

# STA 478 Final Project

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## Introduction

For this project, I decided to look into the Israeli Palestinian conflict, or otherly known as of as the Israeli Hamas war. The Israeli Palestinian conflict is a long-standing political and territorial dispute over the control of Jerusalem that can be dated back to 1947.

This topic was chosen due to its relevancy within the current world. As of late, the conflict between the Israelis and Palestinians seems to only get worse day by day. I felt it was important to look into this topic because it's important to stay educated on the reality of the situation not just in the political sense but in the statistical sense as well. Unfortunately, the media coverage on this topic can found as both lacking and in many cases extremely biased thus making it hard to truly understand the situation at hand. I hope that through my analysis of the data I can begin to understand the truth of the situation and begin to form an actual informed opinion on this topic.

For this project I plan to take a look into the "Fatalities in the Israeli-Palestinian" data set obtained from kaggle.com. As the title suggests the data will take a look into the statistics of the numerous deaths that have occurred throughout the Israeli Palestinian conflict from 2000 to as late as September 24th of 2023. The dataset has a total of 11124 observations with detailed information on not only the event of the death but the individual as well. All of the variables except age are characters/strings but that makes sense given the information the dataset is trying to convey.

```
data <- read.csv("fatalities_isr_pse_conflict_2000_to_2023.csv")
summary(data)
```

```
##      name      date_of_event      age      citizenship
## Length:11124 Length:11124      Min.   :  1.00 Length:11124
## Class :character Class :character 1st Qu.: 19.00 Class :character
## Mode  :character Mode  :character Median : 23.00 Mode  :character
##                               Mean  : 26.75
##                               3rd Qu.: 31.00
##                               Max.   :112.00
##                               NA's   :129
## event_location event_location_district event_location_region
## Length:11124 Length:11124 Length:11124
## Class :character Class :character Class :character
## Mode  :character Mode  :character Mode  :character
##
##
##
## date_of_death      gender      took_part_in_the_hostilities
```

```
## Length:11124      Length:11124      Length:11124
## Class :character  Class :character  Class :character
## Mode :character   Mode :character   Mode :character
##
##
##
## place_of_residence place_of_residence_district type_of_injury
## Length:11124      Length:11124      Length:11124
## Class :character  Class :character  Class :character
## Mode :character   Mode :character   Mode :character
##
##
##
## ammunition        killed_by          notes
## Length:11124      Length:11124      Length:11124
## Class :character  Class :character  Class :character
## Mode :character   Mode :character   Mode :character
##
##
##
##
```

The dataset includes personal information on each of the fatalities through the variables name, age, citizenship, gender, whether they took part of the hostiles or not, where they where from, and some notes that go more into detail on each death. The variables name and notes will most likely not be useful for analyzing statistically but I felt like it's important to not completely disregard them because they are a reminder that these are not just a statistic in a data set, but the unfortunate deaths that have occurred in a violent war. The rest of the variables however will be used as they provide important information on each individual fatality that can be used to analyze and understand the conflict.

```
selected_columns <- c("age", "citizenship", "gender", "took_part_in_the_hostilities",
                      "place_of_residence")
selected_data <- data[selected_columns]
head(selected_data)
```

```
##   age citizenship gender took_part_in_the_hostilities place_of_residence
## 1  32 Palestinian    M                               Nur Shams R.C.
## 2  21 Palestinian    M                               Nur Shams R.C.
## 3  16 Palestinian    M                               al-Yamun
## 4  19 Palestinian    M          'Aqbat Jaber R.C.
## 5  15 Palestinian    M                               Jenin
## 6  29 Palestinian    M                               Jenin
```

The data set also contains important information of the event of the fatality as well including the date in which the event occurred, the location of the event, the date in which the death occurred, the type of injury sustained, the type of ammunition used, and who they were killed by. The previously mentioned variables should all be important for analyzing the data and understanding the conflict at hand.

```
selected_columns <- c("date_of_event", "event_location", "date_of_death", "type_of_injury",
                      "ammunition", "killed_by")
selected_data <- data[selected_columns]
head(selected_data)
```

##	date_of_event	event_location	date_of_death	type_of_injury	ammunition
## 1	2023-09-24	Nur Shams R.C.	2023-09-24	gunfire live	ammunition
## 2	2023-09-24	Nur Shams R.C.	2023-09-24	gunfire live	ammunition
## 3	2023-09-22	Kfar Dan	2023-09-22	gunfire live	ammunition
## 4	2023-09-20	'Aqbat Jaber R.C.	2023-09-20	gunfire live	ammunition
## 5	2023-09-19	Jenin R.C.	2023-09-19	gunfire live	ammunition
## 6	2023-09-19	Jenin R.C.	2023-09-20	gunfire	missile

  

##	killed_by
## 1	Israeli security forces
## 2	Israeli security forces
## 3	Israeli security forces
## 4	Israeli security forces
## 5	Israeli security forces
## 6	Israeli security forces

## Data Evaluation