

# MANOJ KUMAR - 2048015

R-Laboratory 9

05/04/2021

## Demonstrate the step by step procedure for creating a word cloud of your own text data

```
library("NLP")  
library("tm")  
library("RColorBrewer")  
library("wordcloud")  
library("wordcloud2")
```

```
#To import the file type
```

```
filePath <- "/Users/manojkumarr/Downloads/Other/Christ University/SEM 2/R/Lab/Lab 9/d  
airy.txt"
```

```
text_file <- readLines(filePath)
```

```
# Now we are using paste() function in text_file and make it a chunk and the text col  
lapse into quotations (" "). And storing to text_file1.  
text_file1 <- paste(text_file, collapse = "")  
head(text_file1)
```

```
## [1] "26th of October ( Monday ), 2020 – As usual, my day started with a hotbed coffee. I took a bath, and I started with my routine. I used to go walking, but due to the pandemic, I'm unable to go out. Every corner of the world is talking about this coronavirus. I'm worried about the uncertainty of life. I'm blessed as I'll be able to travel to Toronto by the next week with my wife in a private jet. Usually, I'll keep my diary on the bookshelf, but I kept it in my cupboard today by mistake. Damn!!I'm growing older, and I don't remember certain things. As we were planning to go to Toronto next week, I suddenly remembered my last trip with my wife to Coorg. It was such a beautiful memory. We had a lovely time there. Whenever I tease her, she used to scold me like You're such a monster. I loved her very much, and she was everything to me. We are almost 60, and we tried everything in Coorg. On the 2nd day of our trip, all of our plans were spoiled due to heavy rain. There was stagnant water outside our room's window, and I don't believe that we did such a childish act. We were making paper boats to play in that stagnant water. We acted like babies. The next day a friend of mine visited us, and he accompanied us to the wildlife sanctuary. My wife was endoscopic surgery patient, and she was terrified of wild animals. I made fun of her by comparing her with the monkey. Anyways, we had a great time there. Later that evening, we went to a site seeing where we enjoyed the lake view using the telescope. Our trip was unforgettable. I hope that my next visit to Toronto will be inspiring as my colleagues have planned to go for a league match. I'm waiting for the next week to go to my favorite hotel and my favorite room number 750. I'm a bit emotional and sentimental, so I always wish to stay in the same room number. More than 5,00,00 people have died due to coronavirus, but God has blessed me with good health, and I'm able to lead a very high life with my loved ones. My life had many hardships, and I managed to overcome them. I hope my trip to Toronto will be a memorable one as I'll spend time with my beloved wife. @kalman.org sia asian asia euroleague damaged xerox fireplugs bugs paper grape escape correct bit coin end. managed overcome hope trip toronto cupboard today mistake damn growing older cupboard today mistake damn growing older cupboard today mistake damn growing older accompanied us wildlife sanctuary wife endoscopic surgery patient terrified wild animals made fun comparing monkey anyways great time later evening went site seeing enjoyed lake view using telescope trip unforgettable hope next visit toronto will inspiring colleagues planned go league match october monday usual day started hotbed coffee aiting next week go favorite hotel "
```

*#The text mining function is used to convert the text to lower case, to remove unnecessary white space, to remove common stop words like 'the', "we", etc.,*

```
clean_text <- tolower(text_file1)
head(clean_text)
```

```
## [1] "26th of october ( monday ), 2020 – as usual, my day started with a hotbed coffee. i took a bath, and i started with my routine. i used to go walking, but due to the pandemic, i'm unable to go out. every corner of the world is talking about this coronavirus. i'm worried about the uncertainty of life. i'm blessed as i'll be able to travel to toronto by the next week with my wife in a private jet. usually, i'll keep my diary on the bookshelf, but i kept it in my cupboard today by mistake. damn!!i'm growing older, and i don't remember certain things. as we were planning to go to toronto next week, i suddenly remembered my last trip with my wife to coorg. it was such a beautiful memory. we had a lovely time there. whenever i tease her, she used to scold me like you're such a monster. i loved her very much, and she was everything to me. we are almost 60, and we tried everything in coorg. on the 2nd day of our trip, all of our plans were spoiled due to heavy rain. there was stagnant water outside our room's window, and i don't believe that we did such a childish act. we were making paper boats to play in that stagnant water. we acted like babies. the next day a friend of mine visited us, and he accompanied us to the wildlife sanctuary. my wife was endoscopic surgery patient, and she was terrified of wild animals. i made fun of her by comparing her with the monkey. anyways, we had a great time there. later that evening, we went to a site seeing where we enjoyed the lake view using the telescope. our trip was unforgettable. i hope that my next visit to toronto will be inspiring as my colleagues have planned to go for a league match. i'm waiting for the next week to go to my favorite hotel and my favorite room number 750. i'm a bit emotional and sentimental, so i always wish to stay in the same room number. more than 5,00,00 people have died due to coronavirus, but god has blessed me with good health, and i'm able to lead a very high life with my loved ones. my life had many hardships, and i managed to overcome them. i hope my trip to toronto will be a memorable one as i'll spend time with my beloved wife. @kalman.org sia asian asia euroleague damaged xerox fireplugs bugs paper grape escape correct bit coin end. managed overcome hope trip toronto cupboard today mistake damn growing older cupboard today mistake damn growing older cupboard today mistake damn growing older accompanied us wildlife sanctuary wife endoscopic surgery patient terrified wild animals made fun comparing monkey anyways great time later evening went site seeing enjoyed lake view using telescope trip unforgettable hope next visit toronto will inspiring colleagues planned go league match october monday usual day started hotbed coffee aiting next week go favorite hotel "
```

```
#In every step, you can modify your text-data and use it in the next step for text-manipulation. You can also remove Punctuation and digits
#with removeNumbers and removePunctuation arguments.
#To remove punctuations we are using gsub() function in the below code.
#Here, pattern= "\\W'" to remove punctuations.
#Here, pattern= "\\d'" to remove digits.
#replace= "_", we are going to replace the punctuations by space.
#If we don't do so then it may make new words.
```

```
clean_text1 <- gsub(pattern = "\\W", replace = " ",clean_text)
head(clean_text1)
```

```
## [1] "26th of october    monday    2020    as usual    my day started with a hotbed cof
fee i took a bath and i started with my routine i used to go walking but due to t
he pandemic i m unable to go out every corner of the world is talking about this co
ronavirus i m worried about the uncertainty of life i m blessed as i ll be able to
travel to toronto by the next week with my wife in a private jet usually i ll keep
my diary on the bookshelf but i kept it in my cupboard today by mistake damn i m g
rowing older and i don t remember certain things as we were planning to go to toron
to next week i suddenly remembered my last trip with my wife to coorg it was such a
beautiful memory we had a lovely time there whenever i tease her she used to scol
d me like you re such a monster i loved her very much and she was everything to me
we are almost 60 and we tried everything in coorg on the 2nd day of our trip all o
f our plans were spoiled due to heavy rain there was stagnant water outside our room
s window and i don t believe that we did such a childish act we were making paper b
oats to play in that stagnant water we acted like babies the next day a friend of m
ine visited us and he accompanied us to the wildlife sanctuary my wife was endoscop
ic surgery patient and she was terrified of wild animals i made fun of her by compa
ring her with the monkey anyways we had a great time there later that evening we
went to a site seeing where we enjoyed the lake view using the telescope our trip wa
s unforgettable i hope that my next visit to toronto will be inspiring as my colleag
ues have planned to go for a league match i m waiting for the next week to go to my
favorite hotel and my favorite room number 750 i m a bit emotional and sentimental
so i always wish to stay in the same room number more than 5 00 00 people have died
due to coronavirus but god has blessed me with good health and i m able to lead a v
ery high life with my loved ones my life had many hardships and i managed to overco
me them i hope my trip to toronto will be a memorable one as i ll spend time with my
beloved wife kalman org sia asian asia euroleague damaged xerox fireplugs bugs pape
r grape escape correct bit coin end managed overcome hope trip toronto cupboar
d today mistake damn growing older cupboard today mistake damn growing older cupboa
rd today mistake damn growing older accompanied us wildlife sanctuary wife en
doscopic surgery patient terrified wild animals made fun comparing monkey a
nyways great time later evening went site seeing enjoyed lake view using t
elescope trip unforgettable hope next visit toronto will inspiring colleagues pl
anned go league match october    monday    usual    day started    hotbed coffee
aiting    next week    go    favorite hotel "
```

```
clean_text2 <- gsub(pattern = "\\d", replace = " ", clean_text1)
head(clean_text2)
```

## [1] " th of october monday as usual my day started with a hotbed coffee i took a bath and i started with my routine i used to go walking but due to the pandemic i m unable to go out every corner of the world is talking about this coronavirus i m worried about the uncertainty of life i m blessed as i ll be able to travel to toronto by the next week with my wife in a private jet usually i ll keep my diary on the bookshelf but i kept it in my cupboard today by mistake damn i m growing older and i don t remember certain things as we were planning to go to toronto next week i suddenly remembered my last trip with my wife to coorg it was such a beautiful memory we had a lovely time there whenever i tease her she used to scold me like you re such a monster i loved her very much and she was everything to me we are almost and we tried everything in coorg on the nd day of our trip all of our plans were spoiled due to heavy rain there was stagnant water outside our room s window and i don t believe that we did such a childish act we were making paper boats to play in that stagnant water we acted like babies the next day a friend of mine visited us and he accompanied us to the wildlife sanctuary my wife was endoscopic surgery patient and she was terrified of wild animals i made fun of her by comparing her with the monkey anyways we had a great time there later that evening we went to a site seeing where we enjoyed the lake view using the telescope our trip was unforgettable i hope that my next visit to toronto will be inspiring as my colleagues have planned to go for a league match i m waiting for the next week to go to my favorite hotel and my favorite room number i m a bit emotional and sentimental so i always wish to stay in the same room number more than people have died due to coronavirus but god has blessed me with good health and i m able to lead a very high life with my loved ones my life had many hardships and i managed to overcome them i hope my trip to toronto will be a memorable one as i ll spend time with my beloved wife kalman org sia asian asia euroleague damaged xerox fireplugs bugs paper grape escape correct bit coin end managed overcome hope trip toronto cupboard today mistake damn growing older cupboard today mistake damn growing older cupboard today mistake damn growing older accompanied us wildlife sanctuary wife endoscopic surgery patient terrified wild animals made fun comparing monkey anyways great time later evening went site seeing enjoyed lake view using telescope trip unforgettable hope next visit toronto will inspiring colleagues planned go league match october monday usual day started hotbed coffee aiting next week go favorite hotel "

*#The information value of 'stopwords' is near zero due to the fact that they are so common in a language.*

*#Extracting this kind of words is helpful before further analyses.*

stopwords()

##	[1]	"i"	"me"	"my"	"myself"	"we"
##	[6]	"our"	"ours"	"ourselves"	"you"	"your"
##	[11]	"yours"	"yourself"	"yourselves"	"he"	"him"
##	[16]	"his"	"himself"	"she"	"her"	"hers"
##	[21]	"herself"	"it"	"its"	"itself"	"they"
##	[26]	"them"	"their"	"theirs"	"themselves"	"what"
##	[31]	"which"	"who"	"whom"	"this"	"that"
##	[36]	"these"	"those"	"am"	"is"	"are"
##	[41]	"was"	"were"	"be"	"been"	"being"
##	[46]	"have"	"has"	"had"	"having"	"do"
##	[51]	"does"	"did"	"doing"	"would"	"should"
##	[56]	"could"	"ought"	"i'm"	"you're"	"he's"
##	[61]	"she's"	"it's"	"we're"	"they're"	"i've"
##	[66]	"you've"	"we've"	"they've"	"i'd"	"you'd"
##	[71]	"he'd"	"she'd"	"we'd"	"they'd"	"i'll"
##	[76]	"you'll"	"he'll"	"she'll"	"we'll"	"they'll"
##	[81]	"isn't"	"aren't"	"wasn't"	"weren't"	"hasn't"
##	[86]	"haven't"	"hadn't"	"doesn't"	"don't"	"didn't"
##	[91]	"won't"	"wouldn't"	"shan't"	"shouldn't"	"can't"
##	[96]	"cannot"	"couldn't"	"mustn't"	"let's"	"that's"
##	[101]	"who's"	"what's"	"here's"	"there's"	"when's"
##	[106]	"where's"	"why's"	"how's"	"a"	"an"
##	[111]	"the"	"and"	"but"	"if"	"or"
##	[116]	"because"	"as"	"until"	"while"	"of"
##	[121]	"at"	"by"	"for"	"with"	"about"
##	[126]	"against"	"between"	"into"	"through"	"during"
##	[131]	"before"	"after"	"above"	"below"	"to"
##	[136]	"from"	"up"	"down"	"in"	"out"
##	[141]	"on"	"off"	"over"	"under"	"again"
##	[146]	"further"	"then"	"once"	"here"	"there"
##	[151]	"when"	"where"	"why"	"how"	"all"
##	[156]	"any"	"both"	"each"	"few"	"more"
##	[161]	"most"	"other"	"some"	"such"	"no"
##	[166]	"nor"	"not"	"only"	"own"	"same"
##	[171]	"so"	"than"	"too"	"very"	

*#Lets us remove those stopwords and unnecessary words by using removeWords() function.*

```
clean_text3 <- removeWords(clean_text2, words = c(stopwords(), 'm', 't', 'll', 'th', 'nd',
's', 're', 'don', ''))
head(clean_text3)
```

```
## [1] "    october    monday        usual    day started    hotbed coffee    took    b
ath    started    routine    used    go walking    due    pandemic    unable    go    every co
rner    world    talking    coronavirus    worried    uncertainty    life    blessed    abl
e    travel    toronto    next week    wife    private jet    usually    keep    diary    bookshe
lf    kept    cupboard today    mistake    damn    growing older    remember    certain th
ings    planning    go    toronto next week    suddenly remembered    last trip    wife    coo
rg    beautiful memory    lovely time    whenever    tease    used    scold    like
monster    loved    much    everything    almost    tried everything    coorg
day    trip    plans    spoiled due    heavy rain    stagnant water outside    room    window
believe    childish act    making paper boats    play    stagnant water    acted like b
abies    next day    friend    mine visited us    accompanied us    wildlife sanctuary    wi
fe    endoscopic surgery patient    terrified    wild animals    made fun    comparing
monkey    anyways    great time    later    evening    went    site seeing    enjoyed    lake
view using    telescope    trip    unforgettable    hope    next visit    toronto will    inspir
ing    colleagues    planned    go    league match    waiting    next week    go    favorite ho
tel    favorite room number    bit emotional    sentimental    always wish    stay
room number    people    died due    coronavirus    god    blessed    good health
able    lead    high life    loved ones    life    many hardships    managed    overcome    ho
pe    trip    toronto will    memorable one    spend time    beloved wife    kalman org sia
asian asia euroleague    damaged    xerox    fireplugs    bugs    paper    grape    escape    correct    bit    coi
n end    managed    overcome    hope    trip    toronto    cupboard today    mistake    damn    growing
older    cupboard today    mistake    damn    growing older    cupboard today    mistake    damn    growin
g older    accompanied us    wildlife sanctuary    wife    endoscopic surgery patient    terrif
ied    wild animals    made fun    comparing    monkey    anyways    great time    later
evening    went    site seeing    enjoyed    lake    view using    telescope    trip    unforgettable
hope    next visit    toronto will    inspiring    colleagues    planned    go    league match    october    m
onday        usual    day started    hotbed coffee    aiting    next week    go    favorit
e hotel "
```

```
#Now let us remove single letters, by gsub() function
```

```
clean_text4 <- gsub(pattern = "\\b[A-z]\\b{1}", replace = " ", clean_text3 )
head(clean_text4)
```

```
## [1] "    october    monday        usual    day started    hotbed coffee    took    b
ath    started    routine    used    go walking    due    pandemic    unable    go    every co
rner    world talking    coronavirus    worried    uncertainty    life    blessed    abl
e    travel    toronto    next week    wife    private jet    usually    keep    diary    bookshe
lf    kept    cupboard today    mistake    damn    growing older    remember    certain th
ings    planning    go    toronto next week    suddenly remembered    last trip    wife    coo
rg    beautiful memory    lovely time    whenever    tease    used    scold    like
monster    loved    much    everything    almost    tried everything    coorg
day    trip    plans    spoiled due    heavy rain    stagnant water outside    room    window
believe    childish act    making paper boats    play    stagnant water    acted like b
abies    next day    friend    mine visited us    accompanied us    wildlife sanctuary    wi
fe    endoscopic surgery patient    terrified    wild animals    made fun    comparing
monkey    anyways    great time    later    evening    went    site seeing    enjoyed    lake
view using    telescope    trip    unforgettable    hope    next visit    toronto will    inspir
ing    colleagues    planned    go    league match    waiting    next week    go    favorite ho
tel    favorite room number    bit emotional    sentimental    always wish    stay
room number    people    died due    coronavirus    god    blessed    good health
able    lead    high life    loved ones    life    many hardships    managed    overcome    ho
pe    trip    toronto will    memorable one    spend time    beloved wife    kalman org sia
asian asia euroleague    damaged    xerox    fireplugs    bugs    paper    grape    escape    correct    bit    coi
n end    managed    overcome    hope    trip    toronto    cupboard today    mistake    damn    growing
older    cupboard today    mistake    damn    growing older    cupboard today    mistake    damn    growin
g older    accompanied us    wildlife sanctuary    wife    endoscopic surgery patient    terrif
ied    wild animals    made fun    comparing    monkey    anyways    great time    later
evening    went    site seeing    enjoyed    lake    view using    telescope    trip    unforgettable
hope    next visit    toronto will    inspiring    colleagues    planned    go    league match    october    m
onday        usual    day started    hotbed coffee    aiting    next week    go    favorit
e hotel "
```

*#Here `\\b[A-z]` represents strings with any letter between a-z.*

*#The string can take uppercase letters as well as lower case letters and subset `\\{1}` says that the strings end with length one.*

*#We can finally remove white spaces using `stripWhitespace()` function, which is a part of `tm` library.*

```
clean_text5 <- stripWhitespace(clean_text4)
head(clean_text4)
```



```
## [1] "    october    monday        usual    day started    hotbed coffee    took    b
ath    started    routine    used    go walking    due    pandemic    unable    go    every co
rner    world    talking    coronavirus    worried    uncertainty    life    blessed    abl
e    travel    toronto    next week    wife    private jet    usually    keep    diary    bookshe
lf    kept    cupboard today    mistake    damn    growing older    remember    certain th
ings    planning    go    toronto next week    suddenly remembered    last trip    wife    coo
rg    beautiful memory    lovely time    whenever    tease    used    scold    like
monster    loved    much    everything    almost    tried everything    coorg
day    trip    plans    spoiled due    heavy rain    stagnant water outside    room    window
believe    childish act    making paper boats    play    stagnant water    acted like b
abies    next day    friend    mine visited us    accompanied us    wildlife sanctuary    wi
fe    endoscopic surgery patient    terrified    wild animals    made fun    comparing
monkey    anyways    great time    later    evening    went    site seeing    enjoyed    lake
view using    telescope    trip    unforgettable    hope    next visit    toronto will    inspir
ing    colleagues    planned    go    league match    waiting    next week    go    favorite ho
tel    favorite room number    bit emotional    sentimental    always wish    stay
room number    people    died due    coronavirus    god    blessed    good health
able    lead    high life    loved ones    life    many hardships    managed    overcome    ho
pe    trip    toronto will    memorable one    spend time    beloved wife    kalman org sia
asian asia euroleague damaged xerox fireplugs bugs paper grape escape correct bit coi
n end    managed    overcome    hope    trip    toronto cupboard today    mistake    damn growing
older cupboard today    mistake    damn growing older cupboard today    mistake    damn growin
g older accompanied us    wildlife sanctuary    wife    endoscopic surgery patient terrif
ied    wild animals    made fun    comparing    monkey    anyways    great time    later
evening    went    site seeing    enjoyed    lake view using    telescope    trip    unforgettable
hope next visit    toronto will    inspiring    colleagues    planned    go    league match    october    m
onday        usual    day started    hotbed coffee    aiting    next week    go    favorit
e hotel "
```

```
#We now have a chunk of lines, and we are looking for the counting words And already
joined various lines and made a chunk.
#So first split individual words and add space between them as split using split() fu
nction.
```

```
clean_text6 <- strsplit(clean_text5, " ")
head(clean_text6)
```

##	[[1]]			
##	[1]	" "	"october"	"monday"
##	[5]	"day"	"started"	"hotbed"
##	[9]	"took"	"bath"	"started"
##	[13]	"used"	"go"	"walking"
##	[17]	"pandemic"	"unable"	"go"
##	[21]	"corner"	"world"	"talking"
##	[25]	"worried"	"uncertainty"	"life"
##	[29]	"able"	"travel"	"toronto"
##	[33]	"week"	"wife"	"private"
##	[37]	"usually"	"keep"	"diary"
##	[41]	"kept"	"cupboard"	"today"
##	[45]	"damn"	"growing"	"older"
##	[49]	"certain"	"things"	"planning"
##	[53]	"toronto"	"next"	"week"
##	[57]	"remembered"	"last"	"trip"
##	[61]	"coorg"	"beautiful"	"memory"
##	[65]	"time"	"whenever"	"tease"
##	[69]	"scold"	"like"	"monster"
##	[73]	"much"	"everything"	"almost"
##	[77]	"everything"	"coorg"	"day"
##	[81]	"plans"	"spoiled"	"due"
##	[85]	"rain"	"stagnant"	"water"
##	[89]	"room"	"window"	"believe"
##	[93]	"act"	"making"	"paper"
##	[97]	"play"	"stagnant"	"water"
##	[101]	"like"	"babies"	"next"
##	[105]	"friend"	"mine"	"visited"
##	[109]	"accompanied"	"us"	"wildlife"
##	[113]	"wife"	"endoscopic"	"surgery"
##	[117]	"terrified"	"wild"	"animals"
##	[121]	"fun"	"comparing"	"monkey"
##	[125]	"great"	"time"	"later"
##	[129]	"went"	"site"	"seeing"
##	[133]	"lake"	"view"	"using"
##	[137]	"trip"	"unforgettable"	"hope"
##	[141]	"visit"	"toronto"	"will"
##	[145]	"colleagues"	"planned"	"go"
##	[149]	"match"	"waiting"	"next"
##	[153]	"go"	"favorite"	"hotel"
##	[157]	"room"	"number"	"bit"
##	[161]	"sentimental"	"always"	"wish"
##	[165]	"room"	"number"	"people"
##	[169]	"due"	"coronavirus"	"god"
##	[173]	"good"	"health"	"able"
##	[177]	"high"	"life"	"loved"
##	[181]	"life"	"many"	"hardships"
##	[185]	"overcome"	"hope"	"trip"
##	[189]	"will"	"memorable"	"one"
##	[193]	"time"	"beloved"	"wife"
##	[197]	"org"	"sia"	"asian"
##	[201]	"euroleague"	"damaged"	"xerox"
##	[205]	"bugs"	"paper"	"grape"
##	[209]	"correct"	"bit"	"coin"
##	[213]	"managed"	"overcome"	"hope"
##	[217]	"toronto"	"cupboard"	"today"
##	[221]	"damn"	"growing"	"older"
				"usual"
				"coffee"
				"routine"
				"due"
				"every"
				"coronavirus"
				"blessed"
				"next"
				"jet"
				"bookshelf"
				"mistake"
				"remember"
				"go"
				"suddenly"
				"wife"
				"lovely"
				"used"
				"loved"
				"tried"
				"trip"
				"heavy"
				"outside"
				"childish"
				"boats"
				"acted"
				"day"
				"us"
				"sanctuary"
				"patient"
				"made"
				"anyways"
				"evening"
				"enjoyed"
				"telescope"
				"next"
				"inspiring"
				"league"
				"week"
				"favorite"
				"emotional"
				"stay"
				"died"
				"blessed"
				"lead"
				"ones"
				"managed"
				"toronto"
				"spend"
				"kalman"
				"asia"
				"fireplugs"
				"escape"
				"end"
				"trip"
				"mistake"
				"cupboard"

```
## [225] "today"          "mistake"        "damn"           "growing"
## [229] "older"          "cupboard"       "today"          "mistake"
## [233] "damn"           "growing"        "older"          "accompanied"
## [237] "us"             "wildlife"       "sanctuary"      "wife"
## [241] "endoscopic"     "surgery"        "patient"        "terrified"
## [245] "wild"           "animals"        "made"           "fun"
## [249] "comparing"      "monkey"         "anyways"        "great"
## [253] "time"           "later"          "evening"        "went"
## [257] "site"           "seeing"         "enjoyed"        "lake"
## [261] "view"           "using"          "telescope"      "trip"
## [265] "unforgettable" "hope"           "next"           "visit"
## [269] "toronto"        "will"           "inspiring"      "colleagues"
## [273] "planned"        "go"             "league"         "match"
## [277] "october"        "monday"         "usual"          "day"
## [281] "started"        "hotbed"         "coffee"        "aiting"
## [285] "next"           "week"           "go"             "favorite"
## [289] "hotel"
```

```
#Now create word_freq table and assign clean_text6 data in the
#table using table function.
word_freq <- table(clean_text6)
head(word_freq)
```

```
## clean_text6
##           able accompanied          act          acted          aiting
##           1             2             2             1             1             1
```

```
#By using cbind() by taking word_freq data-frame arguments and
#combine by columns or rows, respectively.

word_freq1 <- cbind(names(word_freq), as.integer(word_freq))
head(word_freq1)
```

```
##           [,1]           [,2]
## [1,] ""           "1"
## [2,] "able"       "2"
## [3,] "accompanied" "2"
## [4,] "act"        "1"
## [5,] "acted"      "1"
## [6,] "aiting"     "1"
```

```

# Generate the Word cloud
# The feature of words can be illustrated as a word cloud as follow:
# Word clouds add clarity and simplicity.
# The most used keywords stand out better in a word cloud.
# Word clouds are a dynamic tool for communication.
# Easy to understand, to be shared and are impressive words representation.
# Arguments of the word cloud generator function:
# words: the words to be plotted i.e.; word cloud where we have saved the text-data.
# Freq: word frequencies
# min.freq: words with a frequency below min.freq will not be plotted.
# max .words: maximum number of words to be plotted
# random.order: plot words in random order. If false, then words will be plotted in d
ecreasingfrequency
# Rot.per: to adjust proportion words with 90-degree rotation (vertical text)
# colors: colour words from least to most frequent. Use, for example, colors = "Red"
  for asingle colour or "random-dark", "random-light".

word_cloud <- unlist(clean_text6)
wordcloud(word_cloud)

```

```

## Warning in tm_map.SimpleCorpus(corpus, tm::removePunctuation): transformation
## drops documents

```

```

## Warning in tm_map.SimpleCorpus(corpus, function(x) tm::removeWords(x,
## tm::stopwords())): transformation drops documents

```



```

wordcloud(word_cloud,min.freq = 5,random.order = FALSE,scale=c(3, 0.5))

```

```
## Warning in tm_map.SimpleCorpus(corpus, tm::removePunctuation): transformation
## drops documents
```

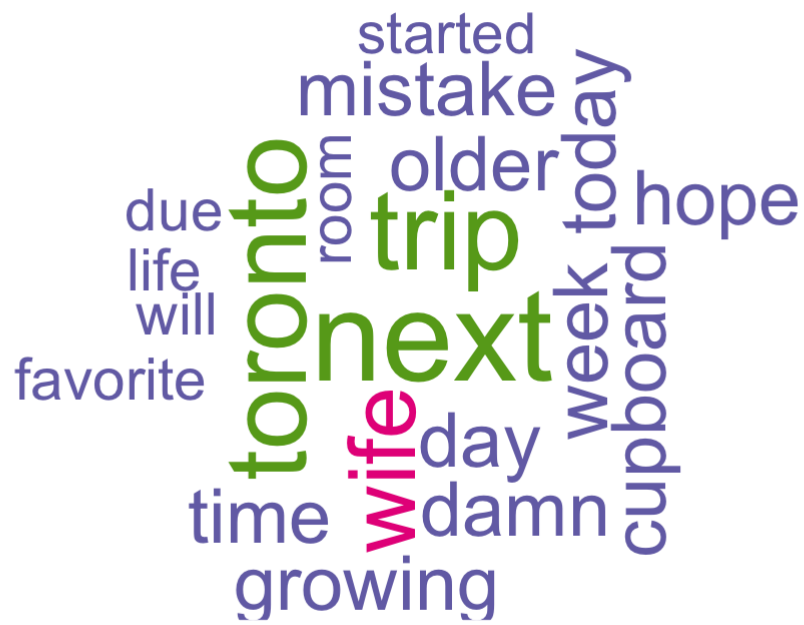
```
## Warning in tm_map.SimpleCorpus(corpus, function(x) tm::removeWords(x,
## tm::stopwords())): transformation drops documents
```

wife trip  
next  
toronto

```
wordcloud(word_cloud,min.freq = 3, max.words=1000, random.order=F, rot.per=0.2,
colors=brewer.pal(5,"Dark2"), scale=c(4,0.2))
```

```
## Warning in tm_map.SimpleCorpus(corpus, tm::removePunctuation): transformation
## drops documents
```

```
## Warning in tm_map.SimpleCorpus(corpus, tm::removePunctuation): transformation
## drops documents
```



```
wordcloud2(word_freq,  
            #color = "random-dark",  
            backgroundColor = "gray")
```

life later everything lake loved  
endoscopic health last enjoyed like  
hardships friend one damaged jet teased  
rain fireplugs beautiful  
heavy fun colleagues certain any ways blessed damn  
high kept org boats asian almost bath end god  
sia diary coin believe acted aiting bit died keep  
lovely mine grape escape bookshelf correct eurolague play  
much comparing coffee due great  
hotbed coronavirus many stay making  
league hotel evening kalman memory  
monster made outside