Sentimental analysis using twitter data(Apple phones)

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Summary:-

In these project we are analysing the twitter data apple phones we can analysis various techniques how peoples are in the positely or nagitively here I am analysis the “apple phones” doing the project This is the look into the sentiment around the Apple phones on tweets like the text. Sentiment Analysis is the process of ‘computationally’ determining whether a piece of writing is positive, negative or neutral. It’s also known as opinion mining. deriving the opinion or attitude of a speaker.it’s largely due to the massive amount of data that can be collected from a single Tweet.

Dataset source:-

https://www.kaggle.com/c/apple-computers-twitter-sentiment2/data

https://drive.google.com/file/d/0B5W8CO0Gb2GGTEs3SUZ0Qnp3Mms/view

Attributes:-
No of attributes:-17(text,favorited,favoriteCount,replyToSN,created,truncated,replyToSID, replyToUID,id,statusSource,screenName,retweetCount,isRetweet,retweeted, retweetCount,isRetweet,retweeted,longitude,latitude)

Samples:- 1000

Related work:-
Error matrix for different modules:-

model	Overall error matrix	error
Linear model	30%	0.521
SVM model	30%	0.36144
Forest model	30 %	0.629
Tree model	35%	0.433

Sparcity of model:-

```
<<TermDocumentMatrix (terms: 1654, documents: 1000)>>
Non-/sparse entries: 9324/1644676
Sparsity           : 99%
Maximal term length: 22
Weighting          : term frequency (tf)
>
```

Sentimental analysis:-

```
> head(s)
  anger anticipation disgust fear joy sadness surprise trust negative positive
1     0            0       0    0   0       0        0     0        0        1
2     0            0       0    0   0       0        0     0        0        1
3     0            0       0    0   0       0        1     0        0        0
4     1            0       2    2   0       1        0     0        3        0
5     0            0       0    0   0       0        0     0        0        0
6     0            0       0    0   0       0        0     0        0        0
>
```

Negative tweet:-

```
> tweets[4]
[1] "RT @SylvaCap: Things might get ugly for $aapl with the iphone delay. With $aapl d
own that means almost all of the FANG stocks were down posâ€¦"
> get_nrc_sentiment('delay')
  anger anticipation disgust fear joy sadness surprise trust negative positive
1     1            0       1    1   0       1        0     0        1        0
>
```

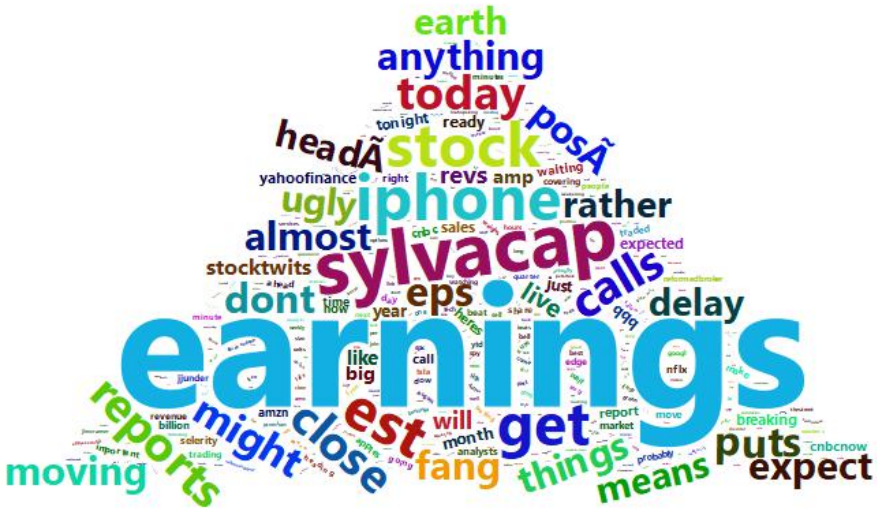
In tweet 4 we observe words like(ugly,delaydown.etc) these are negative tweets and we check the word **delay** they show the some repplys like the anger, disgust,fear,sadness, negative

Positive tweet:-

```
> s <- get_nrc_sentiment(tweets)
> tweets[1]
[1] "RT @option_snipper: $AAPL beat on both eps and revenues. SEES 4Q REV. $49B-$52B,
EST. $49.1B https://t.co/hfHXqjOIOB"
```

In the tweet 1 it show the positive tweet like(both eps and revenues) thest are positive words

Wordcloud:-



In these wordcloud the letter showing big it has the high frequency value and which show the low size it will have the less frequency valye