

# Penske

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## Summary

The objective of this project is to create a sentiment analysis using a corpus of four negative online reviews for the Penske Truck Rentals company that will help determine if there are any apparent systemic problems in their truck leasing business. I copied and pasted the online reviews into four separate .txt documents.

## Process

### Load packages

```
library(tm)

## Loading required package: NLP
library(wordcloud)

## Warning: package 'wordcloud' was built under R version 3.4.2
## Loading required package: RColorBrewer
library(stringr)
```

### Assign corpus of Penske reviews to a folder in the working direcorey

```
folder <- "C:/Users/narce/OneDrive/Documents/GitHub/Penske/Penske/corpus"
```

### Confirm the contents of the folder

```
list.files(path=folder, pattern="*.txt")

## [1] "Penske_1.txt" "Penske_2.txt" "Penske_3.txt" "Penske_4.txt"
```

### Create character vector of the four file names

```
filelist <- list.files(path=folder, pattern="*.txt")
filelist

## [1] "Penske_1.txt" "Penske_2.txt" "Penske_3.txt" "Penske_4.txt"
```

```
str(filelist)
```

```
## chr [1:4] "Penske_1.txt" "Penske_2.txt" "Penske_3.txt" "Penske_4.txt"
```

Create a separate file path for each element and saves that into a new value, filelist

```
filelist <-paste(folder, "\\ ", filelist, sep="")
filelist
```

```
## [1] "C:/Users/narce/OneDrive/Documents/GitHub/Penske/Penske/corpus\\Penske_1.txt"
## [2] "C:/Users/narce/OneDrive/Documents/GitHub/Penske/Penske/corpus\\Penske_2.txt"
## [3] "C:/Users/narce/OneDrive/Documents/GitHub/Penske/Penske/corpus\\Penske_3.txt"
## [4] "C:/Users/narce/OneDrive/Documents/GitHub/Penske/Penske/corpus\\Penske_4.txt"
```

Import each file as a character vector using `lapply` and the `readLines` function. `ReadLines` will treat each line of text as a separate element in a character vector. `Lapply` applies this to each file in the folder.

```
lapply(filelist, FUN=readLines)
```

```
## Warning in FUN(X[[i]], ...): incomplete final line found on 'C:/Users/
## narce/OneDrive/Documents/GitHub/Penske/Penske/corpus\Penske_1.txt'
## Warning in FUN(X[[i]], ...): incomplete final line found on 'C:/Users/
## narce/OneDrive/Documents/GitHub/Penske/Penske/corpus\Penske_2.txt'
## Warning in FUN(X[[i]], ...): incomplete final line found on 'C:/Users/
## narce/OneDrive/Documents/GitHub/Penske/Penske/corpus\Penske_3.txt'
## Warning in FUN(X[[i]], ...): incomplete final line found on 'C:/Users/
## narce/OneDrive/Documents/GitHub/Penske/Penske/corpus\Penske_4.txt'
## [[1]]
## [1] "i»Blood all over the inside of one of the two trucks I rented! I reserved two trucks one of the
## [2] "
## [3] "..... I told the manager that he needed to come out and look at the back of this truck and he d
##
## [[2]]
## [1] "i»I had made a Penske truck rental reservation for August 31st at Home Depot so that I could l
## [2] ""
## [3] "When my wife and I arrived at the appointed time, we were informed by Home Depot employees tha
## [4] ""
## [5] "After hanging up, the Home Depot employee informed us that Penske had not only over-booked a s
## [6] ""
## [7] "The result to me and my family was not pleasant, and had far reaching effects on friends and f
## [8] ""
## [9] "The effects have also, unfortunately, spilled over to my relationship with Home Depot. In the
## [10] ""
## [11] "You may ask, why am I angry with Home Depot? After all, they weren't the ones who let me and my
##
## [[3]]
## [1] "i»My wife and I were recently married, and decided to move across the country from Sonoma CA to
```

```
## [2] ""
## [3] "We pulled over to inspect the damage and found that the plexiglass had actually hit corner first
##
## [[4]]
## [1] "i»My husband and I rented a 15 ft truck from Penske in Bakersfield, CA. On 11/2/03 at 4:15 am
## [2] ""
## [3] "Meanwhile large trucks were passing on our right, cars on the left, trying to avoid hitting us
## [4] ""
## [5] "We stood out in 30 degree freezing temperatures and waved by oncoming traffic to avoid hitting
## [6] ""
## [7] "Thirty minutes after the CHP officer arrived the tow truck came. We were so relieved to get the
## [8] ""
## [9] "When we arrived we were told that \"we are not responsible for the contents of the truck\". I
## [10] ""
## [11] "The manager told me they opened the back of the truck so I have no idea if everything is still
## [12] ""
## [13] "We feel that we were put into an unsafe vehicle. We were lucky that we walked away. Others in
## [14] ""
## [15] "Evelyn"
## [16] "Bakersfield, California"
## [17] "U.S.A."
```

## Assign a new vector to filelistA

```
filelistA <- lapply(filelist, FUN=readLines)
```

```
## Warning in FUN(X[[i]], ...): incomplete final line found on 'C:/Users/
## narce/OneDrive/Documents/GitHub/Penske/Penske/corpus\Penske_1.txt'
## Warning in FUN(X[[i]], ...): incomplete final line found on 'C:/Users/
## narce/OneDrive/Documents/GitHub/Penske/Penske/corpus\Penske_2.txt'
## Warning in FUN(X[[i]], ...): incomplete final line found on 'C:/Users/
## narce/OneDrive/Documents/GitHub/Penske/Penske/corpus\Penske_3.txt'
## Warning in FUN(X[[i]], ...): incomplete final line found on 'C:/Users/
## narce/OneDrive/Documents/GitHub/Penske/Penske/corpus\Penske_4.txt'
```

```
lapply(filelistA, FUN = paste, collapse=" ")
```

```
## [[1]]
## [1] "i»Blood all over the inside of one of the two trucks I rented! I reserved two trucks one of the
##
## [[2]]
## [1] "i»I had made a Penske truck rental reservation for August 31st at Home Depot so that I could h
##
## [[3]]
## [1] "i»My wife and I were recently married, and decided to move across the country from Sonoma CA to
##
## [[4]]
## [1] "i»My husband and I rented a 15 ft truck from Penske in Bakersfield, CA. On 11/2/03 at 4:15 am v
corpus <-lapply(filelistA, FUN = paste, collapse=" ")
```

```
corpus
```

```
## [[1]]
## [1] "i»_Blood all over the inside of one of the two trucks I rented! I reserved two trucks one of the
##
## [[2]]
## [1] "i»_I had made a Penske truck rental reservation for August 31st at Home Depot so that I could h
##
## [[3]]
## [1] "i»_My wife and I were recently married, and decided to move across the country from Sonoma CA t
##
## [[4]]
## [1] "i»_My husband and I rented a 15 ft truck from Penske in Bakersfield, CA. On 11/2/03 at 4:15 am v
```

## Removes punctuations

```
corpus2 <- gsub(pattern = "\\W", replace=" ", corpus)
```

## Removes numbers

```
corpus2 <- gsub(pattern = "\\d", replacement = " ", corpus2)
```

## Makes text lowercase

```
corpus2<-tolower(corpus2)
```

## Removes stopwords (and, the, a...)

```
corpus2 <- removeWords(corpus2, stopwords("english"))
```

## Removes single character text

```
corpus2 < gsub(pattern = "\\b[A-z]\\b{1}", replace=" ", corpus2)
```

```
## [1] FALSE FALSE FALSE FALSE
```

## Removes white space

```
corpus2 <- stripWhitespace(corpus2)
```

```
wordcloud(corpus2, colors = rainbow(3))
```



```
##      Length Class          Mode
## 1 2      PlainTextDocument list
## 2 2      PlainTextDocument list
## 3 2      PlainTextDocument list
## 4 2      PlainTextDocument list
```

```
## <<TermDocumentMatrix (terms: 536, documents: 4)>>
## Non-/sparse entries: 654/1490
## Sparsity           : 69%
## Maximal term length: 14
```

```
## Weighting          : term frequency (tf)
```

## Creates the matrix

```
as.matrix(tdm)
```

```
##              Docs
## Terms        1  2 3  4
##  able         1  0 1  0
##  almost       1  0 0  0
##  also         1  1 0  0
##  another      2  1 0  0
##  asked        1  1 1  2
##  asking       1  0 0  0
##  atleast      1  0 0  0
##  back         3  0 2  2
##  believe      1  0 0  0
##  biohazard    1  0 0  0
##  blood        2  0 0  0
##  call         1  1 2  0
##  called       1  1 1  1
##  care         1  0 0  0
##  cargo        1  0 0  0
##  claimed      1  0 0  0
##  clean        1  0 0  0
##  come         1  0 0  0
##  coming       1  0 0  0
##  compared     1  0 0  0
##  completely   1  0 0  0
##  conclusions  1  0 0  0
##  condition    1  0 0  0
##  contracted   1  0 0  0
##  copy         1  0 0  0
##  corporate    1  0 0  0
##  crime        1  0 0  0
##  dark         1  0 0  0
##  date         2  0 0  0
##  didn        1  0 0  0
##  different    1  0 0  0
##  dirty        3  0 0  0
##  discrepancy  2  0 0  0
##  done         1  1 0  1
##  drop         1  0 1  0
##  drove        1  0 1  0
##  ended        1  0 0  0
##  exposed      1  0 0  0
##  falsified    1  0 0  0
##  feet         1  0 0  0
##  figure       1  0 0  0
##  first        3  2 1  0
##  flabbergasted 1  0 0  0
##  get          2  2 0  1
```

##	got	2	0	0	1
##	happened	2	0	0	1
##	happy	1	0	0	0
##	hauling	1	0	0	0
##	inside	1	0	0	0
##	intention	1	0	0	1
##	lab	2	0	0	0
##	last	2	1	0	0
##	light	1	0	0	0
##	like	1	0	0	0
##	literally	1	0	0	0
##	loaded	3	0	0	0
##	location	2	0	0	0
##	look	1	0	0	0
##	looked	1	0	0	0
##	loss	1	0	0	0
##	lost	1	0	0	0
##	manager	2	0	0	1
##	massacre	1	0	0	0
##	mexico	1	0	0	0
##	missouri	1	0	0	0
##	months	2	0	0	0
##	morning	1	0	3	0
##	needed	2	0	0	0
##	new	1	0	0	0
##	nothing	1	0	0	1
##	noticed	2	0	0	0
##	one	2	2	0	1
##	paid	1	0	0	0
##	picked	1	0	0	0
##	pictures	1	0	1	0
##	police	2	0	0	0
##	rented	1	0	0	1
##	report	3	0	0	0
##	reports	2	0	0	0
##	reservations	1	2	0	0
##	reserved	1	0	0	0
##	rest	1	0	0	0
##	rolling	1	0	0	0
##	said	1	1	0	0
##	scene	1	0	0	0
##	second	1	1	0	1
##	see	1	0	3	0
##	sent	1	0	0	1
##	side	1	0	1	1
##	since	1	2	0	0
##	six	2	0	0	0
##	someone	1	0	0	0
##	something	1	0	2	0
##	spent	2	1	1	0
##	spot	1	0	0	0
##	spots	1	0	0	0
##	stain	1	0	0	0
##	straight	1	0	3	0

##	sun	1	0	0	0
##	taken	1	0	0	0
##	talking	1	0	0	0
##	thought	3	0	0	0
##	time	3	4	0	0
##	tires	2	0	0	0
##	told	2	2	2	2
##	tomorrow	1	0	0	0
##	took	1	0	1	0
##	truck	15	5	5	14
##	trucks	2	0	0	2
##	trying	1	0	0	1
##	two	3	2	0	1
##	unloaded	2	0	0	0
##	unloading	1	0	1	0
##	use	1	0	0	0
##	wasn	1	1	0	0
##	went	2	0	1	1
##	wondering	1	0	0	1
##	words	1	0	0	0
##	accepted	0	1	0	0
##	affairs	0	1	0	0
##	agreed	0	1	0	0
##	angry	0	1	0	0
##	answer	0	1	0	0
##	anyone	0	1	0	0
##	anything	0	1	0	0
##	apartment	0	1	0	0
##	apparently	0	1	0	0
##	appointed	0	1	0	0
##	arrangements	0	1	0	0
##	arrive	0	1	0	0
##	arrived	0	1	1	2
##	ask	0	1	2	0
##	august	0	3	0	0
##	authorized	0	1	0	0
##	available	0	1	0	0
##	avoid	0	1	0	3
##	beginning	0	2	0	0
##	boasts	0	1	0	0
##	booked	0	2	0	0
##	business	0	4	0	0
##	busy	0	1	0	0
##	calls	0	1	0	0
##	can	0	3	0	0
##	cancelled	0	1	0	0
##	card	0	1	0	0
##	carpeting	0	1	0	0
##	center	0	1	0	0
##	choice	0	1	0	0
##	clear	0	1	0	0
##	close	0	1	0	0
##	common	0	1	0	0
##	company	0	1	0	1



##	confirm	0	3	0	0
##	consequence	0	1	0	0
##	consumer	0	1	0	0
##	convince	0	1	0	0
##	cost	0	2	0	0
##	credit	0	1	0	0
##	customer	0	1	0	0
##	daughter	0	1	0	0
##	day	0	4	0	0
##	deal	0	1	1	0
##	decision	0	1	0	0
##	depot	0	12	0	0
##	display	0	1	0	0
##	earlier	0	1	0	0
##	early	0	1	1	0
##	earn	0	1	0	0
##	effects	0	5	0	0
##	either	0	1	1	0
##	else	0	1	0	0
##	employee	0	2	0	0
##	employees	0	1	0	0
##	end	0	1	0	0
##	entire	0	1	0	0
##	even	0	1	0	0
##	ever	0	2	0	1
##	every	0	1	0	0
##	everyone	0	1	0	0
##	explanation	0	1	0	0
##	extent	0	1	0	0
##	fact	0	2	0	0
##	failure	0	1	0	0
##	family	0	3	0	0
##	far	0	1	0	1
##	financially	0	1	0	0
##	framingham	0	1	0	0
##	frankly	0	1	0	0
##	friends	0	2	0	0
##	future	0	1	0	0
##	generating	0	1	0	0
##	getting	0	1	0	0
##	give	0	1	0	0
##	gone	0	1	0	0
##	good	0	1	0	0
##	guarantee	0	1	0	0
##	hadn	0	1	0	0
##	hanging	0	1	0	0
##	help	0	1	0	0
##	home	0	13	1	1
##	hope	0	1	0	0
##	immediate	0	1	0	0
##	improvement	0	1	0	0
##	income	0	1	0	0
##	inform	0	1	0	0
##	informed	0	3	0	0

##	installation	0	1	0	0
##	intentionally	0	1	0	0
##	just	0	1	0	0
##	keep	0	1	0	0
##	known	0	1	0	0
##	labor	0	1	0	0
##	let	0	1	0	0
##	likewise	0	1	0	0
##	live	0	1	0	0
##	long	0	2	1	0
##	lowes	0	2	0	0
##	loyalty	0	1	0	0
##	lurch	0	1	0	0
##	made	0	1	0	0
##	make	0	2	0	0
##	making	0	3	0	0
##	many	0	1	0	0
##	may	0	1	0	1
##	meet	0	2	0	0
##	minutes	0	1	0	3
##	month	0	1	0	0
##	move	0	1	2	0
##	name	0	2	0	0
##	negative	0	2	0	0
##	never	0	1	0	0
##	next	0	1	1	0
##	nine	0	1	0	0
##	now	0	1	1	0
##	number	0	2	1	0
##	obligations	0	2	0	0
##	offer	0	1	0	0
##	offered	0	2	0	0
##	office	0	2	0	0
##	ones	0	1	0	0
##	order	0	1	0	0
##	others	0	1	0	1
##	partnership	0	2	0	0
##	partnerships	0	1	0	0
##	passed	0	1	1	0
##	past	0	2	0	0
##	penske	0	12	3	3
##	people	0	1	1	0
##	person	0	3	0	0
##	pick	0	1	1	1
##	planned	0	1	0	0
##	planning	0	1	0	0
##	pleasant	0	1	0	0
##	point	0	1	0	1
##	post	0	1	0	0
##	prior	0	1	0	0
##	proudly	0	1	0	0
##	purchased	0	1	1	0
##	purchases	0	1	0	0
##	rain	0	1	0	0

##	reaching	0	1	0	0
##	realizes	0	1	0	0
##	received	0	1	0	0
##	relationship	0	1	0	0
##	relatives	0	1	0	0
##	rental	0	7	0	3
##	reservation	0	3	0	0
##	response	0	1	2	0
##	result	0	1	0	0
##	right	0	1	1	2
##	roads	0	1	0	0
##	rooms	0	1	0	0
##	say	0	2	0	1
##	saying	0	1	0	0
##	scheduled	0	1	0	0
##	shortly	0	1	0	0
##	show	0	1	0	0
##	significant	0	1	0	0
##	simple	0	1	0	0
##	soaked	0	1	1	0
##	sonny	0	1	0	0
##	spilled	0	1	0	0
##	still	0	1	0	2
##	stood	0	1	0	2
##	strategy	0	1	0	0
##	supplied	0	1	0	0
##	tell	0	1	0	0
##	thing	0	1	1	1
##	though	0	1	1	0
##	today	0	1	0	0
##	unable	0	1	0	0
##	unfortunately	0	1	0	0
##	vehicles	0	1	1	0
##	weekend	0	3	0	0
##	weekends	0	1	0	0
##	weren	0	1	0	0
##	wife	0	3	2	0
##	will	0	4	0	0
##	wise	0	1	0	0
##	wouldn	0	1	0	0
##	years	0	1	1	0
##	across	0	0	1	0
##	actually	0	0	1	0
##	ahead	0	0	1	0
##	alive	0	0	1	0
##	anyway	0	0	1	0
##	based	0	0	1	0
##	bed	0	0	4	0
##	behind	0	0	1	2
##	big	0	0	2	0
##	box	0	0	1	0
##	bumper	0	0	2	0
##	came	0	0	1	2
##	car	0	0	2	1

##	cars	0	0	1	2
##	caused	0	0	1	1
##	chicago	0	0	1	0
##	claim	0	0	2	0
##	claims	0	0	1	0
##	closer	0	0	1	0
##	conclusion	0	0	1	0
##	continuing	0	0	1	0
##	corner	0	0	1	0
##	corperate	0	0	1	0
##	country	0	0	1	0
##	cover	0	0	2	0
##	coverage	0	0	1	0
##	covered	0	0	1	0
##	covering	0	0	1	0
##	created	0	0	1	0
##	damage	0	0	3	0
##	damages	0	0	4	0
##	decided	0	0	1	0
##	directly	0	0	1	0
##	don	0	0	1	0
##	draft	0	0	1	0
##	due	0	0	1	0
##	east	0	0	1	0
##	eff	0	0	1	0
##	emptying	0	0	1	0
##	enough	0	0	1	0
##	filing	0	0	1	0
##	find	0	0	1	0
##	finished	0	0	1	0
##	flat	0	0	1	0
##	foot	0	0	1	0
##	found	0	0	1	0
##	front	0	0	1	0
##	full	0	0	2	0
##	gave	0	0	1	0
##	going	0	0	1	1
##	grill	0	0	1	0
##	guess	0	0	1	0
##	happen	0	0	1	0
##	heading	0	0	1	0
##	hit	0	0	1	1
##	hitting	0	0	1	3
##	hmmmmm	0	0	1	0
##	hood	0	0	1	0
##	horror	0	0	1	1
##	hour	0	0	1	0
##	hurl	0	0	1	0
##	immediately	0	0	1	2
##	incidents	0	0	1	0
##	includes	0	0	1	0
##	inspect	0	0	1	0
##	insurance	0	0	3	0
##	issues	0	0	1	0

##	kind	0	0	1	0
##	knowing	0	0	1	0
##	lane	0	0	1	2
##	larrge	0	0	1	0
##	laying	0	0	3	0
##	leaving	0	0	1	0
##	little	0	0	1	0
##	log	0	0	1	0
##	lot	0	0	1	0
##	luckily	0	0	1	0
##	lucky	0	0	1	2
##	married	0	0	1	0
##	mass	0	0	1	0
##	mattress	0	0	1	0
##	mirror	0	0	1	0
##	night	0	0	1	0
##	none	0	0	1	0
##	object	0	0	1	0
##	old	0	0	1	0
##	outright	0	0	1	0
##	packag	0	0	1	0
##	package	0	0	1	0
##	parents	0	0	1	0
##	party	0	0	2	0
##	path	0	0	1	0
##	pay	0	0	1	0
##	pefore	0	0	1	0
##	pics	0	0	1	0
##	piece	0	0	2	0
##	pig	0	0	1	0
##	plexiglass	0	0	3	0
##	pool	0	0	1	0
##	pulled	0	0	1	0
##	purchase	0	0	1	0
##	quote	0	0	1	0
##	really	0	0	2	0
##	rear	0	0	1	0
##	receipt	0	0	3	0
##	recently	0	0	1	0
##	redwood	0	0	1	0
##	refusing	0	0	1	0
##	responsible	0	0	1	1
##	roadway	0	0	3	0
##	rush	0	0	1	0
##	screws	0	0	1	0
##	send	0	0	1	0
##	sheer	0	0	1	0
##	shining	0	0	1	0
##	sir	0	0	1	0
##	site	0	0	1	0
##	sonoma	0	0	1	0
##	spinning	0	0	1	0
##	splintered	0	0	1	0
##	split	0	0	1	0

##	spotted	0	0	1	0
##	spring	0	0	1	0
##	surprise	0	0	1	0
##	telling	0	0	1	0
##	thanks	0	0	1	0
##	third	0	0	2	0
##	top	0	0	1	0
##	traffic	0	0	2	0
##	truckand	0	0	1	0
##	understandable	0	0	1	0
##	upon	0	0	1	0
##	view	0	0	1	0
##	waking	0	0	1	0
##	watched	0	0	1	1
##	water	0	0	1	0
##	weel	0	0	1	0
##	wifes	0	0	1	0
##	windshield	0	0	1	0
##	yet	0	0	1	0
##	abrupt	0	0	0	1
##	accident	0	0	0	1
##	alerted	0	0	0	1
##	approached	0	0	0	1
##	avoided	0	0	0	1
##	away	0	0	0	1
##	bakersfield	0	0	0	3
##	bearing	0	0	0	1
##	black	0	0	0	1
##	broken	0	0	0	1
##	busiest	0	0	0	1
##	california	0	0	0	2
##	charging	0	0	0	1
##	children	0	0	0	1
##	chp	0	0	0	3
##	cold	0	0	0	1
##	contents	0	0	0	2
##	degree	0	0	0	1
##	demand	0	0	0	1
##	die	0	0	0	1
##	differential	0	0	0	1
##	emergency	0	0	0	1
##	evelyn	0	0	0	1
##	everything	0	0	0	1
##	except	0	0	0	1
##	exit	0	0	0	1
##	experiencing	0	0	0	1
##	fatal	0	0	0	1
##	feel	0	0	0	1
##	finally	0	0	0	1
##	flares	0	0	0	1
##	flashers	0	0	0	1
##	freeways	0	0	0	1
##	freezing	0	0	0	1
##	frightening	0	0	0	1

##	frozen	0	0	0	1
##	god	0	0	0	1
##	grandchildren	0	0	0	1
##	grapevine	0	0	0	1
##	headed	0	0	0	1
##	hours	0	0	0	1
##	hurried	0	0	0	1
##	husband	0	0	0	4
##	idea	0	0	0	1
##	intend	0	0	0	1
##	interstate	0	0	0	1
##	items	0	0	0	1
##	killed	0	0	0	1
##	know	0	0	0	1
##	large	0	0	0	1
##	later	0	0	0	1
##	left	0	0	0	2
##	meanwhile	0	0	0	1
##	middle	0	0	0	2
##	mile	0	0	0	1
##	multiple	0	0	0	1
##	near	0	0	0	1
##	nearly	0	0	0	1
##	needless	0	0	0	1
##	officer	0	0	0	2
##	oncoming	0	0	0	1
##	onto	0	0	0	1
##	opened	0	0	0	1
##	parked	0	0	0	1
##	passing	0	0	0	1
##	pitch	0	0	0	1
##	placed	0	0	0	1
##	practically	0	0	0	1
##	prayed	0	0	0	1
##	put	0	0	0	2
##	reimbursing	0	0	0	1
##	relieved	0	0	0	1
##	road	0	0	0	4
##	sake	0	0	0	1
##	sat	0	0	0	2
##	semi	0	0	0	1
##	several	0	0	0	1
##	shoulder	0	0	0	2
##	showed	0	0	0	1
##	situation	0	0	0	1
##	standing	0	0	0	1
##	state	0	0	0	1
##	stop	0	0	0	1
##	swerved	0	0	0	1
##	take	0	0	0	1
##	temperatures	0	0	0	1
##	thirty	0	0	0	1
##	tow	0	0	0	4
##	traffice	0	0	0	1

```
##    twenty      0  0  0  1
##    unsafe      0  0  0  1
##    vehicle     0  0  0  4
##    walked     0  0  0  1
##    waved      0  0  0  1
##    worst      0  0  0  1
```

```
viewmatrix <- as.matrix(tdm)
```

Changes the names of the columns (Read1 = Reading, PA, Malb = Malborough, MA, Read2 - Reading, PA, Baker = Bakersfield, CA)

```
colnames(viewmatrix) <- c("Read1", "Malb", "Read2", "Baker")
viewmatrix
```

```
##              Docs
## Terms      Read1 Malb Read2 Baker
## able             1   0     1     0
## almost           1   0     0     0
## also             1   1     0     0
## another          2   1     0     0
## asked            1   1     1     2
## asking           1   0     0     0
## atleast          1   0     0     0
## back             3   0     2     2
## believe          1   0     0     0
## biohazard        1   0     0     0
## blood            2   0     0     0
## call             1   1     2     0
## called           1   1     1     1
## care             1   0     0     0
## cargo            1   0     0     0
## claimed          1   0     0     0
## clean            1   0     0     0
## come             1   0     0     0
## coming           1   0     0     0
## compared         1   0     0     0
## completely       1   0     0     0
## conclusions      1   0     0     0
## condition        1   0     0     0
## contracted       1   0     0     0
## copy             1   0     0     0
## corporate        1   0     0     0
## crime            1   0     0     0
## dark             1   0     0     0
## date             2   0     0     0
## didn            1   0     0     0
## different        1   0     0     0
## dirty            3   0     0     0
## discrepancy      2   0     0     0
## done             1   1     0     1
```



##	drop	1	0	1	0
##	drove	1	0	1	0
##	ended	1	0	0	0
##	exposed	1	0	0	0
##	falsified	1	0	0	0
##	feet	1	0	0	0
##	figure	1	0	0	0
##	first	3	2	1	0
##	flabbergasted	1	0	0	0
##	get	2	2	0	1
##	got	2	0	0	1
##	happened	2	0	0	1
##	happy	1	0	0	0
##	hauling	1	0	0	0
##	inside	1	0	0	0
##	intention	1	0	0	1
##	lab	2	0	0	0
##	last	2	1	0	0
##	light	1	0	0	0
##	like	1	0	0	0
##	literally	1	0	0	0
##	loaded	3	0	0	0
##	location	2	0	0	0
##	look	1	0	0	0
##	looked	1	0	0	0
##	loss	1	0	0	0
##	lost	1	0	0	0
##	manager	2	0	0	1
##	massacre	1	0	0	0
##	mexico	1	0	0	0
##	missouri	1	0	0	0
##	months	2	0	0	0
##	morning	1	0	3	0
##	needed	2	0	0	0
##	new	1	0	0	0
##	nothing	1	0	0	1
##	noticed	2	0	0	0
##	one	2	2	0	1
##	paid	1	0	0	0
##	picked	1	0	0	0
##	pictures	1	0	1	0
##	police	2	0	0	0
##	rented	1	0	0	1
##	report	3	0	0	0
##	reports	2	0	0	0
##	reservations	1	2	0	0
##	reserved	1	0	0	0
##	rest	1	0	0	0
##	rolling	1	0	0	0
##	said	1	1	0	0
##	scene	1	0	0	0
##	second	1	1	0	1
##	see	1	0	3	0
##	sent	1	0	0	1

##	side	1	0	1	1
##	since	1	2	0	0
##	six	2	0	0	0
##	someone	1	0	0	0
##	something	1	0	2	0
##	spent	2	1	1	0
##	spot	1	0	0	0
##	spots	1	0	0	0
##	stain	1	0	0	0
##	straight	1	0	3	0
##	sun	1	0	0	0
##	taken	1	0	0	0
##	talking	1	0	0	0
##	thought	3	0	0	0
##	time	3	4	0	0
##	tires	2	0	0	0
##	told	2	2	2	2
##	tomorrow	1	0	0	0
##	took	1	0	1	0
##	truck	15	5	5	14
##	trucks	2	0	0	2
##	trying	1	0	0	1
##	two	3	2	0	1
##	unloaded	2	0	0	0
##	unloading	1	0	1	0
##	use	1	0	0	0
##	wasn	1	1	0	0
##	went	2	0	1	1
##	wondering	1	0	0	1
##	words	1	0	0	0
##	accepted	0	1	0	0
##	affairs	0	1	0	0
##	agreed	0	1	0	0
##	angry	0	1	0	0
##	answer	0	1	0	0
##	anyone	0	1	0	0
##	anything	0	1	0	0
##	apartment	0	1	0	0
##	apparently	0	1	0	0
##	appointed	0	1	0	0
##	arrangements	0	1	0	0
##	arrive	0	1	0	0
##	arrived	0	1	1	2
##	ask	0	1	2	0
##	august	0	3	0	0
##	authorized	0	1	0	0
##	available	0	1	0	0
##	avoid	0	1	0	3
##	beginning	0	2	0	0
##	boasts	0	1	0	0
##	booked	0	2	0	0
##	business	0	4	0	0
##	busy	0	1	0	0
##	calls	0	1	0	0

##	can	0	3	0	0
##	cancelled	0	1	0	0
##	card	0	1	0	0
##	carpeting	0	1	0	0
##	center	0	1	0	0
##	choice	0	1	0	0
##	clear	0	1	0	0
##	close	0	1	0	0
##	common	0	1	0	0
##	company	0	1	0	1
##	confirm	0	3	0	0
##	consequence	0	1	0	0
##	consumer	0	1	0	0
##	convince	0	1	0	0
##	cost	0	2	0	0
##	credit	0	1	0	0
##	customer	0	1	0	0
##	daughter	0	1	0	0
##	day	0	4	0	0
##	deal	0	1	1	0
##	decision	0	1	0	0
##	depot	0	12	0	0
##	display	0	1	0	0
##	earlier	0	1	0	0
##	early	0	1	1	0
##	earn	0	1	0	0
##	effects	0	5	0	0
##	either	0	1	1	0
##	else	0	1	0	0
##	employee	0	2	0	0
##	employees	0	1	0	0
##	end	0	1	0	0
##	entire	0	1	0	0
##	even	0	1	0	0
##	ever	0	2	0	1
##	every	0	1	0	0
##	everyone	0	1	0	0
##	explanation	0	1	0	0
##	extent	0	1	0	0
##	fact	0	2	0	0
##	failure	0	1	0	0
##	family	0	3	0	0
##	far	0	1	0	1
##	financially	0	1	0	0
##	framingham	0	1	0	0
##	frankly	0	1	0	0
##	friends	0	2	0	0
##	future	0	1	0	0
##	generating	0	1	0	0
##	getting	0	1	0	0
##	give	0	1	0	0
##	gone	0	1	0	0
##	good	0	1	0	0
##	guarantee	0	1	0	0

##	hadn	0	1	0	0
##	hanging	0	1	0	0
##	help	0	1	0	0
##	home	0	13	1	1
##	hope	0	1	0	0
##	immediate	0	1	0	0
##	improvement	0	1	0	0
##	income	0	1	0	0
##	inform	0	1	0	0
##	informed	0	3	0	0
##	installation	0	1	0	0
##	intentionally	0	1	0	0
##	just	0	1	0	0
##	keep	0	1	0	0
##	known	0	1	0	0
##	labor	0	1	0	0
##	let	0	1	0	0
##	likewise	0	1	0	0
##	live	0	1	0	0
##	long	0	2	1	0
##	lowes	0	2	0	0
##	loyalty	0	1	0	0
##	lurch	0	1	0	0
##	made	0	1	0	0
##	make	0	2	0	0
##	making	0	3	0	0
##	many	0	1	0	0
##	may	0	1	0	1
##	meet	0	2	0	0
##	minutes	0	1	0	3
##	month	0	1	0	0
##	move	0	1	2	0
##	name	0	2	0	0
##	negative	0	2	0	0
##	never	0	1	0	0
##	next	0	1	1	0
##	nine	0	1	0	0
##	now	0	1	1	0
##	number	0	2	1	0
##	obligations	0	2	0	0
##	offer	0	1	0	0
##	offered	0	2	0	0
##	office	0	2	0	0
##	ones	0	1	0	0
##	order	0	1	0	0
##	others	0	1	0	1
##	partnership	0	2	0	0
##	partnerships	0	1	0	0
##	passed	0	1	1	0
##	past	0	2	0	0
##	penske	0	12	3	3
##	people	0	1	1	0
##	person	0	3	0	0
##	pick	0	1	1	1

##	planned	0	1	0	0
##	planning	0	1	0	0
##	pleasant	0	1	0	0
##	point	0	1	0	1
##	post	0	1	0	0
##	prior	0	1	0	0
##	proudly	0	1	0	0
##	purchased	0	1	1	0
##	purchases	0	1	0	0
##	rain	0	1	0	0
##	reaching	0	1	0	0
##	realizes	0	1	0	0
##	received	0	1	0	0
##	relationship	0	1	0	0
##	relatives	0	1	0	0
##	rental	0	7	0	3
##	reservation	0	3	0	0
##	response	0	1	2	0
##	result	0	1	0	0
##	right	0	1	1	2
##	roads	0	1	0	0
##	rooms	0	1	0	0
##	say	0	2	0	1
##	saying	0	1	0	0
##	scheduled	0	1	0	0
##	shortly	0	1	0	0
##	show	0	1	0	0
##	significant	0	1	0	0
##	simple	0	1	0	0
##	soaked	0	1	1	0
##	sonny	0	1	0	0
##	spilled	0	1	0	0
##	still	0	1	0	2
##	stood	0	1	0	2
##	strategy	0	1	0	0
##	supplied	0	1	0	0
##	tell	0	1	0	0
##	thing	0	1	1	1
##	though	0	1	1	0
##	today	0	1	0	0
##	unable	0	1	0	0
##	unfortunately	0	1	0	0
##	vehicles	0	1	1	0
##	weekend	0	3	0	0
##	weekends	0	1	0	0
##	weren	0	1	0	0
##	wife	0	3	2	0
##	will	0	4	0	0
##	wise	0	1	0	0
##	wouldn	0	1	0	0
##	years	0	1	1	0
##	across	0	0	1	0
##	actually	0	0	1	0
##	ahead	0	0	1	0

##	alive	0	0	1	0
##	anyway	0	0	1	0
##	based	0	0	1	0
##	bed	0	0	4	0
##	behind	0	0	1	2
##	big	0	0	2	0
##	box	0	0	1	0
##	bumper	0	0	2	0
##	came	0	0	1	2
##	car	0	0	2	1
##	cars	0	0	1	2
##	caused	0	0	1	1
##	chicago	0	0	1	0
##	claim	0	0	2	0
##	claims	0	0	1	0
##	closer	0	0	1	0
##	conclusion	0	0	1	0
##	continuing	0	0	1	0
##	corner	0	0	1	0
##	corperate	0	0	1	0
##	country	0	0	1	0
##	cover	0	0	2	0
##	coverage	0	0	1	0
##	covered	0	0	1	0
##	covering	0	0	1	0
##	created	0	0	1	0
##	damage	0	0	3	0
##	damages	0	0	4	0
##	decided	0	0	1	0
##	directly	0	0	1	0
##	don	0	0	1	0
##	draft	0	0	1	0
##	due	0	0	1	0
##	east	0	0	1	0
##	eff	0	0	1	0
##	emptying	0	0	1	0
##	enough	0	0	1	0
##	filing	0	0	1	0
##	find	0	0	1	0
##	finished	0	0	1	0
##	flat	0	0	1	0
##	foot	0	0	1	0
##	found	0	0	1	0
##	front	0	0	1	0
##	full	0	0	2	0
##	gave	0	0	1	0
##	going	0	0	1	1
##	grill	0	0	1	0
##	guess	0	0	1	0
##	happen	0	0	1	0
##	heading	0	0	1	0
##	hit	0	0	1	1
##	hitting	0	0	1	3
##	hmmmmm	0	0	1	0

##	hood	0	0	1	0
##	horror	0	0	1	1
##	hour	0	0	1	0
##	hurl	0	0	1	0
##	immediately	0	0	1	2
##	incidents	0	0	1	0
##	includes	0	0	1	0
##	inspect	0	0	1	0
##	insurance	0	0	3	0
##	issues	0	0	1	0
##	kind	0	0	1	0
##	knowing	0	0	1	0
##	lane	0	0	1	2
##	larrge	0	0	1	0
##	laying	0	0	3	0
##	leaving	0	0	1	0
##	little	0	0	1	0
##	log	0	0	1	0
##	lot	0	0	1	0
##	luckily	0	0	1	0
##	lucky	0	0	1	2
##	married	0	0	1	0
##	mass	0	0	1	0
##	mattress	0	0	1	0
##	mirror	0	0	1	0
##	night	0	0	1	0
##	none	0	0	1	0
##	object	0	0	1	0
##	old	0	0	1	0
##	outright	0	0	1	0
##	packag	0	0	1	0
##	package	0	0	1	0
##	parents	0	0	1	0
##	party	0	0	2	0
##	path	0	0	1	0
##	pay	0	0	1	0
##	pefore	0	0	1	0
##	pics	0	0	1	0
##	piece	0	0	2	0
##	pig	0	0	1	0
##	plexiglass	0	0	3	0
##	pool	0	0	1	0
##	pulled	0	0	1	0
##	purchase	0	0	1	0
##	quote	0	0	1	0
##	really	0	0	2	0
##	rear	0	0	1	0
##	receipt	0	0	3	0
##	recently	0	0	1	0
##	redwood	0	0	1	0
##	refusing	0	0	1	0
##	responsible	0	0	1	1
##	roadway	0	0	3	0
##	rush	0	0	1	0

##	screws	0	0	1	0
##	send	0	0	1	0
##	sheer	0	0	1	0
##	shining	0	0	1	0
##	sir	0	0	1	0
##	site	0	0	1	0
##	sonoma	0	0	1	0
##	spinning	0	0	1	0
##	splintered	0	0	1	0
##	split	0	0	1	0
##	spotted	0	0	1	0
##	spring	0	0	1	0
##	surprise	0	0	1	0
##	telling	0	0	1	0
##	thanks	0	0	1	0
##	third	0	0	2	0
##	top	0	0	1	0
##	traffic	0	0	2	0
##	truckand	0	0	1	0
##	understandable	0	0	1	0
##	upon	0	0	1	0
##	view	0	0	1	0
##	waking	0	0	1	0
##	watched	0	0	1	1
##	water	0	0	1	0
##	weel	0	0	1	0
##	wifes	0	0	1	0
##	windshield	0	0	1	0
##	yet	0	0	1	0
##	abrupt	0	0	0	1
##	accident	0	0	0	1
##	alerted	0	0	0	1
##	approached	0	0	0	1
##	avoided	0	0	0	1
##	away	0	0	0	1
##	bakersfield	0	0	0	3
##	bearing	0	0	0	1
##	black	0	0	0	1
##	broken	0	0	0	1
##	busiest	0	0	0	1
##	california	0	0	0	2
##	charging	0	0	0	1
##	children	0	0	0	1
##	chp	0	0	0	3
##	cold	0	0	0	1
##	contents	0	0	0	2
##	degree	0	0	0	1
##	demand	0	0	0	1
##	die	0	0	0	1
##	differential	0	0	0	1
##	emergency	0	0	0	1
##	evelyn	0	0	0	1
##	everything	0	0	0	1
##	except	0	0	0	1



##	exit	0	0	0	1
##	experiencing	0	0	0	1
##	fatal	0	0	0	1
##	feel	0	0	0	1
##	finally	0	0	0	1
##	flares	0	0	0	1
##	flashers	0	0	0	1
##	freeways	0	0	0	1
##	freezing	0	0	0	1
##	frightening	0	0	0	1
##	frozen	0	0	0	1
##	god	0	0	0	1
##	grandchildren	0	0	0	1
##	grapevine	0	0	0	1
##	headed	0	0	0	1
##	hours	0	0	0	1
##	hurried	0	0	0	1
##	husband	0	0	0	4
##	idea	0	0	0	1
##	intend	0	0	0	1
##	interstate	0	0	0	1
##	items	0	0	0	1
##	killed	0	0	0	1
##	know	0	0	0	1
##	large	0	0	0	1
##	later	0	0	0	1
##	left	0	0	0	2
##	meanwhile	0	0	0	1
##	middle	0	0	0	2
##	mile	0	0	0	1
##	multiple	0	0	0	1
##	near	0	0	0	1
##	nearly	0	0	0	1
##	needless	0	0	0	1
##	officer	0	0	0	2
##	oncoming	0	0	0	1
##	onto	0	0	0	1
##	opened	0	0	0	1
##	parked	0	0	0	1
##	passing	0	0	0	1
##	pitch	0	0	0	1
##	placed	0	0	0	1
##	practically	0	0	0	1
##	prayed	0	0	0	1
##	put	0	0	0	2
##	reimbursing	0	0	0	1
##	relieved	0	0	0	1
##	road	0	0	0	4
##	sake	0	0	0	1
##	sat	0	0	0	2
##	semi	0	0	0	1
##	several	0	0	0	1
##	shoulder	0	0	0	2
##	showed	0	0	0	1

##	situation	0	0	0	1
##	standing	0	0	0	1
##	state	0	0	0	1
##	stop	0	0	0	1
##	swerved	0	0	0	1
##	take	0	0	0	1
##	temperatures	0	0	0	1
##	thirty	0	0	0	1
##	tow	0	0	0	4
##	traffice	0	0	0	1
##	twenty	0	0	0	1
##	unsafe	0	0	0	1
##	vehicle	0	0	0	4
##	walked	0	0	0	1
##	waved	0	0	0	1
##	worst	0	0	0	1

Creates a comparison wordcloud the illustrates the most used term in each of the four documents.

Insight & Analysis - “home depot” stands out in Malb, “truck” and “police” are significant in Read1,

“damages” “insurance” and “roadway” in Read2, while “husband”, “two” and “vehicle” are the prominent terms in Baker.

```
comparison.cloud(viewmatrix)
```

```
## Warning in comparison.cloud(viewmatrix): months could not be fit on page.
## It will not be plotted.

## Warning in comparison.cloud(viewmatrix): needed could not be fit on page.
## It will not be plotted.

## Warning in comparison.cloud(viewmatrix): police could not be fit on page.
## It will not be plotted.

## Warning in comparison.cloud(viewmatrix): reports could not be fit on page.
## It will not be plotted.

## Warning in comparison.cloud(viewmatrix): unloaded could not be fit on page.
## It will not be plotted.

## Warning in comparison.cloud(viewmatrix): last could not be fit on page. It
## will not be plotted.

## Warning in comparison.cloud(viewmatrix): got could not be fit on page. It
## will not be plotted.

## Warning in comparison.cloud(viewmatrix): happened could not be fit on page.
## It will not be plotted.
```

```
## Warning in comparison.cloud(viewmatrix): manager could not be fit on page.  
## It will not be plotted.  
  
## Warning in comparison.cloud(viewmatrix): person could not be fit on page.  
## It will not be plotted.  
  
## Warning in comparison.cloud(viewmatrix): reservation could not be fit on  
## page. It will not be plotted.  
  
## Warning in comparison.cloud(viewmatrix): weekend could not be fit on page.  
## It will not be plotted.  
  
## Warning in comparison.cloud(viewmatrix): spent could not be fit on page. It  
## will not be plotted.  
  
## Warning in comparison.cloud(viewmatrix): went could not be fit on page. It  
## will not be plotted.  
  
## Warning in comparison.cloud(viewmatrix): bumper could not be fit on page.  
## It will not be plotted.  
  
## Warning in comparison.cloud(viewmatrix): really could not be fit on page.  
## It will not be plotted.  
  
## Warning in comparison.cloud(viewmatrix): immediately could not be fit on  
## page. It will not be plotted.  
  
## Warning in comparison.cloud(viewmatrix): get could not be fit on page. It  
## will not be plotted.  
  
## Warning in comparison.cloud(viewmatrix): one could not be fit on page. It  
## will not be plotted.  
  
## Warning in comparison.cloud(viewmatrix): ask could not be fit on page. It  
## will not be plotted.  
  
## Warning in comparison.cloud(viewmatrix): move could not be fit on page. It  
## will not be plotted.  
  
## Warning in comparison.cloud(viewmatrix): response could not be fit on page.  
## It will not be plotted.  
  
## Warning in comparison.cloud(viewmatrix): arrived could not be fit on page.  
## It will not be plotted.  
  
## Warning in comparison.cloud(viewmatrix): right could not be fit on page. It  
## will not be plotted.  
  
## Warning in comparison.cloud(viewmatrix): something could not be fit on  
## page. It will not be plotted.  
  
## Warning in comparison.cloud(viewmatrix): beginning could not be fit on  
## page. It will not be plotted.  
  
## Warning in comparison.cloud(viewmatrix): booked could not be fit on page.  
## It will not be plotted.  
  
## Warning in comparison.cloud(viewmatrix): employee could not be fit on page.  
## It will not be plotted.  
  
## Warning in comparison.cloud(viewmatrix): meet could not be fit on page. It  
## will not be plotted.
```

## Warning in comparison.cloud(viewmatrix): negative could not be fit on page.  
## It will not be plotted.

## Warning in comparison.cloud(viewmatrix): obligations could not be fit on  
## page. It will not be plotted.

## Warning in comparison.cloud(viewmatrix): offered could not be fit on page.  
## It will not be plotted.

## Warning in comparison.cloud(viewmatrix): office could not be fit on page.  
## It will not be plotted.

## Warning in comparison.cloud(viewmatrix): partnership could not be fit on  
## page. It will not be plotted.

## Warning in comparison.cloud(viewmatrix): past could not be fit on page. It  
## will not be plotted.

## Warning in comparison.cloud(viewmatrix): asking could not be fit on page.  
## It will not be plotted.

## Warning in comparison.cloud(viewmatrix): atleast could not be fit on page.  
## It will not be plotted.

## Warning in comparison.cloud(viewmatrix): biohazard could not be fit on  
## page. It will not be plotted.

## Warning in comparison.cloud(viewmatrix): care could not be fit on page. It  
## will not be plotted.

## Warning in comparison.cloud(viewmatrix): cargo could not be fit on page. It  
## will not be plotted.

## Warning in comparison.cloud(viewmatrix): claimed could not be fit on page.  
## It will not be plotted.

## Warning in comparison.cloud(viewmatrix): clean could not be fit on page. It  
## will not be plotted.

## Warning in comparison.cloud(viewmatrix): coming could not be fit on page.  
## It will not be plotted.

## Warning in comparison.cloud(viewmatrix): compared could not be fit on page.  
## It will not be plotted.

## Warning in comparison.cloud(viewmatrix): completely could not be fit on  
## page. It will not be plotted.

## Warning in comparison.cloud(viewmatrix): conclusions could not be fit on  
## page. It will not be plotted.

## Warning in comparison.cloud(viewmatrix): condition could not be fit on  
## page. It will not be plotted.

## Warning in comparison.cloud(viewmatrix): contracted could not be fit on  
## page. It will not be plotted.

## Warning in comparison.cloud(viewmatrix): copy could not be fit on page. It  
## will not be plotted.

## Warning in comparison.cloud(viewmatrix): corporate could not be fit on  
## page. It will not be plotted.

```
## Warning in comparison.cloud(viewmatrix): crime could not be fit on page. It
## will not be plotted.

## Warning in comparison.cloud(viewmatrix): dark could not be fit on page. It
## will not be plotted.

## Warning in comparison.cloud(viewmatrix): didn could not be fit on page. It
## will not be plotted.

## Warning in comparison.cloud(viewmatrix): different could not be fit on
## page. It will not be plotted.

## Warning in comparison.cloud(viewmatrix): ended could not be fit on page. It
## will not be plotted.

## Warning in comparison.cloud(viewmatrix): exposed could not be fit on page.
## It will not be plotted.

## Warning in comparison.cloud(viewmatrix): falsified could not be fit on
## page. It will not be plotted.

## Warning in comparison.cloud(viewmatrix): feet could not be fit on page. It
## will not be plotted.

## Warning in comparison.cloud(viewmatrix): figure could not be fit on page.
## It will not be plotted.

## Warning in comparison.cloud(viewmatrix): flabbergasted could not be fit on
## page. It will not be plotted.

## Warning in comparison.cloud(viewmatrix): happy could not be fit on page. It
## will not be plotted.

## Warning in comparison.cloud(viewmatrix): hauling could not be fit on page.
## It will not be plotted.

## Warning in comparison.cloud(viewmatrix): inside could not be fit on page.
## It will not be plotted.

## Warning in comparison.cloud(viewmatrix): light could not be fit on page. It
## will not be plotted.

## Warning in comparison.cloud(viewmatrix): literally could not be fit on
## page. It will not be plotted.

## Warning in comparison.cloud(viewmatrix): looked could not be fit on page.
## It will not be plotted.

## Warning in comparison.cloud(viewmatrix): loss could not be fit on page. It
## will not be plotted.

## Warning in comparison.cloud(viewmatrix): lost could not be fit on page. It
## will not be plotted.

## Warning in comparison.cloud(viewmatrix): massacre could not be fit on page.
## It will not be plotted.

## Warning in comparison.cloud(viewmatrix): mexico could not be fit on page.
## It will not be plotted.

## Warning in comparison.cloud(viewmatrix): missouri could not be fit on page.
## It will not be plotted.
```

## Warning in comparison.cloud(viewmatrix): new could not be fit on page. It  
## will not be plotted.

## Warning in comparison.cloud(viewmatrix): paid could not be fit on page. It  
## will not be plotted.

## Warning in comparison.cloud(viewmatrix): picked could not be fit on page.  
## It will not be plotted.

## Warning in comparison.cloud(viewmatrix): reserved could not be fit on page.  
## It will not be plotted.

## Warning in comparison.cloud(viewmatrix): rest could not be fit on page. It  
## will not be plotted.

## Warning in comparison.cloud(viewmatrix): rolling could not be fit on page.  
## It will not be plotted.

## Warning in comparison.cloud(viewmatrix): scene could not be fit on page. It  
## will not be plotted.

## Warning in comparison.cloud(viewmatrix): someone could not be fit on page.  
## It will not be plotted.

## Warning in comparison.cloud(viewmatrix): spot could not be fit on page. It  
## will not be plotted.

## Warning in comparison.cloud(viewmatrix): spots could not be fit on page. It  
## will not be plotted.

## Warning in comparison.cloud(viewmatrix): stain could not be fit on page. It  
## will not be plotted.

## Warning in comparison.cloud(viewmatrix): sun could not be fit on page. It  
## will not be plotted.

## Warning in comparison.cloud(viewmatrix): taken could not be fit on page. It  
## will not be plotted.

## Warning in comparison.cloud(viewmatrix): talking could not be fit on page.  
## It will not be plotted.

## Warning in comparison.cloud(viewmatrix): tomorrow could not be fit on page.  
## It will not be plotted.

## Warning in comparison.cloud(viewmatrix): words could not be fit on page. It  
## will not be plotted.

## Warning in comparison.cloud(viewmatrix): long could not be fit on page. It  
## will not be plotted.

## Warning in comparison.cloud(viewmatrix): number could not be fit on page.  
## It will not be plotted.

## Warning in comparison.cloud(viewmatrix): ever could not be fit on page. It  
## will not be plotted.

## Warning in comparison.cloud(viewmatrix): approached could not be fit on  
## page. It will not be plotted.

## Warning in comparison.cloud(viewmatrix): avoided could not be fit on page.  
## It will not be plotted.

```
## Warning in comparison.cloud(viewmatrix): away could not be fit on page. It
## will not be plotted.

## Warning in comparison.cloud(viewmatrix): black could not be fit on page. It
## will not be plotted.

## Warning in comparison.cloud(viewmatrix): broken could not be fit on page.
## It will not be plotted.

## Warning in comparison.cloud(viewmatrix): busiest could not be fit on page.
## It will not be plotted.

## Warning in comparison.cloud(viewmatrix): charging could not be fit on page.
## It will not be plotted.

## Warning in comparison.cloud(viewmatrix): children could not be fit on page.
## It will not be plotted.

## Warning in comparison.cloud(viewmatrix): degree could not be fit on page.
## It will not be plotted.

## Warning in comparison.cloud(viewmatrix): demand could not be fit on page.
## It will not be plotted.

## Warning in comparison.cloud(viewmatrix): differential could not be fit on
## page. It will not be plotted.

## Warning in comparison.cloud(viewmatrix): emergency could not be fit on
## page. It will not be plotted.

## Warning in comparison.cloud(viewmatrix): evelyn could not be fit on page.
## It will not be plotted.

## Warning in comparison.cloud(viewmatrix): everything could not be fit on
## page. It will not be plotted.

## Warning in comparison.cloud(viewmatrix): except could not be fit on page.
## It will not be plotted.

## Warning in comparison.cloud(viewmatrix): experiencing could not be fit on
## page. It will not be plotted.

## Warning in comparison.cloud(viewmatrix): fatal could not be fit on page. It
## will not be plotted.

## Warning in comparison.cloud(viewmatrix): feel could not be fit on page. It
## will not be plotted.

## Warning in comparison.cloud(viewmatrix): finally could not be fit on page.
## It will not be plotted.

## Warning in comparison.cloud(viewmatrix): flares could not be fit on page.
## It will not be plotted.

## Warning in comparison.cloud(viewmatrix): flashers could not be fit on page.
## It will not be plotted.

## Warning in comparison.cloud(viewmatrix): freeways could not be fit on page.
## It will not be plotted.

## Warning in comparison.cloud(viewmatrix): freezing could not be fit on page.
## It will not be plotted.
```

## Warning in comparison.cloud(viewmatrix): frightening could not be fit on  
## page. It will not be plotted.

## Warning in comparison.cloud(viewmatrix): frozen could not be fit on page.  
## It will not be plotted.

## Warning in comparison.cloud(viewmatrix): god could not be fit on page. It  
## will not be plotted.

## Warning in comparison.cloud(viewmatrix): grandchildren could not be fit on  
## page. It will not be plotted.

## Warning in comparison.cloud(viewmatrix): grapevine could not be fit on  
## page. It will not be plotted.

## Warning in comparison.cloud(viewmatrix): headed could not be fit on page.  
## It will not be plotted.

## Warning in comparison.cloud(viewmatrix): hurried could not be fit on page.  
## It will not be plotted.

## Warning in comparison.cloud(viewmatrix): idea could not be fit on page. It  
## will not be plotted.

## Warning in comparison.cloud(viewmatrix): interstate could not be fit on  
## page. It will not be plotted.

## Warning in comparison.cloud(viewmatrix): items could not be fit on page. It  
## will not be plotted.

## Warning in comparison.cloud(viewmatrix): killed could not be fit on page.  
## It will not be plotted.

## Warning in comparison.cloud(viewmatrix): know could not be fit on page. It  
## will not be plotted.

## Warning in comparison.cloud(viewmatrix): large could not be fit on page. It  
## will not be plotted.

## Warning in comparison.cloud(viewmatrix): later could not be fit on page. It  
## will not be plotted.

## Warning in comparison.cloud(viewmatrix): meanwhile could not be fit on  
## page. It will not be plotted.

## Warning in comparison.cloud(viewmatrix): mile could not be fit on page. It  
## will not be plotted.

## Warning in comparison.cloud(viewmatrix): multiple could not be fit on page.  
## It will not be plotted.

## Warning in comparison.cloud(viewmatrix): near could not be fit on page. It  
## will not be plotted.

## Warning in comparison.cloud(viewmatrix): nearly could not be fit on page.  
## It will not be plotted.

## Warning in comparison.cloud(viewmatrix): needless could not be fit on page.  
## It will not be plotted.

## Warning in comparison.cloud(viewmatrix): oncoming could not be fit on page.  
## It will not be plotted.



```
## Warning in comparison.cloud(viewmatrix): opened could not be fit on page.  
## It will not be plotted.  
  
## Warning in comparison.cloud(viewmatrix): parked could not be fit on page.  
## It will not be plotted.  
  
## Warning in comparison.cloud(viewmatrix): passing could not be fit on page.  
## It will not be plotted.  
  
## Warning in comparison.cloud(viewmatrix): pitch could not be fit on page. It  
## will not be plotted.  
  
## Warning in comparison.cloud(viewmatrix): placed could not be fit on page.  
## It will not be plotted.  
  
## Warning in comparison.cloud(viewmatrix): practically could not be fit on  
## page. It will not be plotted.  
  
## Warning in comparison.cloud(viewmatrix): prayed could not be fit on page.  
## It will not be plotted.  
  
## Warning in comparison.cloud(viewmatrix): reimbursing could not be fit on  
## page. It will not be plotted.  
  
## Warning in comparison.cloud(viewmatrix): relieved could not be fit on page.  
## It will not be plotted.  
  
## Warning in comparison.cloud(viewmatrix): semi could not be fit on page. It  
## will not be plotted.  
  
## Warning in comparison.cloud(viewmatrix): several could not be fit on page.  
## It will not be plotted.  
  
## Warning in comparison.cloud(viewmatrix): showed could not be fit on page.  
## It will not be plotted.  
  
## Warning in comparison.cloud(viewmatrix): situation could not be fit on  
## page. It will not be plotted.  
  
## Warning in comparison.cloud(viewmatrix): standing could not be fit on page.  
## It will not be plotted.  
  
## Warning in comparison.cloud(viewmatrix): state could not be fit on page. It  
## will not be plotted.  
  
## Warning in comparison.cloud(viewmatrix): swerved could not be fit on page.  
## It will not be plotted.  
  
## Warning in comparison.cloud(viewmatrix): temperatures could not be fit on  
## page. It will not be plotted.  
  
## Warning in comparison.cloud(viewmatrix): thirty could not be fit on page.  
## It will not be plotted.  
  
## Warning in comparison.cloud(viewmatrix): traffice could not be fit on page.  
## It will not be plotted.  
  
## Warning in comparison.cloud(viewmatrix): twenty could not be fit on page.  
## It will not be plotted.  
  
## Warning in comparison.cloud(viewmatrix): unsafe could not be fit on page.  
## It will not be plotted.
```

```
## Warning in comparison.cloud(viewmatrix): walked could not be fit on page.  
## It will not be plotted.  
  
## Warning in comparison.cloud(viewmatrix): waved could not be fit on page. It  
## will not be plotted.  
  
## Warning in comparison.cloud(viewmatrix): worst could not be fit on page. It  
## will not be plotted.  
  
## Warning in comparison.cloud(viewmatrix): also could not be fit on page. It  
## will not be plotted.  
  
## Warning in comparison.cloud(viewmatrix): said could not be fit on page. It  
## will not be plotted.  
  
## Warning in comparison.cloud(viewmatrix): wasn could not be fit on page. It  
## will not be plotted.  
  
## Warning in comparison.cloud(viewmatrix): reservations could not be fit on  
## page. It will not be plotted.  
  
## Warning in comparison.cloud(viewmatrix): drop could not be fit on page. It  
## will not be plotted.  
  
## Warning in comparison.cloud(viewmatrix): drove could not be fit on page. It  
## will not be plotted.  
  
## Warning in comparison.cloud(viewmatrix): pictures could not be fit on page.  
## It will not be plotted.  
  
## Warning in comparison.cloud(viewmatrix): took could not be fit on page. It  
## will not be plotted.  
  
## Warning in comparison.cloud(viewmatrix): unloading could not be fit on  
## page. It will not be plotted.  
  
## Warning in comparison.cloud(viewmatrix): actually could not be fit on page.  
## It will not be plotted.  
  
## Warning in comparison.cloud(viewmatrix): continuing could not be fit on  
## page. It will not be plotted.  
  
## Warning in comparison.cloud(viewmatrix): coverage could not be fit on page.  
## It will not be plotted.  
  
## Warning in comparison.cloud(viewmatrix): covering could not be fit on page.  
## It will not be plotted.  
  
## Warning in comparison.cloud(viewmatrix): directly could not be fit on page.  
## It will not be plotted.  
  
## Warning in comparison.cloud(viewmatrix): finished could not be fit on page.  
## It will not be plotted.  
  
## Warning in comparison.cloud(viewmatrix): incidents could not be fit on  
## page. It will not be plotted.  
  
## Warning in comparison.cloud(viewmatrix): includes could not be fit on page.  
## It will not be plotted.  
  
## Warning in comparison.cloud(viewmatrix): packag could not be fit on page.  
## It will not be plotted.
```

```
## Warning in comparison.cloud(viewmatrix): package could not be fit on page.
## It will not be plotted.

## Warning in comparison.cloud(viewmatrix): pay could not be fit on page. It
## will not be plotted.

## Warning in comparison.cloud(viewmatrix): pics could not be fit on page. It
## will not be plotted.

## Warning in comparison.cloud(viewmatrix): redwood could not be fit on page.
## It will not be plotted.

## Warning in comparison.cloud(viewmatrix): split could not be fit on page. It
## will not be plotted.

## Warning in comparison.cloud(viewmatrix): telling could not be fit on page.
## It will not be plotted.

## Warning in comparison.cloud(viewmatrix): understandable could not be fit on
## page. It will not be plotted.

## Warning in comparison.cloud(viewmatrix): wives could not be fit on page. It
## will not be plotted.
```



```
# Import opinion lexicons
opinion.lexicon.pos <- scan("positive-words.txt", what="character", comment.char = ";")
opinion.lexicon.neg <- scan("negative-words.txt", what="character", comment.char = ";")
```

Creates a bag of words for each document in the corpus.

```
corpus4 <- str_split(corpus2, pattern="\\s+")
corpus4
```

```
## [[1]]
## [1] "i" "blood" "inside" "one"
## [5] "two" "trucks" "rented" "reserved"
## [9] "two" "trucks" "one" "reservations"
## [13] "got" "lost" "able" "get"
## [17] "truck" "another" "location" "picked"
## [21] "second" "truck" "noticed" "dirty"
## [25] "time" "thought" "someone" "hauling"
## [29] "tires" "wasn" "t" "happy"
## [33] "needed" "truck" "loaded" "clean"
## [37] "truck" "first" "loaded" "dirty"
## [41] "truck" "time" "almost" "dark"
## [45] "use" "cargo" "light" "see"
## [49] "paid" "intention" "condition" "truck"
## [53] "spots" "thought" "tires" "loaded"
## [57] "missouri" "took" "new" "mexico"
## [61] "unloaded" "dirty" "truck" "morning"
## [65] "sun" "coming" "noticed" "blood"
## [69] "stain" "unloading" "feet" "truck"
## [73] "first" "spot" "nothing" "compared"
## [77] "rest" "truck" "truck" "literally"
## [81] "looked" "like" "massacre" "happened"
## [85] "truck" "truck" "completely" "unloaded"
## [89] "drove" "straight" "drop" "happened"
## [93] "corporate" "location" "went" "asking"
## [97] "manager" "told" "manager" "needed"
## [101] "come" "look" "back" "truck"
## [105] "loss" "words" "ended" "talking"
## [109] "pictures" "went" "back" "side"
## [113] "asked" "truck" "back" "told"
## [117] "tomorrow" "said" "taken" "care"
## [121] "flabbergasted" "thought" "call" "police"
## [125] "atleast" "get" "rolling" "crime"
## [129] "scene" "didn" "t" "since"
## [133] "spent" "last" "six" "months"
## [137] "trying" "figure" "exposed" "sent"
## [141] "two" "lab" "reports" "claimed"
## [145] "done" "truck" "police" "first"
## [149] "lab" "report" "date" "discrepancy"
## [153] "called" "got" "another" "copy"
## [157] "report" "time" "conclusions" "different"
## [161] "report" "date" "discrepancy" "also"
## [165] "believe" "reports" "falsified" "spent"
## [169] "last" "six" "months" "wondering"
## [173] "contracted" "something" "biohazard" ""
##
## [[2]]
## [1] "i" "made" "penske" "truck"
```

##	[5]	"rental"	"reservation"	"august"	"st"
##	[9]	"home"	"depot"	"help"	"daughter"
##	[13]	"move"	"one"	"apartment"	"another"
##	[17]	"since"	"first"	"making"	"reservation"
##	[21]	"early"	"august"	"received"	"two"
##	[25]	"calls"	"penske"	"one"	"shortly"
##	[29]	"making"	"reservation"	"confirm"	"get"
##	[33]	"credit"	"card"	"number"	"guarantee"
##	[37]	"show"	"second"	"august"	"th"
##	[41]	"confirm"	"still"	"planning"	"arrive"
##	[45]	"home"	"depot"	"agreed"	"time"
##	[49]	"next"	"day"	"wife"	"arrived"
##	[53]	"appointed"	"time"	"informed"	"home"
##	[57]	"depot"	"employees"	"rental"	"truck"
##	[61]	"available"	"informed"	"first"	"day"
##	[65]	"told"	"getting"	"rental"	"truck"
##	[69]	"either"	"fact"	"nine"	"others"
##	[73]	"told"	"thing"	"home"	"depot"
##	[77]	"employee"	"offered"	"call"	"penske"
##	[81]	"office"	"get"	"explanation"	"offer"
##	[85]	"accepted"	"person"	"framingham"	"ma"
##	[89]	"office"	"penske"	"say"	"name"
##	[93]	"sonny"	"wouldn"	"t"	"give"
##	[97]	"last"	"name"	"said"	"wasn"
##	[101]	"t"	"anything"	"booked"	"supplied"
##	[105]	"asked"	"hadn"	"t"	"called"
##	[109]	"earlier"	"inform"	"make"	"arrangements"
##	[113]	"offered"	"response"	"apparently"	"authorized"
##	[117]	"confirm"	"reservations"	"unable"	"meet"
##	[121]	"obligations"	"hanging"	"home"	"depot"
##	[125]	"employee"	"informed"	"us"	"penske"
##	[129]	"booked"	"significant"	"number"	"rental"
##	[133]	"reservations"	"day"	"done"	"intentionally"
##	[137]	"saying"	"common"	"busy"	"end"
##	[141]	"month"	"weekends"	"clear"	"planned"
##	[145]	"long"	"vehicles"	"roads"	"generating"
##	[149]	"income"	"negative"	"effects"	"strategy"
##	[153]	"consequence"	"penske"	"result"	"family"
##	[157]	"pleasant"	"far"	"reaching"	"effects"
##	[161]	"friends"	"family"	"entire"	"rain"
##	[165]	"soaked"	"labor"	"day"	"weekend"
##	[169]	"can"	"say"	"right"	"now"
##	[173]	"even"	"though"	"weekend"	"effects"
##	[177]	"penske"	"s"	"failure"	"meet"
##	[181]	"obligations"	"passed"	"negative"	"effects"
##	[185]	"just"	"beginning"	"penske"	"penske"
##	[189]	"will"	"never"	"ever"	"earn"
##	[193]	"business"	"long"	"live"	"will"
##	[197]	"tell"	"many"	"people"	"can"
##	[201]	"ever"	"business"	"effects"	"also"
##	[205]	"unfortunately"	"spilled"	"relationship"	"home"
##	[209]	"depot"	"minutes"	"prior"	"scheduled"
##	[213]	"pick"	"truck"	"rental"	"st"
##	[217]	"wife"	"purchased"	"two"	"rooms"

## [221]	"carpeting"	"installation"	"order"	"since"
## [225]	"cancelled"	"gone"	"lowes"	"likewise"
## [229]	"time"	"choice"	"making"	"home"
## [233]	"improvement"	"purchases"	"will"	"lowes"
## [237]	"frankly"	"anyone"	"home"	"depot"
## [241]	"years"	"wife"	"spent"	"k"
## [245]	"home"	"depot"	"close"	"friends"
## [249]	"immediate"	"relatives"	"will"	"may"
## [253]	"ask"	"angry"	"home"	"depot"
## [257]	"weren"	"t"	"ones"	"let"
## [261]	"family"	"lurch"	"answer"	"simple"
## [265]	"business"	"fact"	"known"	"company"
## [269]	"keep"	"partnerships"	"make"	"truck"
## [273]	"rental"	"display"	"home"	"depot"
## [277]	"rental"	"center"	"proudly"	"boasts"
## [281]	"partnership"	"penske"	"decision"	"today"
## [285]	"cost"	"home"	"depot"	"good"
## [289]	"deal"	"future"	"business"	"everyone"
## [293]	"else"	"can"	"convince"	"avoid"
## [297]	"post"	"consumer"	"affairs"	"beginning"
## [301]	"hope"	"every"	"person"	"stood"
## [305]	"past"	"weekend"	"time"	"past"
## [309]	"penske"	"point"	"wise"	"person"
## [313]	"home"	"depot"	"realizes"	"extent"
## [317]	"partnership"	"penske"	"cost"	"financially"
## [321]	"customer"	"loyalty"	" "	
##				
## [[3]]				
## [1]	"i"	"wife"	"recently"	"married"
## [5]	"decided"	"move"	"across"	"country"
## [9]	"sonoma"	"ca"	"redwood"	"ny"
## [13]	"closer"	"parents"	"really"	"issues"
## [17]	"hitting"	"east"	"leaving"	"chicago"
## [21]	"heading"	"early"	"morning"	"rush"
## [25]	"hour"	"traffic"	"spotted"	"something"
## [29]	"shining"	"roadway"	"cars"	"ahead"
## [33]	"though"	"foot"	"truck"	"able"
## [37]	"see"	"vehicles"	"move"	"either"
## [41]	"lane"	"due"	"traffic"	"right"
## [45]	"passed"	"object"	"see"	"piece"
## [49]	"plexiglass"	"laying"	"flat"	"roadway"
## [53]	"knowing"	"full"	"weel"	"going"
## [57]	"happen"	"watched"	"horror"	"side"
## [61]	"rear"	"view"	"mirror"	"sheer"
## [65]	"mass"	"truck"	"created"	"draft"
## [69]	"larrge"	"enough"	"pick"	"hurl"
## [73]	"plexiglass"	"straight"	"wives"	"car"
## [77]	"directly"	"behind"	"came"	"spinning"
## [81]	"bumper"	"grill"	"hood"	"luckily"
## [85]	"piece"	"split"	"pefore"	"continuing"
## [89]	"path"	"straight"	"front"	"windshIELD"
## [93]	"pulled"	"inspect"	"damage"	"found"
## [97]	"plexiglass"	"actually"	"hit"	"corner"
## [101]	"first"	"bumper"	"lucky"	"alive"

## [105]	"drove"	"straight"	"night"	"arrived"
## [109]	"ny"	"upon"	"waking"	"next"
## [113]	"morning"	"immediately"	"called"	"penske"
## [117]	"told"	"damage"	"response"	"responsible"
## [121]	"something"	"laying"	"roadway"	"asked"
## [125]	"purchase"	"full"	"coverage"	"insurance"
## [129]	"quote"	"includes"	"third"	"party"
## [133]	"claims"	"wife"	"filing"	"claim"
## [137]	"based"	"damage"	"caused"	"truck"
## [141]	"response"	"ask"	"sir"	"don"
## [145]	"t"	"cover"	"kind"	"thing"
## [149]	"really"	"third"	"party"	"claim"
## [153]	"covered"	"insurance"	"package"	"guess"
## [157]	"outright"	"refusing"	"pay"	"damages"
## [161]	"big"	"surprise"	"corperate"	"pig"
## [165]	"screws"	"little"	"people"	"anyway"
## [169]	"spent"	"morning"	"unloading"	"truck"
## [173]	"find"	"mattress"	"box"	"spring"
## [177]	"bed"	"soaked"	"laying"	"pool"
## [181]	"water"	"back"	"truck"	"finished"
## [185]	"emptying"	"truckand"	"took"	"back"
## [189]	"drop"	"site"	"telling"	"incidents"
## [193]	"gave"	"number"	"call"	"ask"
## [197]	"see"	"bed"	"car"	"damages"
## [201]	"hmmmmm"	"went"	"home"	"call"
## [205]	"penske"	"told"	"cover"	"damages"
## [209]	"long"	"send"	"pictures"	"receipt"
## [213]	"bed"	"now"	"pics"	"big"
## [217]	"deal"	"understandable"	"receipt"	"bed"
## [221]	"years"	"old"	"h"	"l"
## [225]	"receipt"	"conclusion"	"purchased"	"top"
## [229]	"insurance"	"packag"	"yet"	"covering"
## [233]	"none"	"damages"	"thanks"	"lot"
## [237]	"penske"	"go"	"eff"	"splintered"
## [241]	"log"	"		
##				
## [[4]]				
## [1]	"i"	"husband"	"rented"	"ft"
## [5]	"truck"	"penske"	"bakersfield"	"ca"
## [9]	"mile"	"grapevine"	"interstate"	"truck"
## [13]	"came"	"abrupt"	"stop"	"middle"
## [17]	"lane"	"husband"	"hurried"	"put"
## [21]	"emergency"	"flashers"	"exit"	"vehicle"
## [25]	"meanwhile"	"large"	"trucks"	"passing"
## [29]	"right"	"cars"	"left"	"trying"
## [33]	"avoid"	"hitting"	"us"	"got"
## [37]	"shoulder"	"road"	"husband"	"called"
## [41]	"alerted"	"chp"	"asked"	"tow"
## [45]	"truck"	"sent"	"immediately"	"stood"
## [49]	"degree"	"freezing"	"temperatures"	"waved"
## [53]	"oncoming"	"traffice"	"avoid"	"hitting"
## [57]	"truck"	"twenty"	"minutes"	"later"
## [61]	"chp"	"officer"	"showed"	"parked"
## [65]	"car"	"behind"	"rental"	"truck"

## [69]	"placed"	"several"	"flares"	"road"
## [73]	"stood"	"back"	"left"	"side"
## [77]	"right"	"watched"	"horror"	"multiple"
## [81]	"semi"	"trucks"	"cars"	"approached"
## [85]	"vehicle"	"swerved"	"road"	"avoid"
## [89]	"hitting"	"rental"	"truck"	"thirty"
## [93]	"minutes"	"chp"	"officer"	"arrived"
## [97]	"tow"	"truck"	"came"	"relieved"
## [101]	"get"	"rental"	"truck"	"road"
## [105]	"onto"	"shoulder"	"standing"	"cold"
## [109]	"hours"	"practically"	"frozen"	"experiencing"
## [113]	"worst"	"frightening"	"thing"	"ever"
## [117]	"happened"	"us"	"finally"	"headed"
## [121]	"home"	"tow"	"truck"	"asked"
## [125]	"take"	"truck"	"penske"	"company"
## [129]	"bakersfield"	"arrived"	"told"	"responsible"
## [133]	"contents"	"truck"	"needless"	"say"
## [137]	"point"	"penske"	"done"	"nothing"
## [141]	"us"	"except"	"demand"	"pick"
## [145]	"truck"	"s"	"contents"	"immediately"
## [149]	"pm"	"far"	"know"	"still"
## [153]	"intend"	"charging"	"us"	"truck"
## [157]	"intention"	"reimbursing"	"us"	"items"
## [161]	"broken"	"tow"	"manager"	"told"
## [165]	"opened"	"back"	"truck"	"idea"
## [169]	"everything"	"still"	"husband"	"nearly"
## [173]	"killed"	"sat"	"vehicle"	"two"
## [177]	"minutes"	"sat"	"prayed"	"god"
## [181]	"die"	"sake"	"children"	"grandchildren"
## [185]	"middle"	"lane"	"one"	"busiest"
## [189]	"freeways"	"state"	"california"	"pitch"
## [193]	"black"	"wondering"	"going"	"hit"
## [197]	"behind"	"second"	"feel"	"put"
## [201]	"unsafe"	"vehicle"	"lucky"	"walked"
## [205]	"away"	"others"	"situation"	"may"
## [209]	"lucky"	"bearing"	"differential"	"went"
## [213]	"caused"	"near"	"fatal"	"accident"
## [217]	"avoided"	"evelyn"	"bakersfield"	"california"
## [221]	"u"	"s"	"	"

Matches the bag of words to the positive lexicon of words. Doc1 = 3, Doc2 = 10, Doc3 = 5, Doc4 = 4.

```
lapply(corpus4, function(x) { sum(!is.na(match(x, opinion.lexicon.pos)))})
```

```
## [[1]]
## [1] 3
##
## [[2]]
## [1] 10
##
## [[3]]
```



```
## [1] 5
##
## [[4]]
## [1] 4
```

Matches the bag of words to the negative lexicon of words. Doc1 = 10, Doc2 = 7, Doc3 = 12, Doc4 = 14

```
lapply(corpus4, function(x) { sum(!is.na(match(x, opinion.lexicon.neg)))})
```

```
## [[1]]
## [1] 10
##
## [[2]]
## [1] 7
##
## [[3]]
## [1] 12
##
## [[4]]
## [1] 14
```

Calculates the sum totals of Positive sentiments vs negative sentiments in the corpus. Doc1 = -7, Doc2 = 3, Doc3 = -7, Doc4 = -10.

```
lapply(corpus4, function(x) { sum(!is.na(match(x, opinion.lexicon.pos))) - sum(!is.na(match(x, opinion.lexicon.neg)))})
```

```
## [[1]]
## [1] -7
##
## [[2]]
## [1] 3
##
## [[3]]
## [1] -7
##
## [[4]]
## [1] -10
```

```
scores <-unlist(lapply(corpus4, function(x) { sum(!is.na(match(x, opinion.lexicon.pos))) - sum(!is.na(match(x, opinion.lexicon.neg)))}))
```