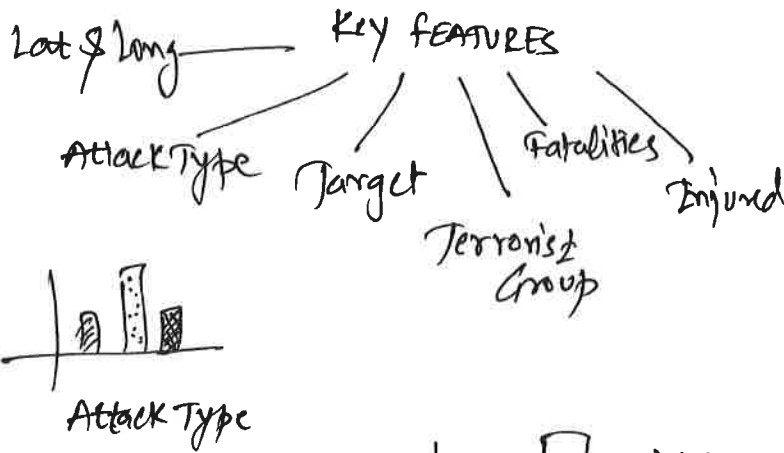
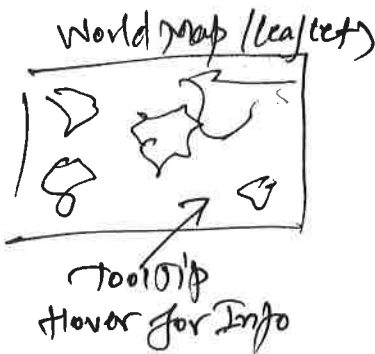
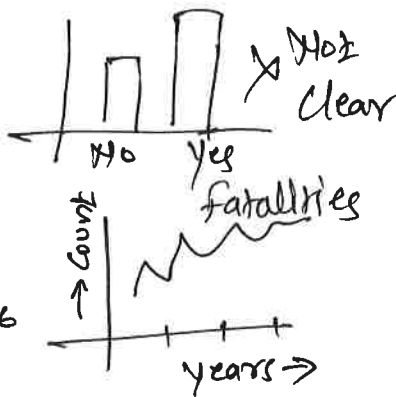
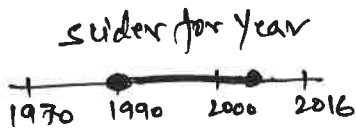


1. IDEAS

TERRORISM DATA - HUGE DATA



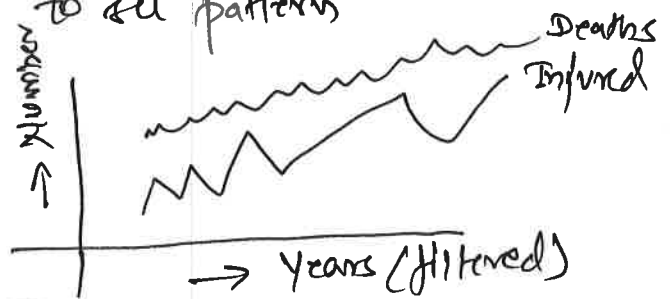
Success < 0 (Yes)
1 (No)



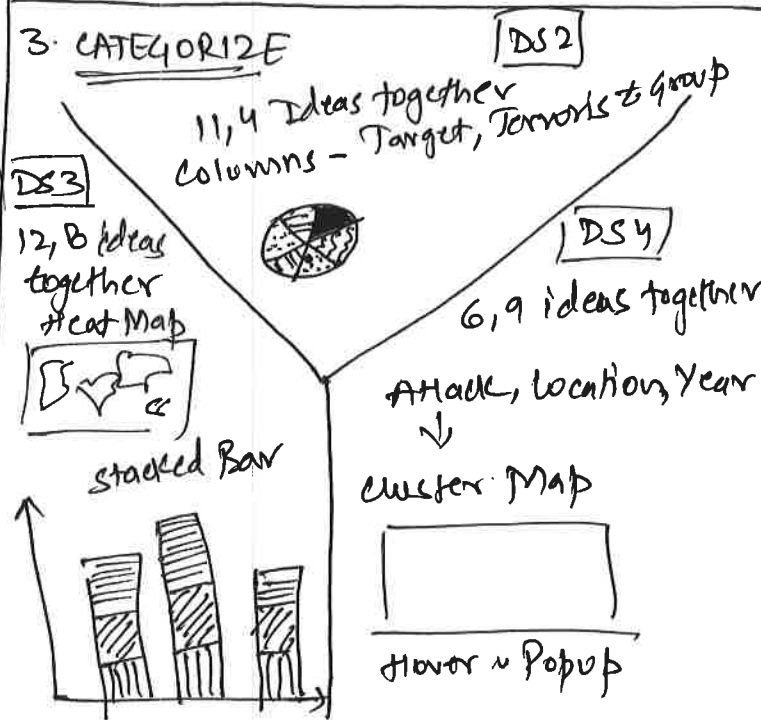
2. FILTER

Dataset - Huge (too many records)
* won't make much sense if summarised
* 2013 data missing

* Have filter of year / take range to see pattern



3. CATEGORIZE



4. COMBINE AND REFINE

Eliminating Bad Ideas
Organising Mini Ideas

* Can make heatmap or Cluster Map → from DS3 & DS4

* Analysts Over time

- Fatalities
- Injured
- Attacks

Main motive

Simple & Easily
understood interactive
visualization

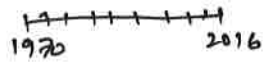
Question:

Does this interactive visualization idea be helpful to our target Audience?

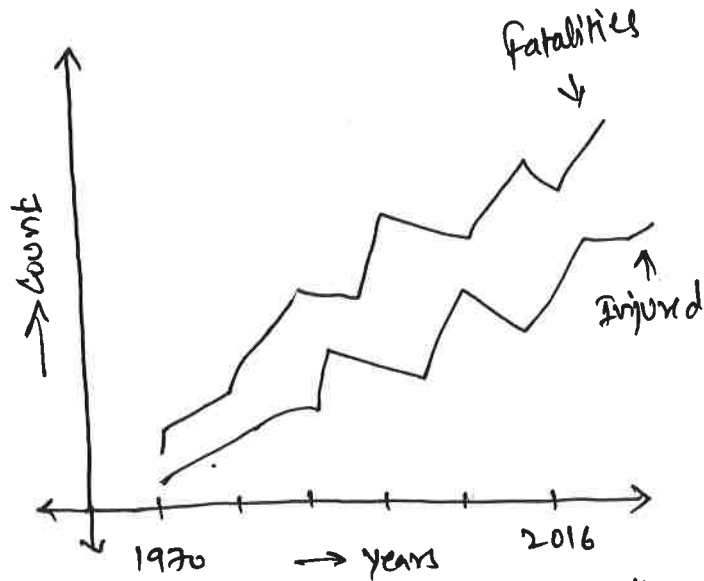
Yes. Since, the target audience is enforcement agencies, researchers, journalists exploring terrorism.

Layout:

Timeline:



Country:



* Data Filtered based on selected timeline & country

Focus: will produce

Information Related to that particular year (All-Attacks)

No. of Incidents: 1234

No of Fatalities: 1234

No. of Deaths: 1234

worst Attack of year

↳ Further Information

→ like Terrorist Group

→ Location

→ Summary

→ Catastrophy

Title → Five sheet Design

Author → AAYUSH KAPOOR

Date → 30-05-2018

Sheet → 02

Task → Terrorism Global Database

Operations

* User has to select country from dropdown.

* User also needs to select timeline both lower & upper limit.

* Line charts gets generated for selected country & selected timeline.

* Hovering on line chart brings up a tooltip with count & year information

Discussion:

Positives

* Very simple to understand.

* Gives an overview of pattern for a country in given timeline.

* Further clicking on tooltips gives info. of all attack that happened in particular year.

Negatives

* The visualization doesn't reveal underlying patterns & relationship.

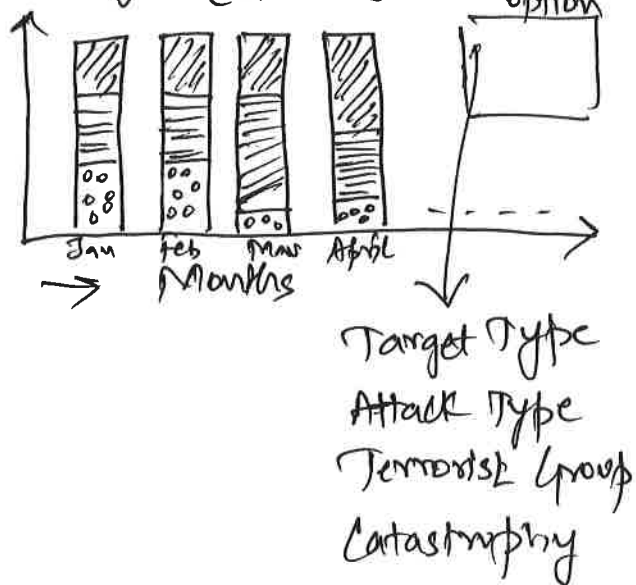
~~like~~

LAYOUT:

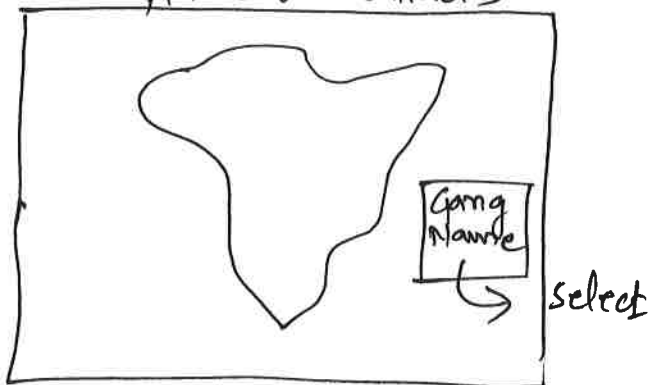
CHOROPLETH
WORLD MAP (HEAT MAP)



Dropdown
Clicking on Country will give (stacked Bar) option



Focus: Will further zoom into country, markers placed for attacks



1) Hovering will give info.

2) A layer to differentiate or color of marker to differentiate different terrorist group.

Title: FDS

Author: AAYUSH KAPOOR

Date: 30/05/2018

Sheet: 03

Task: Terrorism Global Database

Operations:

- * User have option to select Year
- * After selecting a year, they can click on any country, a choropleth map is already created.
- * When the country is clicked a stacked bar pops out with option to select different available variables like Target Type, Attack Type, Terrorist Group, Catastrophy by month further justifying data.
- * If the popup is closed, country map will have all markers distinguished based on Terrorist Group
- * Option to select Gang Name / Terrorist Group which will show only attacks by that terrorist group.

Discussion

+ve

- * Too much information in one visualization
- * Adding filter of Terrorist group on map will show the areas where group are active.
- * The stacked bar chart provides drill down analysis going by month.

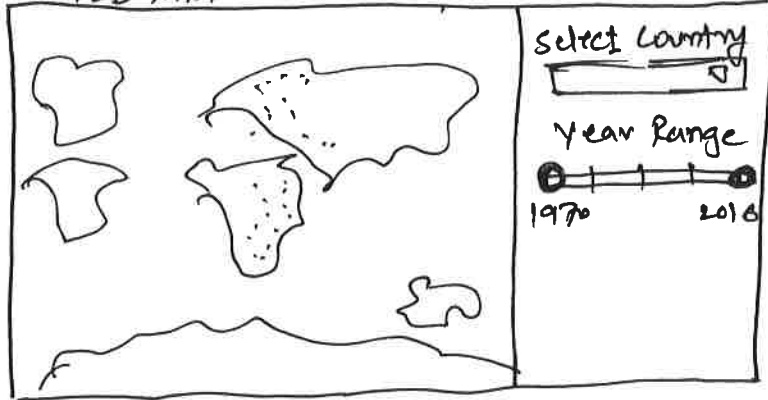
-ve

- * Lots of graph on one page
- * User might find it difficult

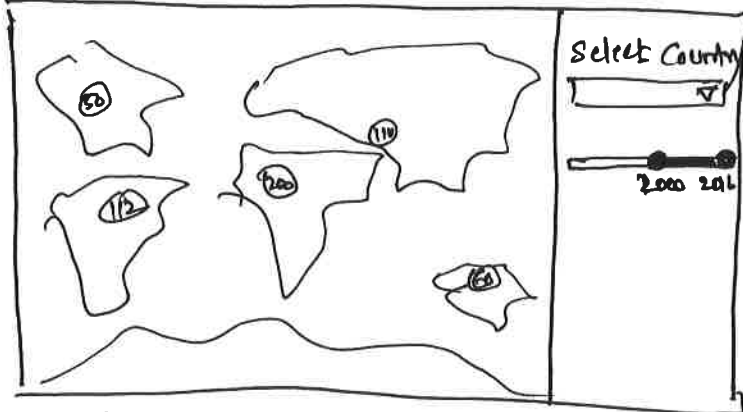
LAYOUT:

Terrorism Analysis | HEAT MAP | CLUSTER MAP

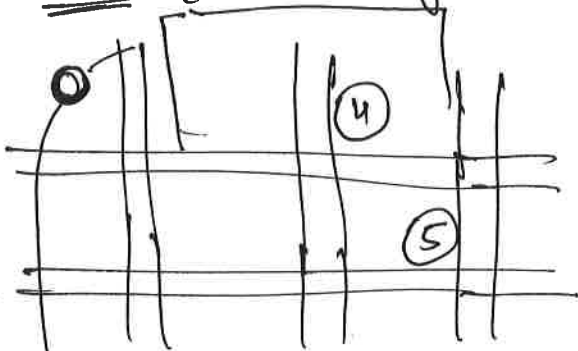
WORLD MAP: HEAT MAP



WORLD MAP: CLUSTER MAP



Focus (On Zooming Cluster Map)



Tool Tip Single Incident (Not Clustered)

Date: 20/08/1998
Terrorist Group: ISIL
Fatal/Injured: 0/4
Summary: Group of
militants attacked

Title: PDS

Author: AAYUSH KAPOOR

Date: 20-05-2018

Sheet: 04

Task: Global Terrorism Database

Operations

- * We have two tabs one with heat map & another cluster map
- * The user has option to select country & year range and map changes accordingly.
- * Similarly cluster map gives the count of incidents in each region.
- * The user has option to magnify the map to get info of terrorist attack at that particular location & other useful information related to that attack.

Discussion

+ve

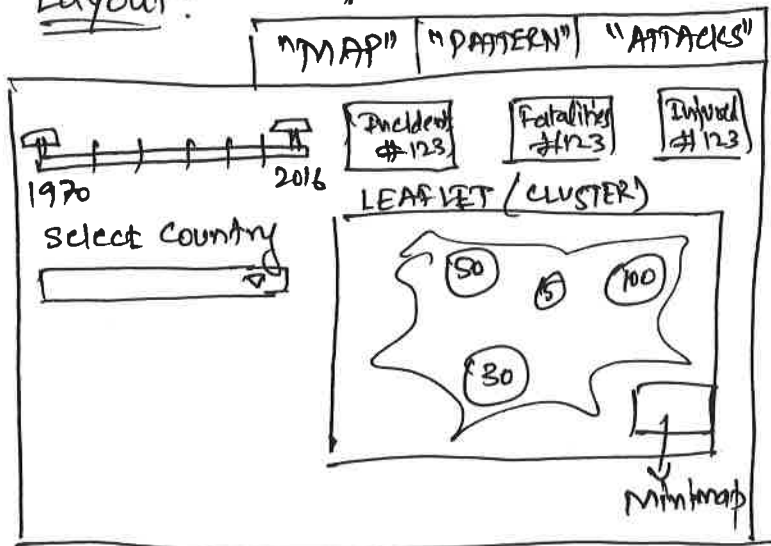
- * Shows area with extensive options on map
- * Clearly shows count of terrorist attack at each location.
- * High Interactive visualization.

-ve

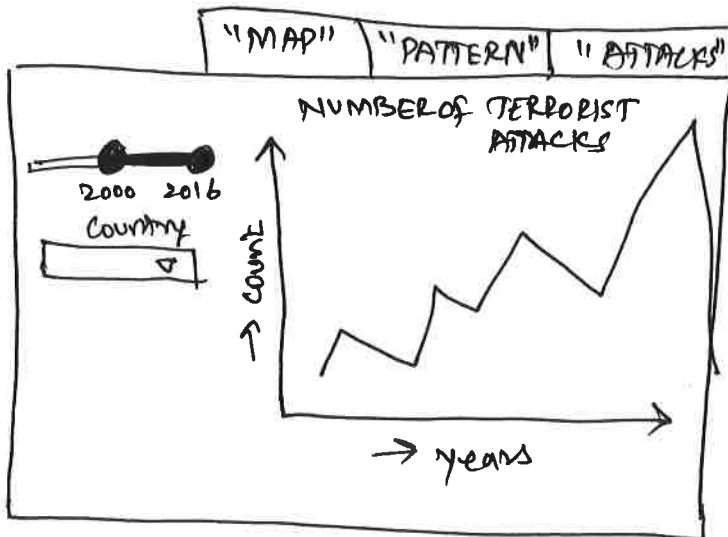
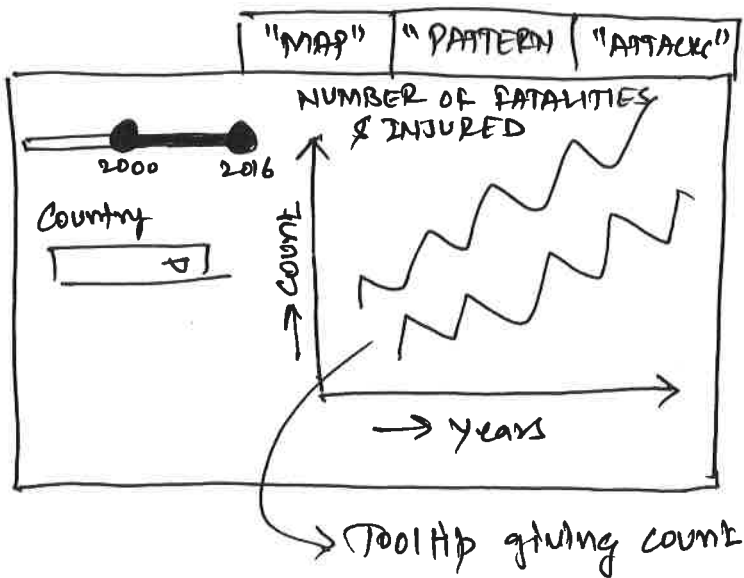
- * Complex & hard to implement
- * Does'nt provide detailed statistics of each type of terrorist attack.

Layout:

✓ selected



✓ selected



Title: Five sheet Design

Author: AAYUSH KAPOOR

Date: 30-05-2018

Sheet: 05

Task: Global Terrorism Data

Operations

- * The layout will have 3 tabset panels. Users once select a year range & country.
- * The all 3 tabset panels gets updated based on selection & input.
- * The cluster Leaflet can be further explored for terrorist attacks.
- * Markers have popup that display useful information.

DETAILS

Time to Build

* 1-1.5 week

DATASET

Global Terrorism Database

→ Maintained by University of Maryland

TOOLS

R shiny