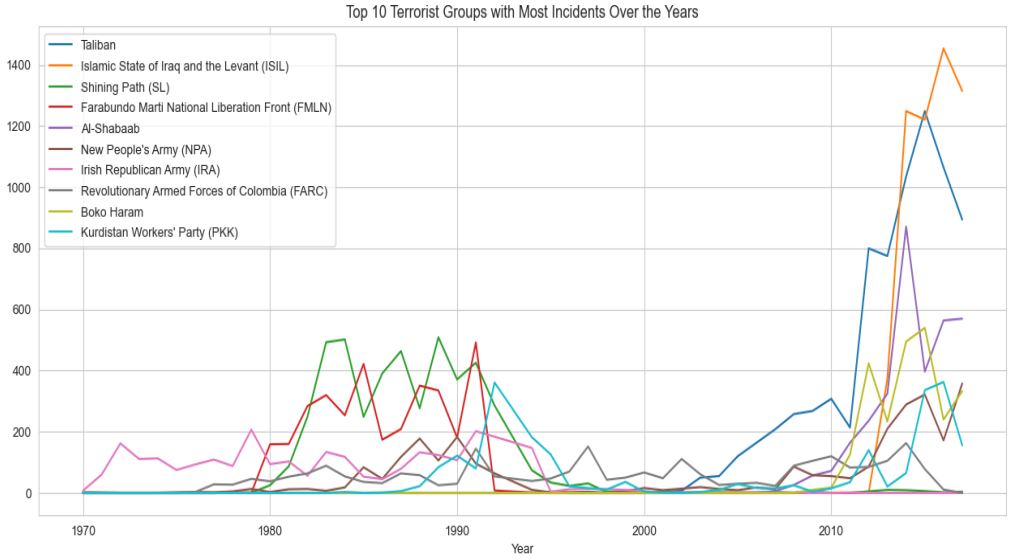
Goals:

- The goal of this visualization is to display the top 10 terrorist groups involved in most incidents from 1970 to 2017.
- To visualize the number of incidents for each of these groups over the years.



Insights:

- The graph shows the top 10 groups responsible for the most terrorist incidents with the Taliban being on topfollowed by ISIL, SL, and FMLN.
- We can see a significant variation in the trends for different groups. For example, SL and FMLN both were very active from 1980 to 1995 but now they are quite inactive.
- Some groups like ISIL and Al-Shabaab have emerged more recently and have had a rapid increase in the number of incidents in recent years.

Data abstraction:

- **Dataset Type:** Tabular data (CSV file)
    - **Item:** Terrorist incident
    - **Attributes:**
        - Year: Quantitative type. Used to pinpoint the time of the terrorist incidents on a timeline.
          (Additional attributes used in code: Month, Day)
        - Incident: Quantitative type. Represents the number of terrorist incidents.
          (Additional attributes used in code: Country, Region, City, AttackType, Killed, Wounded, Target, extended, Target_Type, Weapon_Type, Motive)
        - Group: Categorical type. Used to specify the name of the terrorist organization.

Task abstraction:

The multiple-line graph shows the trends in terrorist incidents over time for the top 10 groups. Users can view and compare the activity of different groups for a specific year. This helps in identifying group behavior and trend analysis.

- **Marks:** Lines – Represent terrorist groups.
- **Channels:**
  - Position on the vertical axis – represents the incident count.
  - Position on the horizontal axis – represents time.
  - Colour – Represents different terrorist groups.
- **Users:** Analysts, policy-makers, researchers.
- **Actions:**
  - High-Level – Discover, Derive
  - Mid-Level – Explore, Locate
  - Low-Level – Identify, Compare
- **Targets:** Trends – To understand the activity of the top 10 groups over the years.

Additional data source:

- The multiple-line graph was created in python3 using the Seaborn library.
- The dataset used is called “Global Terrorism Database”, available as a CSV file at kaggle.com Link: https://www.kaggle.com/datasets/START-UMD/gtd/data