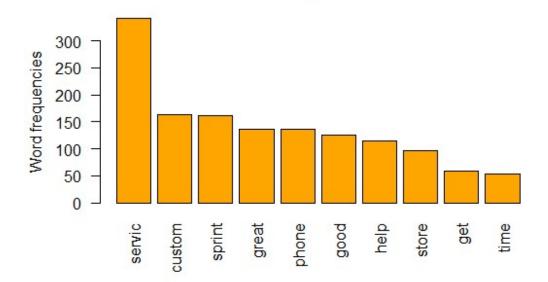
```
library("tm")
library("SnowballC")
library("wordcloud")
library("RColorBrewer")
LOAD:
> filepath <- "retail_transaction_seurvey_data.csv"</pre>
> text<-readLines(filepath)</pre>
> docs <- Corpus(VectorSource(text))</pre>
> docs <- Corpus(VectorSource(text))</pre>
> toSpace <-content_transformer(function (x , pattern)gsub(pattern, "</pre>
", x))
> docs <- tm_map(docs, toSpace, "/")
> docs <- tm_map(docs, toSpace, "@")
> docs <- tm_map(docs, toSpace, "Error! Hyperlink reference not</pre>
valid.")
Clean text:
> docs <- tm_map(docs, content_transformer(tolower))</pre>
> docs <- tm_map(docs, content_transformer(tofower))
> docs <- tm_map(docs, removeNumbers)
> docs <- tm_map(docs, removeWords, stopwords("english"))
> docs <- tm_map(docs, removeWords, c("blabla1","blabla2"))
> docs <- tm_map(docs, stripWhitespace)
> docs <- tm_map(docs, stemDocument)</pre>
> set.seed(1234)
> wordcloud(words = d$word, freq = d$freq,c(8,.3),2,, min.freq = 1,
max.words = 200, random.order = FALSE, rot.per = 0.35,
colors=brewer.pal(8, "Dark2"))
```



Most frequent words



```
> findFreqTerms(dtm, lowfreq=100)
[1] "servic" "help" "good" "phone" "sprint" "custom" "great"
```

Only 7 words above occur atleast 100 times.

```
> dtm <- TermDocumentMatrix(docs)</pre>
> m <- as.matrix(dtm)
> v <- sort(rowSums(m), decreasing = TRUE)
> d <- data.frame(word = names(v), freq=v)</pre>
> head(d, 10)
            word freq
                    341
servic servic
custom custom
                    164
sprint sprint
                    161
great
           great
                    137
phone
                    136
           phone
            good
                    125
good
            Йеlр
                    115
help
store
          store
                     97
get get
time time
                      58
```

Based on the most frequent occurring words, it looks like this text document is a customer service (word service occurring 341 times and word custom probably stemmed from the word customer occurring 164 times) review (words great, good and help clearly indicate a kind of review) for sprint(which occurs 161 times). It is also clear from the word "phone" and "store" that it is store review of the phone service.

And the words "great"," help" and "good" indicate that customer mostly have positive review on the service provided.