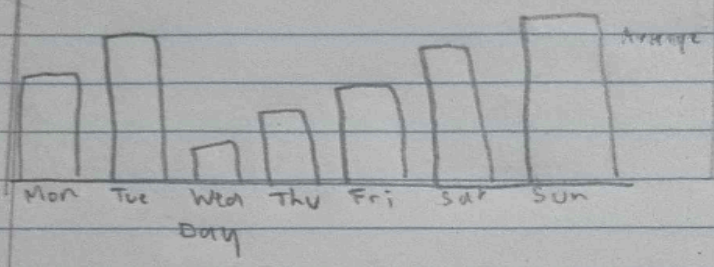
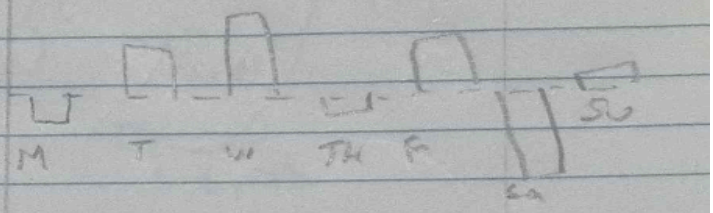
IDEAS

Foot traffic by day of week/month of year

① Bar chart

② "average" line chart

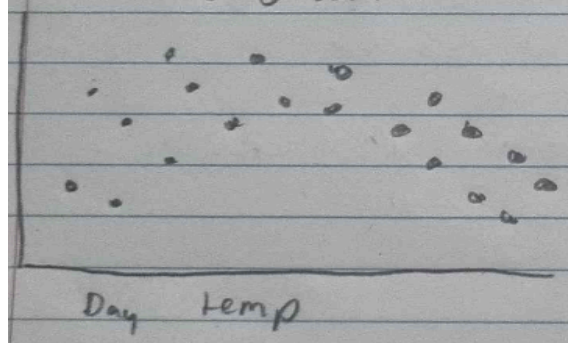


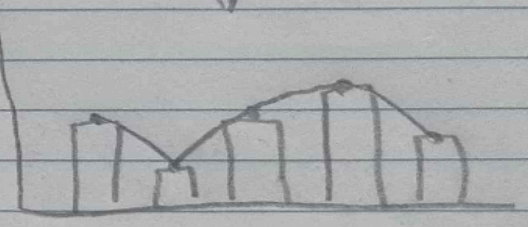


~~Foot traffic by month~~ For month of year add line?

Foot traffic vs temp/CO_2

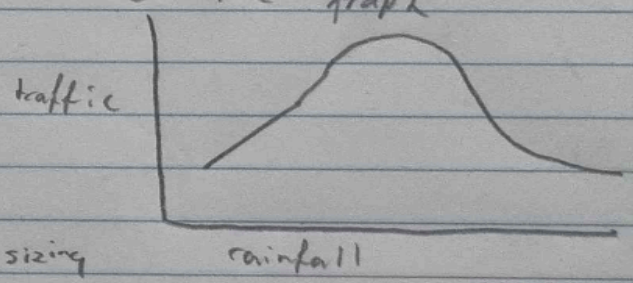
↓ ① Scatter





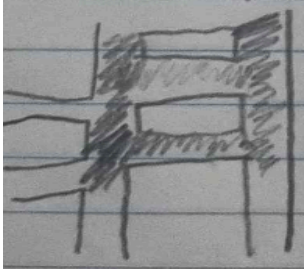
Foot traffic vs rainfall

① line graph

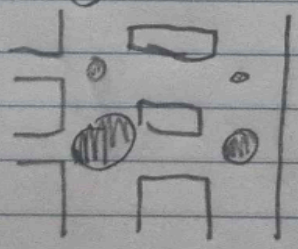


analysis of busy areas

① heat map

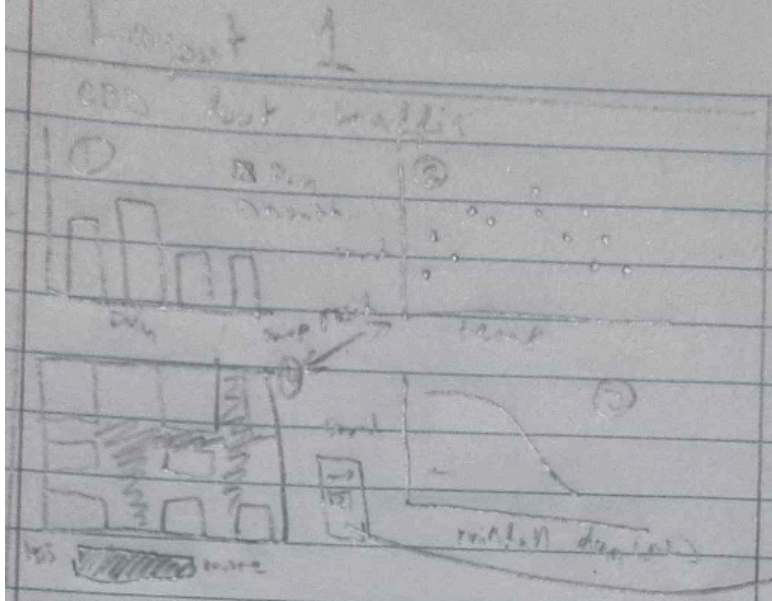


② dot sizing



Combine

- add filters to combine viz
- fewer viz with high customisability
- add filters to heatmap to show other chart data for specific areas



Filter for heatmap

- filter day

Monday ——●——●—— Sunday

filter Month

Jan ——●——●—— Dec

filter whole dataset

jan 2022 ——●——●—— Dec 2023

filter time

00:00 ——●——●—— 23:59

① day/week bar chart
- can switch between

② foot traffic vs temp

③ foot traffic vs rainfall

④ CBD heatmap
- use colour saturation

Operation

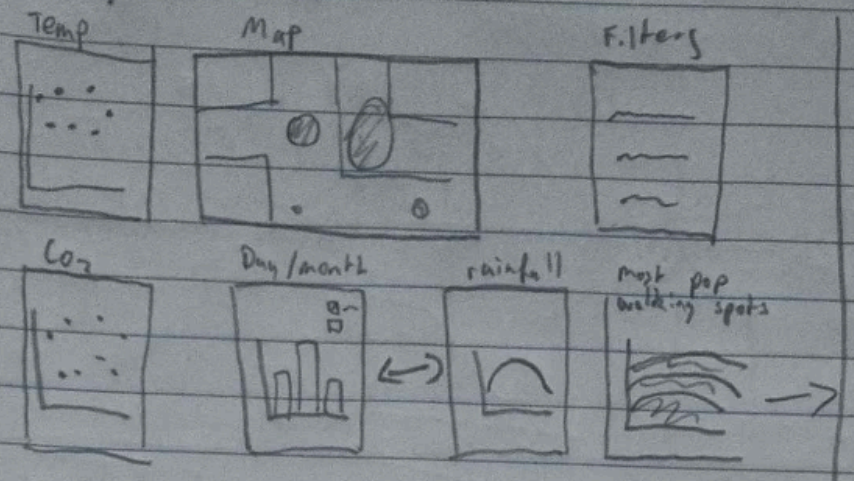
- add filters for bar chart and heat map

- dynamic view
  - few viz but a lot of info

Good:
- easy view of climate info
- filters allow high custom data viewing
- heatmaps are cool ☺

Bad:
- data/ink ratio could be higher
- doesnt show individual sensors
- climate info could have more viz
- doesnt show CO_2 info

Layout 2



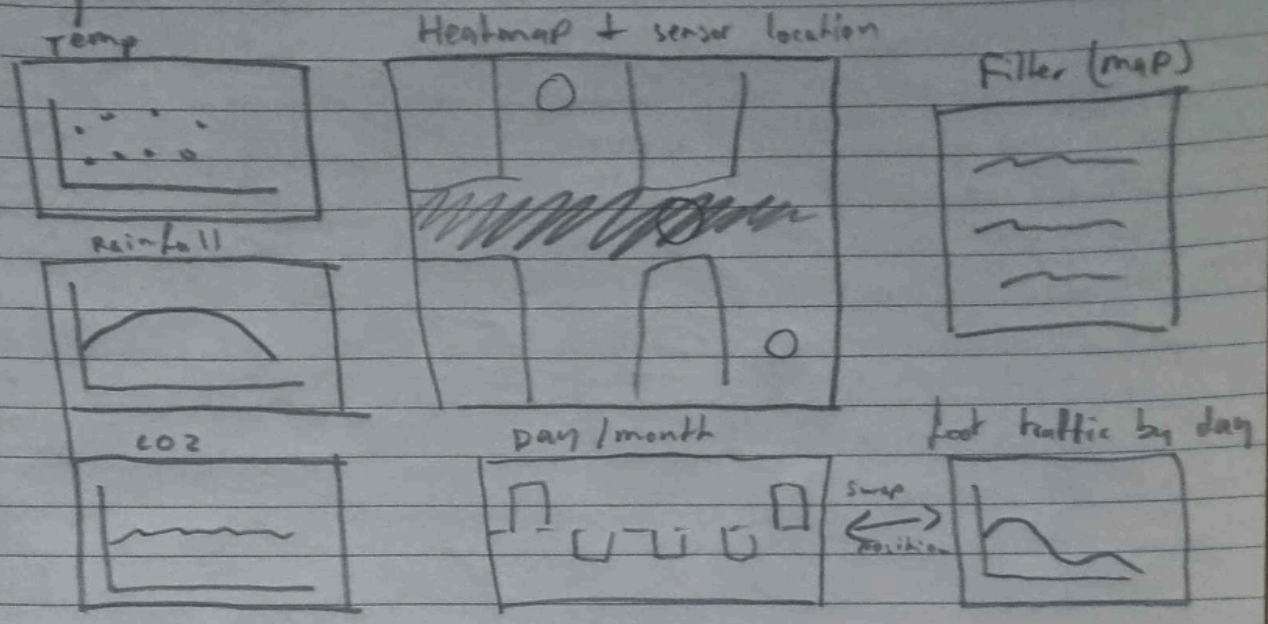
operation
- hover over circles to see sensor tooltip
- hover over area chart to see sensor tooltip
- filter for day/month included in chart
-

Focus
- main focus on map
- left side focus on climate
- include filter for map

Good:
- ease of reading
- left to right chart topics
- high density of info
- shows complete picture of main dataset

Bad:
- ~~no CO_2 info~~
- not much customizability
- how to navigate info?
- high reliance on tooltips

Layout 3



operation
- filters impacts map and foot traffic by day
- select a node / sensor on map to see detailed info in foot traffic by day
- climate charts are only impacted by date range in filter

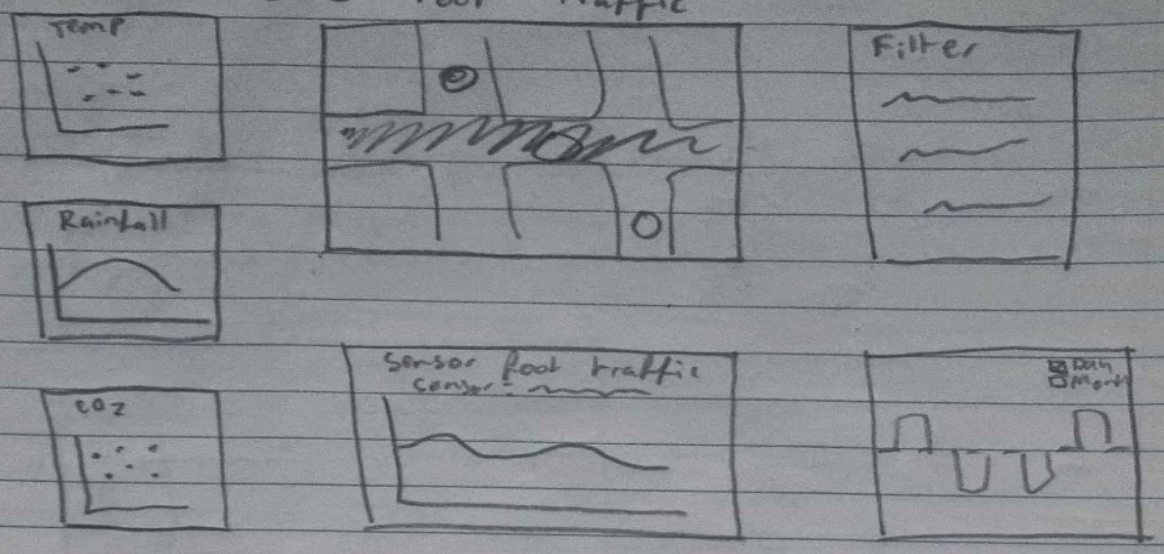
Focus:
- Heavy focus on map
- map filters impact rest of vis

Good
- no static charts
- contains almost all info in datasets
- good layout, left to right reading

Bad:
- may be confusing at first glance
- no explaining text.

Sheet 5

CBD Foot Traffic



Operation:
- filter controls viz
- click on locations to see detailed stats
- tooltips on map

Focus:
- Heavy focus on heatmap
- left to right, climate -> map

Detail
- All data in .csv format
- learn tableau geographical mapping functionality
- Problem:
  - total data is inflated
  - 1 person walking past 2 sensors == 2 counted
  - map focus diminishes this
  - individual sensor data diminishes this
- time to build: 1-2 weeks