

Capstone Project

Global Terrorism Analysis

TEAM NAME: BETA_UP_YOUR_MIND

TEAM MEMBERS

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Global Terrorism Analysis

Terrorism is defined as political violence in an asymmetrical conflict that is designed to induce terror and psychic fear (sometimes indiscriminate) through the violent victimization and destruction of noncombatant target.

The Global Terrorism Database(GTD) is a database including information on terrorist events around the world from 1970 through 2017. Unlike many other event databases, the GTD includes systematic data on domestic as well as international terrorist incidents that have occurred during this time period and now includes more than 181,000 cases.

In the following slides, we will understand on how the world has been affected by these terror attacks.



Raw Data

	eventid	iyear	imonth	iday	approxdate	extended	resolution	country	country_txt	region	...	addnotes	scite1	scite2	scite3	db:
0	1.970000e+11	1970	7	2	NaN	0	NaN	58	Dominican Republic	2	...	NaN	NaN	NaN	NaN	
1	1.970000e+11	1970	0	0	NaN	0	NaN	130	Mexico	1	...	NaN	NaN	NaN	NaN	
2	1.970000e+11	1970	1	0	NaN	0	NaN	160	Philippines	5	...	NaN	NaN	NaN	NaN	
3	1.970000e+11	1970	1	0	NaN	0	NaN	78	Greece	8	...	NaN	NaN	NaN	NaN	
4	1.970000e+11	1970	1	0	NaN	0	NaN	101	Japan	4	...	NaN	NaN	NaN	NaN	

5 rows × 135 columns

Above picture depicts the raw data of Global Terror Attacks. The data has not been cleaned and contains unnecessary values.

Cleaned Data

	Year	Month	Day	Gang_Name	Nationality	Country	State	Region	City	Latitude	Longitude	Attack_Type	Weapon_Type	Main_Tar
0	1970	7	2	MANO-D	Dominican Republic	Dominican Republic	NaN	Central America & Caribbean	Santo Domingo	18.456792	-69.951164	Assassination	Unknown	Pri Citize Proje
1	1970	0	0	23rd of September Communist League	Belgium	Mexico	Federal	North America	Mexico city	19.371887	-99.086624	Hostage Taking (Kidnapping)	Unknown	Governr (Diplom
2	1970	1	0	Unknown	United States	Philippines	Tarlac	Southeast Asia	Unknown	15.478598	120.599741	Assassination	Unknown	Journalis M
3	1970	1	0	Unknown	United States	Greece	Attica	Western Europe	Athens	37.997490	23.762728	Bombing/Explosion	Explosives	Governr (Diplom
4	1970	1	0	Unknown	United States	Japan	Fukouka	East Asia	Fukouka	33.580412	130.396361	Facility/Infrastructure Attack	Incendiary	Governr (Diplom

Above picture depicts the cleaned data of Global Terror Attacks. The data has been cleaned and the column names have been modified.

OVERVIEW

1. Analysis based on attacks

- Top 10 Terrorist organization with most no. of attacks.
- Top terrorist organization and their favourite attack types.
- Type of attack mostly used by the terrorist organization.
- Top 10 most attacked targets.
- Yearly growth of terrorist attacks.



2. Analysis based on Killings

- Top 10 terrorist organization with highest kills.
- Location in which 50+ people were killed in the year which having the most terrorist attacks.
- Death analysis in both Country and Region wise.



3. **Analysis based on Country, region and State**

- Top 10 most attacked countries.
- Most attacked region and state.



Data Summary

Year: Year of attack

Month: Month of attack

Day: Day on which attack happened

Country: Country in which attack happened

Gang_Name: Name of the gang that attacked

Main_Target: Type of people who have been targeted in the

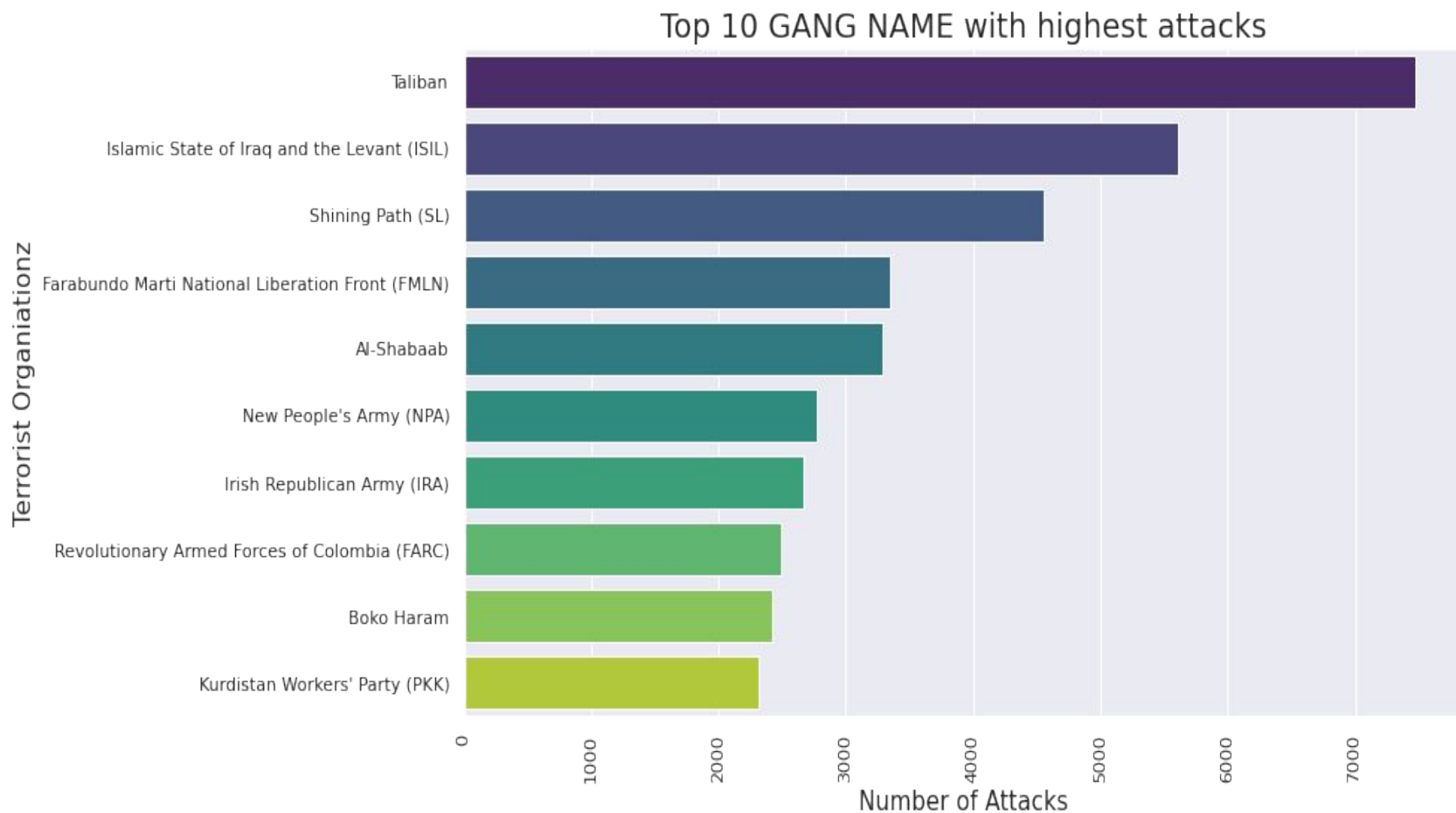
Attack_Type: Type of attack used by the gang.

State: state in which attacked happened

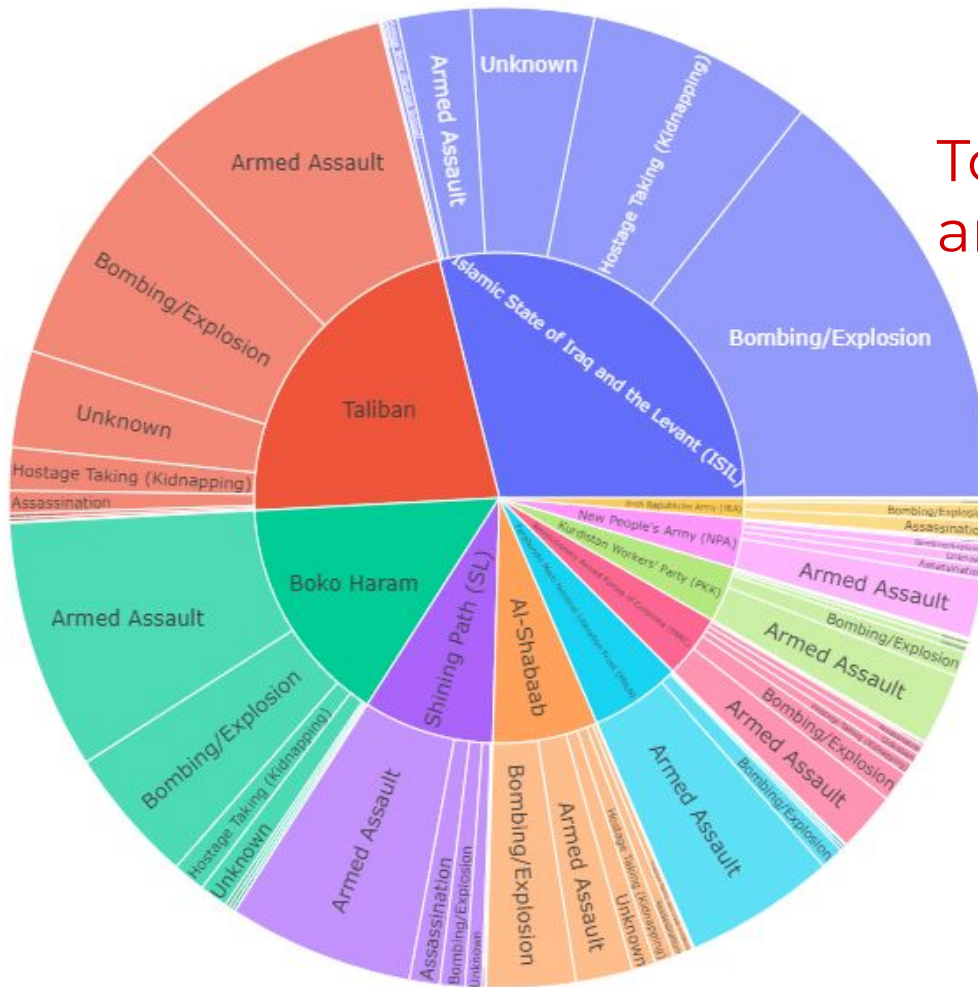
Regions: the regions where attack has happened.

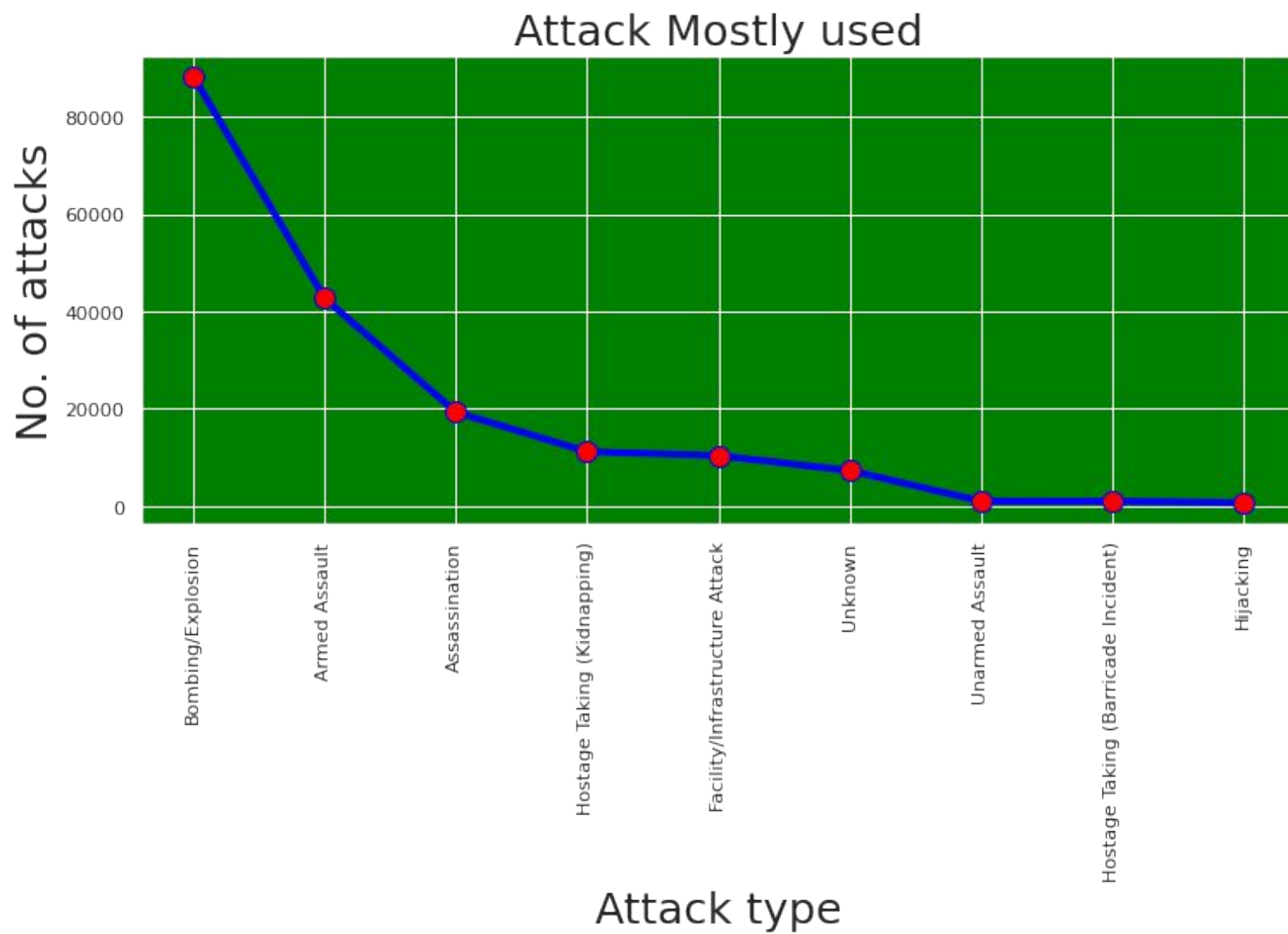
killed: Number of people killed in the attack.

Analysis based on attacks

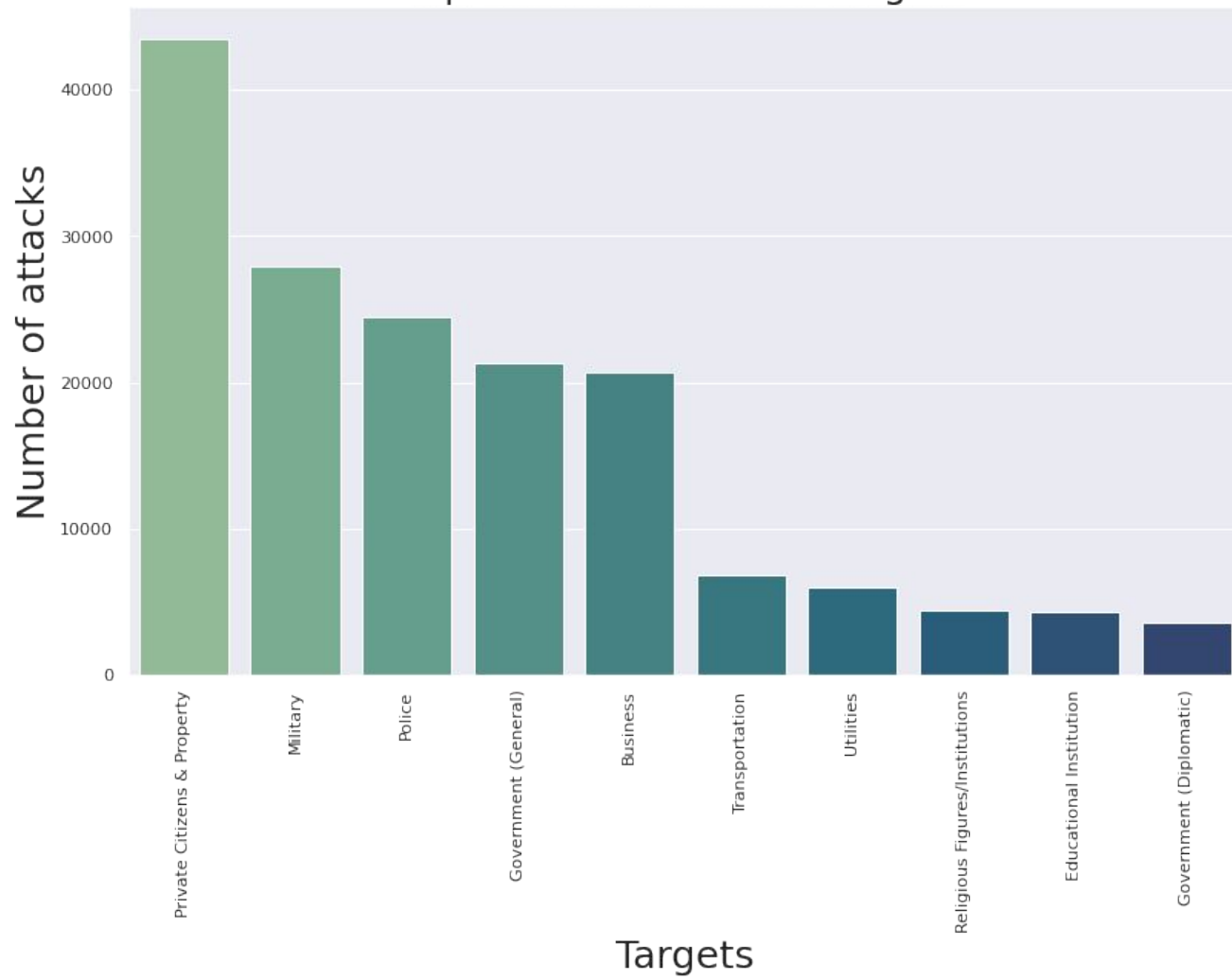


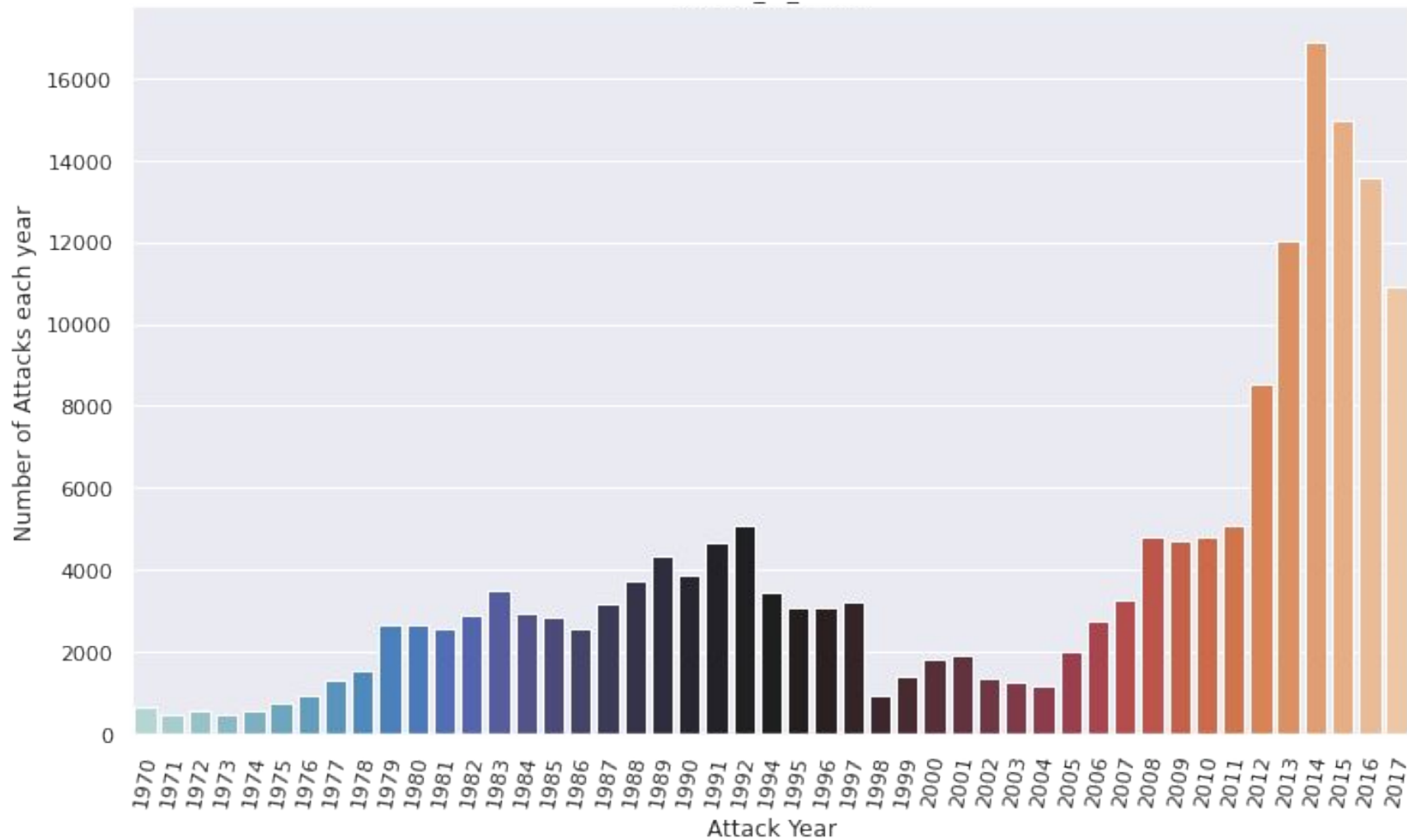
Top Terrorist Organizations and Attack Types



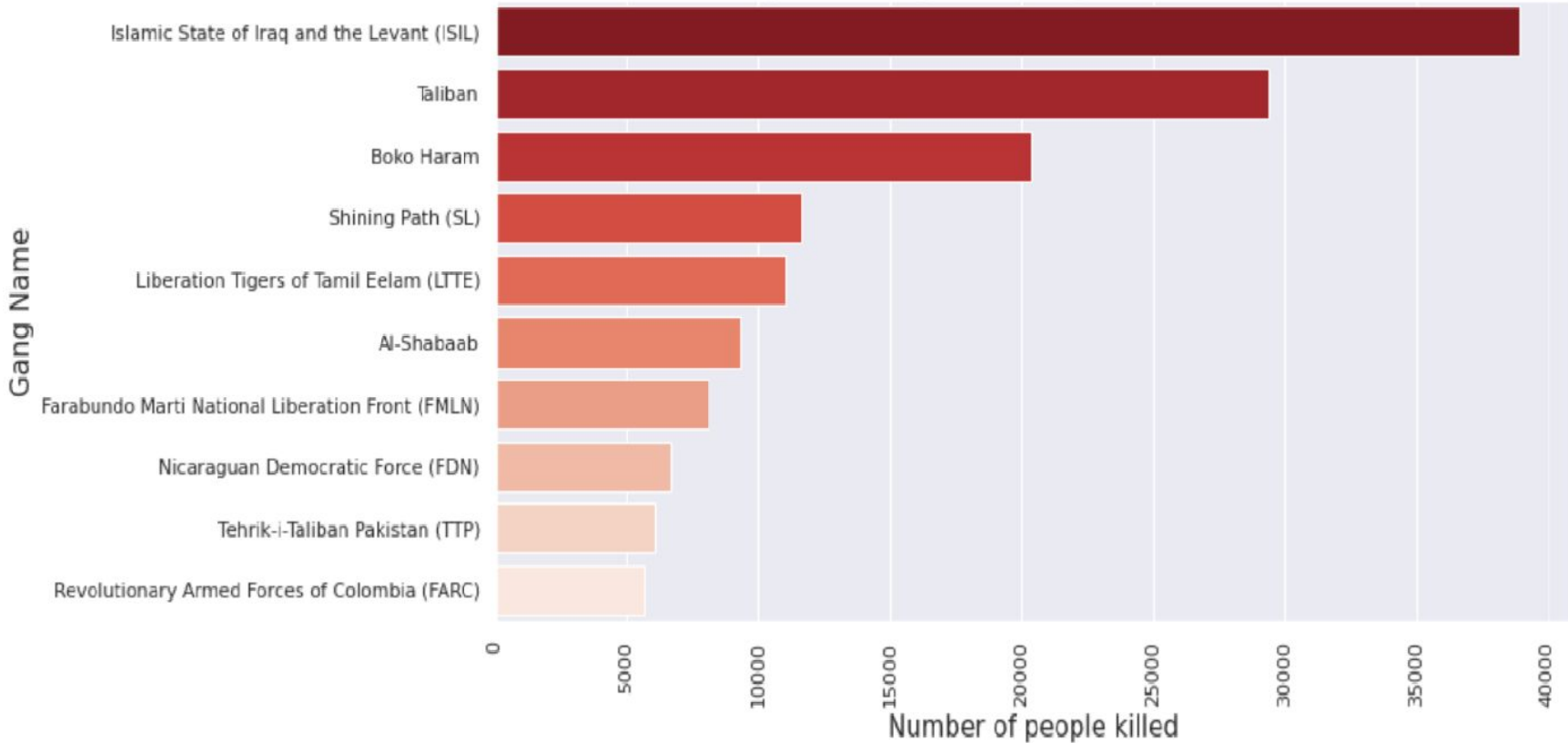


Top 10 most attacked targets

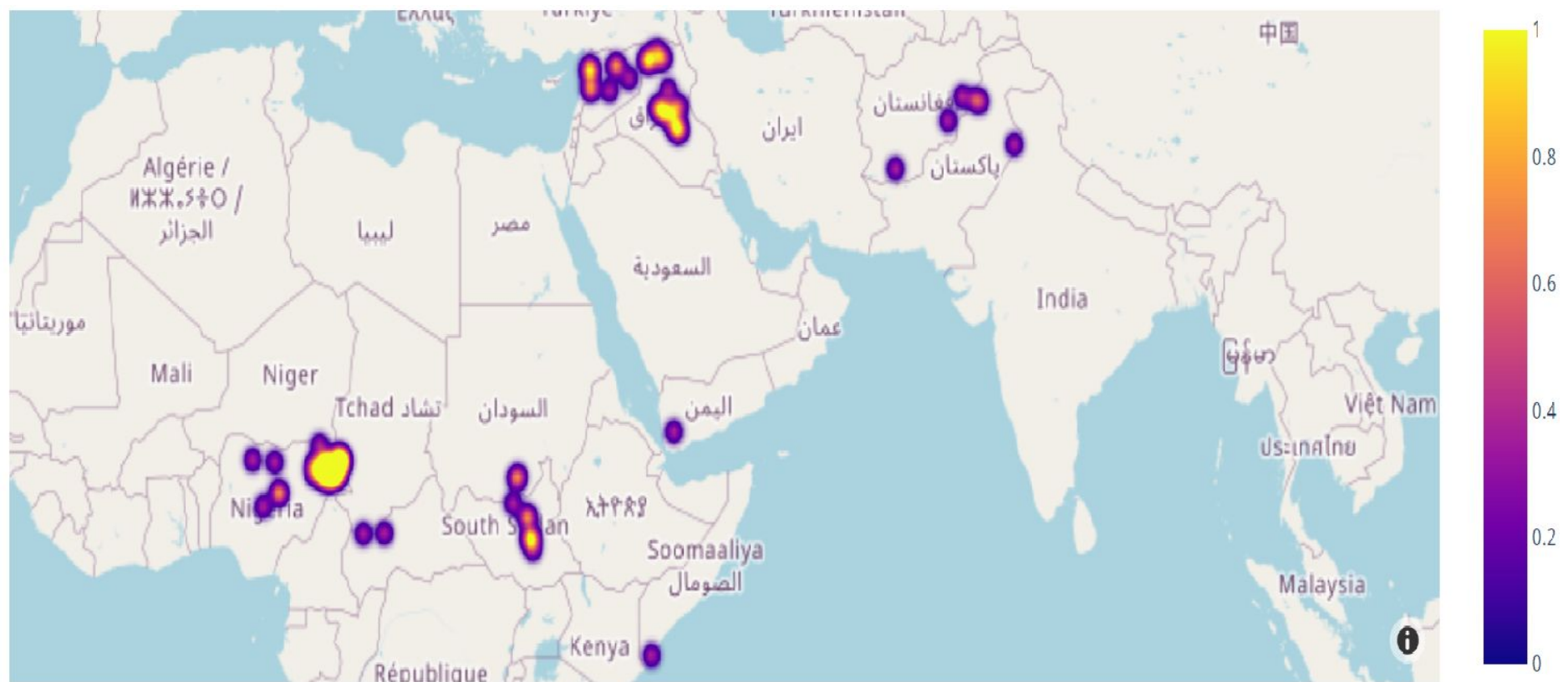


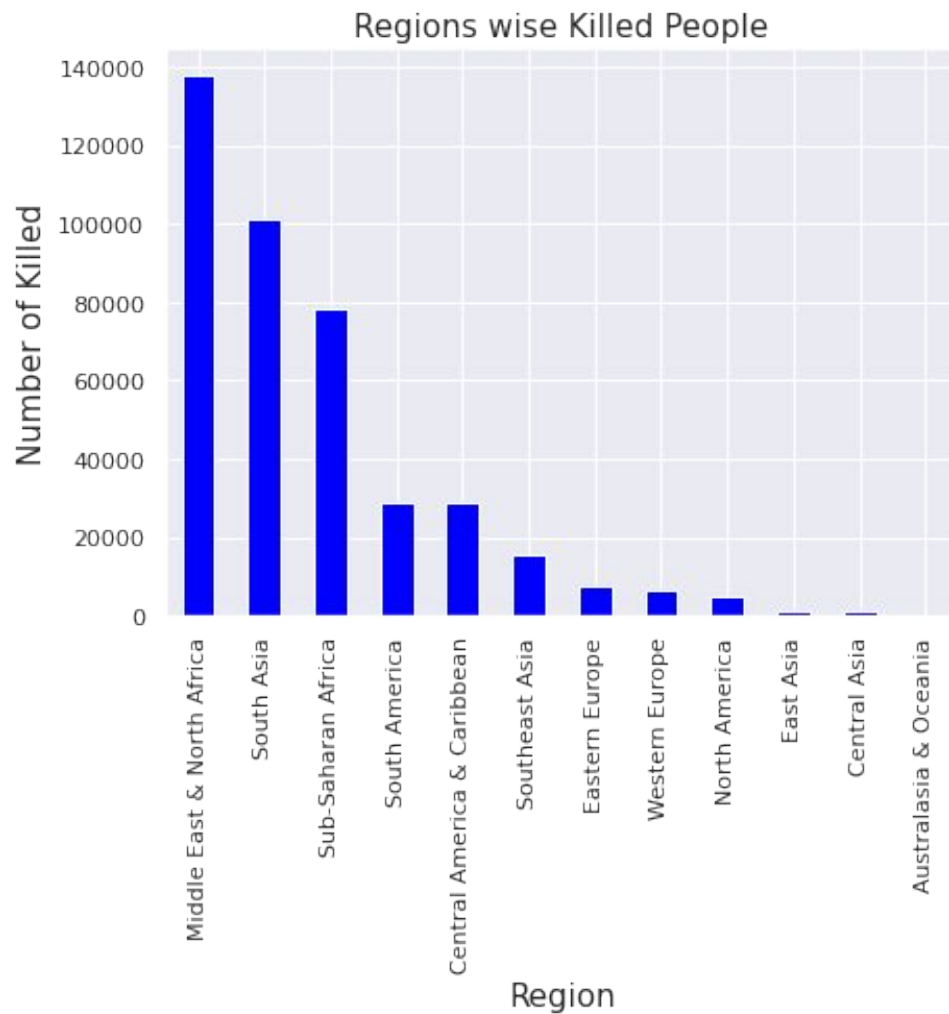


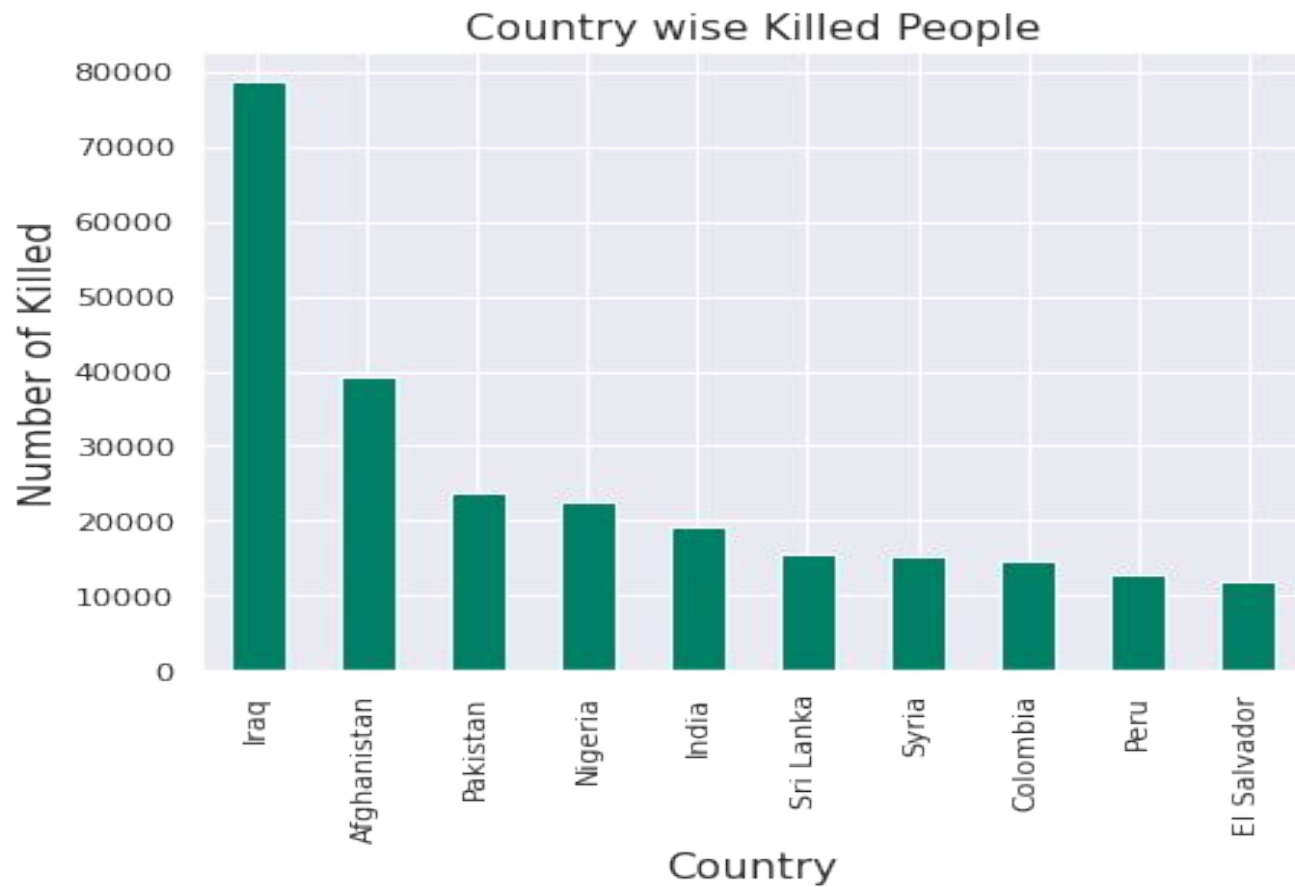
Top 10 Gangs with highest no. of kills



Location where Killings were More Than 50 People (2014)



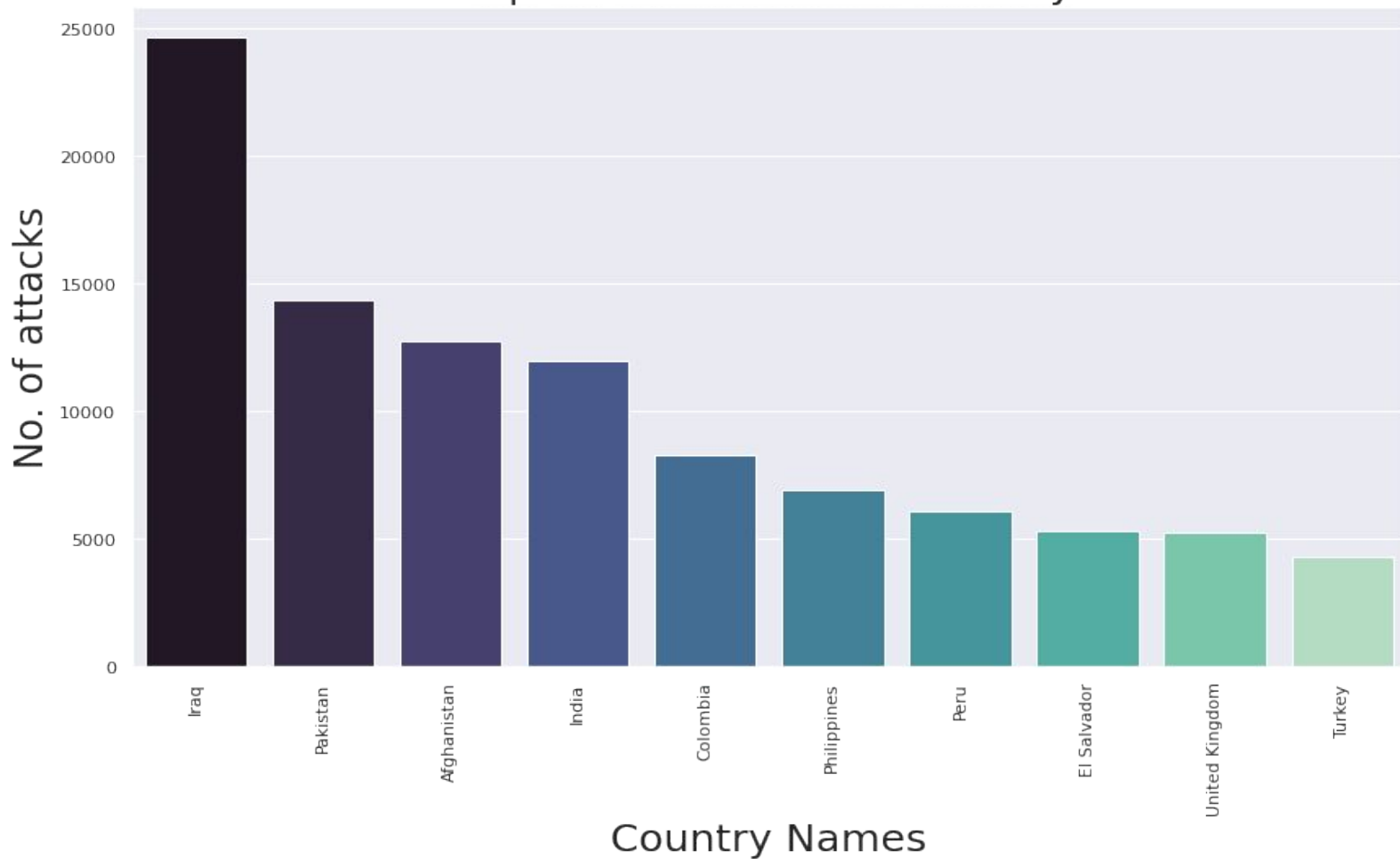


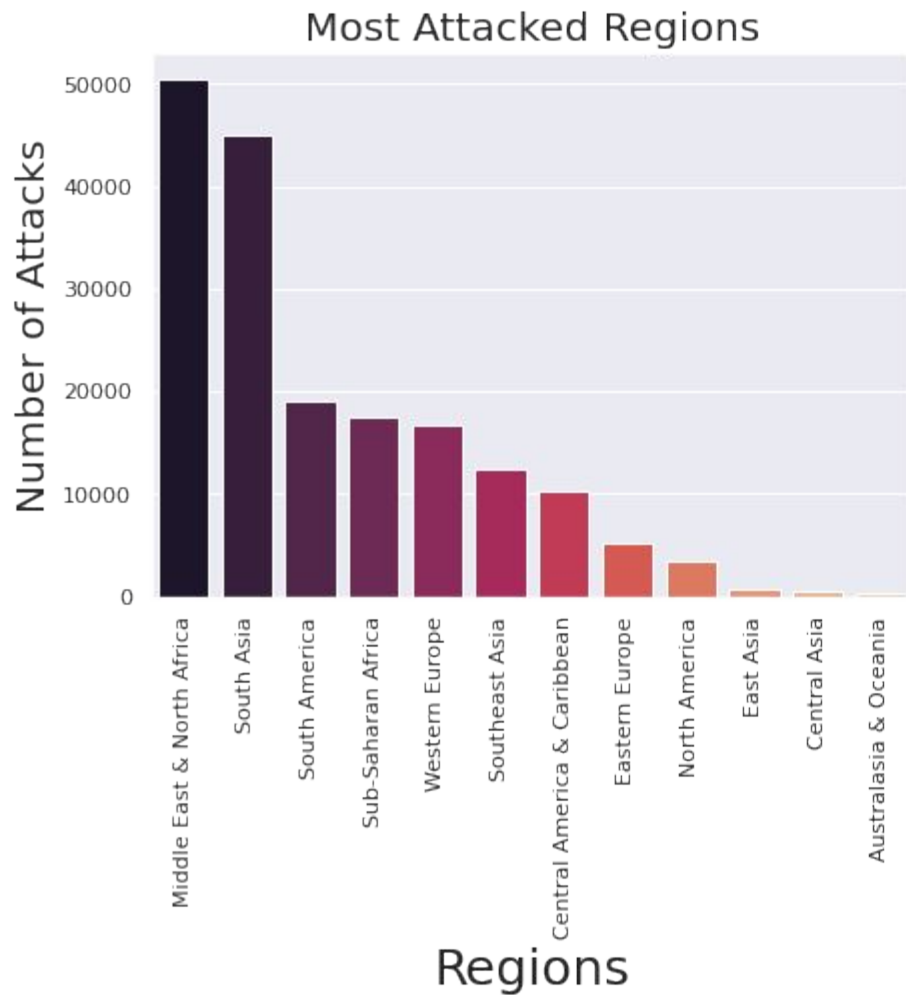


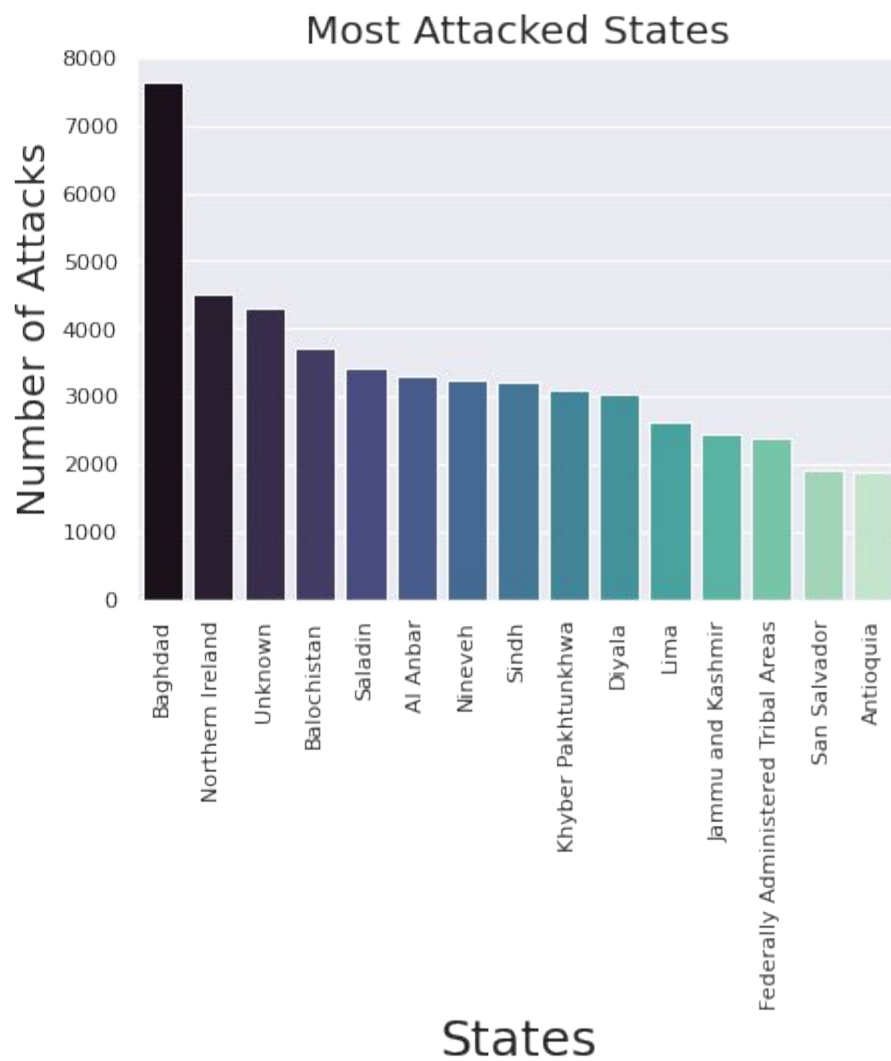
Analysis based on country,region and state



Top 10 most attacked country







CONCLUSION

- "Taliban" is the most powerful, dangerous and the most active gang among all of the gangs, followed by "Islamic state of Iraq and the levant(ISIL)" and "shining path(SL)".
- "Islamic State of Iraq and the Levant (ISIL)" killed the highest number of people which is approximately 40k followed by "Taliban" and "Boko Haram" with an approximation of 30k & 20k respectively.
- 50% of the attacks have occurred because of Bombing/Explosion and 10-20% occurred because of Armed Assault & Remaining other are in between 0-6%.
- After 2011 we can observe that there is a large growth recorded in terrorist attacks followed by 2014 which appears to witness a sudden growth in the terrorist attacks.
- "Iraq" is the country that has the highest number of people killed due to terrorist attacks, approximately 80k followed by "Afghanistan" & "Pakistan".

- Among all the regions "Middle East & North Africa" has the most number of killed people approximately 1.4 Lakhs followed by "South-Asia" & "Sub-Saharan Africa".
- The most targeted attacks are on "Private Citizens & Property" which is approximately 25% and 10-20% is the target on "Military", "Police", "Government", "Business".
- Most number of attacks have happened in the "Baghdad" followed by "Northern Ireland" and other many other states.

THANK YOU
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