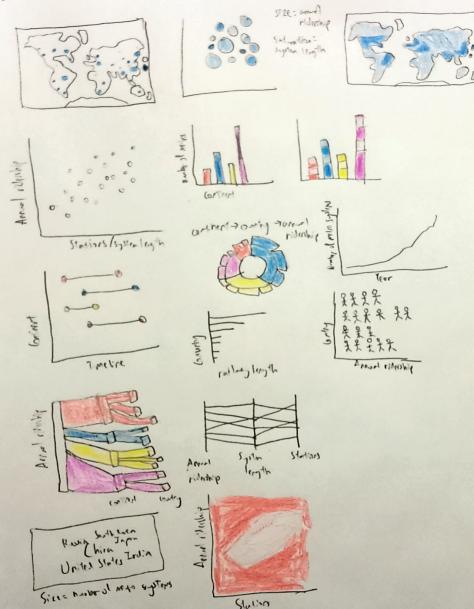
1. Ideas



2. Filter

Pictogram could be too nessy/bor chart would be a better addon to use.



Charopleth would not provide useful internation compared to a proportional symbol map.

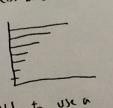
3. Categorise

Metro Systems Around The World

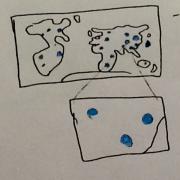
- Map to show locations of meto systems

- Show distribution at annual ridership between countries/continents
- Difference of year of open service between condinents / countries.
- Relationship between meto stations on amual ridership.

4. Combine and Retine



-Able to use a filter to select countries



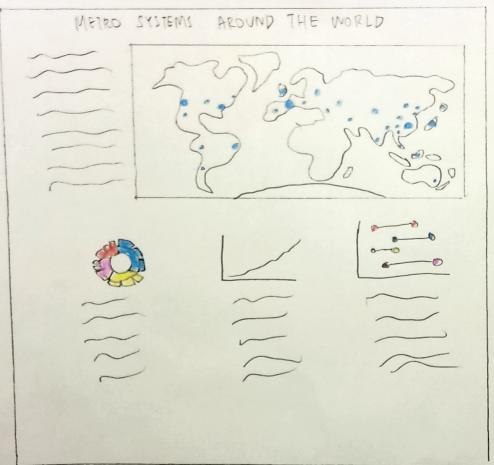
- Able to soem in and pur on the may, while for area with a concentration of different metro systems

Author: Evan Chung Date: 24/9/2024 Sheet: 12 Task! Dala Visualisation 2

5- Questions

- Is it better to group the metro systems based on the country or the country or

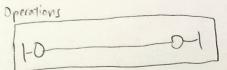
> will thex idioms be reasonable to implement using Vega-lite?



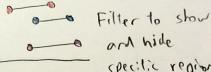
Author: Ewan Chung Date: 25/9/2024

Sheet: 2

Task: Data Visualisation 2



Filter to adjust the completion date of metro systems shown on the map.



and hide specific regions



from the timeline.

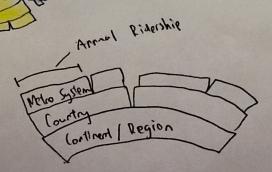
Forms

- This sabural chard shows the distribution of annual ridership alous regions.

- First layer is continent/region.

- Second layer is country

- Third layer is the specific metro system

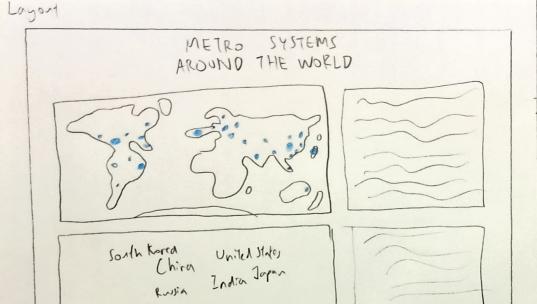


Discussion

- Will the surport have too mory metro systems on the third layer! Might have to change sunburst to two lagers instead.

- Does the line graph show a meaningful charge of metro systems around the world through out the years?

- Will there be interesting on the timeline?



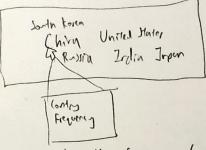
Author: Evan Churg

Date: 25/9/2024

Sheet: 3

Task: Data Visualisation 2

Operations



Toolths show the trequency/number of metro system in the particular country

Focus

Con colour coordinate different metro systems bused on the Continent region. Selecting a specific point on the Map will highlight the corresponding metro system on the populled coordinate that

Region DD DD

Able to filter ort

Discussion

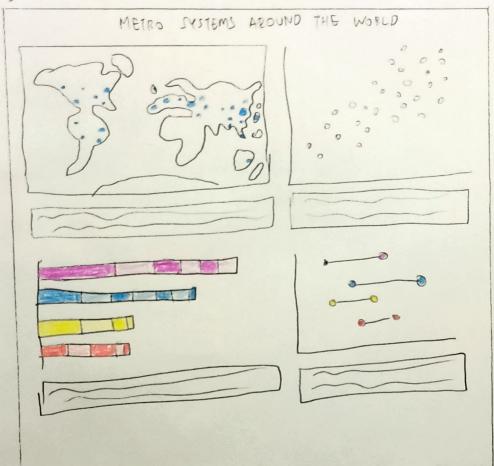
- World a word cloud show interesting and visually appenling differences between (outdres).
- Does a parallel coordilate

 plot work well with my

 dataset? Will it show any

 merringful trends?
 - Should there he some normalisation done for the mitro bar chart? Average material length instead of total metaleryth.





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Sheet: 4

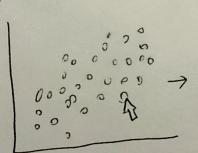
Tosk: Data Visualisation 2

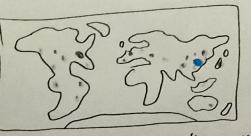
Operations

Country Number of metros Additional information

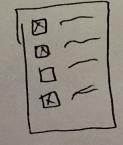
Tooltip for bor chart will show the country, the trajuncy of the number of metos in the specific contry, as well as additional information.

Focus





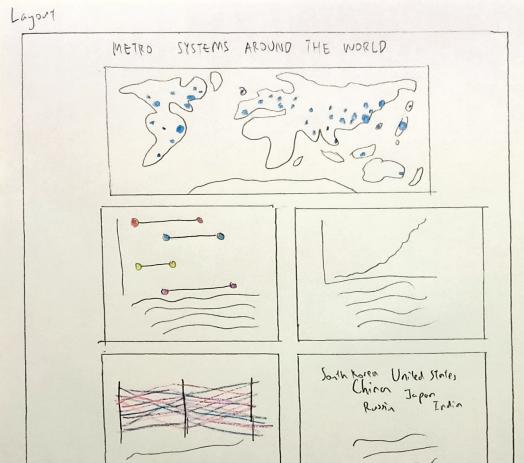
Hovering over a dot in the scutter plat will highlight the coresponding metro system on the proportional symbol map.



Filter which would tilter out continents/ regions for both the bor chart and the timeline.

Discussion

- Will a bur chart suffice in showing difference between different continents! regions? Might had be as dishiled as a surbast.
- World the Scotter Ybt show meaningful and interesting trends between system tength and armal ridership? Will there be author point, on the scotter plot?
 - Wald the finelines have a significant difference between the regions?



Author: Ewan Churg Date: 25/9/2024

Sheet: 5

Task: Data Visualisation 2

Operations



Filter for continents/regions to be applied for timeline and parallel plot.

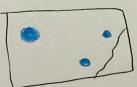
Focus



Scheding a year on the line groph nill only show the metro systems which existed during the year. on the map.



Selecting a line
on the parallel plot
will highlight the
corresponding metro
system on the
mop.



Zoon in tenture for the map, useful for areas with a concentration of different metro systems.

Discussion

- Will the filtering on the line chart be able to be achieved an Vega-lite?
- Is it possible to nad a common feature to the map using Vega-lite? or will I have to use Vega?.
- Will a word cloud show reasonable difference between countries?
- Will these intens tit property in two columns to maintain good sightlines?