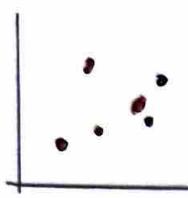


1. Ideas

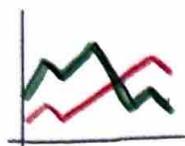
① Dotted plot



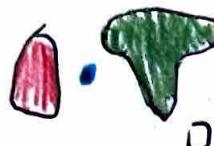
② Pie chart



③ Line Graph



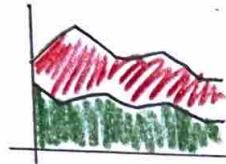
④ Choropleth map



⑤ Radar chart



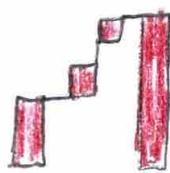
⑥ Area chart



⑦ Histogram



⑧ Waterfall



2. Filter

⑤ Pie chart

⑥ Area chart

The data don't have cumulative data.

⑦ Histogram : The data didn't show any distribution

⑧ waterfall : Not suitable for this data-type

⑥ radar chart : Not suitable for data have Time range .

3. Categorize

① To show relationship between X & Y axis.
Eg. (Terrorist score vs other indicators)

③ ④ : To show trend over year.

④ Bar chart : To compare value of different type (Eg - Type of terrorist attack)

4. Combine and Refine

③ ④ By combine it, we can create a choropleth map with a year slider to show trend over year.

⑤ ; we can create a small multiple view to show different relationship between Terrorist score and indicators.

⑨ Bar chart shows the number of attack type by attack type.

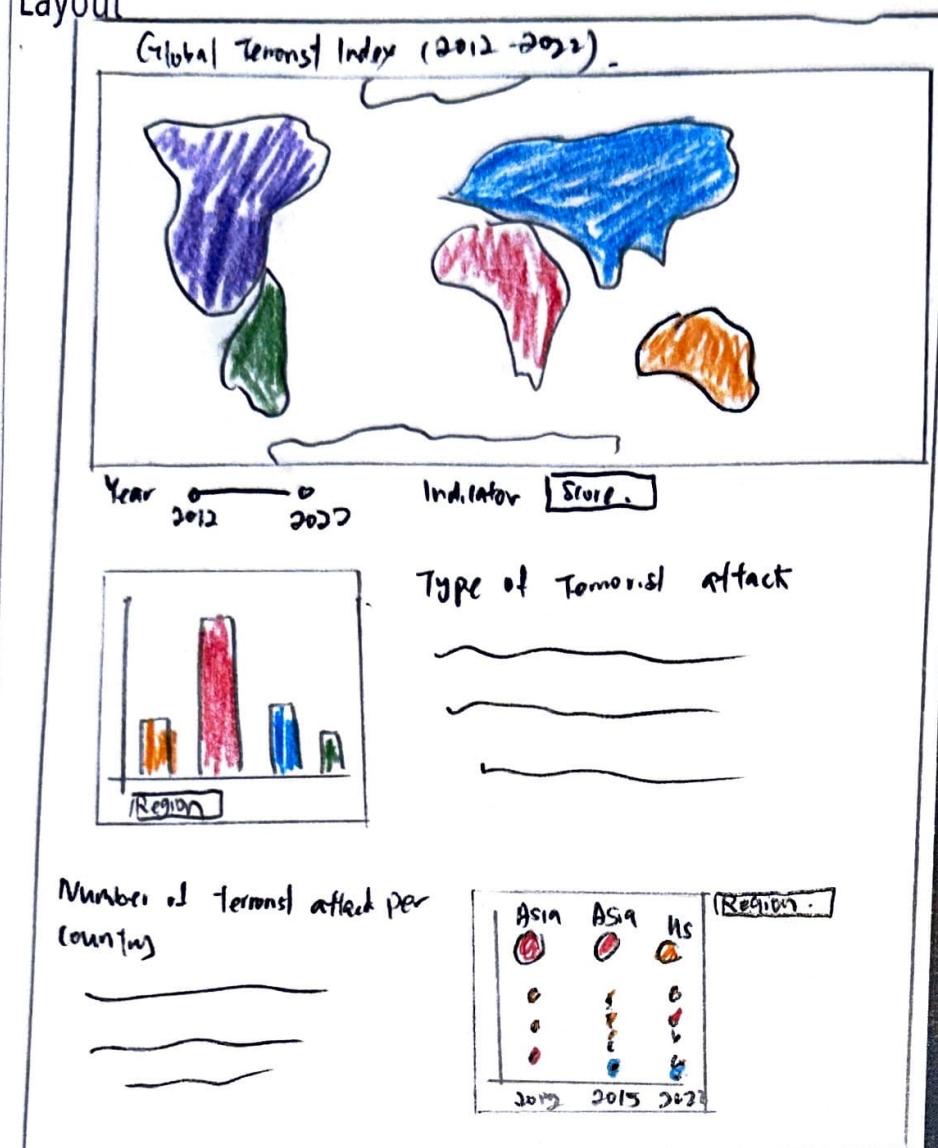
5. Question

① Does it show trend on terrorist score?

② Does it show relationship between terrorist score and injuries?

③ Can user filter out regions?

Layout



Title: Visualization Project 2

Author: Chew Yutian

Date: 5/10/23

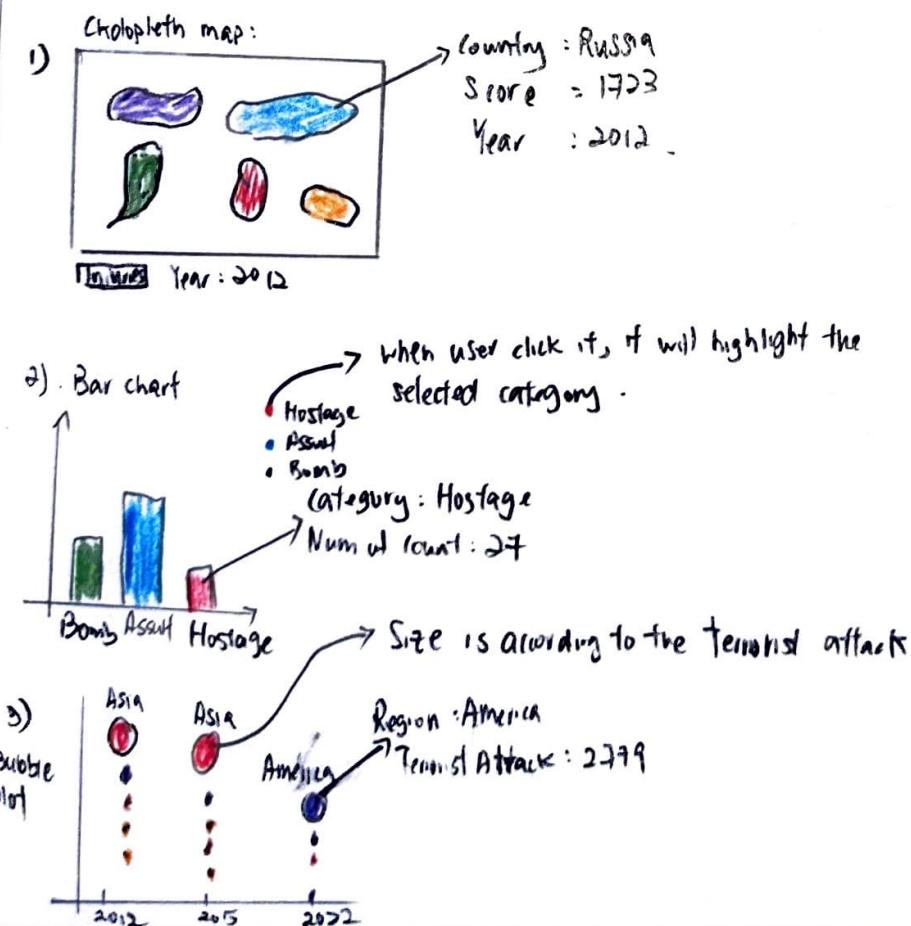
Sheet: ②

Task: long format Global Terrorist Index

Operations

- 1) The webpage is scrollable along years
- 2) Year, indicator and region can be selected to filter out selected data
- 3) Each point of the idiom will show the details using tooltips.
- 4) Text annotation on the bubble plot show the selected country that I focus on in the visualizations.

Focus



Discussion

Positive

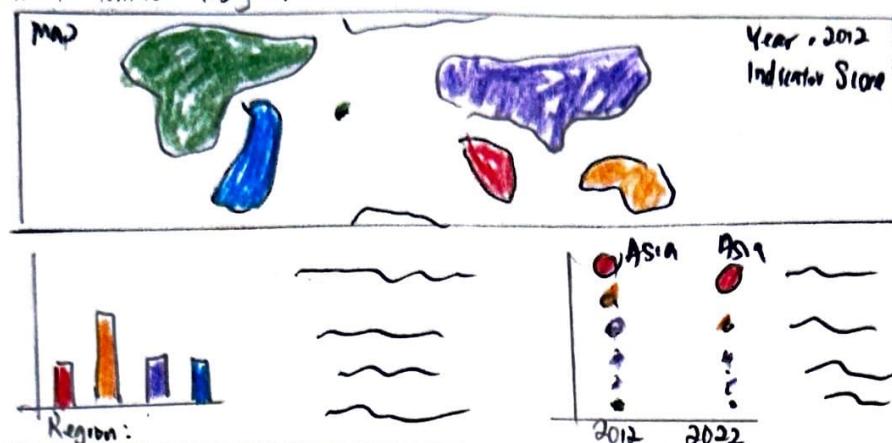
- 1) The layout have unlimited space where it can add more idioms in below
- 2) Idioms are dynamic where user can filter out what they need
- 3) having tooltip will show more details to the users.

Disadvantages.

- 1) If the website too long, user will feel hard to read the visualization
- 2) There is too many country in the bubble plot that cause messy.

Layout

Global Terrorist Insight.



Title: Visualization Project 2

Author: Chew Yu Han

Date: 6/10/23

Sheet: ③

Task: Dashboard.

Operations

- 1) A dashboard that use the entire screen size
- 2) Each point of the idioms will show the details of it using tool tips
- 3). Text annotation on bubble plot to show focus country.

FOCUS

1) Choropleth map.

- point on either one of the region will show the region name, score, and year selected

2). Bar chart

- hover on each bar will show details of current bar.

3) Bubble plot .

- hover on each bubble will show current bubble details.

Discussion

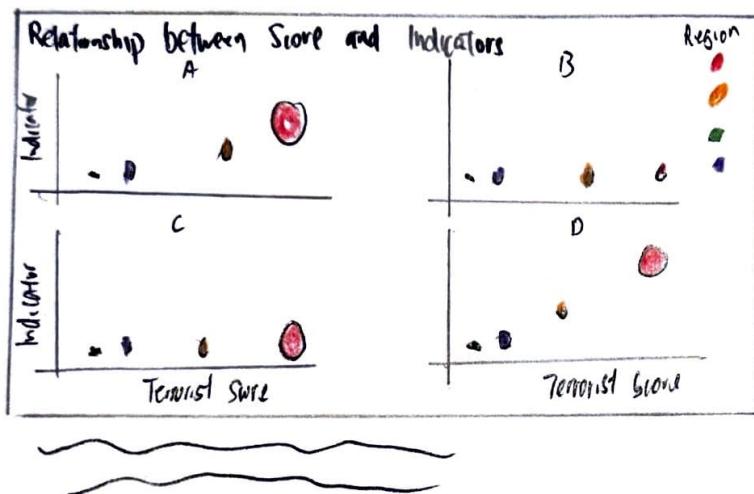
Positive

- 1) Give entire view of dashboard in one insight
- 2). Idioms are dynamic where region, year can be selected
- 3) Tool tips give additional info to users on the current spot.

Disadvantages

- 1) It will look pack and untidy when the dashboard layout is bad.
- 2) Limited idiom can be shown in the dashboard if using the entire screen without scrollable function.

Layout



Focus

- 1) choropleth map
 - each location shows region name, score & year
- 2) small multiple bubble plot.
 - each bubble show region, Terrorist score & Indicator score.

Title: Visualization project 2
Author: Chew Yulin
Date: 6/10/23
Sheet: 44
Task: Small multiple with map.

Operations

- 1) Dynamic idioms to filter out gear and region
- 2) tooltips to show details at current point

Discussion

Advantages

- 1) Small multiple bubble plot show details relationship in a entire view.
- 2) tooltips give additional info to users
- 3). Idioms are dynamic where indicator can be changed

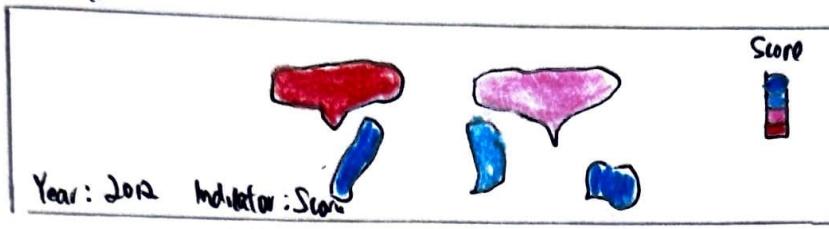
Disadvantages

- 1). If indicators are many, it will look messy in small multiple.

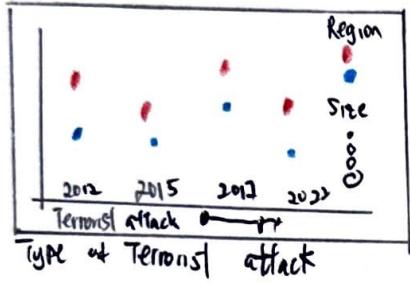
Layout

Global Terrorism Insight (2012 - 2022)

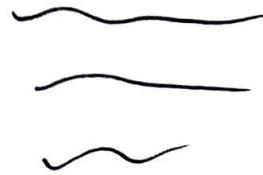
Introduction



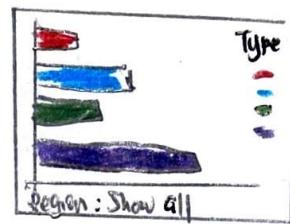
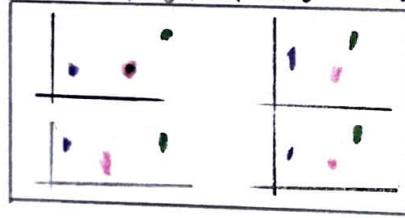
Number of Terrorist Attack



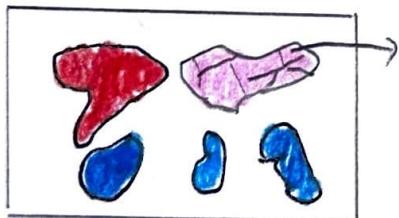
Type of Terrorist attack



Relationship between Score & Indicators

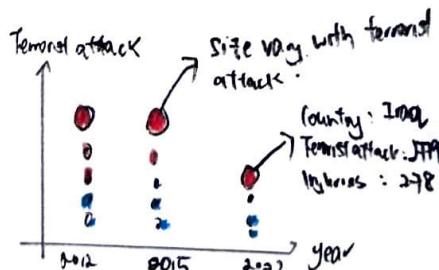
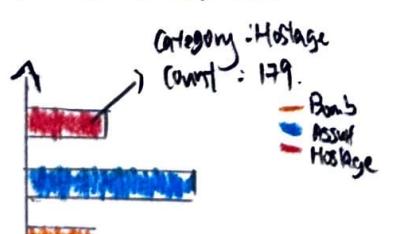


Focus

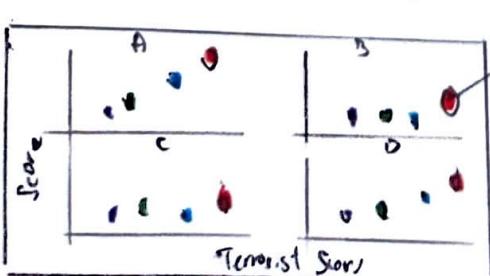


Year: 2012 Indicator: Score.

Country: Russia.
Score: 9.27
Year: 2012.



Number of Attack



Region: Asia
Terrorist Score: 1714
B Score: 50861

Title: Visualization project 2

Author: Chew Yu Han

Date: 7/10/23

Sheet: 5

Task: Global Terrorism Insight

Operations

- 1) Hover any point of the graph will show details at current point
- 2) Option bar can be selected for indicator & region
- 3) year Slider can be used to control year
- 4) legend region also can highlight region
- 5) Terrorist attack slider can config number of attack to show.

Detail

- 1) Two different Data Set collected to visualize.
- 2) Time estimated build 15 hours. Include html & css.
- 3) Dataset taken from kaggle.
- 4) Query editing is needed for small multiple bubble plot and can be done in excel
- 5) data manipulation & cleaning is needed for this dataset.