Text Mining

Extracting Reviews from Amazon

Latent Dirichlet Allocation

```
Topic 1   Topic 2   Topic 3  Topic 4   Topic 5   Topic 6    Topic 7
[1,] "works"   "good"    "google" "speaker" "music"   "sound"    "music"
[2,] "support" "speaker" "bad"    "sound"   "speaker" "speaker"  "plays"
[3,] "devices" "sound"   "eco"    "music"   "dot"     "dot"      "amazed"
[4,] "dot"     "smart"   "home"   "plays"   "sound"   "internet" "quality"
[5,] "home"    "stuff"   "mini"   "amazon"  "bass"    "amazon"   "callhapppy"
     Topic 8      Topic 9   Topic 10
[1,] "songs"      "music"   "speaker"
[2,] "amazing"    "amazon"  "sound"
[3,] "play"       "good"    "music"
[4,] "call"       "apps"    "the"
[5,] "understand" "however" "dot"
```

10 topics with 5 terms each

Sentiment Analysis

Six methods for sentiment analysis

syuzhet , afinn, bing, nrc, Stanford, custom

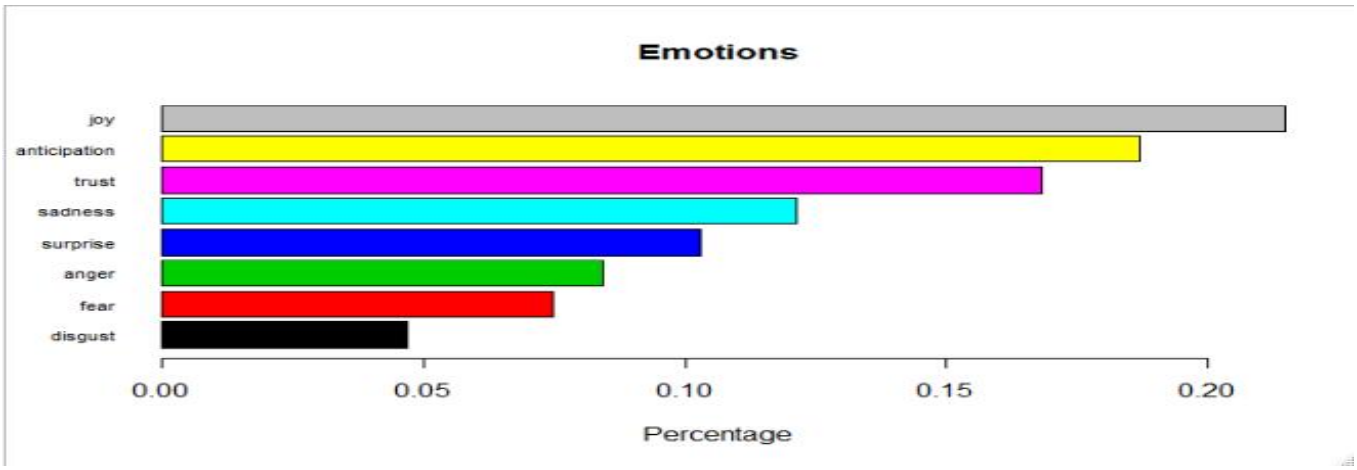
Analyzing using “nrc”

From the above plot, we can clearly see that positive review reached +3 and negative review -2.

Analyzing using "bing"

Based on above plot, positive review crosses the +3 while negative review is up up to -2.

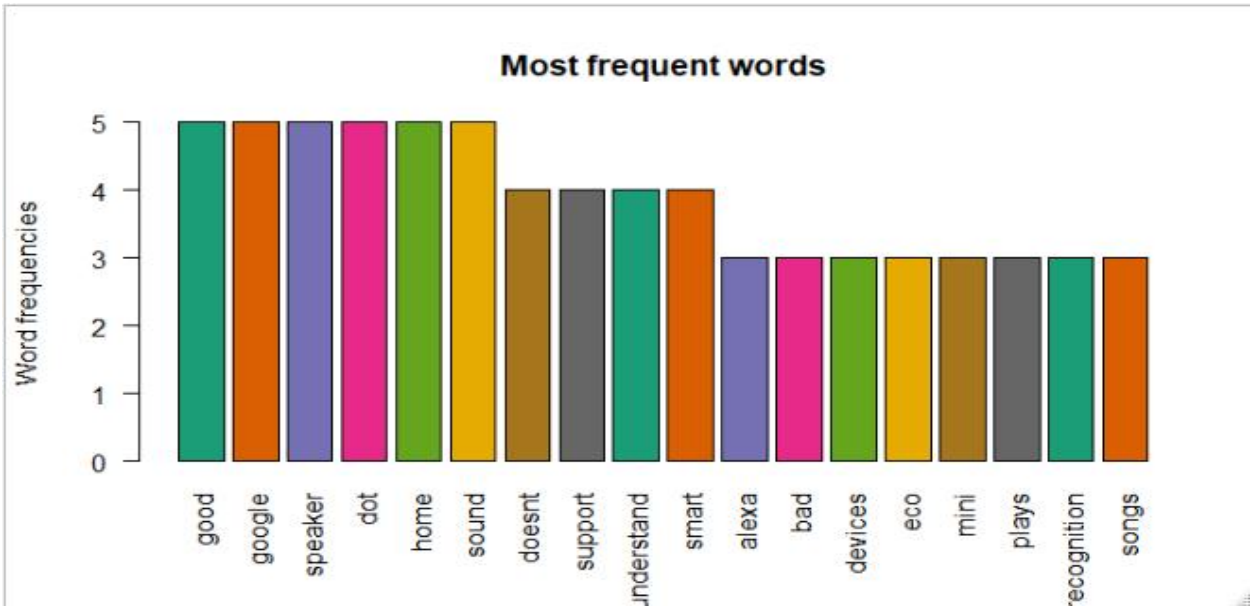
Emotion Analysis



Reviews contain more joyful words.

Word Cloud

Unique words word cloud



From the word cloud and barplot we can say that Alexa echo dot is good in-home sound system.