



EDA TERRORISM

>Lorem ipsum dolor sit amet, ex egestas inceptis. Sed aperiam ut nesci. Cum ne tempus nostrum, ex nec solentia nostrum. In peripetis aliquando urbanitas nesci, conquis reformidare nesci ex. Ut hinc essent servitus inperpetuum. Aeneas nostrum nec ut, facillime periculis constrictum ex met, ne denique repudium patrique ut.

Exploratory Data Analysis on Global Terrorism

Dataset :--- <https://drive.google.com/drive/folders/14hpoXhDQgP2x5gGAcYwunA6tMINPZEKG>

```
import pandas as pd
import plotly.express as px
import matplotlib.pyplot as plt
import seaborn as sns
import matplotlib as mpl
%matplotlib inline
```

Reading the Data and Analyzing

```
Terr_data = pd.read_csv(r'C:\Users\user\Desktop\Terrorism.csv',
encoding='latin')

C:\Users\user\AppData\Local\Temp\ipykernel_11420\1843720532.py:1:
DtypeWarning: Columns
(4,6,31,33,61,62,63,76,79,90,92,94,96,114,115,121) have mixed types.
Specify dtype option on import or set low_memory=False.
Terr_data = pd.read_csv(r'C:\Users\user\Desktop\Terrorism.csv',
encoding='latin')
```

Terr_data

	eventid	iyear	imonth	iday	approxdate	extended
resolution \						
0	1970000000001	1970	7	2	NaN	0
NaN						
1	1970000000002	1970	0	0	NaN	0
NaN						
2	1970010000001	1970	1	0	NaN	0
NaN						
3	1970010000002	1970	1	0	NaN	0
NaN						
4	1970010000003	1970	1	0	NaN	0
NaN						
...
...						
181686	201712310022	2017	12	31	NaN	0
NaN						
181687	201712310029	2017	12	31	NaN	0
NaN						
181688	201712310030	2017	12	31	NaN	0
NaN						
181689	201712310031	2017	12	31	NaN	0

NaN						
181690	201712310032	2017	12	31	NaN	0
NaN						

	country	country_txt	region	...	addnotes	\
0	58	Dominican Republic	2	...	NaN	
1	130	Mexico	1	...	NaN	
2	160	Philippines	5	...	NaN	
3	78	Greece	8	...	NaN	
4	101	Japan	4	...	NaN	
...	
181686	182	Somalia	11	...	NaN	
181687	200	Syria	10	...	NaN	
181688	160	Philippines	5	...	NaN	
181689	92	India	6	...	NaN	
181690	160	Philippines	5	...	NaN	

	scitel	\
0	NaN	
1	NaN	
2	NaN	
3	NaN	
4	NaN	
...	...	
181686	"Somalia: Al-Shabaab Militants Attack Army Che...	
181687	"Putin's 'victory' in Syria has turned into a ...	
181688	"Maguindanao clashes trap tribe members," Phil...	
181689	"Trader escapes grenade attack in Imphal," Bus...	
181690	"Security tightened in Cotabato following IED ...	

	scite2	\
0	NaN	
1	NaN	
2	NaN	
3	NaN	
4	NaN	
...	...	
181686	"Highlights: Somalia Daily Media Highlights 2 ...	
181687	"Two Russian soldiers killed at Hmeymim base i...	
181688	NaN	
181689	NaN	
181690	"Security tightened in Cotabato City," Manila ...	

	scite3	\
0	NaN	
1	NaN	
2	NaN	
3	NaN	
4	NaN	
...	...	

```

181686 "Highlights: Somalia Daily Media Highlights 1 ...
181687 "Two Russian servicemen killed in Syria mortar...
181688
181689
181690

```

	dbsource	INT_LOG	INT_IDEO	INT_MISC	INT_ANY
related					
0	PGIS	0	0	0	0
NaN					
1	PGIS	0	1	1	1
NaN					
2	PGIS	-9	-9	1	1
NaN					
3	PGIS	-9	-9	1	1
NaN					
4	PGIS	-9	-9	1	1
NaN					
...
...					
181686	START Primary Collection	0	0	0	0
NaN					
181687	START Primary Collection	-9	-9	1	1
NaN					
181688	START Primary Collection	0	0	0	0
NaN					
181689	START Primary Collection	-9	-9	0	-9
NaN					
181690	START Primary Collection	-9	-9	0	-9
NaN					

```
[181691 rows x 135 columns]
```

```

# getting the first five rows values
Terr_data.head()

```

	eventid	iyear	imonth	iday	approxdate	extended	resolution
country \							
0	1970000000001	1970	7	2	NaN	0	NaN
58							
1	1970000000002	1970	0	0	NaN	0	NaN
130							
2	1970010000001	1970	1	0	NaN	0	NaN
160							
3	1970010000002	1970	1	0	NaN	0	NaN
78							
4	1970010000003	1970	1	0	NaN	0	NaN
101							

country_txt	region	...	addnotes	scitel	scite2	scite3
-------------	--------	-----	----------	--------	--------	--------

```

dbsource \
0 Dominican Republic      2 ...      NaN      NaN      NaN      NaN
PGIS
1 Mexico                  1 ...      NaN      NaN      NaN      NaN
PGIS
2 Philippines             5 ...      NaN      NaN      NaN      NaN
PGIS
3 Greece                  8 ...      NaN      NaN      NaN      NaN
PGIS
4 Japan                   4 ...      NaN      NaN      NaN      NaN
PGIS

```

```

      INT_LOG  INT_IDEO INT_MISC INT_ANY  related
0           0         0         0         0      NaN
1           0         1         1         1      NaN
2          -9        -9         1         1      NaN
3          -9        -9         1         1      NaN
4          -9        -9         1         1      NaN

```

[5 rows x 135 columns]

```

# getting the last five rows values
Terr_data.tail()

```

```

      eventid  iyear  imonth  iday approxdate  extended
resolution \
181686 201712310022  2017     12    31         NaN         0
NaN
181687 201712310029  2017     12    31         NaN         0
NaN
181688 201712310030  2017     12    31         NaN         0
NaN
181689 201712310031  2017     12    31         NaN         0
NaN
181690 201712310032  2017     12    31         NaN         0
NaN

```

```

      country  country_txt  region  ... addnotes \
181686     182     Somalia    11  ...      NaN
181687     200      Syria    10  ...      NaN
181688     160  Philippines     5  ...      NaN
181689      92      India     6  ...      NaN
181690     160  Philippines     5  ...      NaN

```

```

scitel \
181686 "Somalia: Al-Shabaab Militants Attack Army Che...
181687 "Putin's 'victory' in Syria has turned into a ...
181688 "Maguindanao clashes trap tribe members," Phil...
181689 "Trader escapes grenade attack in Imphal," Bus...
181690 "Security tightened in Cotabato following IED ..."

```

```

scite2 \
181686 "Highlights: Somalia Daily Media Highlights 2 ..."
181687 "Two Russian soldiers killed at Hmeymim base in ..."
181688 NaN
181689 NaN
181690 "Security tightened in Cotabato City," Manila ...

scite3 \
181686 "Highlights: Somalia Daily Media Highlights 1 ..."
181687 "Two Russian servicemen killed in Syria mortar ..."
181688 NaN
181689 NaN
181690 NaN

related
dbsource INT_LOG INT_IDEO INT_MISC INT_ANY
181686 START Primary Collection 0 0 0 0
NaN
181687 START Primary Collection -9 -9 1 1
NaN
181688 START Primary Collection 0 0 0 0
NaN
181689 START Primary Collection -9 -9 0 -9
NaN
181690 START Primary Collection -9 -9 0 -9
NaN

[5 rows x 135 columns]

```

Understanding the dataset

```

Terr_data.shape
(181691, 135)

Terr_data.columns
Index(['eventid', 'iyear', 'imonth', 'iday', 'approxdate', 'extended',
      'resolution', 'country', 'country_txt', 'region',
      ...,
      'addnotes', 'scite1', 'scite2', 'scite3', 'dbsource',
      'INT_LOG',
      'INT_IDEO', 'INT_MISC', 'INT_ANY', 'related'],
      dtype='object', length=135)

Terr_data.describe()

```

	eventid	iyear	imonth	iday	\
count	1.816910e+05	181691.000000	181691.000000	181691.000000	
mean	2.002705e+11	2002.638997	6.467277	15.505644	
std	1.325957e+09	13.259430	3.388303	8.814045	
min	1.970000e+11	1970.000000	0.000000	0.000000	
25%	1.991021e+11	1991.000000	4.000000	8.000000	
50%	2.009022e+11	2009.000000	6.000000	15.000000	
75%	2.014081e+11	2014.000000	9.000000	23.000000	
max	2.017123e+11	2017.000000	12.000000	31.000000	

	extended	country	region	latitude	\
count	181691.000000	181691.000000	181691.000000	177135.000000	
mean	0.045346	131.968501	7.160938	23.498343	
std	0.208063	112.414535	2.933408	18.569242	
min	0.000000	4.000000	1.000000	-53.154613	
25%	0.000000	78.000000	5.000000	11.510046	
50%	0.000000	98.000000	6.000000	31.467463	
75%	0.000000	160.000000	10.000000	34.685087	
max	1.000000	1004.000000	12.000000	74.633553	

	longitude	specificity	...	ransomamt	ransomamtus	\
count	1.771340e+05	181685.000000	...	1.350000e+03	5.630000e+02	
mean	-4.586957e+02	1.451452	...	3.172530e+06	5.784865e+05	
std	2.047790e+05	0.995430	...	3.021157e+07	7.077924e+06	
min	-8.618590e+07	1.000000	...	-9.900000e+01	-9.900000e+01	
25%	4.545640e+00	1.000000	...	0.000000e+00	0.000000e+00	
50%	4.324651e+01	1.000000	...	1.500000e+04	0.000000e+00	
75%	6.871033e+01	1.000000	...	4.000000e+05	0.000000e+00	
max	1.793667e+02	5.000000	...	1.000000e+09	1.320000e+08	

	ransompaid	ransompaidus	hostkidoutcome	nreleased	\
count	7.740000e+02	552.000000	10991.000000	10400.000000	
mean	7.179437e+05	240.378623	4.629242	-29.018269	
std	1.014392e+07	2940.967293	2.035360	65.720119	
min	-9.900000e+01	-99.000000	1.000000	-99.000000	
25%	-9.900000e+01	0.000000	2.000000	-99.000000	
50%	0.000000e+00	0.000000	4.000000	0.000000	
75%	1.273412e+03	0.000000	7.000000	1.000000	
max	2.750000e+08	48000.000000	7.000000	2769.000000	

	INT_LOG	INT_IDEO	INT_MISC	INT_ANY	
count	181691.000000	181691.000000	181691.000000	181691.000000	
mean	-4.543731	-4.464398	0.090010	-3.945952	
std	4.543547	4.637152	0.568457	4.691325	
min	-9.000000	-9.000000	-9.000000	-9.000000	
25%	-9.000000	-9.000000	0.000000	-9.000000	
50%	-9.000000	-9.000000	0.000000	0.000000	
75%	0.000000	0.000000	0.000000	0.000000	
max	1.000000	1.000000	1.000000	1.000000	

```
[8 rows x 77 columns]
```

As we all can see that the data has lots of Null values so lets find the percentage of null values in our dataset.

```
missing_values =  
(((Terr_data.isnull().sum()).sum())/Terr_data.size)*100  
missing_values  
56.481718962414206
```

So we found the dataset has 50% more than null values so we have to clean the dataset first.

Data Cleaning

First we rename the columns name as per mine utility

```
Terr_data.rename(columns={'iyear': 'Year', 'imonth': 'Month', 'iday': 'Day',  
, 'country_txt': 'Country', 'provstate': 'State',  
  
'region_txt': 'region', 'attacktype1_txt': 'attack_type', 'target1': 'Target',  
'nkill': 'Killed',  
                        'nwound': 'wounded',  
'gname': 'Group', 'targettype1_txt': 'Target_type', 'weaptype1_txt': 'Weapon_type',  
  
'latitude': 'Latitude', 'longitude': 'Longitude', 'city': 'city'},  
inplace=True)  
Terr_data.head()
```

	eventid	Year	Month	Day	approxdate	extended	resolution
country \							
0	1970000000001	1970	7	2	NaN	0	NaN
58							
1	1970000000002	1970	0	0	NaN	0	NaN
130							
2	1970010000001	1970	1	0	NaN	0	NaN
160							
3	1970010000002	1970	1	0	NaN	0	NaN
78							
4	1970010000003	1970	1	0	NaN	0	NaN
101							

	Country	region	...	addnotes	scite1	scite2	scite3
dbsource \							
0	Dominican Republic	2	...	NaN	NaN	NaN	NaN
PGIS							

1	Mexico	1	...	NaN	NaN	NaN	NaN
PGIS							
2	Philippines	5	...	NaN	NaN	NaN	NaN
PGIS							
3	Greece	8	...	NaN	NaN	NaN	NaN
PGIS							
4	Japan	4	...	NaN	NaN	NaN	NaN
PGIS							

	INT_LOG	INT_IDEO	INT_MISC	INT_ANY	related
0	0	0	0	0	NaN
1	0	1	1	1	NaN
2	-9	-9	1	1	NaN
3	-9	-9	1	1	NaN
4	-9	-9	1	1	NaN

[5 rows x 135 columns]

```
Terr_data =
Terr_data[['Year', 'Month', 'Day', 'Country', 'State', 'region', 'city', 'Latitude', 'Longitude', 'attack_type', 'Group',
'Killed', 'wounded', 'Target', 'Target_type', 'Weapon_type']]
Terr_data.head(10)
```

	Year	Month	Day	Country	State	region	\
0	1970	7	2	Dominican Republic	NaN	2	
1	1970	0	0	Mexico	Federal	1	
2	1970	1	0	Philippines	Tarlac	5	
3	1970	1	0	Greece	Attica	8	
4	1970	1	0	Japan	Fukouka	4	
5	1970	1	1	United States	Illinois	1	
6	1970	1	2	Uruguay	Montevideo	3	
7	1970	1	2	United States	California	1	
8	1970	1	2	United States	Wisconsin	1	
9	1970	1	3	United States	Wisconsin	1	

	region	city	Latitude	Longitude \
0	Central America & Caribbean	Santo Domingo	18.456792	-69.951164
1	North America	Mexico city	19.371887	-99.086624
2	Southeast Asia	Unknown	15.478598	120.599741
3	Western Europe	Athens	37.997490	23.762728
4	East Asia	Fukouka	33.580412	130.396361
5	North America	Cairo	37.005105	-89.176269

6	South America	Montevideo	-34.891151	-56.187214
7	North America	Oakland	37.791927	-122.225906
8	North America	Madison	43.076592	-89.412488
9	North America	Madison	43.072950	-89.386694
attack_type				Group
Killed \				
0	Assassination			MANO-D
1.0				
1	Hostage Taking (Kidnapping)	23rd of September	Communist League	
0.0				
2	Assassination			Unknown
1.0				
3	Bombing/Explosion			Unknown
NaN				
4	Facility/Infrastructure Attack			Unknown
NaN				
5	Armed Assault			Black Nationalists
0.0				
6	Assassination			Tupamaros (Uruguay)
0.0				
7	Bombing/Explosion			Unknown
0.0				
8	Facility/Infrastructure Attack			New Year's Gang
0.0				
9	Facility/Infrastructure Attack			New Year's Gang
0.0				
wounded				Target \
0	0.0			Julio Guzman
1	0.0	Nadine Chaval, daughter		
2	0.0	Employee		
3	NaN	U.S. Embassy		
4	NaN	U.S. Consulate		
5	0.0	Cairo Police Headquarters		
6	0.0	Juan Maria de Lucah/Chief of Directorate of in...		
7	0.0	Edes Substation		
8	0.0	R.O.T.C. offices at University of Wisconsin, M...		
9	0.0	Selective Service Headquarters in Madison Wisc...		
		Target_type	Weapon_type	
0	Private Citizens & Property			Unknown
1	Government (Diplomatic)			Unknown
2	Journalists & Media			Unknown
3	Government (Diplomatic)	Explosives		
4	Government (Diplomatic)	Incendiary		

```

5           Police    Firearms
6           Police    Firearms
7      Utilities    Explosives
8      Military    Incendiary
9  Government (General)  Incendiary

```

getting unique values in columns

```

for i in Terr_data.columns:
    print(i,Terr_data[i].nunique())

```

```

Year 47
Month 13
Day 32
Country 205
State 2855
region region    12
region    12
dtype: int64
region region    12
region    12
dtype: int64
city 36674
Latitude 48322
Longitude 48039
attack_type 9
Group 3537
Killed 205
wounded 238
Target 86006
Target_type 22
Weapon_type 12

```

getting information about dataset

```
Terr_data.info()
```

```

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 181691 entries, 0 to 181690
Data columns (total 17 columns):
#   Column      Non-Null Count  Dtype
---  -
0   Year        181691 non-null  int64
1   Month       181691 non-null  int64
2   Day         181691 non-null  int64
3   Country     181691 non-null  object
4   State       181270 non-null  object
5   region      181691 non-null  int64
6   region      181691 non-null  object
7   city        181257 non-null  object
8   Latitude    177135 non-null  float64
9   Longitude   177134 non-null  float64

```

```

10  attack_type  181691 non-null  object
11  Group       181691 non-null  object
12  Killed      171378 non-null  float64
13  wounded     165380 non-null  float64
14  Target      181055 non-null  object
15  Target_type 181691 non-null  object
16  Weapon_type 181691 non-null  object
dtypes: float64(4), int64(4), object(9)
memory usage: 23.6+ MB

```

As we can see that "Killed" and "Wounded" have lots of Missing values, so we have to fill the null values.

```

Terr_data['Killed'] = Terr_data['Killed'].fillna(0).astype(int)
Terr_data['wounded'] = Terr_data['wounded'].fillna(0).astype(int)

```

```

C:\Users\user\AppData\Local\Temp\ipykernel_11420\1082661408.py:1:
SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

```

See the caveats in the documentation:
https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy

```

Terr_data['Killed'] = Terr_data['Killed'].fillna(0).astype(int)
C:\Users\user\AppData\Local\Temp\ipykernel_11420\1082661408.py:2:
SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

```

See the caveats in the documentation:
https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy

```

Terr_data['wounded'] = Terr_data['wounded'].fillna(0).astype(int)

```

```

Terr_data.info()

```

```

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 181691 entries, 0 to 181690
Data columns (total 17 columns):
#   Column      Non-Null Count  Dtype
---  -
0   Year        181691 non-null  int64
1   Month       181691 non-null  int64
2   Day         181691 non-null  int64
3   Country     181691 non-null  object
4   State       181270 non-null  object
5   region      181691 non-null  int64
6   region      181691 non-null  object
7   city        181257 non-null  object

```

```

8   Latitude      177135 non-null float64
9   Longitude     177134 non-null float64
10  attack_type   181691 non-null object
11  Group         181691 non-null object
12  Killed        181691 non-null int32
13  wounded       181691 non-null int32
14  Target        181055 non-null object
15  Target_type   181691 non-null object
16  Weapon_type   181691 non-null object
dtypes: float64(2), int32(2), int64(4), object(9)
memory usage: 22.2+ MB

```

Now data is Cleaned

Getting the types of Attack

```

Terr_data['attack_type'].value_counts()

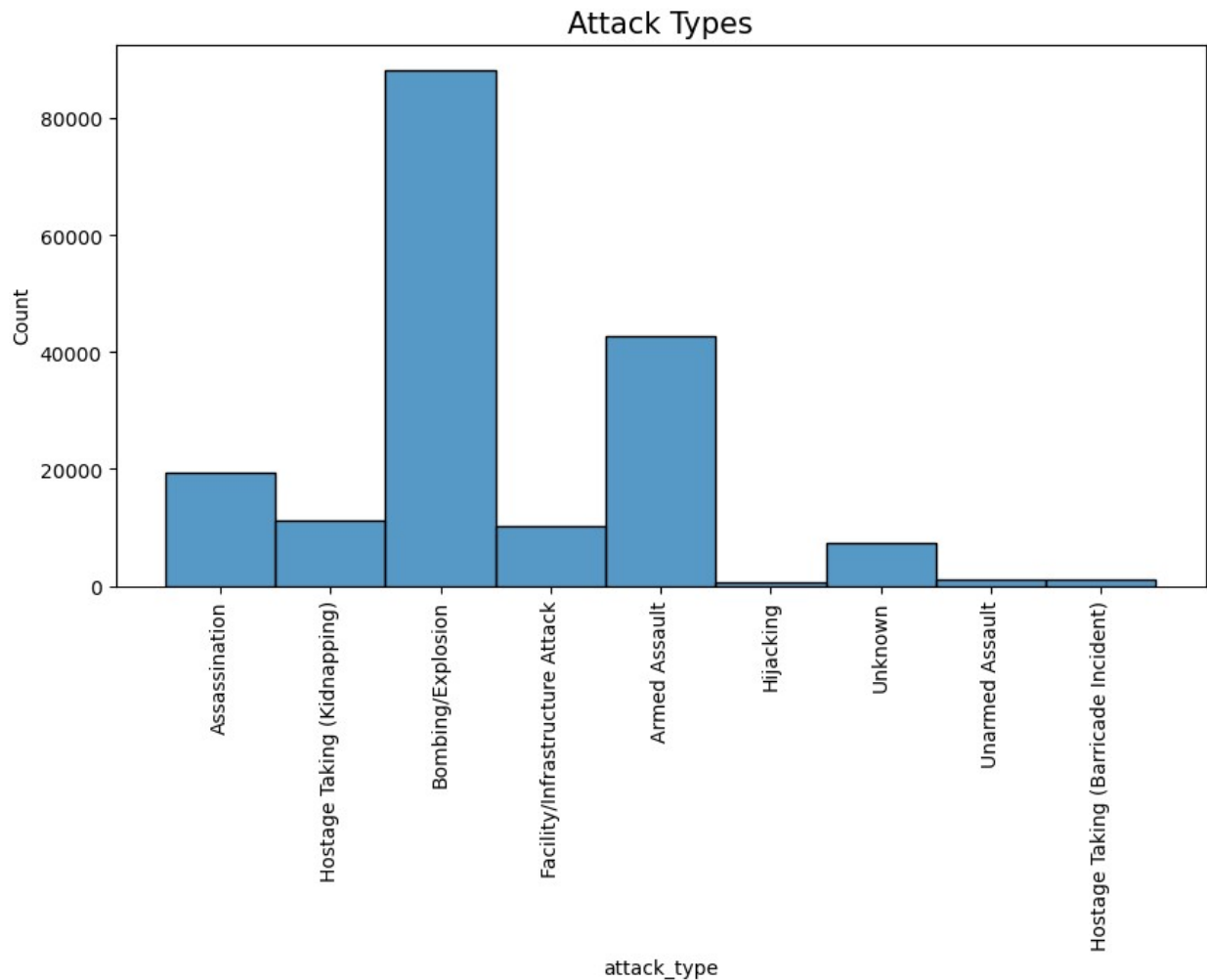
Bombing/Explosion      88255
Armed Assault          42669
Assassination          19312
Hostage Taking (Kidnapping) 11158
Facility/Infrastructure Attack 10356
Unknown               7276
Unarmed Assault        1015
Hostage Taking (Barricade Incident) 991
Hijacking              659
Name: attack_type, dtype: int64

(Terr_data['attack_type'].value_counts()/Terr_data.shape[0])*100

Bombing/Explosion      48.574228
Armed Assault          23.484377
Assassination          10.629035
Hostage Taking (Kidnapping) 6.141196
Facility/Infrastructure Attack 5.699787
Unknown               4.004601
Unarmed Assault        0.558641
Hostage Taking (Barricade Incident) 0.545432
Hijacking              0.362704
Name: attack_type, dtype: float64

# showing Histogram for understanding the attack type
plt.figure(figsize=(10,5))
sns.histplot(Terr_data['attack_type'], palette='flare')
plt.title("Attack Types", fontsize = 15)
plt.xticks(rotation=90)
plt.show()

```



Conclusion of the graph: 1) 50% of the attack is happend by Bombing/Explosion.

2) 10-20% of the attack is happend by Armed Assault and Assassination.

Weapons used by the Terrorist

```
Terr_data['Weapon_type'].value_counts()
```

Explosives

92426

Firearms

58524

Unknown

15157

Incendiary

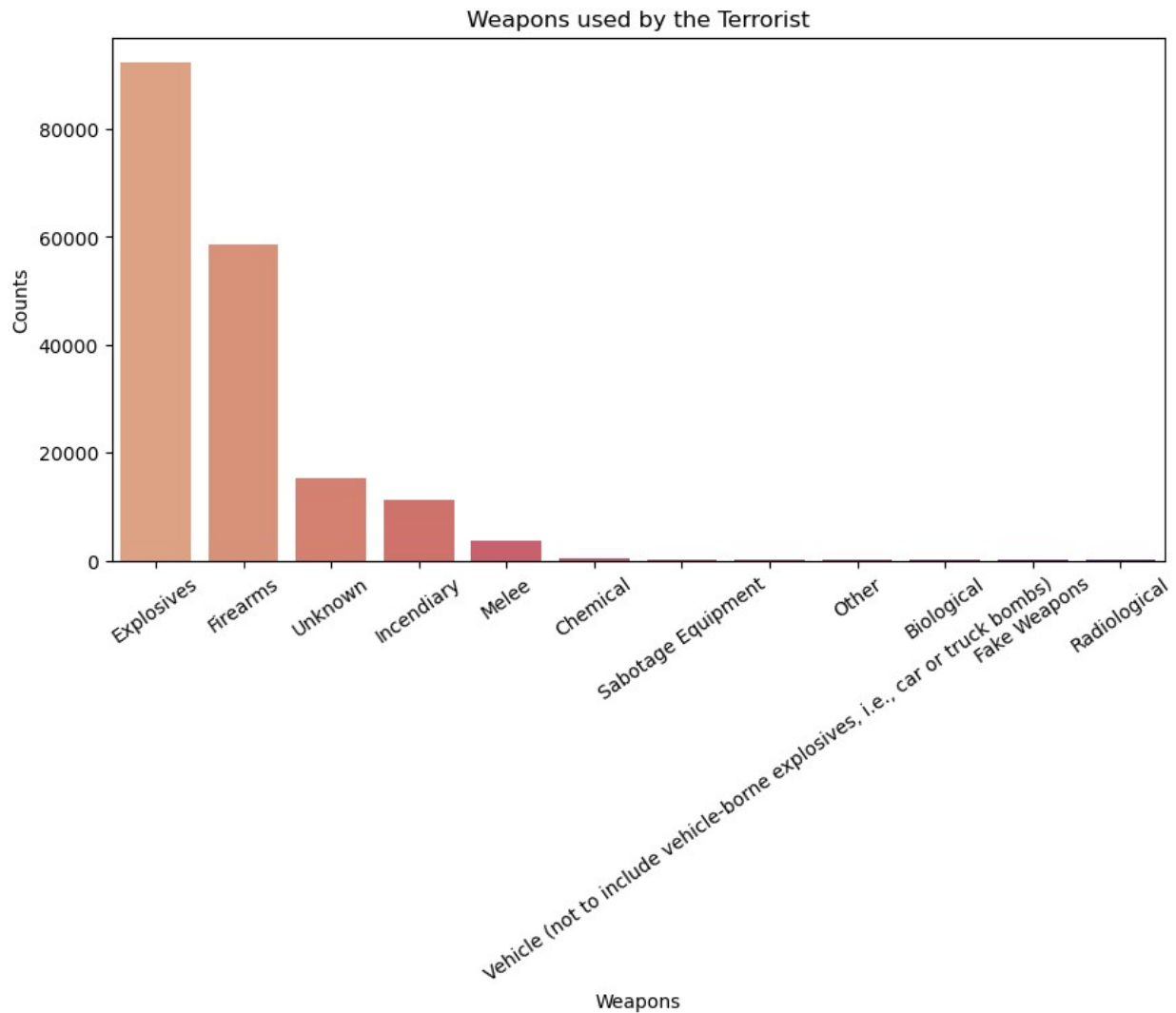
11135

Melee

```
3655
Chemical
321
Sabotage Equipment
141
Vehicle (not to include vehicle-borne explosives, i.e., car or truck
bombs)      136
Other
114
Biological
35
Fake Weapons
33
Radiological
14
Name: Weapon_type, dtype: int64
```

```
# showing the about the used weapons by the terrorist
plt.figure(figsize=(10,5))
sns.barplot(Terr_data['Weapon_type'].value_counts().index,
Terr_data['Weapon_type'].value_counts().values, palette = 'flare')
plt.title('Weapons used by the Terrorist')
plt.xlabel('Weapons')
plt.ylabel('Counts')
plt.xticks(rotation=35)
plt.show()
```

```
C:\Users\user\anaconda3\lib\site-packages\seaborn\_decorators.py:36:
FutureWarning: Pass the following variables as keyword args: x, y.
From version 0.12, the only valid positional argument will be `data`,
and passing other arguments without an explicit keyword will result in
an error or misinterpretation.
  warnings.warn(
```



Top 25 Country which suffer most from the Terrorism.

```
Terr_data.Country.value_counts()[:25]
```

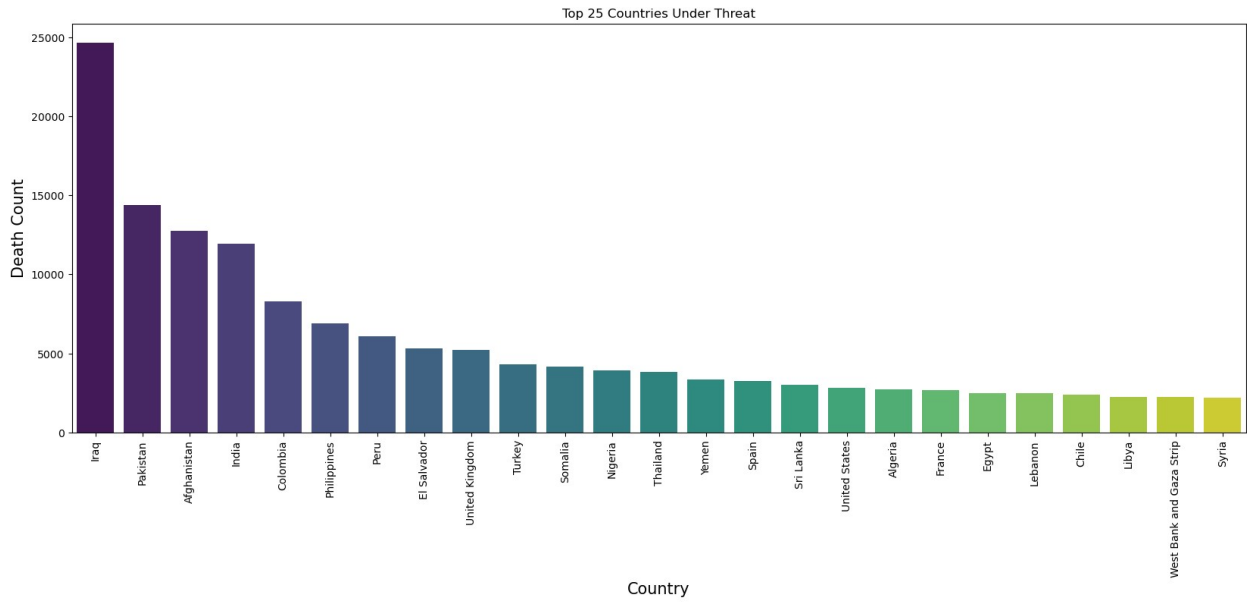
Iraq	24636
Pakistan	14368
Afghanistan	12731
India	11960
Colombia	8306
Philippines	6908
Peru	6096
El Salvador	5320
United Kingdom	5235
Turkey	4292

Somalia	4142
Nigeria	3907
Thailand	3849
Yemen	3347
Spain	3249
Sri Lanka	3022
United States	2836
Algeria	2743
France	2693
Egypt	2479
Lebanon	2478
Chile	2365
Libya	2249
West Bank and Gaza Strip	2227
Syria	2201

Name: Country, dtype: int64

```
plt.figure(figsize = (20,7))
sns.barplot(Terr_data['Country'].value_counts()[:25].index,
Terr_data['Country'].value_counts()[:25].values, palette = 'viridis')
plt.xlabel('Country', fontsize = 15)
plt.ylabel('Death Count', fontsize = 15)
plt.title('Top 25 Countries Under Threat')
plt.xticks(rotation = 90)
plt.show()
```

C:\Users\user\anaconda3\lib\site-packages\seaborn_decorators.py:36:
FutureWarning: Pass the following variables as keyword args: x, y.
From version 0.12, the only valid positional argument will be `data`,
and passing other arguments without an explicit keyword will result in
an error or misinterpretation.
warnings.warn(



According to the graph Iraq has most death with the no. of 24636 death

Top 10 Target Type which are mostly affected by Terrorism

```
Terr_data.Target_type.value_counts()[:10]
```

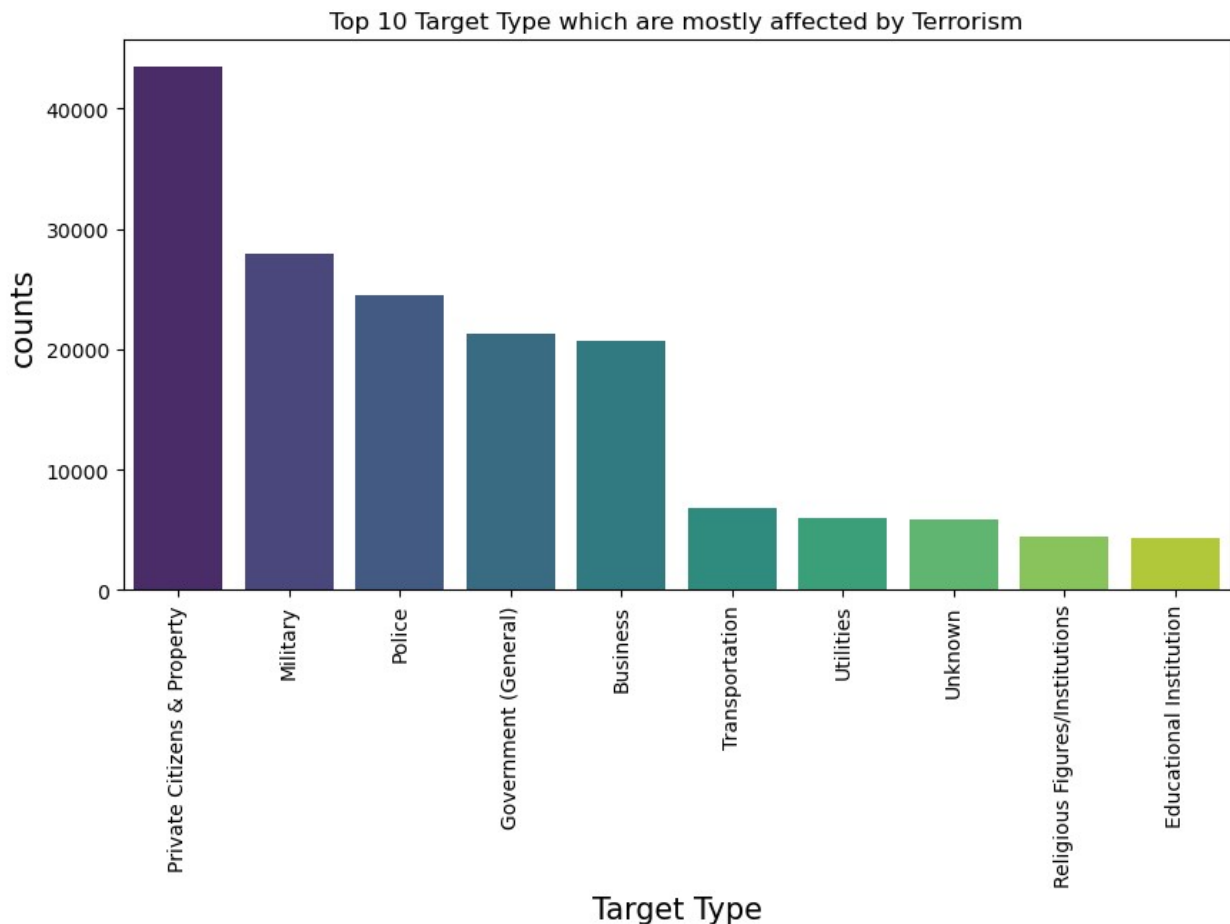
Private Citizens & Property	43511
Military	27984
Police	24506
Government (General)	21283
Business	20669
Transportation	6799
Utilities	6023
Unknown	5898
Religious Figures/Institutions	4440
Educational Institution	4322

Name: Target_type, dtype: int64

```
# showing in graph the data
```

```
plt.figure(figsize=(10,5))
sns.barplot(Terr_data['Target_type'].value_counts()
[:10].index,Terr_data['Target_type'].value_counts()[:10].values,
            palette='viridis')
plt.title('Top 10 Target Type which are mostly affected by Terrorism')
plt.xlabel('Target Type', fontsize = 15)
plt.ylabel('counts', fontsize = 15)
plt.xticks(rotation=90)
plt.show()
```

```
C:\Users\user\anaconda3\lib\site-packages\seaborn\_decorators.py:36:
FutureWarning: Pass the following variables as keyword args: x, y.
From version 0.12, the only valid positional argument will be `data`,
and passing other arguments without an explicit keyword will result in
an error or misinterpretation.
warnings.warn(
```



Explanation: According to the bar graph 1) The most attacked Target is Private Citizens & Property about 20%.

2) 10-20% attacked targets are the Military, Police, Government, Business.

Top 25 most attacked State

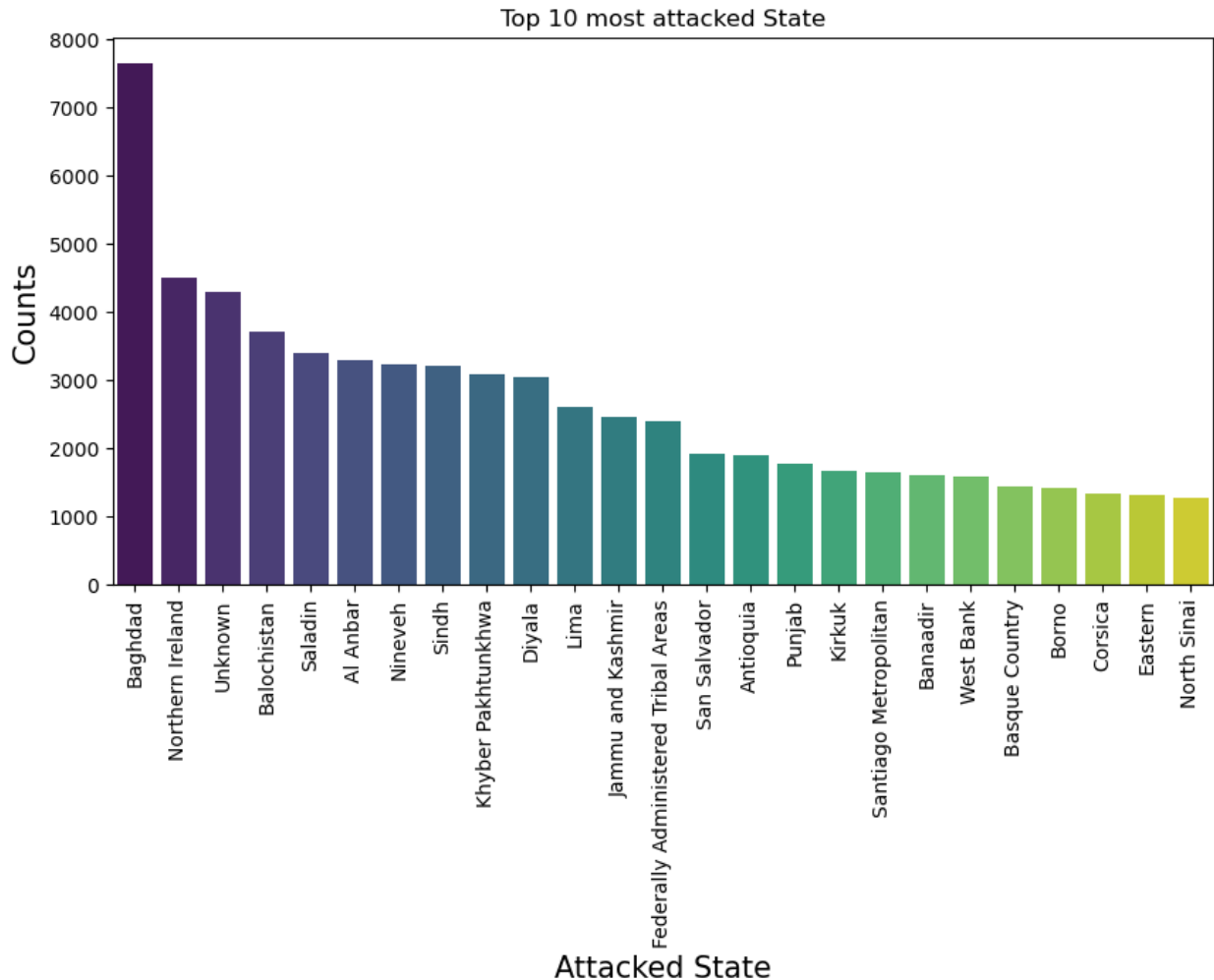
```
Terr_data.State.value_counts()[ :25]
```

Baghdad	7645
Northern Ireland	4498
Unknown	4290
Balochistan	3710
Saladin	3411
Al Anbar	3299
Nineveh	3241
Sindh	3206
Khyber Pakhtunkhwa	3084
Diyala	3041
Lima	2615
Jammu and Kashmir	2454
Federally Administered Tribal Areas	2392
San Salvador	1923
Antioquia	1891
Punjab	1778
Kirkuk	1669
Santiago Metropolitan	1639
Banaadir	1613
West Bank	1584
Basque Country	1446
Borno	1423
Corsica	1345
Eastern	1316
North Sinai	1277

Name: State, dtype: int64

```
plt.figure(figsize=(10,5))
sns.barplot(Terr_data.State.value_counts()
[:25].index,Terr_data.State.value_counts()[:25].values, palette =
'viridis')
plt.title('Top 10 most attacked State')
plt.xlabel('Attacked State', fontsize = 15)
plt.ylabel('Counts', fontsize = 15)
plt.xticks(rotation=90)
plt.show()
```

C:\Users\user\anaconda3\lib\site-packages\seaborn_decorators.py:36:
FutureWarning: Pass the following variables as keyword args: x, y.
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warnings.warn(



According to the graph the most attacked State is Baghdad with 7645 attack.

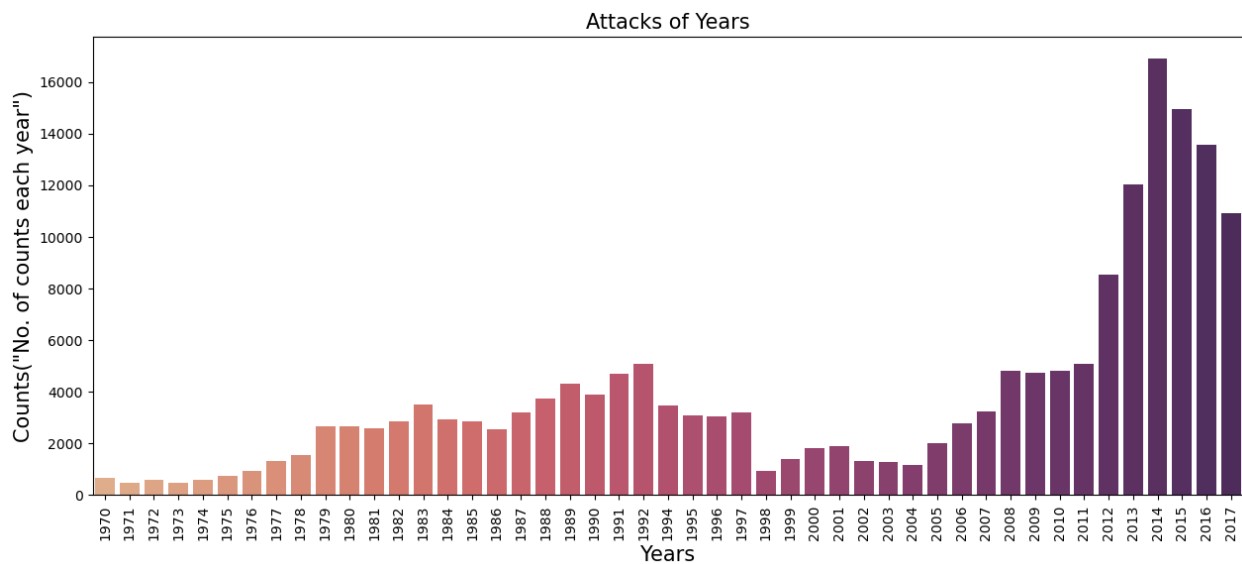
Attack in each Year

```
x_year = Terr_data['Year'].unique()
y_count_of_year =
Terr_data['Year'].value_counts(dropna=False).sort_index()
plt.figure(figsize=(15,6))
sns.barplot(x_year, y_count_of_year, palette = 'flare')
plt.title('Attacks of Years', fontsize = 15)
plt.xlabel('Years', fontsize = 15)
plt.ylabel('Counts("No. of counts each year")', fontsize = 15)
plt.xticks(rotation=90)
plt.show()
```

C:\Users\user\anaconda3\lib\site-packages\seaborn_decorators.py:36:
FutureWarning: Pass the following variables as keyword args: x, y.
From version 0.12, the only valid positional argument will be `data`,

and passing other arguments without an explicit keyword will result in an error or misinterpretation.

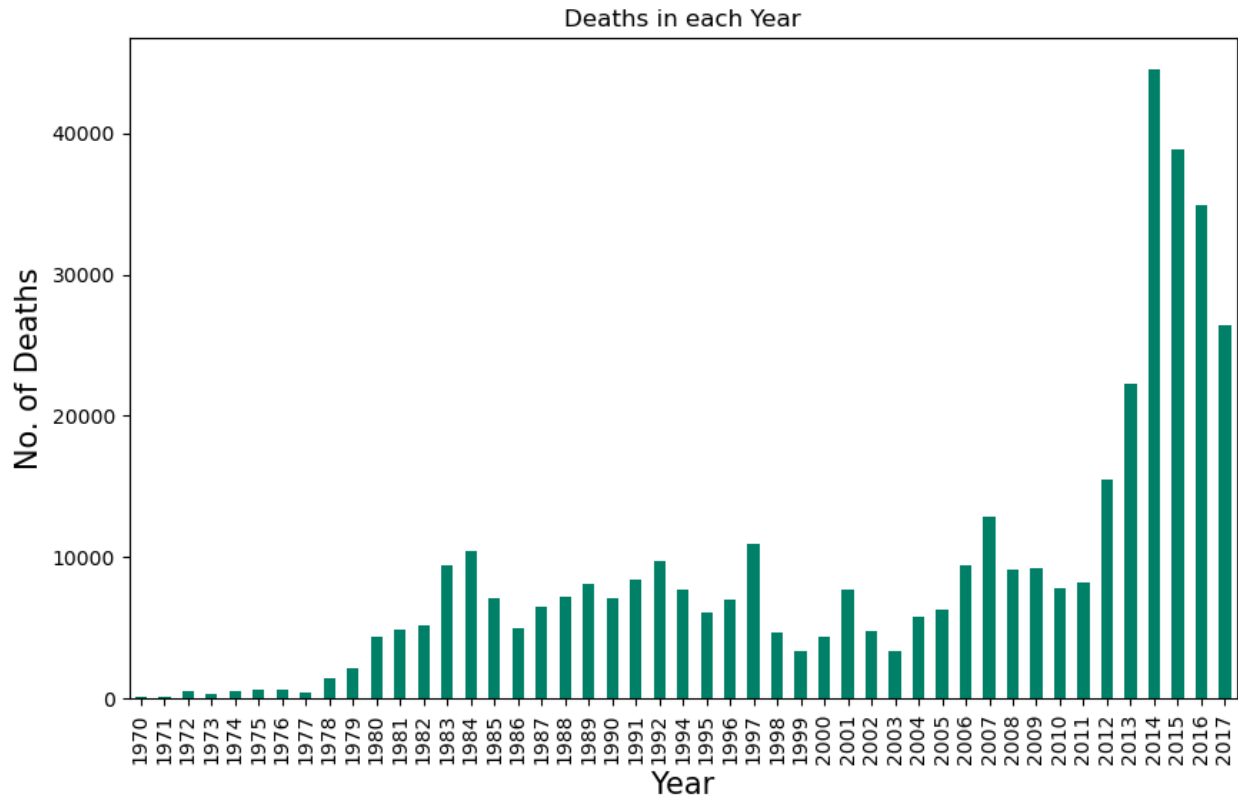
```
warnings.warn()
```



2014 appears to be the witness of the most terrorist attack.

Deaths in each Year

```
plt.figure(figsize=(10,6))
Terr_data.groupby(['Year'])['Killed'].sum().plot(kind='bar',
colormap='summer')
plt.title('Deaths in each Year')
plt.xlabel('Year', fontsize = 15)
plt.ylabel('No. of Deaths', fontsize = 15)
plt.xticks(rotation=90)
plt.show()
```



2014 appear most death in attack

Comparing the Wounded and Killed on the year 2014(As year 2014 has most deaths)

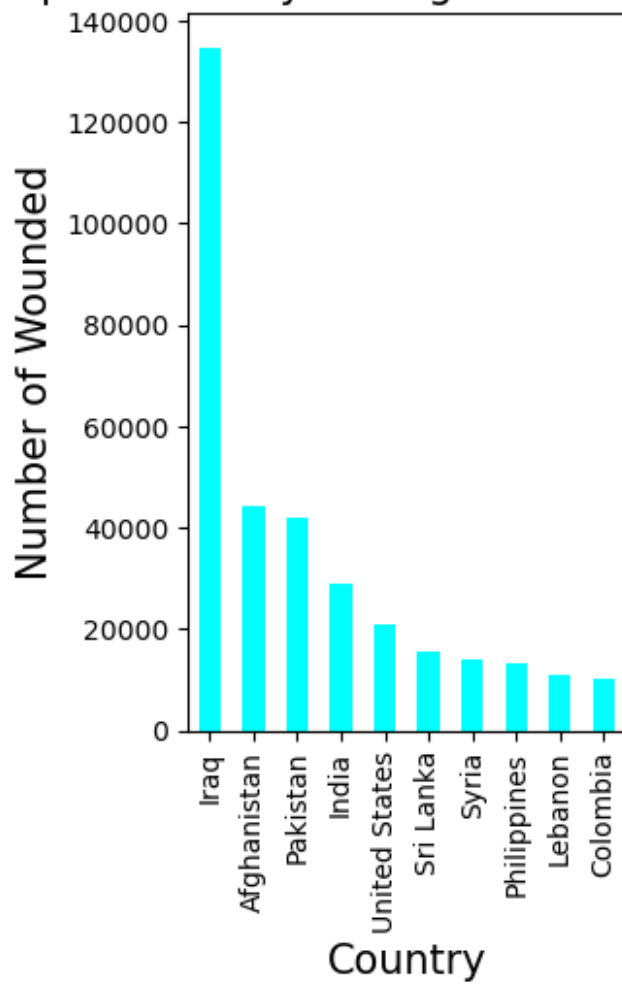
```
# creating the new data frame for the year 2014.
Terr_data_2014 = Terr_data[Terr_data.Year == 2014]

plt.subplot(1,2,1)
Terr_data.groupby(['Country'])
['wounded'].sum().sort_values(ascending=False).head(10).plot(kind =
'bar', colormap = 'cool')
plt.title('Top 10 Country having wounded in 2014', fontsize = 15)
plt.xlabel('Country', fontsize = 15)
plt.ylabel('Number of Wounded', fontsize = 15)
plt.xticks(rotation=90)
plt.show()

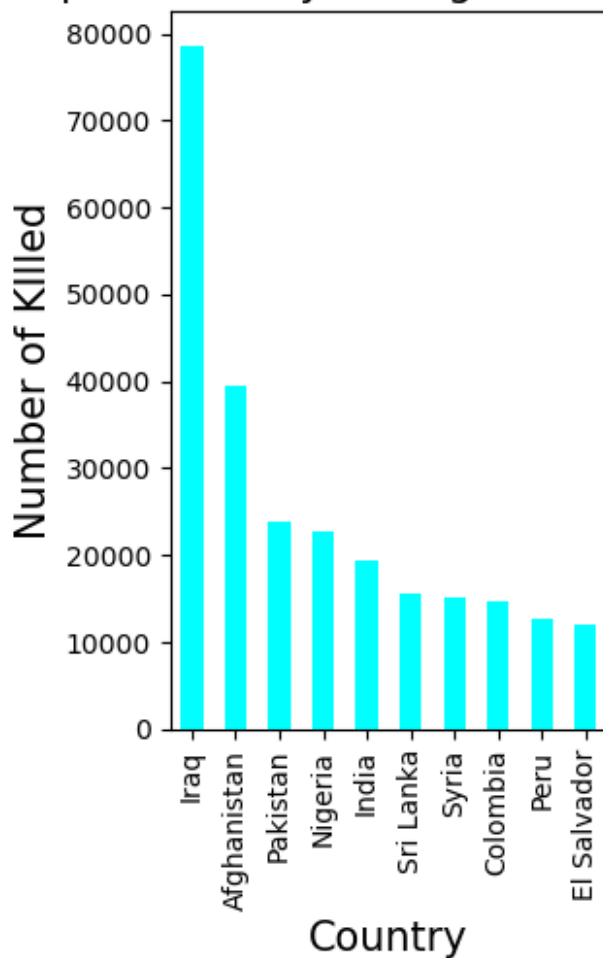
plt.subplot(1,2,2)
Terr_data.groupby(['Country'])
['Killed'].sum().sort_values(ascending=False).head(10).plot(kind =
'bar', colormap = 'cool')
plt.title('Top 10 Country having Killed in 2014', fontsize = 15)
```

```
plt.xlabel('Country', fontsize = 15)
plt.ylabel('Number of Killed', fontsize = 15)
plt.xticks(rotation=90)
plt.show()
```

Top 10 Country having wounded in 2014



Top 10 Country having Killed in 2014



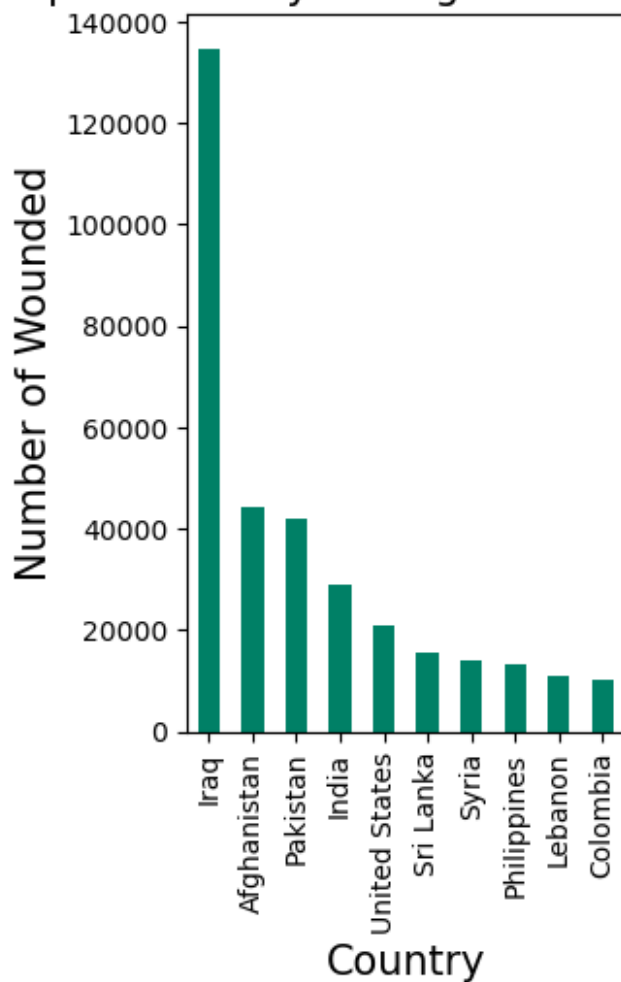
Comparing the Wounded and Killed on the same Country

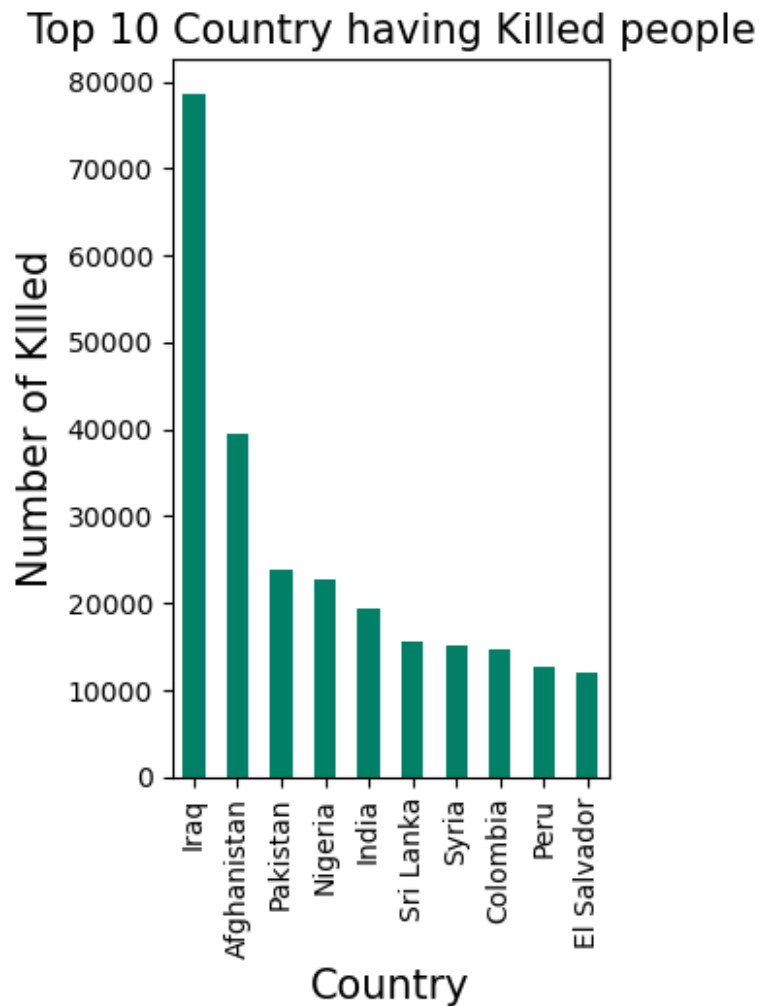
```
plt.subplot(1,2,1)
Terr_data.groupby(['Country'])
['wounded'].sum().sort_values(ascending=False).head(10).plot(kind =
'bar', colormap = 'summer')
plt.title('Top 10 Country having wounded people', fontsize = 15)
plt.xlabel('Country', fontsize = 15)
plt.ylabel('Number of Wounded', fontsize = 15)
plt.xticks(rotation=90)
plt.show()

plt.subplot(1,2,2)
Terr_data.groupby(['Country'])
['Killed'].sum().sort_values(ascending=False).head(10).plot(kind =
```

```
'bar', colormap = 'summer')
plt.title('Top 10 Country having Killed people', fontsize = 15)
plt.xlabel('Country', fontsize = 15)
plt.ylabel('Number of Killed', fontsize = 15)
plt.xticks(rotation=90)
plt.show()
```

Top 10 Country having wounded people



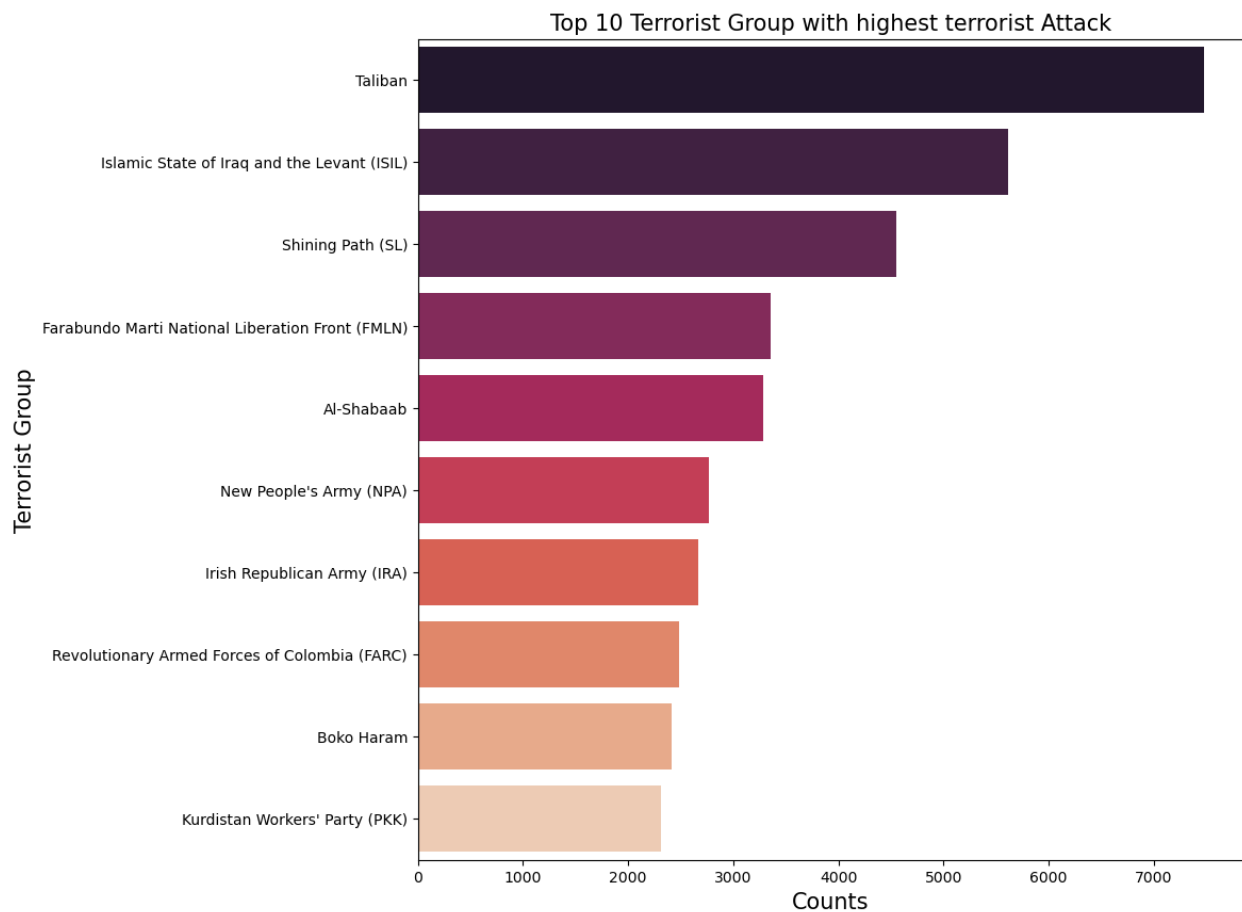


Top 10 Terrorist Group with highest terrorist Attack

```
plt.figure(figsize=(10,10))
sns.barplot(Terr_data['Group'].value_counts()
[1:11].values,Terr_data['Group'].value_counts()
[1:11].index,palette='rocket')
plt.title('Top 10 Terrorist Group with highest terrorist Attack',
fontsize = 15)
plt.xlabel('Counts', fontsize = 15)
plt.ylabel('Terrorist Group', fontsize = 15)
plt.show()
```

C:\Users\user\anaconda3\lib\site-packages\seaborn_decorators.py:36:
FutureWarning: Pass the following variables as keyword args: x, y.
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warnings.warn()



Since Most of the attack happened by Taliban Group.

So lets understand the Taliban Group deeply.

```
# Making new data frame for Taliban Group
Terr_data_taliban = Terr_data[Terr_data.Group == 'Taliban']
```

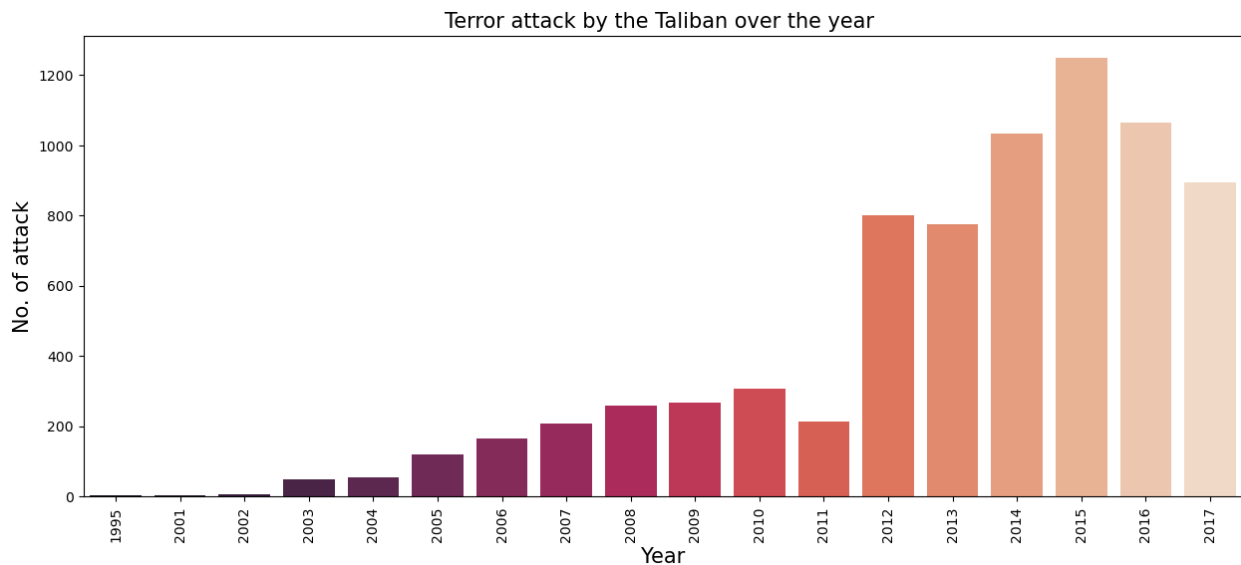
Terror attack over the year by the Taliban

```
plt.figure(figsize=(15,6))
sns.barplot(Terr_data_taliban['Year'].value_counts().index,Terr_data_taliban['Year'].value_counts().values,palette='rocket')
plt.title('Terror attack by the Taliban over the year ', fontsize = 15)
plt.xlabel('Year', fontsize = 15)
plt.ylabel('No. of attack', fontsize = 15)
```

```
plt.xticks(rotation=90)
plt.show()
```

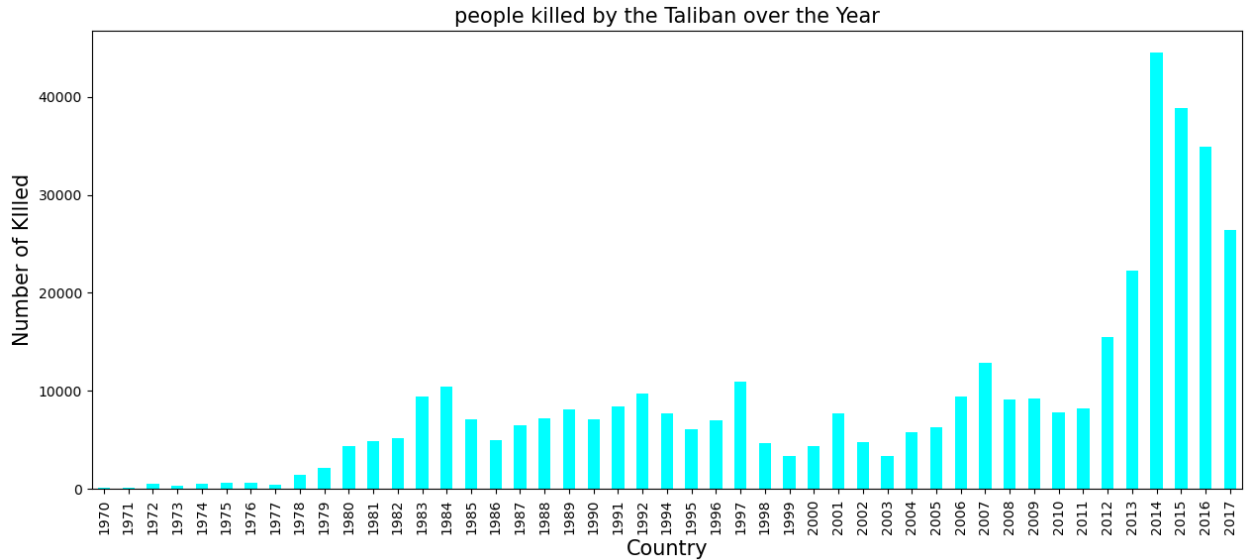
C:\Users\user\anaconda3\lib\site-packages\seaborn_decorators.py:36: FutureWarning: Pass the following variables as keyword args: x, y. From version 0.12, the only valid positional argument will be `data`, and passing other arguments without an explicit keyword will result in an error or misinterpretation.

```
warnings.warn(
```



Taliban became more active since 2012 and they are responsible for most of the terror attacks.

```
plt.figure(figsize=(15,6))
Terr_data.groupby(['Year'])['Killed'].sum().plot(kind = 'bar',
colormap = 'cool')
plt.title('people killed by the Taliban over the Year', fontsize = 15)
plt.xlabel('Country', fontsize = 15)
plt.ylabel('Number of Killed', fontsize = 15)
plt.xticks(rotation=90)
plt.show()
```



Conclusion:

- 1) 50% of the attack is happened by Bombing/Explosion and followed by Armed Assault and Assassination.
- 2) Iraq has most death with the no. of 24636 death and followed by Pakistan and Afganistan.
- 3) The most attacked target is Private Citizens & Property and followed by Military, police, Government, Business.
- 4) The most attacked State is Baghdad with 7645 attack.
- 5) 2014 seems to be witnessing the maximum number of terrorist attacks and Death. after that also 2015 2016 2107.
- 6) Taliban beacome more active since 2012 and they are responsible for most of the terror attacks and deaths.