Welcome To Our EDA Project

CAPSTONE PROJECT - 1

Our Project is

Global Terrorism Analysis

Team Name: Working With insights

Team Members Name:

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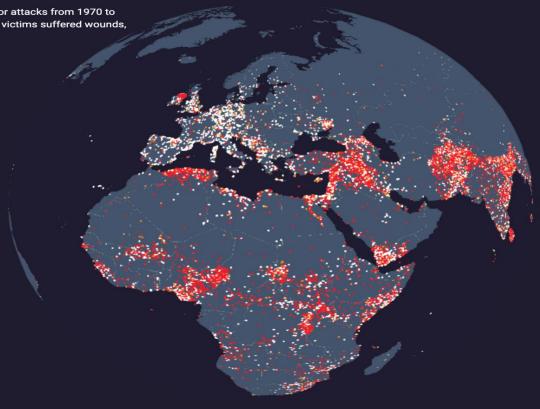
Global Terror, 1970 - 2017

This globe spatially visualizes terror attacks from 1970 to 2017. The colours indicate wether victims suffered wounds, damages or fatalities.

Fatal

Wounded

Damages





Global Terrorism Analysis

- 1) Defining problem Statement.
- 2) Importing libraries
- 3) Descriptive Statistic.
- 4) Graphical Representation
- 5) Observation.



Problem Statement

Data provided by the Global Terrorism Database.csv file is in unformatted manner, uneven data, and duplicate data and also some data columns it is irrelevant, because it's a piled-up data coming from various different countries.

For doing the analysis on the data the data needs to be in correct format and well organized formed the main objective of the analysis is to obtain the meaning full information and facts from the given huge datasets by cleaning the datasets, doing a proper analysis, visualization and plotting the useful information into different graph and charts so that the trend and relationship between the various indicators on which the analysis is done can be understand easily.

DATA DICTIONARY

- Year Year of the attack
- Month Month of the attack
- Day Day of the attack
- Region Name of the region where the attack happened consists of values like East Asia, Western Europe, etc.
- Country Name of the countries where the attack happened consists of values like Mexico, India, Iraq, Portugal
- State Name of the provinces/states where the attack happened which consists of values like Lattakia, Manipur
- City Name of the cities were attack happened consists of values like Baghdad, Mexico city, Imphal,
- Latitude Latitude of the location
- Longitude Longitude of the location
 - **Location** -Gives information of where the incident took place
- Summary- Gives information about the attacks
- Attack_type Consists of categories like explosion, armed assault, assassination, kidnapping.
- **Target_type** Consists of categorical values like private citizens, military, police, government officials, transportation, education, religious institution, airports, etc
- Gang_name Organization that claimed responsibility of an attack
- Weapon_type Type of weapon used in the attack. Weapon Type 1 contains values like firearms, explosives, melee, vehicles etc.
- Killed Number of people killed in any event.
- Wounded Number of people wounded in any event.

```
#Importing some required libraries import pandas as pd import numpy as np import matplotlib.pyplot as plt from matplotlib import style import seaborn as sns import warnings warnings.filterwarnings('ignore') %matplotlib inline
```

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181691 rows × 135 columns



Global Terrorism

- Terrorisms direct affected the safety of citizens.
- Terrorism attacks affected on regions, country, cities and it creates bad impact on our countries and the international stability and prosperity.
- The idea of this project is creat a <u>"Global Terrorism Analysis"</u> report through we can find the most affected regions, countries, city.
- Which weapons they use?
- How many people kills, wound in terrorist activity?
- We distribute whole analysis into four parts and lastly we put our observation.

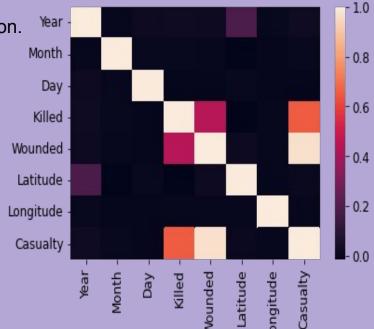


⇒ HEAT MAP (



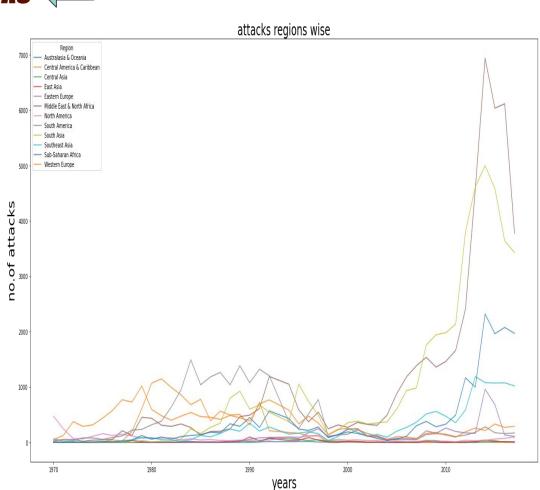
Heatmap is used to show relationships between two variables.

- ➤ Some data part of the heat map has a positive correlation.
- ➤ Some data part of the heat map has a negative correlation.
- >> Some data part of the heat map has a zero correlation.
- **▶** But very low data part of the heat map has a negative correlation.



Regions wise terrorist attacks

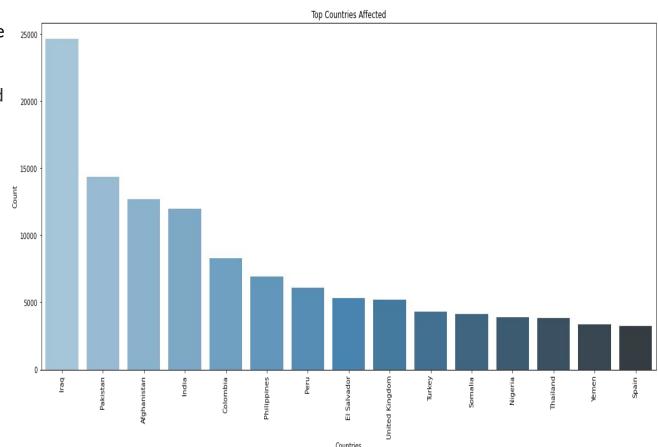
- **⇒** Regions wise terrorist attacks shown by the line chart.
- → A line chaxis and a vertical line i.e. y-axis to report consists of a horizontal lines i.e. x-aesent.
- → through line chart we conclude that:
- 1] Maximum attacks occur in Middle East and North Africa.
- 2] Minimum attacks occur in East Asia.





Country Wise Attacks

- Country wise attacks shown by the bar graph chart.
- ⇒ It consists of rectangles separated from each other with equal spaces.
- ⇒ For this bar graph we conclude that,
- 1] Maximum country wise attacks occur in Iraq from top 15 countries, then after that pakistan, afghanistan, India etc.
- 2]Minimum countrywise attacks occur in Spain from top 15 countries.

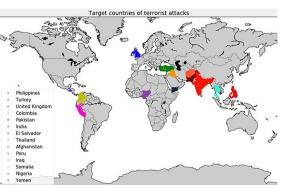


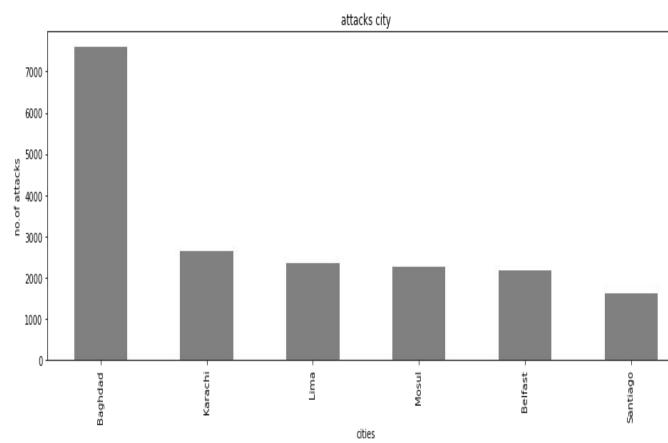


- city wise attacks shown by the bar graph.
- → through this bar graph we conclude that:

A] Maximum city wise attacks Occur in baghdad.

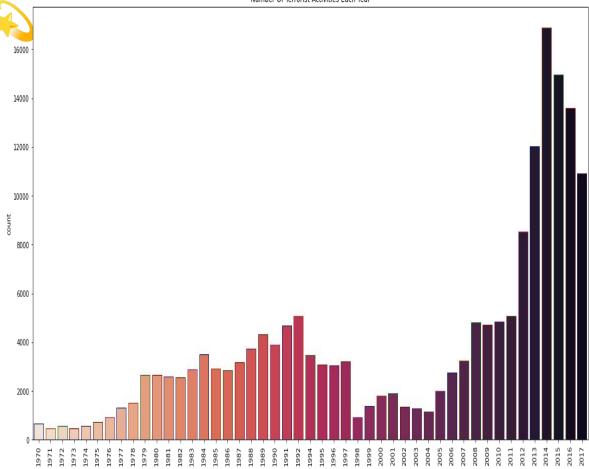
B] Minimum city wise attacks occur in santiago.





Year Wise Attacks

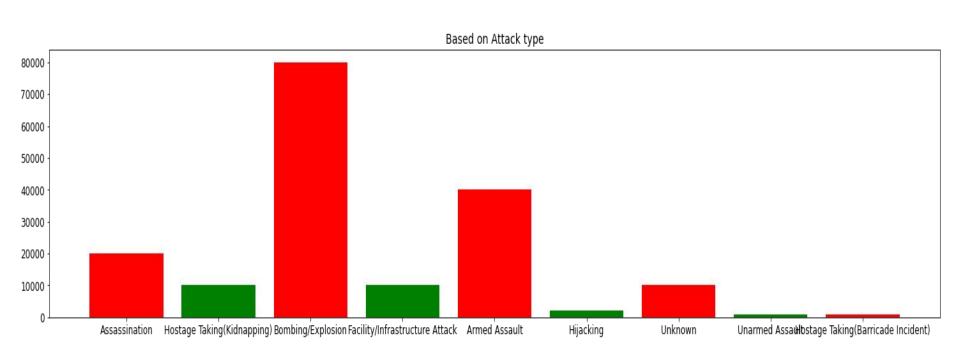
- Year wise attacks shown by the bar graph.
- Through this bar graph we conclude that:
- In this graph we can see that from 1970 to 2008 ups and down in the terrorist attacks. From 2008 it has increases very exponential till 2014, then we can see the reducing number of terrorism attacks after 2014.
- 1. Maximum number of attacks occurs in 2014.
- 2. Minimum number of attacks occurs in 1971.



➤ Based on attacks type

- based on attacks type shown by bar graph.
- through this graph we conclude that:

Most of the attacks happened to either Bomb or Explosion.







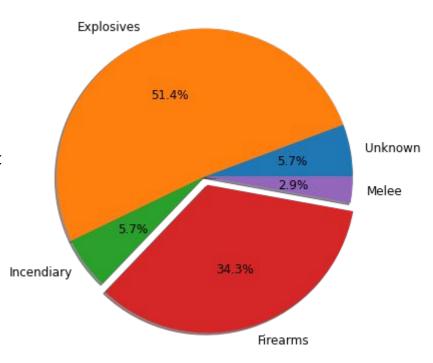
Based on weapons type shown by pie chart.

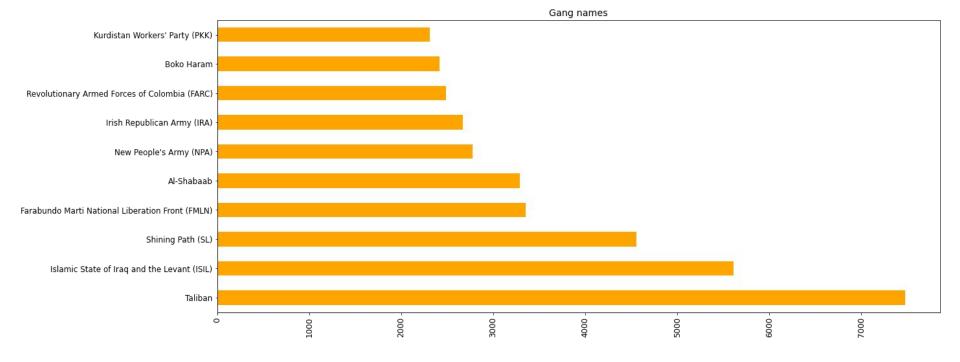


-A pie chart is a type of graph that represents the data in the circular graph.

Through this pie chart we conclude that:

- 1] An Explosives (51.4%) type of weapons were most used in terrorist attacks.
- 2] The Melee (2.9%) type of weapons were least used in terrorist attacks.



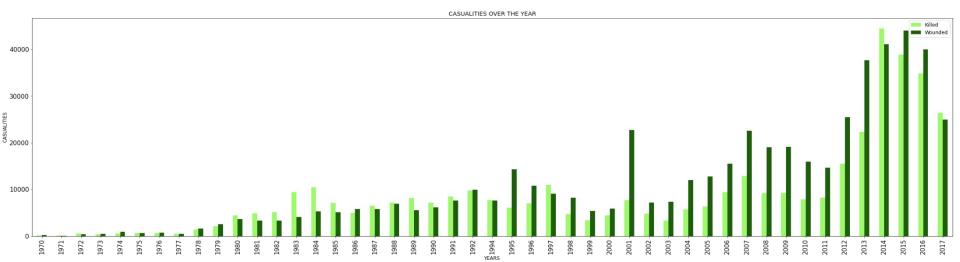


Gang Names:

- 1] Taliban is responsible for more than 7000 attacks.
- 2] It is the most dangerous gang.

➡Total Casualties(kill and wound)in each year

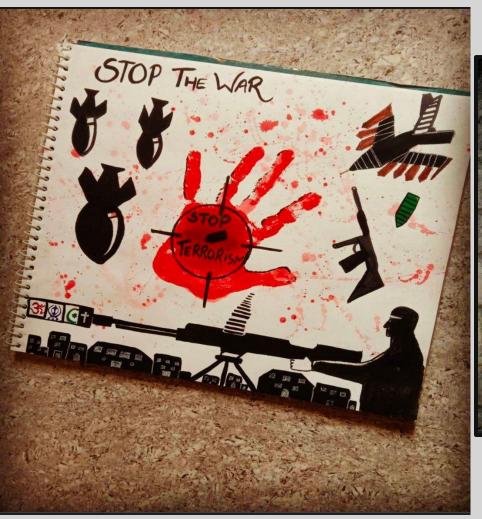
- a. Maximum casualty occurs in 2014.
- b. Less casualty occurs in 1970.
- c. 1970 to 2014 causality has increased.



Observations

For our study we observed following insights:

- ★ Maximum attacks occur in Middle East and North Africa.
- ★ Minimum attacks occur in East Asia.
- Maximum country wise attacks occur in Iraq from top 15 countries, then after that pakistan, afghanistan, India etc.
- ★ Minimum country wise attacks occur in Spain from top 15 countries.
- ★ Maximum city wise attacks occur in baghdad...
- ★ Minimum city wise attacks occur in santiago...
- ★ Maximum number of attacks occurs in 2014.
- ★ Minimum number of attacks occurs in 1971.
- ★ Most of the attacks happened to either Bomb or Explosion.
- ★ An Explosives (51.4%) type of weapons were most used in terrorist attacks.
- \star The Melee (2.9%) type of weapons were least used in terrorist attacks.
- ★ Taliban is responsible for more than 7000 attacks.
- ★ It is the most dangerous gang.
- ★ Maximum casualty occurs in 2014.
- ★ Less casualty occurs in 1970.
- ★ 1970 to 2014 causality has increased.







Any Queries?

