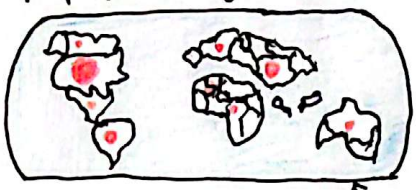
Ideas

Visualization domain: spaceflight statistics

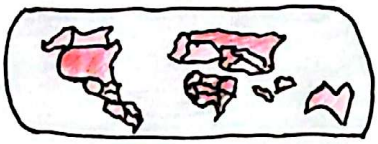
Maps:

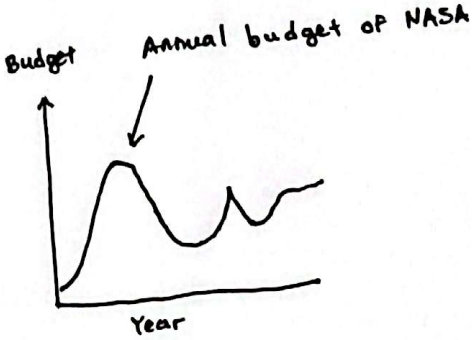
Proportional symbol map:

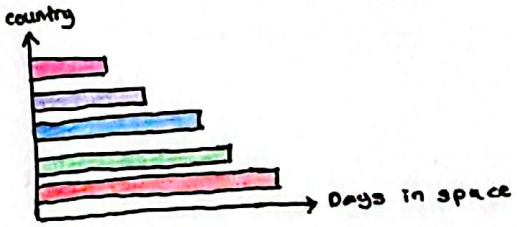


Total space launches by country

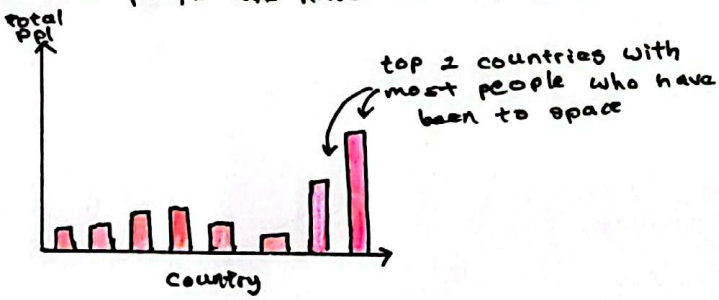
Choropleth map:

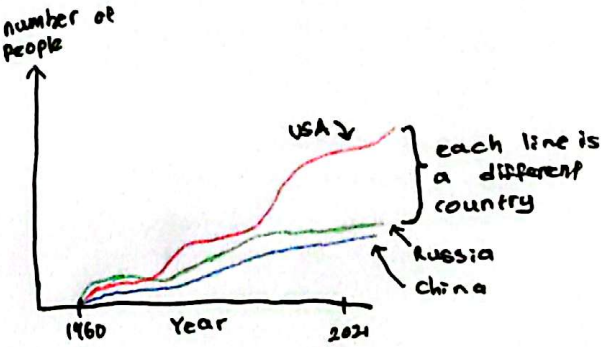


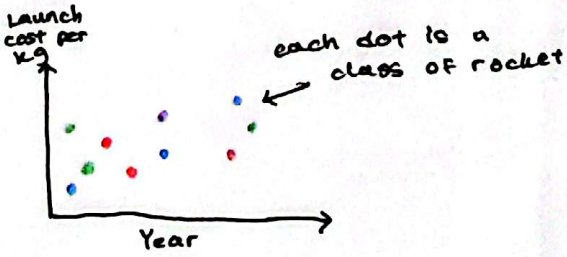


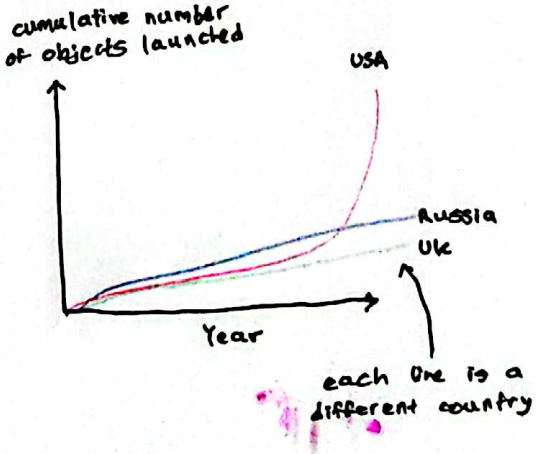


Cumulative people who have been to space:









Title : Human spaceflight

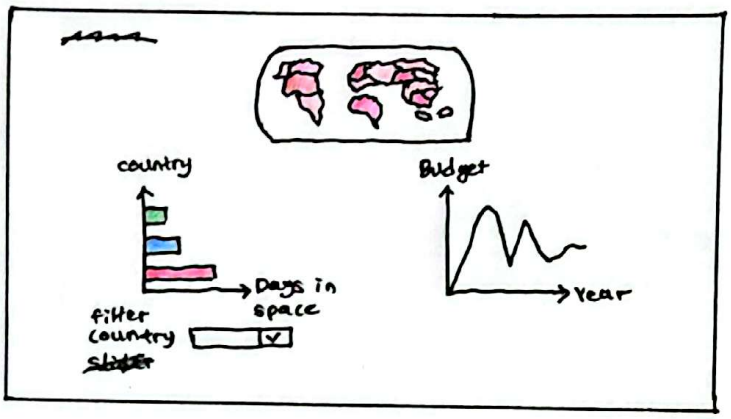
Author : Andrew Chong Han Wen

Date : 12/10/2025

Task : visualize human spaceflight data

Sheet 1

Layout :



- This dashboard visualises number of space launches by each country, this includes : human-crewed missions and satellite missions.
- Total number of days in space per country and budget of NASA per year

Discussions :

+ve : wide variety of data covered

-ve : Annual budget of Nasa is too specific to one country

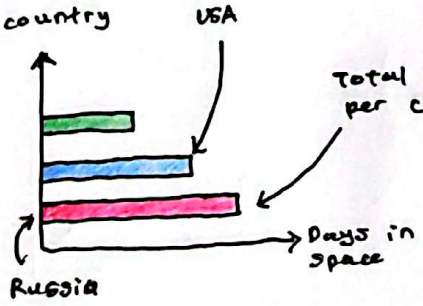
→visual elements can be placed sequentially for readability and more real estate area

Focus + operations

choropleth map :

every country has a number : total space launches

countries with relative low space launches have lighter shading



filter country :

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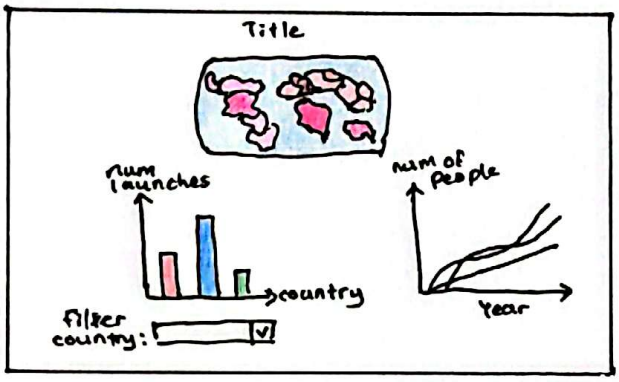
Sheet 3

Layout :



- This dashboard focuses on spaceflight by country and by time frame.

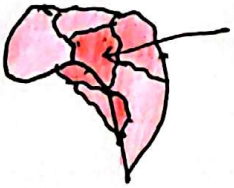
→ Positives: Data used is more cohesive, as opposed to sheet 1 using NASA data

→ Negatives: Number of launches for countries like USA are huge, which dominates smaller countries

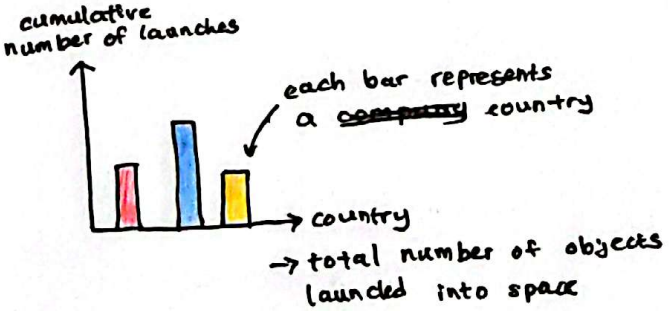
- A proportional symbol map is more suitable for absolute values

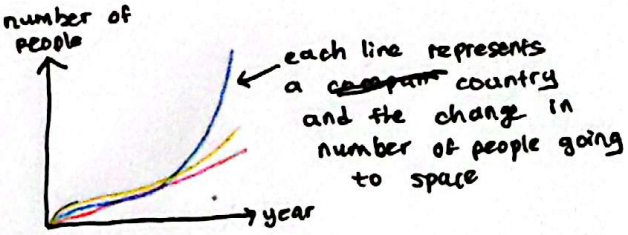
Map:

→ used to visualize cumulative number of people who have been to space



darker regions have greater values





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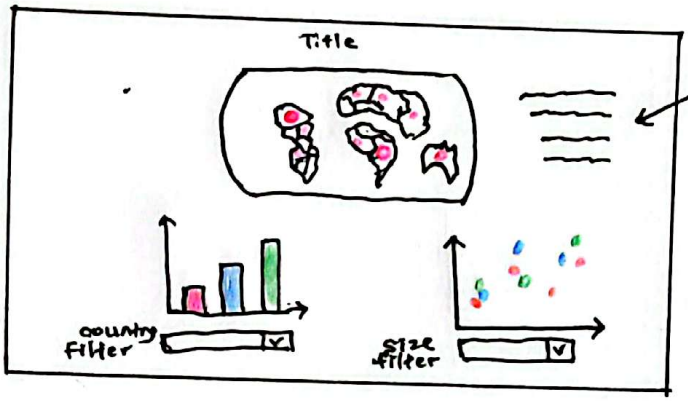
Sheet 4

Layout:

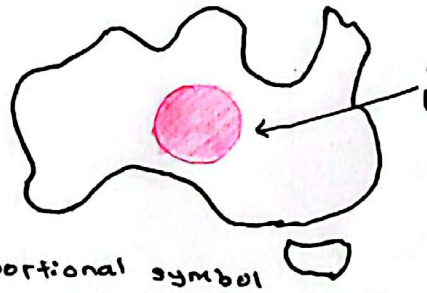


storytelling elements

Discussions:

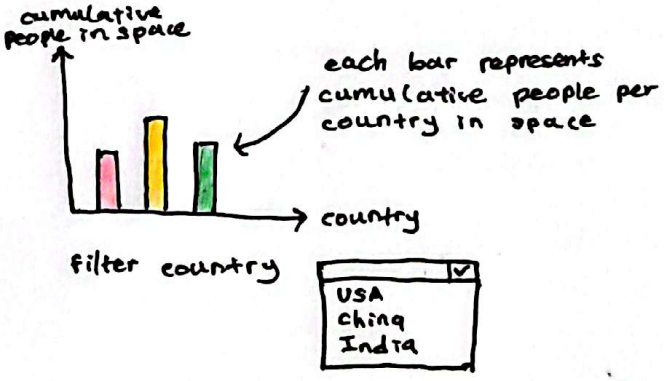
→ This dashboard includes rocket cost data from different countries
→ includes storytelling elements, which allows users to understand the spaceflight data
→ includes filtering for country and rocket class
→ bubble chart may be hard to view and cluttered

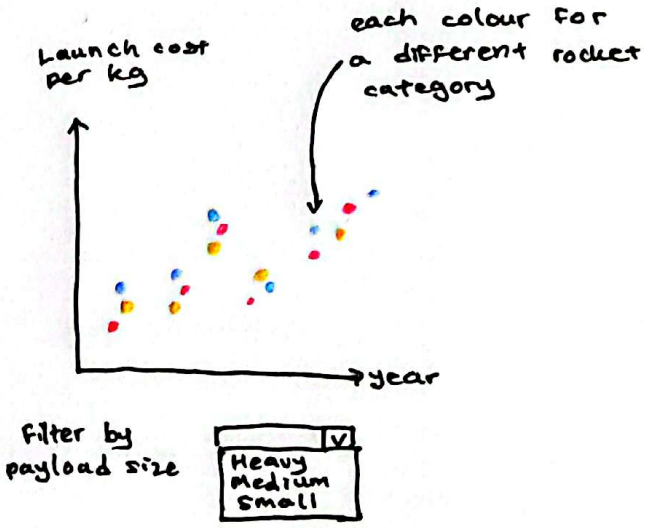
Proportional symbol map:



cumulative space launches per country

→ Proportional symbol map is used as data are absolute values





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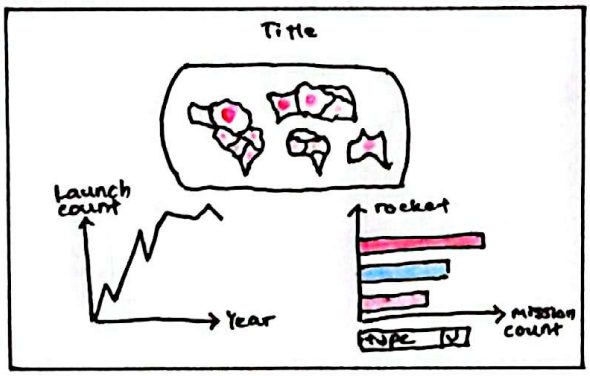
Sheet 5

Layout:



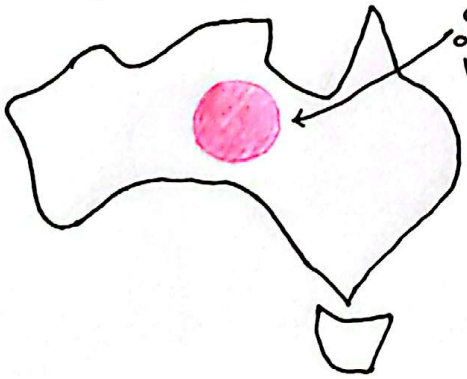
Discussions:

Negatives: cumulative number of people in space is small for countries, countries like USA will dominate the scales

→ Map uses proportional symbol map for absolute values

→ Dashbord is too simple needs at least one more visual as there is sufficient space

Proportional symbol maps:



Launches timeline: