

Task 1 – Understanding Sentiment of an Input Text

Task Description

Your task is to implement a small system that will provide sentiment analysis of a single sentence that will be given to it as an input. Response of the system should be **positive**, **negative** or **neutral** based on the “estimated” sentiment of input text. The estimation should be done according to the sentiment algorithms provided. Algorithm is very simple, but yet can be useful to derive interesting insights from an unstructured text of social media.

Sentiment Algorithms Description

*The sentiment of each input should be computed based on the sentiment scores of the terms in given sentences. The sentiment of an input text is equivalent to **the sum of the sentiment scores** for each term **found inside input text**.*

The file AFINN-111.txt contains a list of pre-computed sentiment scores. Each line in the file contains a word or phrase followed by a sentiment score. Each word or phrase found in an input text, but not in AFINN-111.txt should be given a sentiment score of 0. See the file AFINN-README.txt for more information.

Sample Input/Output Texts

Text	Sentiment
I really like new book of that author.	Positive
I hate new regulations about importing policies.	Negative
Look at that door, it's still open.	Neutral

Assignment 2 – Understanding Sentiment of New Terms

Task Description

In this part you need to create a functionality within your existing solution that computes a new sentiment for the terms that **do not** appear in the file AFINN-111.txt and save them into another data frame or CSV file called 'sentiments_new'.

Algorithms Description

Certain words can be used to “estimate” the sentiment of a input text. Once you know the sentiment of the input texts that contain some new term, you can assign a sentiment to the new term itself. However, there are a number of words called “stop-words” that are not actually not bringing much sentiment to the text directly. You should ignore such words, list of them can be found in 'stop-words-english.zip' file.

Sample Input/Output Texts

Text	New Terms Sentiment
I really like new book of that author.	author 2.0 book 2.0

