**Detecting emotion from text**

* **text2emotion is the python package which will help you to extract the emotions from the content**
* Compatible with 5 different emotion categories as Happy, Angry, Sad, Surprise and Fear

**STEPS**

##### 1. TEXT PRE-PROCESSING

At first we have the major goal to perform data cleaning and make the content suitable for emotion analysis.

* Remove the unwanted textual part from the message.
* Perform the natural language processing techniques.
* Bring out the well pre-processed text from the text pre-processing.

##### 2. EMOTION INVESTIGATION

Detect emotion from every word that we got from pre-processed text and take a count of it for further analytical process.

* Find the appropriate words that express emotions or feelings.
* Check the emotion category of each word.
* Store the count of emotions relevant to the words found.

##### 3. EMOTION ANALYSIS

After emotion investigation, there is the time of getting the significant output for the textual message we input earlier.

* The output will be in the form of dictionary.
* There will be keys as emotion categories and values as emotion score.
* Higher the score of a particular emotion category, we can conclude that the message belongs to that category.

**DEMO EXAMPLE :**

INPUT : text = "I was asked to sign a third party contract a week out from stay. If it wasn't an 8 person group that took a lot of wrangling I would have cancelled the booking straight away. Bathrooms - there are no stand alone bathrooms. Please consider this - you have to clear out the main bedroom to use that bathroom. Other option is you walk through a different bedroom to get to its en-suite. Signs all over the apartment - there are signs everywhere - some helpful - some telling you rules. Perhaps some people like this but It negatively affected our enjoyment of the accommodation. Stairs - lots of them - some had slightly bending wood which caused a minor injury."

**OUTPUT :** {'Angry': 0.12, 'Fear': 0.42, 'Happy': 0.04, 'Sad': 0.33, 'Surprise': 0.08}

FEAR IS THE HIGHEST.

Useful link for same topic : <https://thecleverprogrammer.com/2021/02/19/text-emotions-detection-with-machine-learning/> using SVC support vector classifier