Text Mining

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```r
#Input Library dan Dataset
library(wordcloud)
```

```
## Loading required package: RColorBrewer
```

```r
library(tm)
```

```
## Loading required package: NLP
```

```r
library(textclean)
library(tidytext)
amazon_reviewsss <- read.csv("C:/Users/ASUS/Downloads/amazon_reviewsss.csv",
sep=";", stringsAsFactors=TRUE)
head(amazon_reviewsss)
```

```
##       reviewerID       asin reviewerName helpful
## 1 A3SBTW3WS4IQSN B007WTAJTO                [0, 0]
## 2 A18K1ODH1I2MVB B007WTAJTO         0mie   [0, 0]
## 3 A2FII3I2MBMUIA B007WTAJTO          1K3   [0, 0]
## 4  A3H99DFEG68SR B007WTAJTO          1m2   [0, 0]
## 5 A375ZM4U047O79 B007WTAJTO         2&amp
## 6 A2IDCSC6NVONIZ B007WTAJTO       2Cents! [0, 0]
##
reviewText
## 1
No issues.
## 2
Purchased this for my device, it worked as advertised. You can never have too
much phone memory, since I download a lot of stuff this was a no brainer for
me.
## 3
it works as expected. I should have sprung for the higher capacity.  I think
its made a bit cheesier than the earlier versions
## 4 This think has worked out great.Had a diff. bran 64gb card and if went s
outh after 3 months.This one has held up pretty well since I had my S3, now o
n my Note3.*** update 3/21/14I've had this for a few months and have had ZERO
issue's since it was transferred from my S3 to my Note3 and into a note2. Thi
s card is reliable and solid!Cheers!
```

```
## 5
## 6                                                    It's mini stor
age.  It doesn't do anything else and it's not supposed to.  I purchased it t
o add additional storage to my Microsoft Surface Pro tablet which only come i
n 64 and 128 GB.  It does what it's supposed to and SanDisk has a long standi
ng reputation that speaks for itself.
##   overall                             summary unixReviewTime reviewTime
## 1       4                           Four Stars     1406073600 23/07/2014
## 2       5                         MOAR SPACE!!!     1382659200 25/10/2013
## 3      NA                                  NA                           
## 4       5 Great buy at this price!!!  *** UPDATE     1384992000 21/11/2013
## 5      NA                                  NA                           
## 6       5              Not a lot to really be said     1367193600 29/04/2013
##   day_diff helpful_yes total_vote X X.1
## 1      138           0          0
## 2      409           0          0
## 3       NA          NA         NA
## 4      382           0          0
## 5       NA          NA         NA
## 6      588           0          0
```

#Mengubah Data Frame Menjadi Data Vektor

```
rev<- amazon_reviewsss$reviewText

head (rev)
```

```
## [1] No issues.
## [2] Purchased this for my device, it worked as advertised. You can never h
ave too much phone memory, since I download a lot of stuff this was a no brai
ner for me.
## [3] it works as expected. I should have sprung for the higher capacity.  I
think its made a bit cheesier than the earlier versions
## [4] This think has worked out great.Had a diff. bran 64gb card and if went
south after 3 months.This one has held up pretty well since I had my S3, now
on my Note3.*** update 3/21/14I've had this for a few months and have had ZER
O issue's since it was transferred from my S3 to my Note3 and into a note2. T
his card is reliable and solid!Cheers!
## [5]
## [6] It's mini storage.  It doesn't do anything else and it's not supposed
to.  I purchased it to add additional storage to my Microsoft Surface Pro tab
let which only come in 64 and 128 GB.  It does what it's supposed to and SanD
isk has a long standing reputation that speaks for itself.
## 4898 Levels:  ...
```

```
##Text Cleaning

#Mengubah Kapital Menjadi Huruf Kecil

rev <- tolower(rev)

head(rev)
```

[1] "no issues."

[2] "purchased this for my device, it worked as advertised. you can never
have too much phone memory, since i download a lot of stuff this was a no bra
iner for me."

[3] "it works as expected. i should have sprung for the higher capacity.
i think its made a bit cheesier than the earlier versions"

[4] "this think has worked out great.had a diff. bran 64gb card and if wen
t south after 3 months.this one has held up pretty well since i had my s3, no
w on my note3.*** update 3/21/14i've had this for a few months and have had z
ero issue's since it was transferred from my s3 to my note3 and into a note2.
this card is reliable and solid!cheers!"

[5] ""

[6] "it's mini storage. it doesn't do anything else and it's not supposed
to. i purchased it to add additional storage to my microsoft surface pro tab
let which only come in 64 and 128 gb. it does what it's supposed to and sand
isk has a long standing reputation that speaks for itself."

```
#Mengembalikan Kata yang disingkat Menjadi Kata Aslinya

rev <- replace_contraction(rev)

head(rev)
```

[1] "no issues."

[2] "purchased this for my device, it worked as advertised. you can never
have too much phone memory, since i download a lot of stuff this was a no bra
iner for me."

[3] "it works as expected. i should have sprung for the higher capacity.
i think its made a bit cheesier than the earlier versions"

[4] "this think has worked out great.had a diff. bran 64gb card and if wen
t south after 3 months.this one has held up pretty well since i had my s3, no
w on my note3.*** update 3/21/14I have had this for a few months and have had
zero issue's since it was transferred from my s3 to my note3 and into a note2
. this card is reliable and solid!cheers!"

[5] ""

[6] "it is mini storage. it does not do anything else and it is not suppo
sed to. i purchased it to add additional storage to my microsoft surface pro
tablet which only come in 64 and 128 gb. it does what it is supposed to and
sandisk has a long standing reputation that speaks for itself."

```
#Mengembalikan Kata yang Mengalami Perpanjangan Menjadi Kata Aslinya

rev <- replace_word_elongation(rev)

head(rev)
```

```
## [1] "no issues."

## [2] "purchased this for my device, it worked as advertised. you can never
have too much phone memory, since i download a lot of stuff this was a no bra
iner for me."

## [3] "it works as expected. i should have sprung for the higher capacity.
i think its made a bit cheesier than the earlier versions"

## [4] "this think has worked out great.had a diff. bran 64gb card and if wen
t south after 3 months.this one has held up pretty well since i had my s3, no
w on my note3.*** update 3/21/14I have had this for a few months and have had
zero issue's since it was transferred from my s3 to my note3 and into a note2
. this card is reliable and solid!cheers!"

## [5] ""

## [6] "it is mini storage.  it does not do anything else and it is not suppo
sed to.  i purchased it to add additional storage to my microsoft surface pro
tablet which only come in 64 and 128 gb.  it does what it is supposed to and
sandisk has a long standing reputation that speaks for itself."
```

#Menghapus Huruf yang Bukan Kata

```
rev <- strip(rev)

head(rev)
```

```
## [1] "no issues"

## [2] "purchased this for my device it worked as advertised you can never ha
ve too much phone memory since i download a lot of stuff this was a no braine
r for me"

## [3] "it works as expected i should have sprung for the higher capacity i t
hink its made a bit cheesier than the earlier versions"

## [4] "this think has worked out greathad a diff bran gb card and if went so
uth after monthsthis one has held up pretty well since i had my s now on my n
ote update i have had this for a few months and have had zero issue's since i
t was transferred from my s to my note and into a note this card is reliable
and solidcheers"

## [5] ""

## [6] "it is mini storage it does not do anything else and it is not suppose
d to i purchased it to add additional storage to my microsoft surface pro tab
let which only come in and gb it does what it is supposed to and sandisk has
a long standing reputation that speaks for itself"
```

#Menghapus Beberapa Kata

```
rev <-removeWords(rev, c("the","our","you","and","was","this","with","not","t
oo","but","for",

                         "its","who","has","what","yet","your","out","else","
more",

                         "own","are","abaut","just","because","all","etc","wo
rks","these","did","say","use","end","she","lot","can","not","for","saw","als
o","have","that","after",","))

head(rev)
```

```
## [1] "no issues"

## [2] "purchased   my device it worked as advertised   never   much phone me
mory since i download a  of stuff   a no brainer  me"

## [3] "it  as expected i should  sprung   higher capacity i think  made a bi
t cheesier than  earlier versions"

## [4] " think  worked  greathad a diff bran gb card  if went south  monthsth
is one  held up pretty well since i had my s now on my note update i  had   a
few months   had zero issue's since it  transferred from my s to my note  int
o a note  card is reliable  solidcheers"

## [5] ""

## [6] "it is mini storage it does  do anything   it is  supposed to i purcha
sed it to add additional storage to my microsoft surface pro tablet which onl
y come in  gb it does  it is supposed to  sandisk  a long standing reputation
speaks  itself"
```