

Projectplan

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Log

05/06/2018

After the first meeting with Nick van de Wolff (Later on reverred to as 'Nick'), we started the project of with getting git hub to work. Casper created the public repository: 'DAV_23' and invited the rest of us. After Github was working we discussed the changes we wanted to make to the dataset and called it a day.

06/06/2018

The day started off with the classification of all datatypes. On the Github page of *jamesgo*¹ there is a table that helped us in this progress. Later on we discussed the differences between JSON and CSV, so we could make a better decision between the two of them. We called it a day after a unanimous decision for JSON.

07/06/2018

The group met up at the coffee corner on Science Park to discuss the questions we wanted to ask Nick. He then helped us to convert the file from CSV format to a JSON format with the help of 'Nested Keys'. After the meeting we went on to clean up the dataset a bit more, and got rid of all the unnecessary enters and punctuation. We also got rid of all columns containing URLs e.g. *incident_url* because they are unnecessary for our research.

08/06/2018

We spent the day to clean up the dataset as much as possible. Only to find out that the author of the dataset made some mistakes with the amount of colons (:) and vertical bars (|). In some cases there only was one where there had to be two. In row 997511 we found a character that could not be parsed bij the csv parses, so we had to come up with something to fix this. After finding all the mistakes, the dataset was in order to start programming right away next week.

¹<https://github.com/jamesqo/gun-violence-data>

Research idea's

1. Correlation between surname's and incidents.
2. Incidents correlated to universities/campus/students with the help of key-words like: 'campus','university','school','student','professor','teacher'.
3. Participant relationships; family,friends,co-workers,gang vs gang, acquaintance, significant others.
4. Potential forecasting of incidents, the course of gun violence in the future.
5. Woman/man distribution in family incidents.

Steps taken

1. **From CSV to JSON:** The provided dataset was in a CSV Format, but the discovery was made that Panda² would work better with a JSON format.
2. **Deleting columns:** Columns containing url's were deleted, because it looked messy and they where not needed.
3. **Tidy up:** By removing unnecessary enters and punctuation the data set got a better appearance.
4. **Empty cells:** Because empty cells could cause some problems during plotting and programming, we replaced them all with 'NaN' or 'Unknown'.
- 5.

²<https://pandas.pydata.org/>