

EGIM08 - Coursework 1

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1 Goal

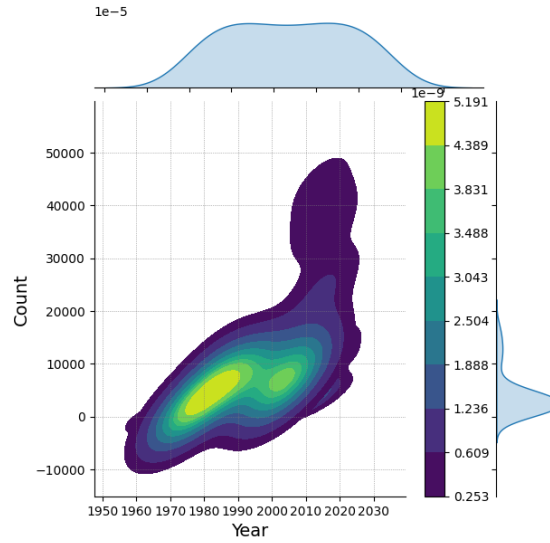


Figure 1: Illustration of Highest death toll faced by Middle Eastern countries

This visualization aims to show how the Terrorism Density, a measure of the frequency and fatality of terrorism incidents, has changed over the years. This density estimate is a combinational quantity consisting of frequency of Terrorism Incidents and Fatality of these incidents which is the Death Toll

2 Insights

The joint plot in the Figure 1 describes the Terrorism Density estimate progressing over the years. This density estimate is a quantity comprised of two attributes which is frequency of Terrorism Incidents and Fatality of these incidents which is the Death Toll from this Terrorism incident, which combines to form a density estimate to give as sense of how terrorism has been progressing and remained silent for very few years.

3 Data Abstraction

- **Dataset Type :** Tabular Data - Comma separated Value File
- **Items:** Each Item is a terror event consisting of data related to information of Terrorism event
- **Attributes:** For the below visualization of Terrorism density estimate over the years, a merged data-frame consisting of Total terror incidents frequency which is a quantitative attribute type and Total Killed which is again a quantitative attribute are computed and plotted against the Years which is sequential attribute type on the x axis.

4 Task abstraction

- **Marks:** Contour Lines
Indicates the density growth of density estimate over each channel
- **Channels:** Colorbars
Indicates the intensity of Density estimate. More the number of incidents and death toll, more is the intensity of the color-bar. Color-bar is indicated to utilize for better analysis.
- **Users:** General public, researcher, journalist, and policy maker.
- **Actions :**
High level → Present the Data
Mid Level → Browse the Data
Low Level → Compare the Data
- Sparse incidents and low fatalities from 1960s to 1980s, continuing into early 2000s.
- Significant rise in incidents and fatalities post-2000, notably after 9/11 attacks.
- Some isolated points contribute to density despite representing fewer incidents.
- Reflects escalated terrorism landscape from 2000s onwards.
- **Target:** Dependency: → Observation hints at a direct relationship between incident frequency and death tolls, crucial in understanding terrorism dynamics.

5 Additional Data source

No additional data source has been utilized except the Input Data file from the Kaggle Website

Dataset : Global Terrorism Dataset

Link : <https://www.kaggle.com/datasets/START-UMD/gtd>