Project Twitter data analysis

**Objective synopsis:**  
Our goal is to analyse tweet data procured from twitter, to try and find the opinion/sentiment of twitter users on selectable topics. To do this we will sort the data and analyse on a per-tweet basis. We will then visualise the outcome of the analysis in several manners.

In detail project goals:

The project can be divided into three main segments, namely:   
Obtaining and sorting the twitter data, analysing the data and visualising the analysis.

**Obtaining the data:**

We have chosen to concurrently use two sorts of data gathering, i.e. already created data sets and the live datastream of twitter galled

* Divide the data into positive - negative tweets
* Give the overall opinion of the public (i.e. twitter users) of the topic
* Give the popularity of given subject
* Visualise interest in topic per location

given (user input) 10 hashtags visualise the opinion/sentiment about them

**2 paragraphs describing why**

**Data sources: what data do you need?/where would you find it**  
Mined data from twitter, gotten directly from twitter through the usage of an api.  
Text, coupled with several features (i.e. Likes, retweets, reactions, user data) saved in a to be determined format.

**Tools: Given the data formats of your original dataset what would your data processing pipeline look like?**  
Text as input, fed into an algorithm, which outputs graphs/visualisations/tables.

**Division of work / who does what**

* Create data mining api
* Create algorithm to sort data
* Create visualiser to process sorted data

**Note: what tech would you use:**  
python self-written twitter data mining api, along with an algorithm to sort the mined data.