

Lab Exercise VII

Making Maps I: Introduction to Spatial Analysis, Data Visualization and Map Design

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1 Part I

- **Description of functions:**

- *acled* : returns the entirety of the dataframe (or up to the print limit for rows and/or columns)
- *summary(acled)* : returns a summary of the data based on its respective columns
- *head(acled)* : returns the first few rows of the dataframe
- *tail(acled)* : returns the last few rows of the dataframe

- **Number of events with more than 400 fatalities:** 28

- **Country with the largest number of events:** Egypt

- **Description of functions:**

- *dmy()* : converts a string with format day-month-year into lubridate package's date data format
- *wday()* : returns a numerical value corresponding to the weekday component stored within lubridate package's date data format, where 1 corresponds to Monday and 7 to Sunday

- **The day of the week where events occur most frequently:** Saturday

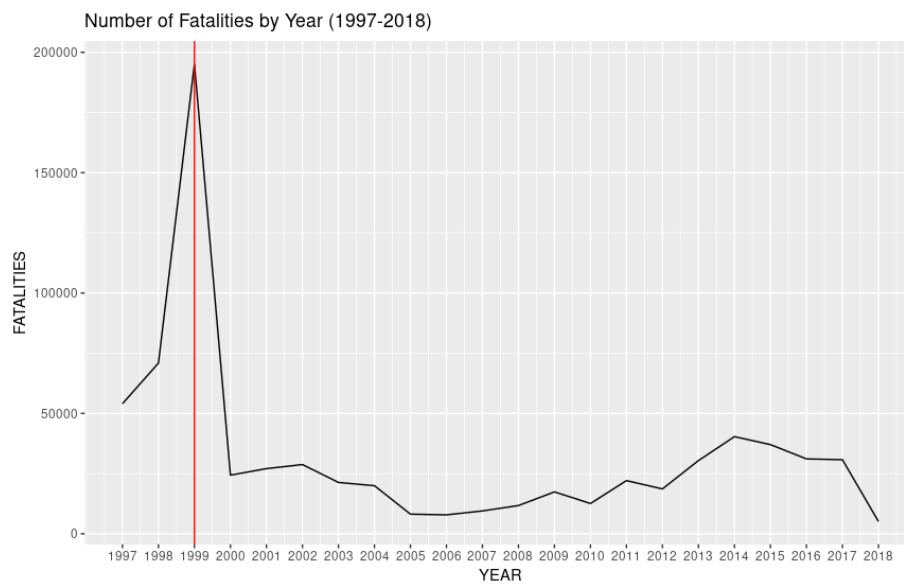
2 Part II

- **Description of functions:**

- *substr()* : returns a sequential snippet of a string based on two positional arguments defining the start and end of the sequence
- *aggregate()* : returns values based on function on column where values are grouped by the distinct cases of another column

- **Event type with the largest number of events:** Violence against civilians

- **Year with most fatalities:** 1999 *[Figure 1]*



- *[Figure 2]*

