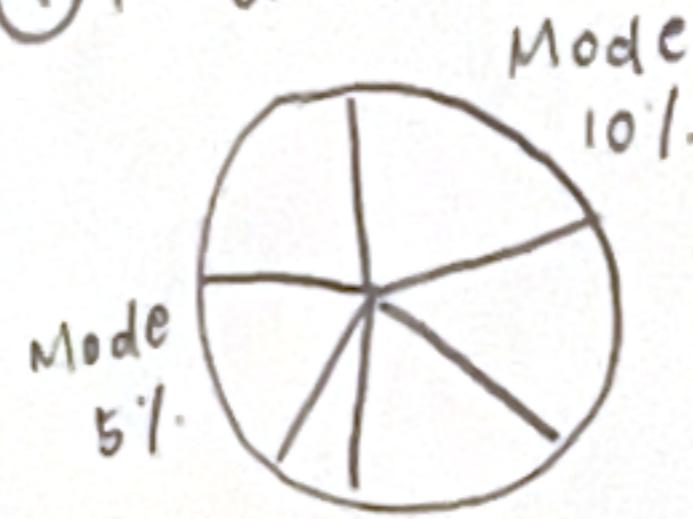
⑦ Bar Chart



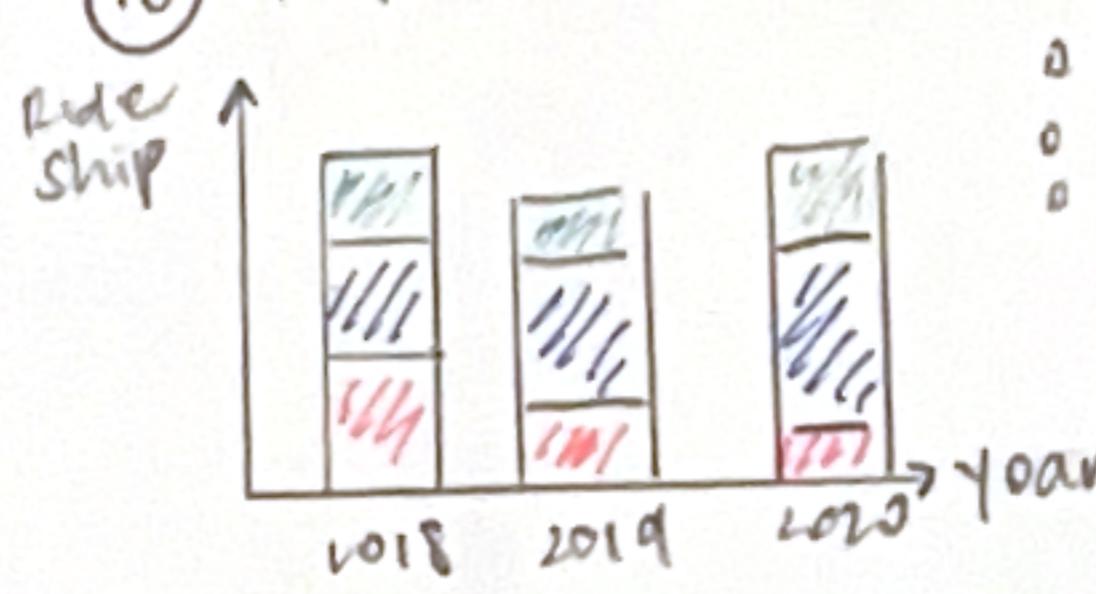
⑧ Scatterplot



⑨ Pie chart



⑩ Stacked Bar Chart

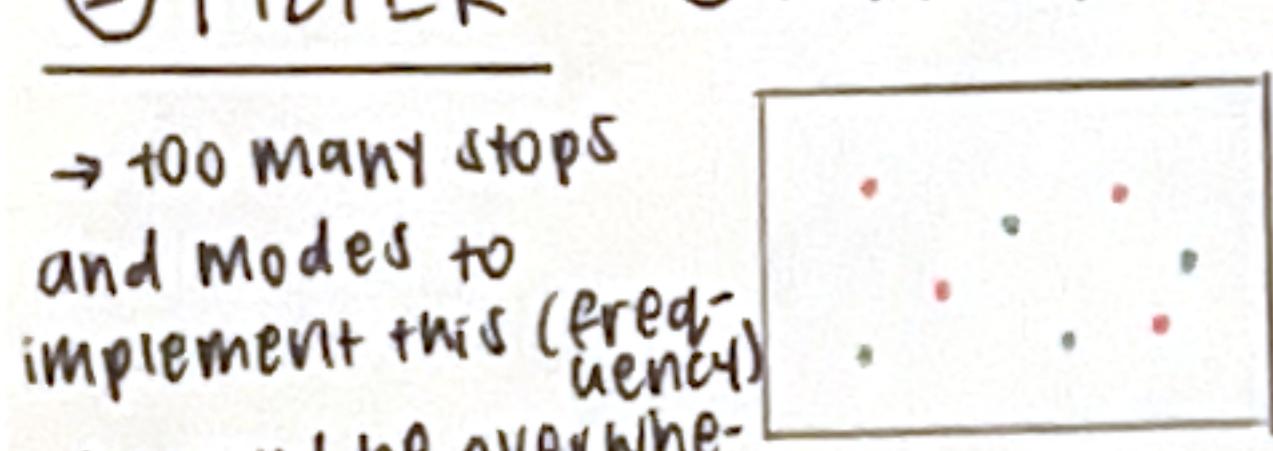


⑪ Choropleth Map

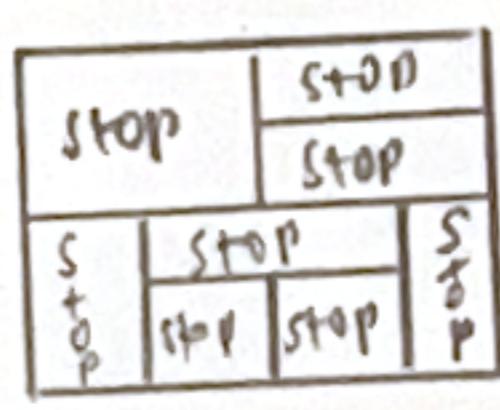


② FILTER

④ Point Map (Coloured)



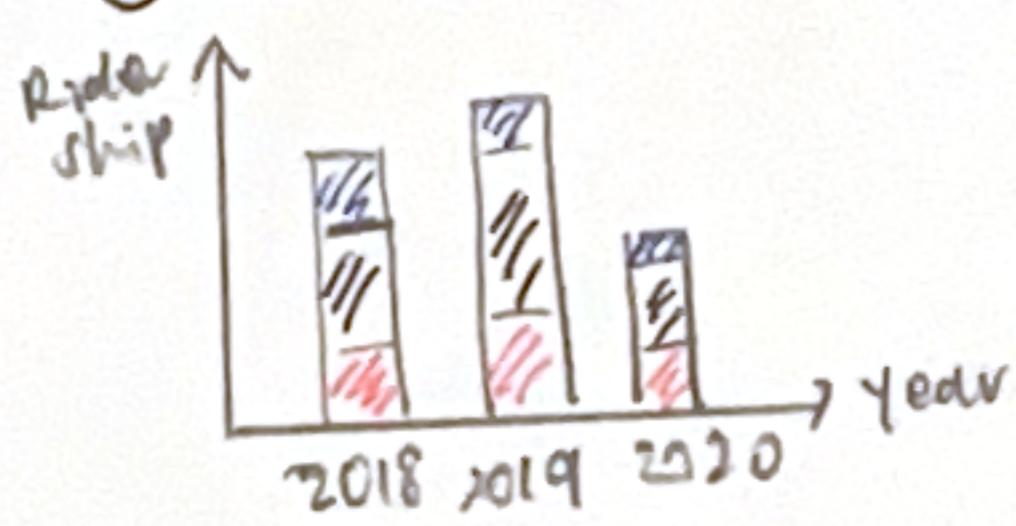
⑥ Tree Map



→ station names might be too long to fit

→ multiple modes to compare, might be overwhelming

⑩ Stacked Bar Chart



→ hard to compare as there is no baseline
→ other charts would be better for comparison

③ CATEGORISE

OVERVIEW OF MODES

- ① Stacked Area chart
- ② Line chart
- ③ Pie chart
- ④ Bar chart

MAP

- ① Point Map
- ② Choropleth

SERVICES

- (Frequency / disruption)
- ① Heat Map
 - ② Line chart
 - ③ Scatterplot

④ COMBINE & REFINE

- ② Point Map can be refined
- ↳ show stops/stations PER MODE
 - ↳ coloured per mode

② + ⑦ Line chart + Bar chart could be combined
Line chart → show trend
Bar chart → show distribution

⑤ QUESTIONS

1. Would the design address any problems (service gaps, etc.)?
2. Should I focus on metropolitan Melbourne, regional, or both?
3. How do I allow users to compare across modes without getting overwhelmed?
4. How do I represent all modes fairly (unfair comparison due to different number of stops)?
5. How do I make my visualisation more interactive?

SHEET 1

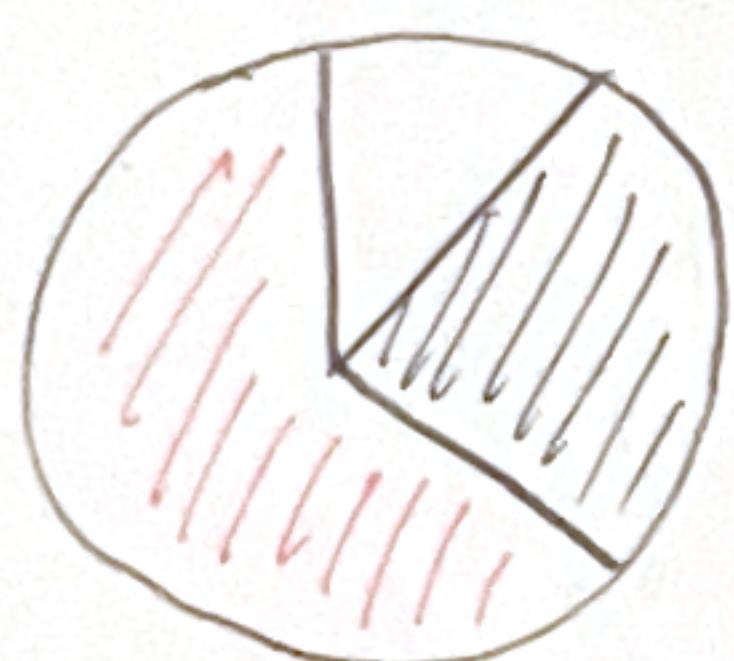
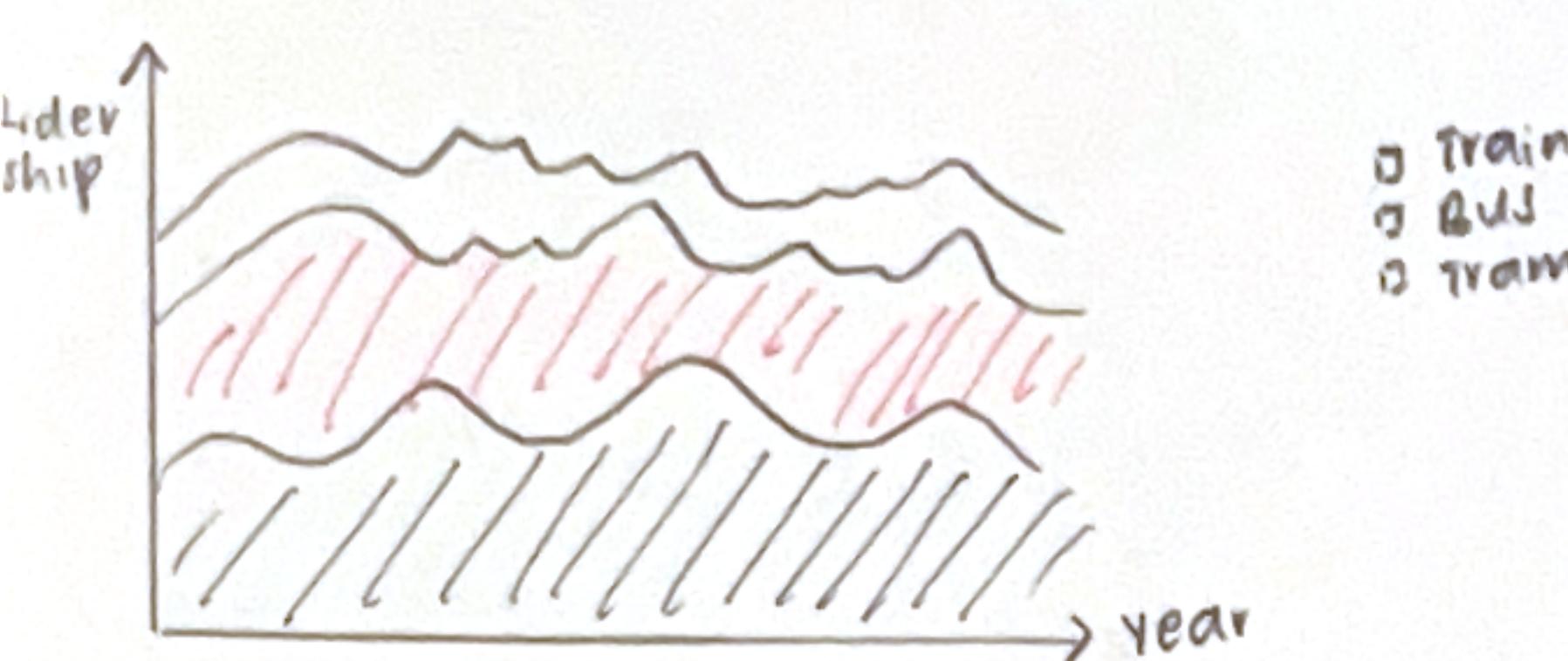
Name: FWA Yanni, 83680132

Date: 28 September 2025

LAYOUT

HOW VICTORIANS MOVE

*** INTRODUCTION ***



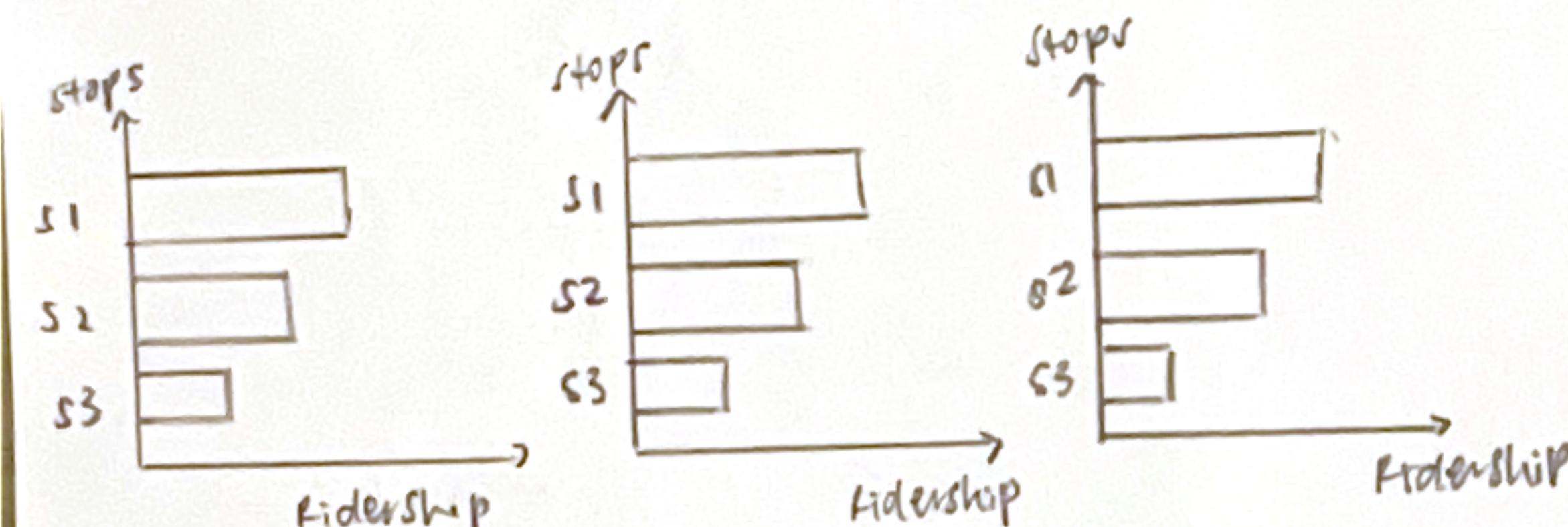
WHERE ARE THE STOPS/STATIONS?



FILTER [ALL MODES]

TRAIN
BUS
TRAM

BUSIEST STOPS / STATIONS



CONCLUSION

*** CONCLUSION ***

FOCUS

→ Main focus is on storytelling

Most used modes → locations → busy stations

→ Metropolitan vs Regional

OPERATION

① Selection of mode (Area chart)

↳ Selection of mode would dim out the rest (Focus on one specific mode)



② Filter for map

↳ Filtering by mode so people can see the geographical reach of each mode



DISCUSSION

PROS:

- clear storytelling
- Not overwhelming
- relatively easy to understand

CONS:

- Might not address any issues (gaps in public transport)

Title: Storytelling visualisation

Author: PWA Yanni, 33680132

Date: 28 September 2025

Sheet: 2

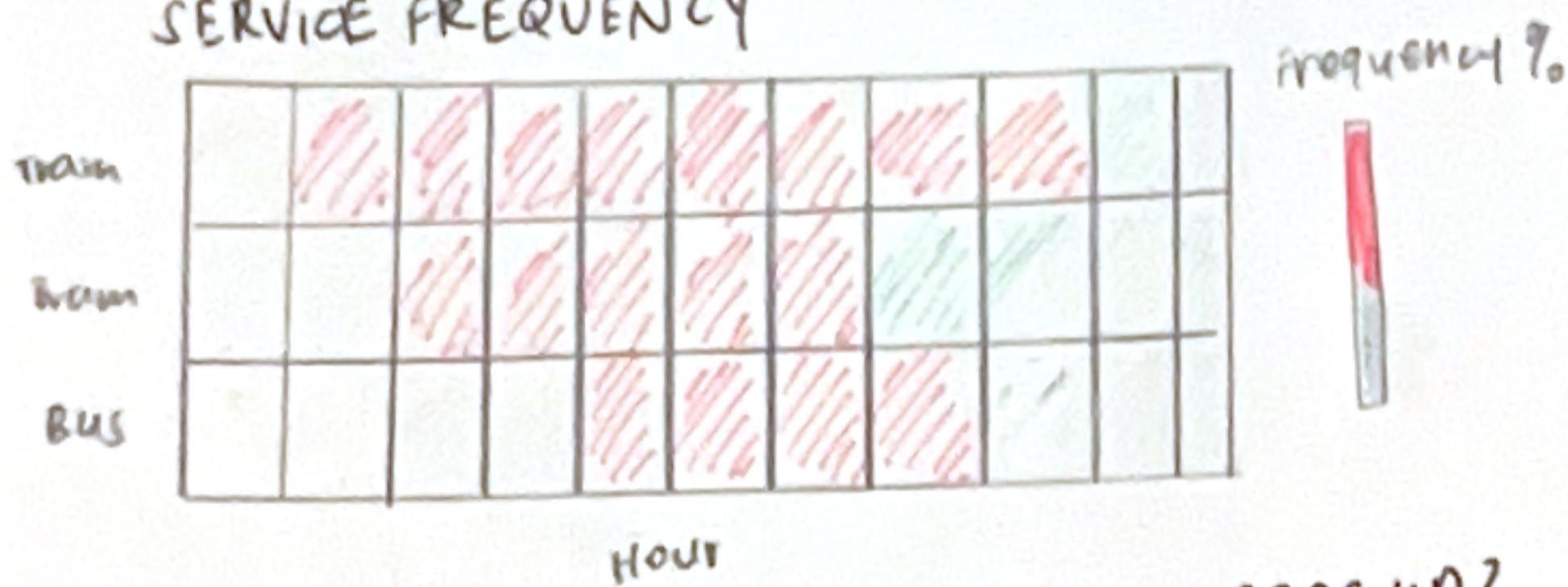
Task: A storytelling design

LAYOUT

SERVICE QUALITY OF PTV

XXX YY INTRODUCTION XXXY

SERVICE FREQUENCY

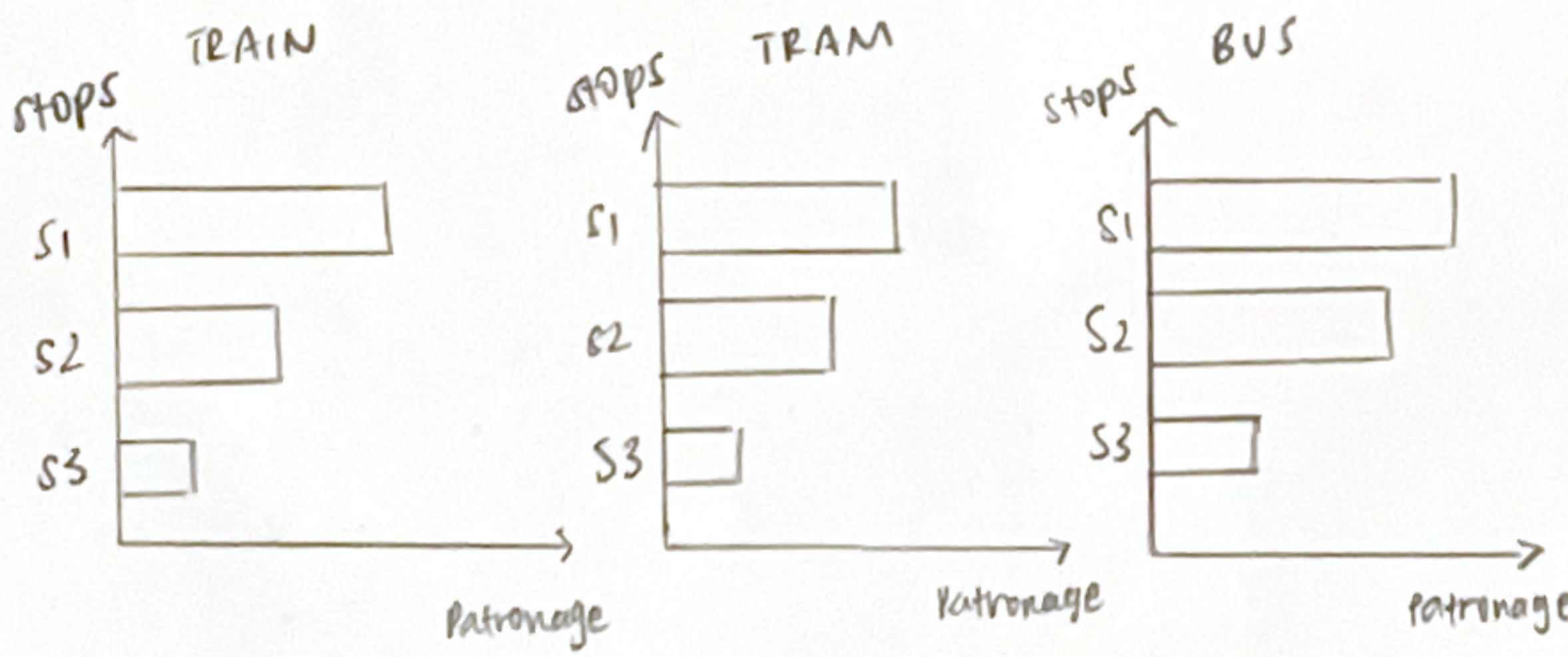
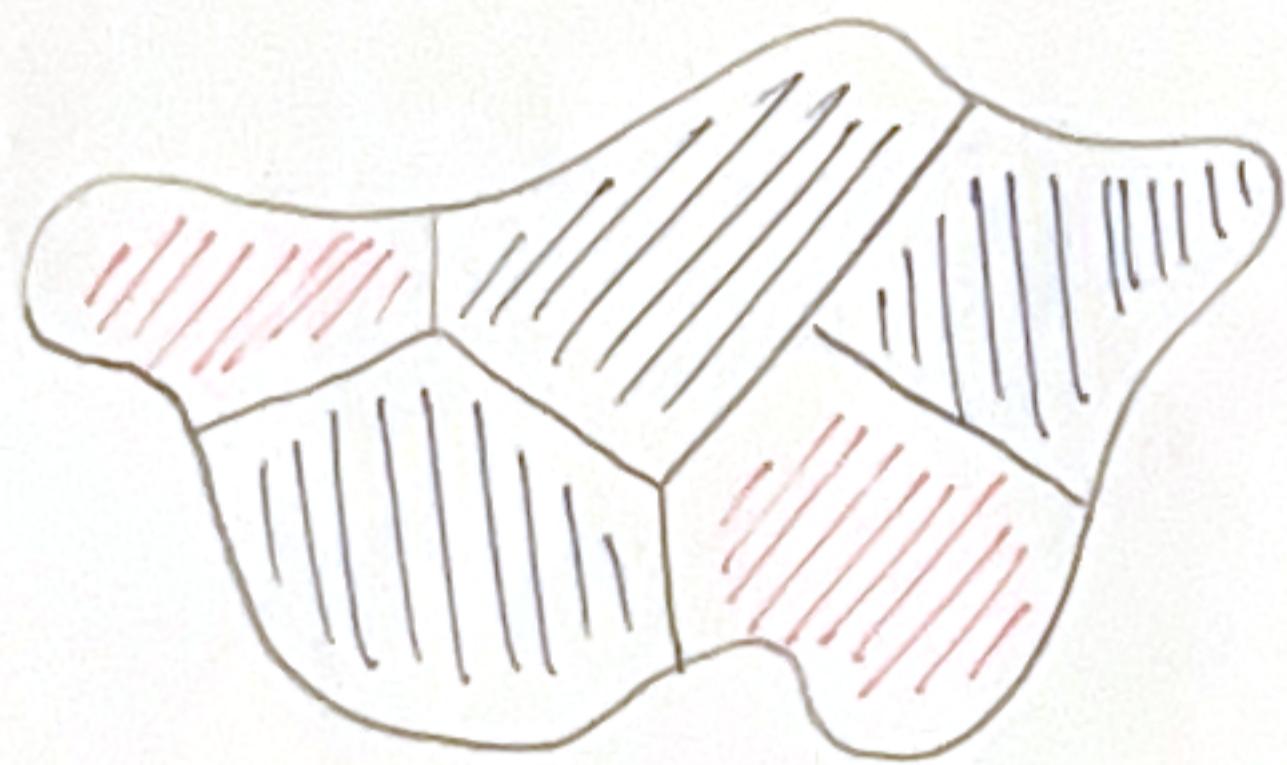


IS SERVICE FREQUENCY MATCHING UP TO RIDERSHIP?

RIDERSHIP



BUSIEST AREAS BASED ON PATRONAGE



FOCUS

→ Heat Map & scatterplot

↳ Addresses the service gaps

↳ Allow users to fully understand which areas require improvements

OPERATION

→ calculate service frequency based on each mode to make it fair / properly represent service frequency

DISCUSSION

PROS:

→ very clear objective

→ visualisation can be easily understood

CONS:

→ Not interactive

Title: Service quality of PTV

Author: Ewa Yanni, 33680132

Date: 28 September 2025

Sheet: 3

Task: Focus on service quality and what could be improved

CONCLUSION

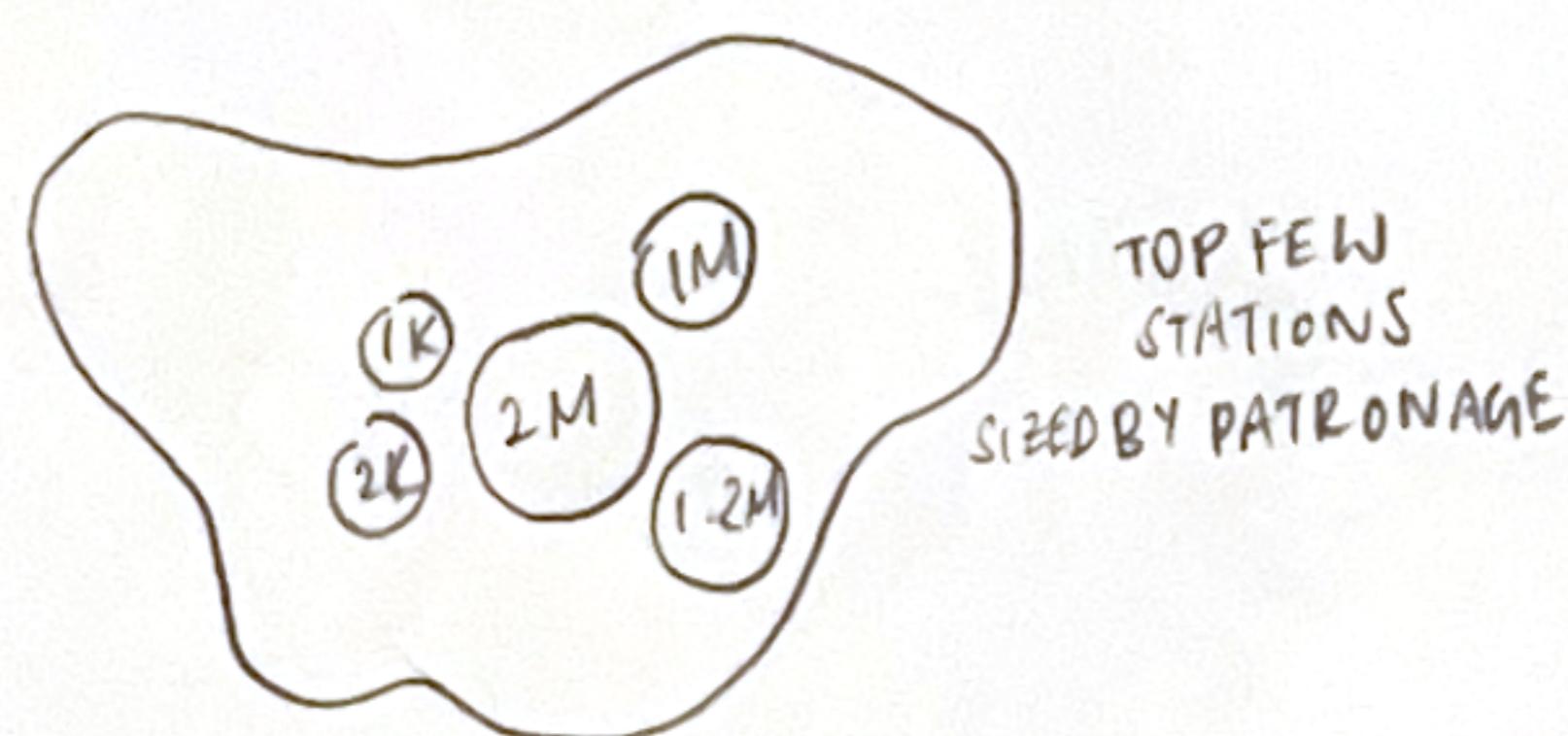
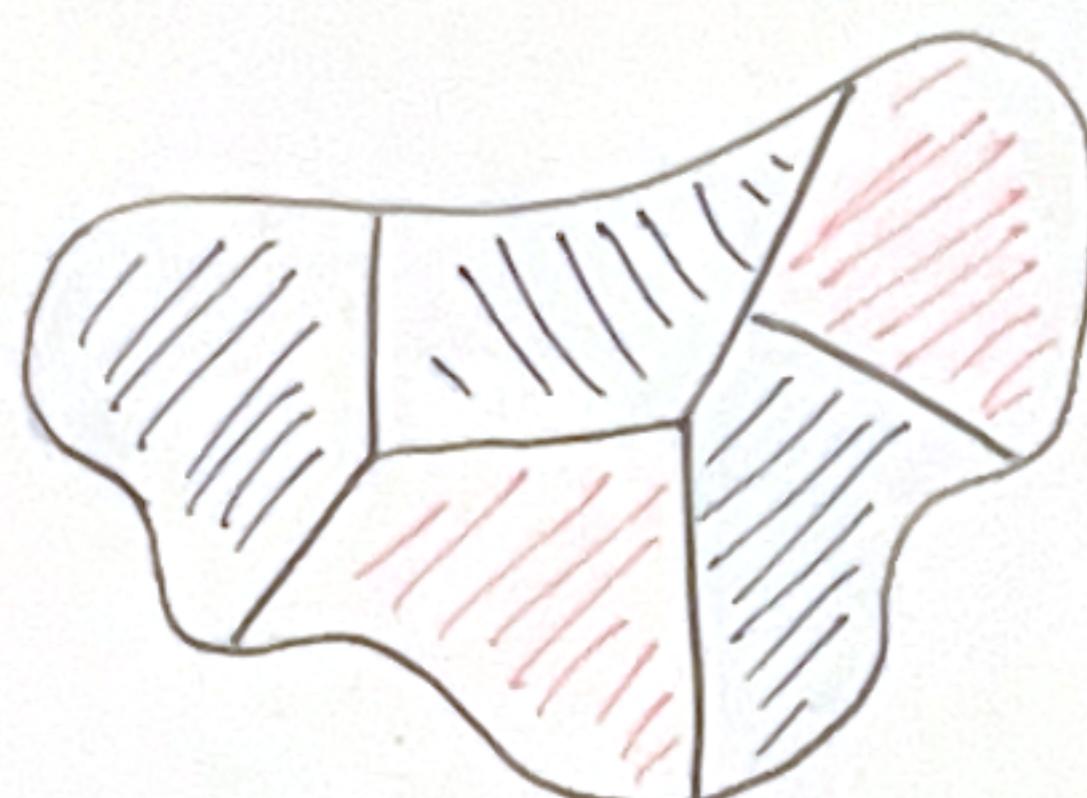
XXX YY XXXY XXX YY

LAYOUT

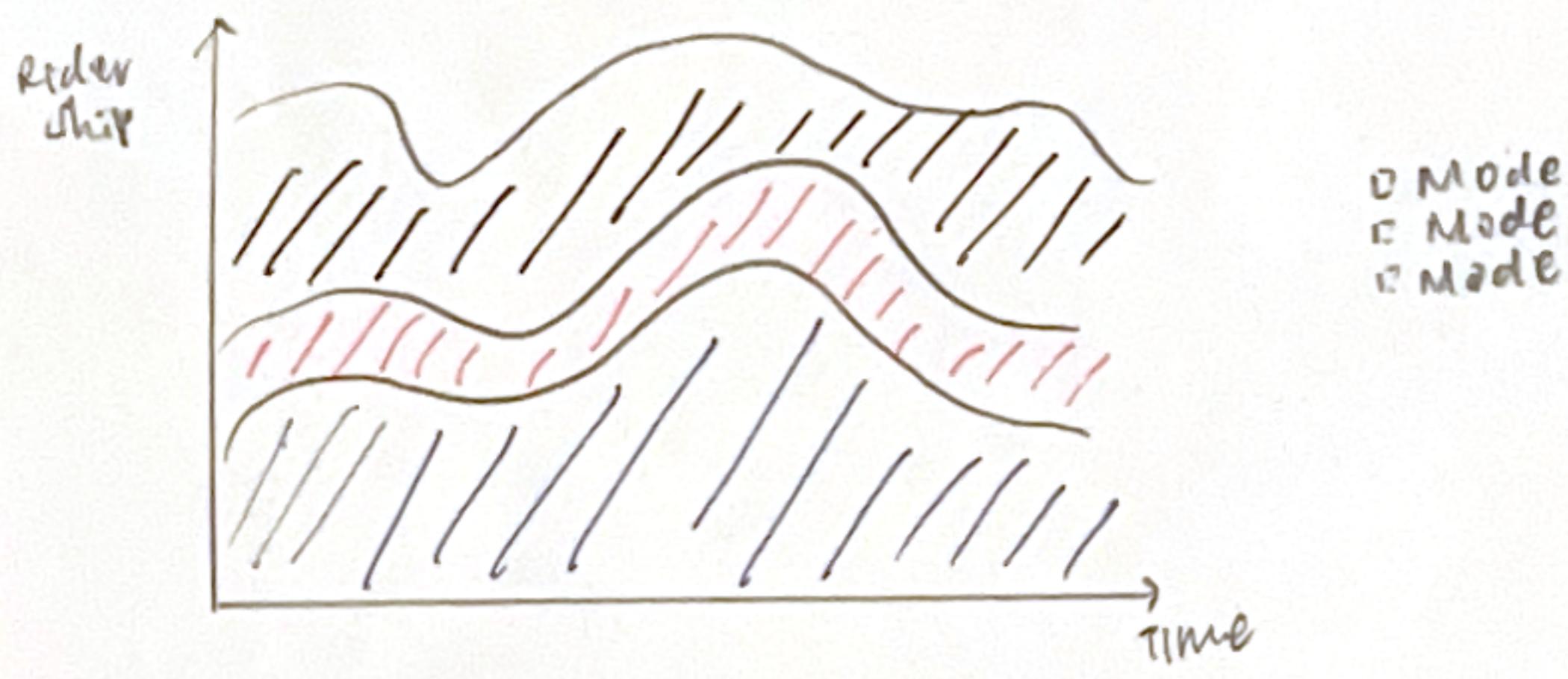
HOW VICTORIANS TRAVEL ON PUBLIC TRANSPORT

XXXX INTRODUCTION XXXX

BUSIEST AREAS BY PATRONAGE



WHAT MODE DO VICTORIANS USE?



STOPS AND ITS SERVICE FREQUENCY



FILTER

TRAIN
BUS
TRAM

CONCLUSION

XXXX XXXY XXXY X

FOCUS

→ Maps

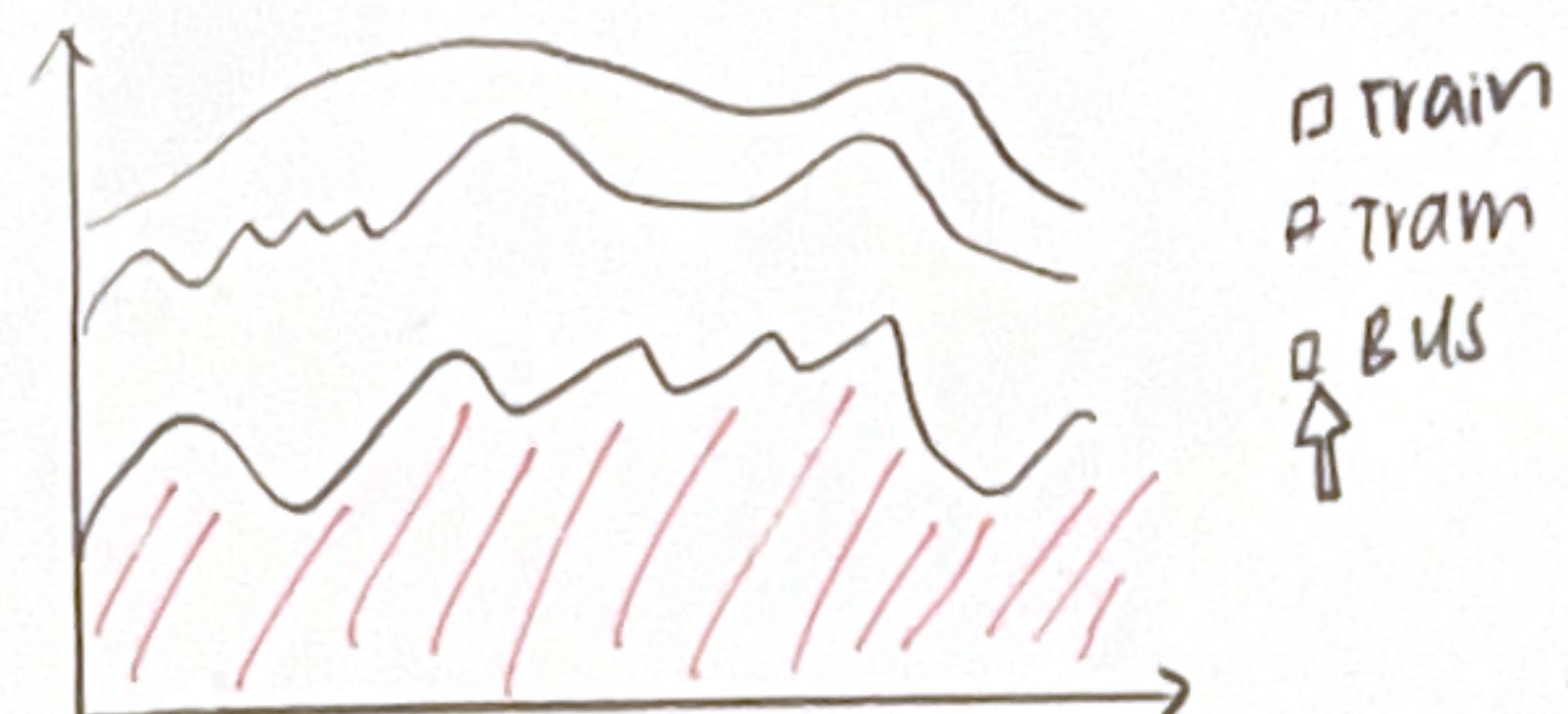
↳ Heavy use of maps

↳ provides a geographical overview of public stations/stops
transport

OPERATIONS

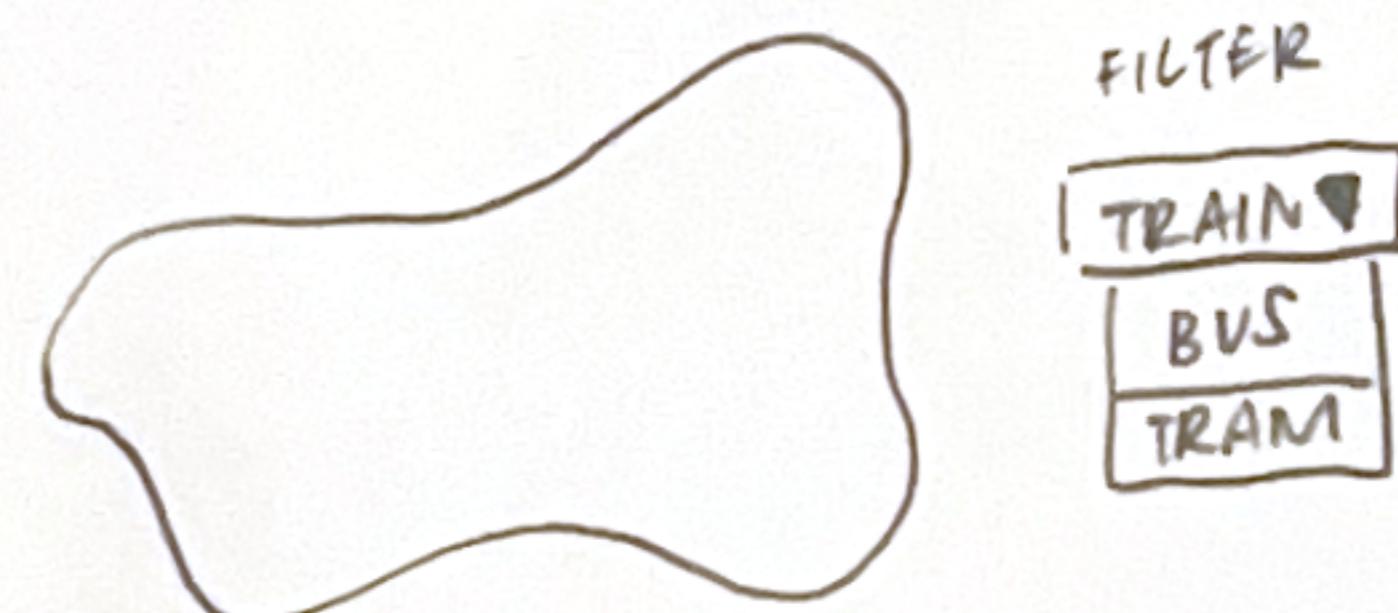
① Selection of mode (Area chart)

↳ Selection of mode would dim out the rest
(focus on one specific mode)



② Filter for map

↳ Filtering by mode so that the stops/stations do not clutter together



DISCUSSION

Pros:

→ Provides a geographical overview of the stops/stations

↳ Easy for users to understand

Cons:

↳ Too many maps

↳ Might be overwhelming

Title: Geographical Visualisation

Author: FWA Yanni, 33680132

Date: 28 September 2025

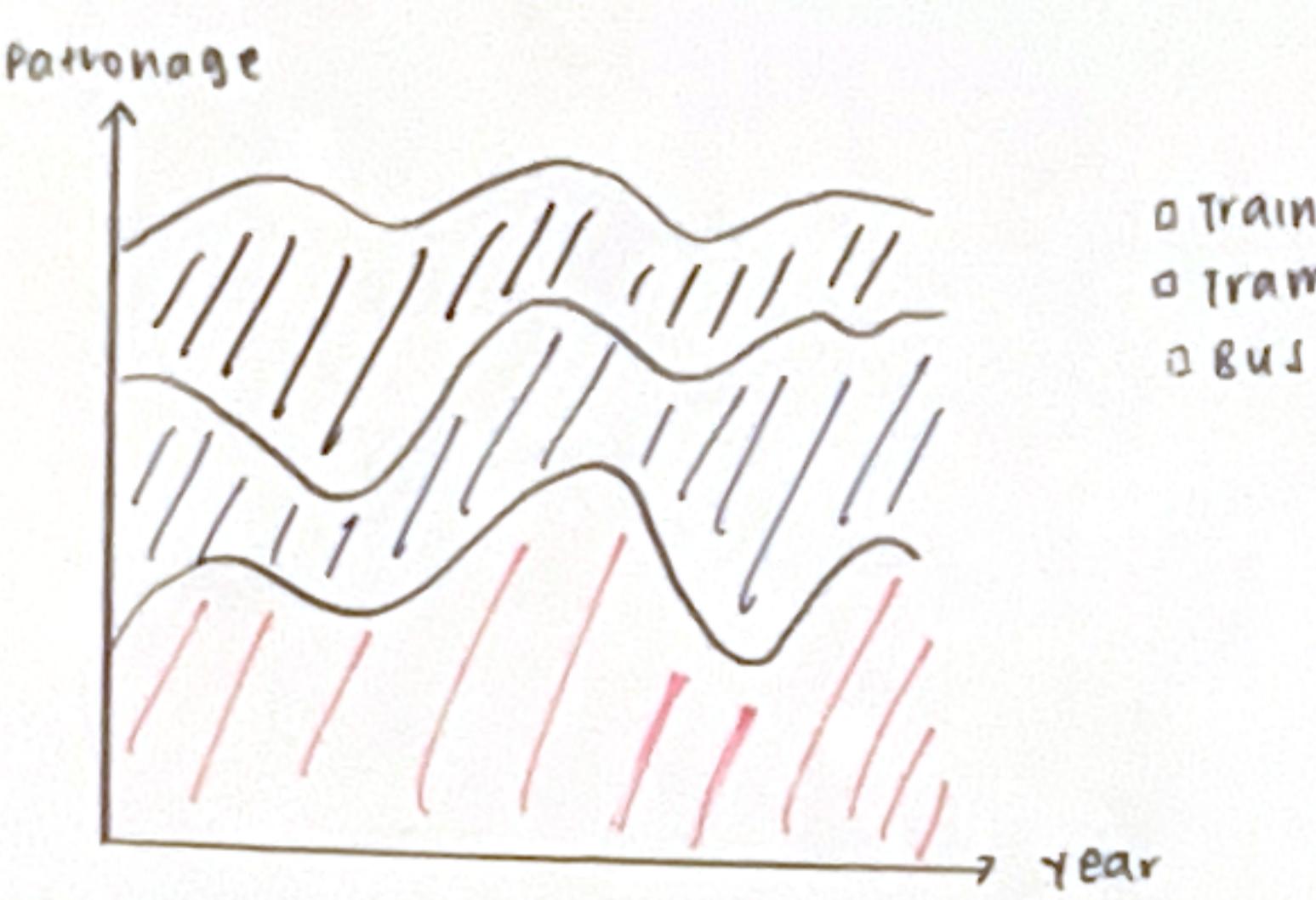
Sheet: 4

Task: creating geographical charts / focusing on maps

LAYOUT

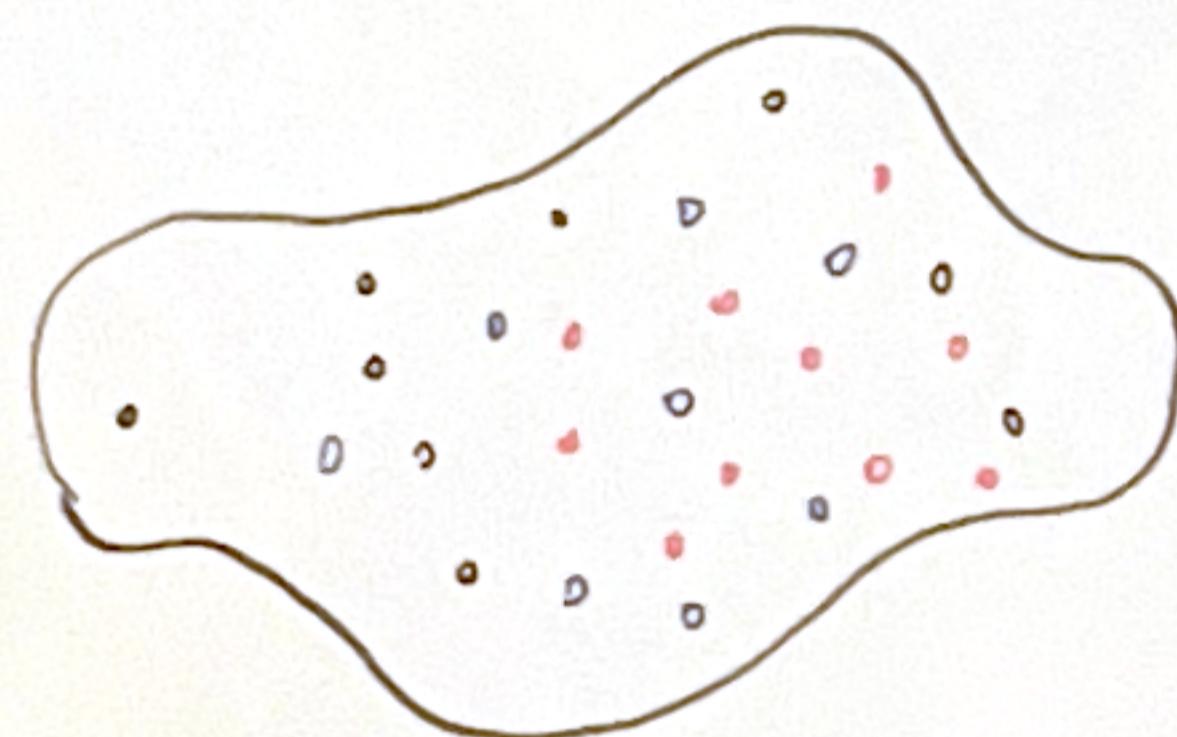
HOW VICTORIANS MOVE
*** INTRODUCTION ***

PATRONAGE OVER TIME



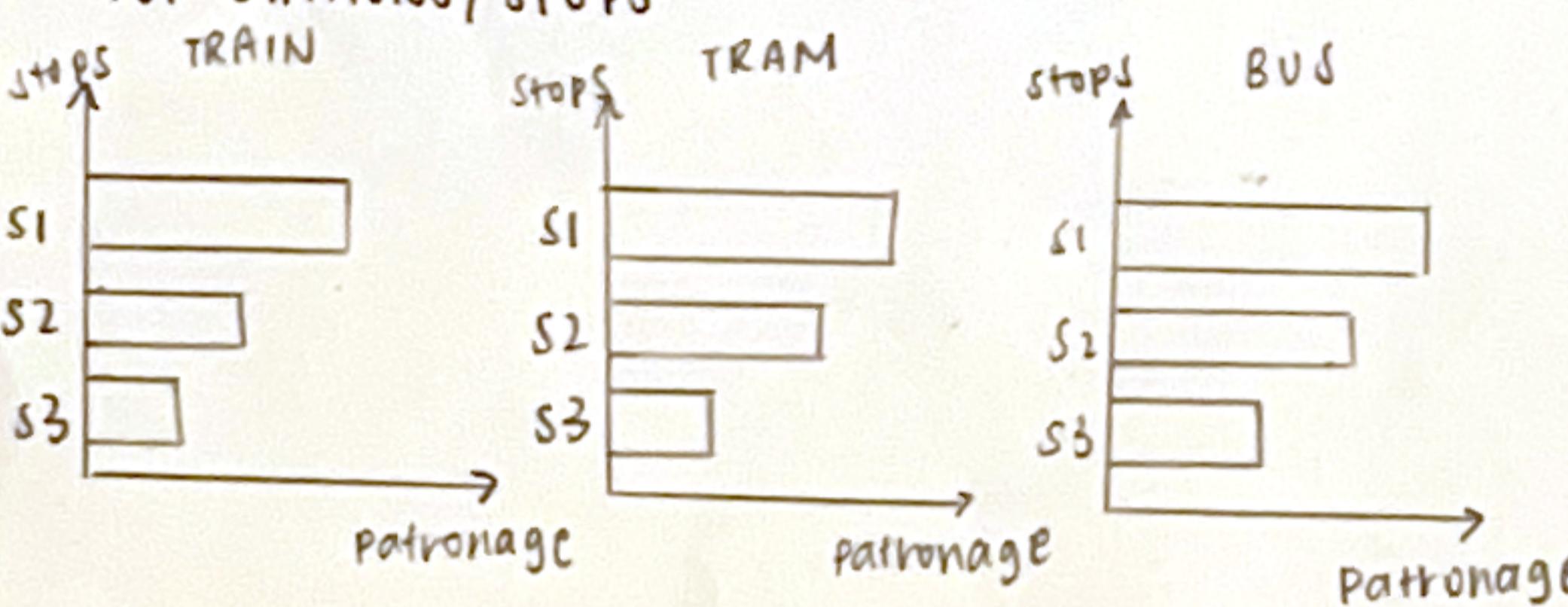
WHERE THE STOPS/STATIONS ARE

FILTER ALL MODES

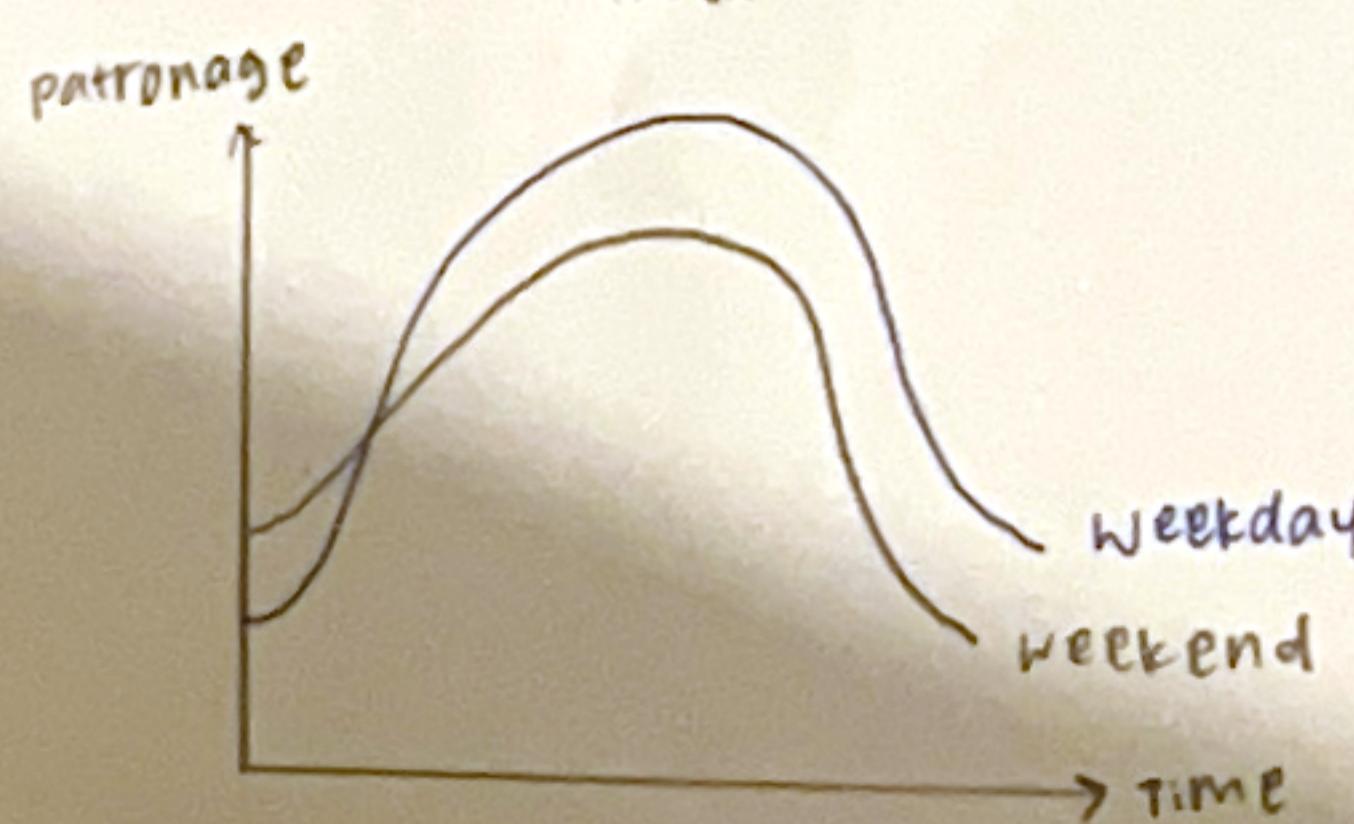
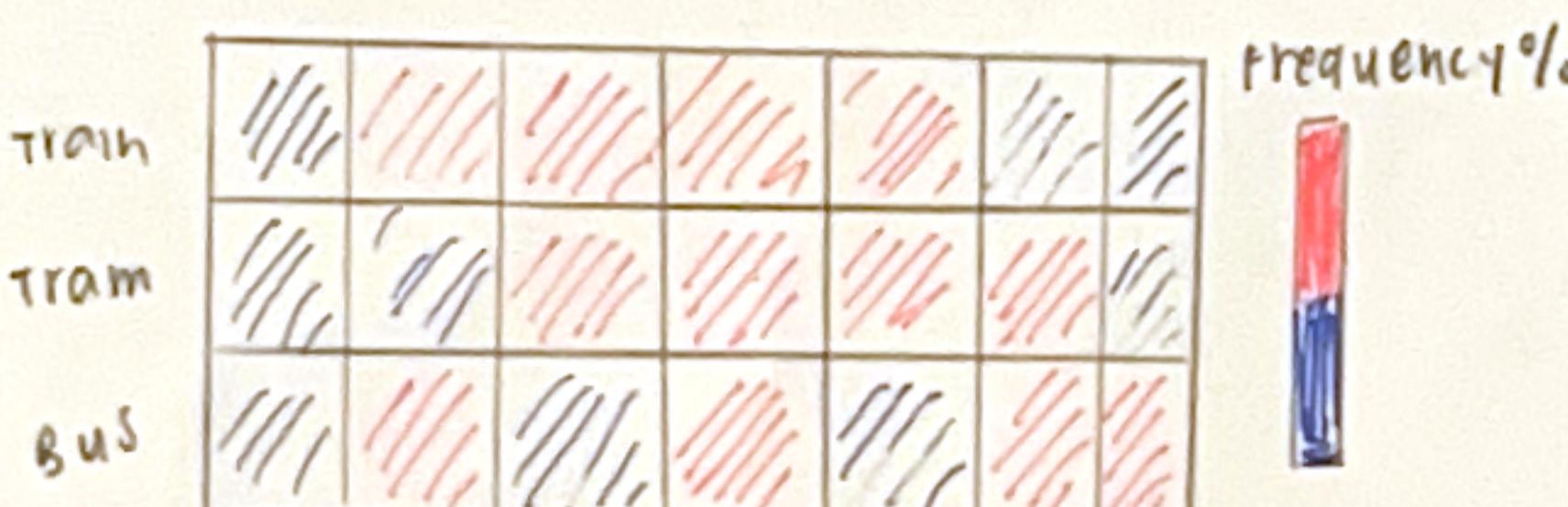


□ Train
□ Tram
□ Bus

TOP STATIONS/STOPS



WHEN & HOW OFTEN SERVICES RUN



FOCUS

→ Main focus is storytelling

How they travel → locations → busy stations

→ service frequency

Balanced view of all three layouts

OPERATIONS

① Selection of mode (Area chart)

to dim the rest of the modes

② Filter (Map)

filtering the stations based on the modes so that users can clearly see the stations of each mode

③ calculation of frequency %. (Heat map)

calculating the relative service frequency for each mode (as each mode has different number of stations)

DETAILS

① Dependencies

- Built in VegaLite
- Data from Data Victoria and Philip Morris

② Estimated time

- Finding data and joining: 1 day
- Building visualisation: 3-4 days
- Testing & refinement: 1 day

Title: How Victorians Move

Final Design

Author: FWA Yanni, 33680132

Date: 28 September 2025

Sheet: 5

Task: Design the final design, collating the 3 layouts