## plague\_sent\_anal

## shimmy

8/3/2020

```
library(tidyverse)
## -- Attaching packages -----
## v ggplot2 3.3.2 v purrr 0.3.4

## v tibble 3.0.2 v dplyr 1.0.0

## v tidyr 1.1.1 v stringr 1.4.0

## v readr 1.3.1 v forcats 0.5.0
## -- Conflicts -----
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()
                        masks stats::lag()
library(tidytext)
library(janeaustenr)
library(stringr)
library(readtext)
library(readr)
library(summarytools)
## Registered S3 method overwritten by 'pryr':
##
     method
                   from
     print.bytes Rcpp
## For best results, restart R session and update pander using devtools:: or remotes::install_github('r
##
## Attaching package: 'summarytools'
## The following object is masked from 'package:tibble':
##
##
        view
library(data.table)
## Attaching package: 'data.table'
```

```
## The following objects are masked from 'package:dplyr':
##
##
       between, first, last
## The following object is masked from 'package:purrr':
##
##
       transpose
library(wesanderson)
plague <- read.csv("plague_by_part_by_word.csv") %>% rename(no_punct = new_column) %>% drop_na(no_punct
plague <- plague %>% subset(no_punct != "")
# p2 <- read.csv("df2.csv")
# p3 <- read.csv("df3.csv")
# p4 <- read.csv("df4.csv")
# p5 <- read.csv("df5.csv")
nrc <- get_sentiments("nrc") %>% rename(no_punct = word)
bing <- get_sentiments("bing") %>% rename(no_punct = word)
afin <- get_sentiments("afin") %>% rename(no_punct = word)
#plague %>% filter(Word == "plague" | Word == "Plague") %>% ggplot(aes(x = count)) + geom_histogram()
plague <- plague%>% left_join(nrc, by = "no_punct")
plague <- plague%>% left_join(bing, by = "no_punct")
plague <- plague%>% left_join(afin, by = "no_punct")
plague <- plague %>% rename(nrc_sent = sentiment.x, afin_sent = sentiment.y)
# total5_sent$rows <- total5_sent%>% row.names()
# p1_sent <- p1 %>% left_join(sents, by = "Word")
# p2_sent <- p2 %>% left_join(sents, by = "Word")
# p3_sent <- p3 %>% left_join(sents, by = "Word")
# p4_sent <- p4 %>% left_join(sents, by = "Word")
# p5_sent <- p5 %>% left_join(sents, by = "Word")
# p1_sent %>% filter(!is.na(sentiment), sentiment != "positive", sentiment != "negative") %>% qqplot((a
# p2_sent %>% filter(!is.na(sentiment), sentiment != "positive", sentiment != "negative") %>% ggplot((a
# p3_sent %>% filter(!is.na(sentiment), sentiment != "positive", sentiment != "negative") %>% ggplot((a
# p4_sent %>% filter(!is.na(sentiment), sentiment != "positive", sentiment != "negative") %>% ggplot((a
# p5_sent %>% filter(!is.na(sentiment), sentiment != "positive", sentiment != "negative") %>% qqplot((a
# total5_sent_filtered <- total5_sent %>% filter(!is.na(sentiment), sentiment != "positive", sentiment
# total5_sent_filtered$num <- total5_sent_filtered %>% row.names() %>% as.numeric()
\# total5_sent_filtered %>% ggplot(aes(x = num))+ geom_histogram(bins = 50) + facet_wrap(~sentiment) +sc
think \leftarrow c(
"think",
"consider".
"determine",
"expect",
"feel",
"guess",
"judge",
"realize",
"see",
```

```
"take",
"understand",
"comprehend",
"conceive",
"conclude",
"credit",
"deem",
"envisage",
"envision",
"esteem",
"estimate",
"fancy",
"feature",
"foresee",
"gather",
"hold",
"image
imagine",
"presume",
"project",
"reckon",
"regard",
"sense",
"suppose",
"surmise",
"suspect",
"vision",
"visualize"
) %>% as.data.frame() %>% rename(no_punct = ".")
think$thought = rep("think", nrow(think))
plague <- plague%>% left_join(think, by = "no_punct")
# total5_think %>%filter(!is.na(thought)) %>% ggplot(aes(x = rows)) + geom_histogram(bins = 20)
selfish <- c("egotistical",</pre>
"greedy",
"narcissistic",
"self-centered",
"egocentric",
"egoistic",
"egoistical"
"egomaniacal",
"egotistic",
"hoggish",
"mean",
"mercenary",
"miserly",
"narrow",
"parsimonious",
"prejudiced",
"self-indulgent",
"self-interested",
"self-seeking",
"stingy",
```

```
"ungenerous",
"think") %>% as.data.frame() %>% rename(no_punct = ".")
selfish$selfish <- rep("selfish", nrow(selfish))</pre>
plague <- plague %>% left_join(selfish, by = "no_punct")
# total5_selfish <- total5 %>% left_join(selfish, by = "Word")
\# total5_selfish \%%filter(!is.na(selfish)) \%% ggplot(aes(x = rows)) + geom_histogram(bins = 20)
love <- c("love",</pre>
 "affection",
"appreciation",
"devotion",
"emotion",
"fondness",
"friendship",
"infatuation",
"lust",
"passion",
"respect",
"taste",
"tenderness",
"yearning",
"adulation",
"allegiance",
"amity",
"amorousness",
"amour",
"ardor",
"attachment",
"case",
"cherishing",
"crush",
"delight",
"devotedness",
"enchantment",
"enjoyment",
"fervor",
"fidelity",
"flame",
"hankering",
"idolatry",
"inclination",
"involvement",
"like",
"partiality",
"piety",
"rapture",
"regard",
"relish",
"sentiment",
"weakness",
"worship",
"zeal",
"ardency")%>% as.data.frame() %>% rename(no_punct = ".")
```

```
love$love <- rep("love", nrow(love))
# total5_love <- total5 %>% left_join(love, by = "no_punct")
# total5_love %>%filter(!is.na(love)) %>% ggplot(aes(x = rows)) + geom_histogram()
plague <- plague %>% left_join(love, by = "no_punct")
```

```
{r} # # total5_sent_freq_part_1 <- total5_sent %>%filter(part
== "part_1") %>% freq(sentiment) %>% as.data.frame() %>% rename(percent_
= "% Total", percent_valid = "% Valid", percent_valid_cum = "%
Valid Cum.", percent_total_cum = "% Total Cum.") %>% setattr("row.names"
                 "anticipation", "disgust",
c("anger",
                                                 "fear".
                                                                 "joy",
"negative",
                "positive",
                               "sadness",
                                               "surprise",
                           "Total")) # # total5_sent_freq_part_2
"trust", "non_avail",
<- total5_sent %>%filter(part == "part_2") %>% freq(sentiment)
%>% as.data.frame() %>% rename(percent_total = "% Total", percent_valid
= "% Valid", percent_valid_cum = "% Valid Cum.", percent_total_cum
= "% Total Cum.") %>% setattr("row.names", c("anger",
                                                             "anticipat
               "fear",
                               "joy",
                                               "negative",
"disgust",
               "sadness",
                              "surprise",
                                               "trust", "non avail",
"positive",
"Total")) # # total5_sent_freq_part_3<- total5_sent %>%filter(part
== "part_3") %>% freq(sentiment) %>% as.data.frame() %>% rename(percent_
= "% Total", percent_valid = "% Valid", percent_valid_cum = "%
Valid Cum.", percent_total_cum = "% Total Cum.") %>% setattr("row.names"
                                                                 "joy",
                "anticipation", "disgust",
c("anger",
                                                "fear".
"negative",
               "positive",
                             "sadness",
                                            "surprise",
                      "Total")) # # total5_sent_freq_part_4
"trust", "non_avail",
<- total5_sent %>%filter(part == "part_4") %>% freq(sentiment)
%>% as.data.frame() %>% rename(percent_total = "% Total", percent_valid
= "% Valid", percent_valid_cum = "% Valid Cum.", percent_total_cum
= "% Total Cum.") %>% setattr("row.names", c("anger",
                                                             "anticipat
                                               "negative",
"disgust",
               "fear",
                               "joy",
               "sadness", "surprise",
                                              "trust", "non_avail",
"positive",
"Total")) # # total5_sent_freq_part_5 <- total5_sent %>%filter(part
== "part_5") %>% freq(sentiment) %>% as.data.frame() %>% rename(percent_
= "% Total", percent_valid = "% Valid", percent_valid_cum = "%
Valid Cum.", percent_total_cum = "% Total Cum.") %>% setattr("row.names"
                                                                 "joy",
c("anger",
                 "anticipation", "disgust",
                                               "fear",
"negative",
               "positive", "sadness", "surprise",
"trust", "non_avail", "Total")) # # # # total5_sent_freq
<- total5_sent %>% freq(sentiment) %>% as.data.frame() %>%
rename(percent_total = "% Total", percent_valid = "% Valid",
percent_valid_cum = "% Valid Cum.", percent_total_cum = "%
Total Cum.") %>% setattr("row.names", c("anger",
                                                        "anticipation",
                              _6 "joy",
                                               "negative",
"disgust",
               "fear",
               "sadness",
                                              "trust", "non avail",
"positive",
                               "surprise",
"Total")) #
```

```
anxiety <- c("angst",</pre>
"apprehension",
"concern",
"disquiet",
"doubt",
"dread",
"jitters",
"misery",
"misgiving",
"mistrust",
"nervousness",
"panic",
"restlessness",
"suspense",
"trouble",
"uncertainty",
"unease",
"uneasiness",
"botheration",
"butterflies",
"care",
"creeps",
"disquietude",
"distress",
"downer",
"drag",
"fidgets",
"flap",
"foreboding",
"fretfulness",
"fuss",
"heebie-jeebies",
"jumps",
"needles",
"shakes",
"shivers",
"solicitude",
"watchfulness",
"willies",
"worriment",
"all-overs",
"nail-biting",
"anxiety"
) %>% as.data.frame() %>% rename(no_punct = ".")
anxiety$anxiety<- rep("anxiety", nrow(anxiety))</pre>
plague <- plague %>% left_join(anxiety, by = "no_punct")
#plague %>% filter(!is.na(anxiety)) %>% ggplot(aes(x = count)) + geom_histogram(bins = 10)
#plague %>% filter(!is.na(value)) %>% ggplot(aes(x = count, y = value)) + geom_point()
we <-c("we") %>% as.data.frame() %>% rename(no_punct = ".")
we$we <- rep("we", nrow(we))</pre>
```

```
plague <- plague %>% left_join(we, by = "no_punct")
exile <- c("exile",
           "banishment",
            "diaspora",
            "dispersion",
            "displacement",
"exclusion",
"expatriation",
"expulsion",
"extradition",
"migration",
"ostracism",
"proscription",
"relegation",
"scattering",
"separation") %>% as.data.frame() %>% rename(no_punct = ".")
exile$exile<- rep("exile", nrow(exile))</pre>
plague <- plague %>% left_join(exile, by = "no_punct")
suffer <- c("suffer", "adversity",</pre>
"anguish",
"difficulty",
"discomfort",
"hardship",
"misery",
"misfortune",
"ordeal",
"torment".
"torture",
"affliction",
"distress",
"dolor",
"martyrdom",
"passion") %>% as.data.frame() %>% rename(no_punct = ".")
suffer$suffer <- rep("suffer", nrow(suffer))</pre>
plague <- plague %>% left_join(suffer, by = "no_punct")
# total5_sent_freq_part_1$row_names <- total5_sent_freq %>% rownames()
# total5_sent_freq_part_2$row_names <- total5_sent_freq %>% rownames()
# total5_sent_freq_part_3$row_names <- total5_sent_freq %>% rownames()
# total5_sent_freq_part_4$row_names <- total5_sent_freq %>% rownames()
# total5_sent_freq_part_5$row_names <- total5_sent_freq %>% rownames()
# total5_sent_freq$row_names <- total5_sent_freq %>% rownames()
#plague %>% group_by(Word) %>% View()
# set.seed(1234)
# wordcloud(words = , freq = d$freq, min.freq = 1,
           max.words=200, random.order=FALSE, rot.per=0.35,
            colors=brewer.pal(8, "Dark2"))
#
```

```
\# total5_sent_freq_part_1 %>% slice(1:10) %>% ggplot(aes(x = row_names, y = percent_total)) + geom_bar
\# total5_sent_freq_part_2 %>% slice(1:10) %>% ggplot(aes(x = row_names, y = percent_total)) + geom_bar
# total5_sent_freq_part_3 %>% slice(1:10) %>% ggplot(aes(x = row_names, y = percent_total)) + geom_bar
# total5\_sent\_freq\_part\_4 %>% slice(1:10) %>% ggplot(aes(x = row\_names, y = percent\_total)) + geom\_bar
# total5_sent_freq_part_5 %>% slice(1:10) %>% ggplot(aes(x = row_names, y = percent_total)) + geom_bar
# total5_sent_freq %>% slice(1:10) %>% ggplot(aes(x = row_names, y = percent_total)) + geom_bar(stat="
plague %>% write.csv("plague_edited_df.csv")
plague %>% group_by(part) %>% freq(nrc_sent)
## Frequencies
## plague$nrc_sent
## Type: Character
## Group: part = part_1
##
                      Freq % Valid % Valid Cum. % Total % Total Cum.
## ----- -
##
             anger
                     173
                              5.77
                                           5.77
                                                     1.07
                                                                  1.07
##
        anticipation 261
                             8.71
                                           14.49
                                                    1.61
                                                                  2.68
##
            disgust 185
                             6.17
                                           20.66
                                                    1.14
                                                                  3.82
          fear 301 10.05
joy 168 5.61
negative 495 16.52
positive 616 20.56
                                           30.71
##
                                                    1.86
                                                                 5.67
##
                                           36.32
                                                    1.04
                                                                 6.71
##
                                           52.84
                                                   3.05
                                                                 9.76
##
                                           73.40
                                                   3.80
                                                                 13.56
                             9.35
                                                    1.73
##
           sadness
                      280
                                           82.74
                                                                 15.28
##
                     130
                             4.34
                                                   0.80
           surprise
                                          87.08
                                                                 16.09
##
             trust
                      387
                            12.92
                                         100.00
                                                    2.39
                                                                 18.47
##
               <NA>
                    13223
                                                    81.53
                                                                100.00
##
              Total
                     16219
                           100.00
                                        100.00
                                                   100.00
                                                                100.00
##
## Group: part = part_2
##
                      Freq % Valid % Valid Cum. % Total % Total Cum.
## ------ ---- ----- -----
             anger
                      282
                              5.37
                                           5.37
                                                    1.08
                                                                  1.08
##
        anticipation 533
                            10.15
                                           15.52
                                                   2.05
                                                                  3.13
                             5.12
##
           disgust 269
                                           20.64
                                                   1.03
                                                                  4.16
##
             fear 498
                             9.48
                                           30.12
                                                   1.91
                                                                 6.07
##
               joy
                      373
                             7.10
                                           37.22
                                                    1.43
                                                                 7.51
                            15.88
                     834
                                                   3.20
##
           negative
                                           53.10
                                                                 10.71
           positive 1041
                           19.82
                                                   4.00
##
                                          72.92
                                                                 14.71
##
           sadness 519
                             9.88
                                         82.81
                                                   1.99
                                                                 16.70
##
                     271
                             5.16
                                          87.97
                                                    1.04
           surprise
                                                                 17.74
##
                      632
                            12.03
                                        100.00
                                                    2.43
                                                                 20.17
             trust
##
                                                   79.83
              <NA> 20792
                                                                100.00
##
              Total
                     26044 100.00
                                        100.00 100.00
                                                                100.00
##
## Group: part = part_3
##
##
                     Freq % Valid % Valid Cum. % Total % Total Cum.
```

##	anger	128	7.34	7.34	1.84	1.84
##	anticipation	139	7.97	15.30	2.00	3.84
##	disgust	122	6.99	22.29	1.75	5.59
##	fear	232	13.30	35.59	3.33	8.92
##	joy	83	4.76	40.34	1.19	10.11
##	negative	327	18.74	59.08	4.70	14.81
##	positive	247	14.15	73.24	3.55	18.36
##	sadness	229	13.12	86.36	3.29	21.65
##	surprise	64	3.67	90.03	0.92	22.57
##	trust	174	9.97	100.00	2.50	25.07
##	<na></na>		0.01	100.00	74.93	100.00
##	Total	6961	100.00	100.00	100.00	100.00
	Iotai	0901	100.00	100.00	100.00	100.00
##	Crown, nort - nort	1				
## ##	Group: part = part_	4				
##		Freq	% Valid	% Valid Cum.	% Total	% Total Cum.
##						
##	anger		6.23	6.23	1.31	1.31
##	anticipation		9.40	15.63	1.98	3.29
##	disgust	281	5.99	21.62	1.26	4.55
##	fear	510	10.87	32.49	2.29	6.84
##	joy	306	6.52	39.02	1.37	8.21
##	negative	804	17.14	56.16	3.61	11.82
##	positive	824	17.57	73.73	3.70	15.51
##	sadness	473	10.09	83.82	2.12	17.63
##	surprise	224	4.78	88.59	1.00	18.64
##	trust	535	11.41	100.00	2.40	21.04
##	<na></na>	17603			78.96	100.00
##	Total	22293	100.00	100.00	100.00	100.00
##						
	<pre>Group: part = part_</pre>	5				
## ##		Freq	% Valid	% Valid Cum.	% Total	% Total Cum.
##			/₀ variu	% varia cum.		
##	anger	192	6.28	6.28	1.43	1.43
##	anticipation		10.64	16.92	2.42	3.85
##	disgust		5.24	22.16	1.19	5.04
##	fear	313	10.25	32.41	2.33	7.36
##	joy	233	7.63	40.03	1.73	9.10
##	negative	491	16.07	56.10	3.65	12.75
##	positive	526	17.22	73.32	3.91	16.66
##	-		10.31		2.34	19.01
	sadness	315		83.63		
##	surprise	154	5.04	88.67	1.15	20.15
##	trust	346	11.33	100.00	2.57	22.73
##	<na></na>	10387			77.27	100.00
##	Total	13442	100.00	100.00	100.00	100.00
nl	ague %>% group_by(pa	rt) %>% :	freq(we)			

```
plague %>% group_by(part) %>% freq(we)
```

##

<sup>##</sup> Frequencies
## plague\$we

<sup>##</sup> Type: Character
## Group: part = part\_1

```
Freq % Valid % Valid Cum. % Total % Total Cum.
##
## ----- ---- -----
       we 19 100.00 100.00
                                   0.12
##
##
      <NA> 16200
                                   99.88
                                             100.00
     Total 16219 100.00
                           100.00 100.00
##
                                              100.00
##
## Group: part = part_2
##
##
           Freq % Valid % Valid Cum. % Total % Total Cum.
## ----- ---- -----
           32 100.00
                           100.00
                                   0.12
                                               0.12
       we
      <NA> 26012
                                   99.88
##
                                             100.00
      Total 26044 100.00 100.00 100.00
                                              100.00
##
##
## Group: part = part_3
##
##
           Freq % Valid % Valid Cum. % Total % Total Cum.
            10 100.00
##
                           100.00
                                   0.14
       we
                                              0.14
     <NA> 6951
                                            100.00
##
                                  99.86
##
     Total 6961 100.00
                          100.00 100.00
                                            100.00
##
## Group: part = part_4
##
##
           Freq % Valid % Valid Cum. % Total % Total Cum.
## ----- ---- -----
     we
##
          39 100.00
                           100.00
                                   0.17
                                               0.17
      <NA> 22254
                                   99.83
                                            100.00
##
     Total 22293 100.00 100.00 100.00
##
                                            100.00
## Group: part = part_5
##
            Freq % Valid % Valid Cum. % Total % Total Cum.
##
## -----
            9
                                    0.07
##
                 100.00
                           100.00
                                               0.07
       we
                                             100.00
##
     <NA>
          13433
                                   99.93
##
    Total 13442 100.00 100.00 100.00
                                             100.00
```

## love\_freq <-plague %>% group\_by(part) %>% freq(love)

## plague %>% group\_by(part) %>% freq(anxiety)

```
## Frequencies
## plague$anxiety
## Type: Character
## Group: part = part_1
##
            Freq % Valid % Valid Cum. % Total % Total Cum.
##
## ----- ---- -----
     anxiety 55
##
                   100.00
                              100.00
                                      0.34
      <NA> 16164
                                      99.66
##
                                                100.00
      Total 16219 100.00 100.00 100.00
##
                                                100.00
##
```

```
## Group: part = part_2
##
             Freq % Valid % Valid Cum. % Total % Total Cum.
##
## ----- ---- -----
     anxiety
##
              82
                   100.00
                              100.00
                                      0.31
##
       <NA>
            25962
                                     99.69
                                               100.00
##
      Total 26044 100.00 100.00 100.00
                                                100.00
##
## Group: part = part_3
##
##
             Freq % Valid % Valid Cum. % Total % Total Cum.
## ----- --- ---- ----- -----
     anxiety 35
                  100.00 100.00
                                     0.50
                                                0.50
       <NA> 6926
##
                                     99.50
                                              100.00
##
      Total 6961 100.00 100.00 100.00
                                             100.00
##
## Group: part = part_4
##
##
             Freq % Valid % Valid Cum. % Total % Total Cum.
## ------ ---- ----- ------
   anxiety
                              100.00
##
              51
                   100.00
                                      0.23
                                                 0.23
##
       <NA>
            22242
                                     99.77
                                               100.00
      Total 22293 100.00 100.00 100.00
##
                                                100.00
##
## Group: part = part_5
##
             Freq % Valid % Valid Cum. % Total % Total Cum.
     anxiety 51 100.00 100.00
##
                                      0.38
                                                  0.38
##
      <NA> 13391
                                      99.62
                                               100.00
            13442 100.00
##
       Total
                              100.00 100.00
                                                100.00
plague %>% group_by(part) %>% freq(selfish)
## Frequencies
## plague$selfish
## Type: Character
## Group: part = part_1
             Freq % Valid % Valid Cum. % Total % Total Cum.
## ----- ---- -----
     selfish
             7
                   100.00
                              100.00
                                      0.04
                                                 0.04
       <NA> 16212
                                      99.96
##
                                                100.00
       Total 16219 100.00
                         100.00 100.00
##
                                                100.00
## Group: part = part_2
##
##
             Freq % Valid % Valid Cum. % Total % Total Cum.
## ----- ---- -----
##
    selfish
            8 100.00 100.00
                                      0.03
                                                0.03
            26036
##
      <NA>
                                      99.97
                                               100.00
      Total 26044 100.00
                         100.00 100.00
##
                                               100.00
##
```

## Group: part = part\_3

##						
## ##		Freq	% Valid	% Valid Cum.	% Total	% Total Cum.
##	selfish	2	100.00	100.00	0.03	0.03
##	<na></na>	6959			99.97	100.00
##	Total	6961	100.00	100.00	100.00	100.00
##						
##	Group: part =	part_4				
##				•		
##		Freq	% Valid	% Valid Cum.	% Total	% Total Cum.
				100.00		
##				100.00		0.02
‡# ‡#				100.00	99.98	
+# ‡#	Total	22293	100.00	100.00	100.00	100.00
	Group: part =	nart 5				
rπ ‡#	Group. part -	par c_o				
;;; ;#		Freq	% Valid	% Valid Cum.	% Total	% Total Cum
: ‡#				76 Varia oum:		76 100d1 0dm:
##		2	100.00	100.00	0.01	0.01
##					99.99	
##			100.00	100.00		
+#	Fraguencies					
	Frequencies					
	<pre>plague\$value Type: Numeric</pre>					
	Group: part =	nart 1				
#	droup: part	par c_r				
##		Freq	% Valid	% Valid Cum.	% Total	% Total Cum.
#						
#	-4	1	0.07	0.07	0.01	0.01
#	-3	151	11.30	11.38		0.94
#	-2	377	28.22	39.60	2.32	3.26
#	-1	176	13.17	52.77	1.09	4.35
#	1	229	17.14	69.91	1.41	5.76
#	2	246	18.41	88.32	1.52	7.28
#	3	153	11.45	99.78	0.94	8.22
#	4	3	0.22	100.00	0.02	8.24
#	<na></na>	14883			91.76	100.00
#	Total	16219	100.00	100.00	100.00	100.00
#	_					
	Group: part =	part_2				
#		_	0/	N		W =
##		Freq	% Valid	% Valid Cum.	% Total	% Total Cum.
##			0 00	0.00	0 01	0.01
#	-5	2	0.08	0.08	0.01	0.01
‡# +#	-4 -3	5 163	0.21 6.87	0.30	0.02	0.03
## ##	-3 -2	163 617	6.87 26.01	7.17 33.18	0.63	0.65 3.02
+# ‡#	-2 -1	413	17.41	50.59	2.37 1.59	4.61
	-1	413	11.41	50.59	1.59	4.01

66.91

86.68

1.49

1.80

##

##

1

2

387

469

16.32

19.77

6.09

7.89

##	3	295	12.44	99.11	1.13	9.03
##	4	293	0.84	99.96	0.08	9.10
##	5	1	0.04	100.00	0.00	9.11
##	<na></na>		0.04	100.00	90.89	
##	Total		100.00	100.00	100.00	
##	TOULI	20011	100.00	100.00	100.00	100.00
	Group: part	= part 3	•			
##		r				
##		Freq	% Valid	% Valid Cum.	% Total	% Total Cum.
##						
##	-4	1	0.13	0.13	0.01	0.01
##	-3	92	11.96	12.09	1.32	1.34
##	-2	261	33.94	46.03	3.75	5.09
##	-1		16.64	62.68	1.84	6.92
##	1	94	12.22	74.90	1.35	8.27
##	2	112	14.56	89.47	1.61	9.88
##	3	74	9.62	99.09	1.06	10.95
##		7	0.91	100.00	0.10	11.05
##					88.95	100.00
##	Total	6961	100.00	100.00	100.00	100.00
##	_	_				
	Group: part	= part_4	:			
##		-	0/ 17 7 1	9/ 37 3 : 1 0	% m	°/
##		Freq	% Valid	% Valid Cum.	% lotal	% lotal Cum.
## ##	-4	25	1.16	1.16	0.11	0 11
##	- <del>4</del>		10.52	11.69	1.01	0.11 1.13
##	-2	638	29.70	41.39	2.86	3.99
##	-1	341	15.88	57.26	1.53	5.52
##	1	310	14.43	71.69	1.39	6.91
##	2		17.55	89.25	1.69	8.60
##	3	223	10.38	99.63	1.00	9.60
##	4	8	0.37	100.00	0.04	9.64
##	<na></na>				90.36	
##	Total		100.00	100.00	100.00	
##						
##	Group: part	= part_5				
##						
##		Freq	% Valid	% Valid Cum.	% Total	% Total Cum.
##						
##	-3		7.72	7.72	0.84	0.84
##	-2	353	24.13	31.85	2.63	3.47
##	-1	237	16.20	48.05	1.76	5.23
##	1	174	11.89	59.95	1.29	6.52
##	2	341	23.31	83.25	2.54	9.06
##	3	202	13.81	97.06	1.50	10.56
##	4 <na></na>	43	2.94	100.00	0.32	10.88
##	<na></na>	11979	100.00	100.00	89.12	100.00
##	Total	13442	100.00	100.00	100.00	100.00

plague %>% group\_by(part) %>% freq(afin\_sent)

<sup>##</sup> Frequencies

<sup>##</sup> plague\$afin\_sent

```
## Type: Character
## Group: part = part_1
##
##
                Freq % Valid % Valid Cum. % Total % Total Cum.
## ------ ---- ----- -----

    negative
    1143
    66.96
    66.96
    7.05

    positive
    564
    33.04
    100.00
    3.48

##
                                                           7.05
                                                          10.52
          <NA> 14512
                                                         100.00
                                             89.48
##
         Total 16219 100.00 100.00 100.00
##
                                                     100.00
##
## Group: part = part_2
##
                 Freq % Valid % Valid Cum. % Total % Total Cum.
##
## ------ ---- -----

    negative
    1870
    64.53
    64.53
    7.18

    positive
    1028
    35.47
    100.00
    3.95

      positive 1028 35.47
                                                          11.13
##
          <NA>
##
                23146
                                              88.87
                                                         100.00
          Total 26044 100.00 100.00 100.00
##
                                                         100.00
##
## Group: part = part_3
##
##
               Freq % Valid % Valid Cum. % Total % Total Cum.
## ----- ---- -----
                                   74.59
      negative 819 74.59
                                             11.77
                                                         11.77
                                   100.00
      positive 279 25.41
                                             4.01
##
                                                         15.77
##
         <NA> 5863
                                             84.23
                                                         100.00
         Total 6961 100.00 100.00 100.00
##
                                                         100.00
## Group: part = part_4
##
                 Freq % Valid % Valid Cum. % Total % Total Cum.
##
## ------ ---- ----- ------
    negative 1934 69.77 positive 838 30.23
                                             8.68
                                100.00 3.76
87.57
                                     69.77
##
                                                           8.68
                        30.23
                                                          12.43
##
       <NA> 19521
##
                                                         100.00
        Total 22293 100.00 100.00 100.00
##
                                                         100.00
##
## Group: part = part_5
##
##
                 Freq % Valid % Valid Cum. % Total % Total Cum.
## ----- ---- ---- ----- -----

    negative
    1226
    63.59
    63.59
    9.12

    positive
    702
    36.41
    100.00
    5.22

    <NA>
    11514
    85.66

##
                                                            9.12
                                                          14.34
##
##
                                                         100.00
         Total 13442 100.00 100.00 100.00
##
                                                         100.00
plague %>% group_by(part) %>% freq(suffer)
## Frequencies
## plague$suffer
## Type: Character
## Group: part = part_1
##
```

##

Freq % Valid % Valid Cum. % Total % Total Cum.

```
suffer 16 100.00 100.00 0.10 0.10
##
                                     99.90
                                              100.00
##
      <NA> 16203
      Total 16219 100.00 100.00 100.00
##
                                                100.00
## Group: part = part_2
##
             Freq
                  % Valid % Valid Cum. % Total
                                           % Total Cum.
                  ------ --------- ------ ------
                                   0.30
##
   suffer 78
                  100.00 100.00
                                                0.30
      <NA> 25966
                                     99.70
                                               100.00
     Total 26044
                 100.00 100.00 100.00
##
                                              100.00
##
## Group: part = part_3
##
            Freq % Valid % Valid Cum. % Total % Total Cum.
##
## -----
            30 100.00
                                    0.43
##
     suffer
                            100.00
##
      <NA> 6931
                                    99.57
                                              100.00
      Total 6961 100.00 100.00 100.00
##
                                              100.00
##
## Group: part = part_4
##
                  % Valid % Valid Cum. % Total % Total Cum.
            Freq
## ----- ---- -----
                         100.00
             51
  suffer
                 100.00
                                     0.23
                                                 0.23
                                    99.77
##
      <NA> 22242
                                               100.00
     Total 22293
                 100.00 100.00 100.00
                                               100.00
##
##
## Group: part = part_5
##
##
            Freq % Valid % Valid Cum. % Total % Total Cum.
## ----- ---- ----- -----
##
     suffer 15
                 100.00
                            100.00
                                      0.11
                                                 0.11
      <NA> 13427
                                    99.89
##
                                                100.00
      Total 13442 100.00 100.00 100.00
                                                100.00
plague %>% group_by(part) %>% freq(exile) #%>% ggplot(aes(x = ))
## Frequencies
## plague$exile
## Type: Character
## Group: part = part_1
##
            Freq % Valid % Valid Cum. % Total % Total Cum.
##
      <NA> 16219
                                    100.00
                                               100.00
     Total 16219 0.00 100.00 100.00
##
                                               100.00
## Group: part = part_2
##
           Freq % Valid % Valid Cum. % Total % Total Cum.
## ----- ---- -----
```

100.00

0.13

0.13

##

exile 35 100.00

## ## ##	<na> Total</na>		100.00	100.00	99.87 100.00	
	Group: part	= part_3				
##		_			·	
##		Freq	% Valid	% Valid Cum.	% Total	% Total Cum.
##	exile	 19	100.00	100.00	0.27	0.27
	<na></na>		200.00	200100		100.00
##	Total	6961	100.00	100.00		
##						
	Group: part	= part_4				
## ##		Fred	% Valid	% Valid Cum.	% Total	% Total Cum
##				76 Valid Cum:		76 10tal Cum.
##	exile	2	100.00	100.00	0.01	0.01
##	<na></na>	22291			99.99	100.00
	Total	22293	100.00	100.00	100.00	100.00
##	Croup: part	- nort E				
##	Group: part	- part_5				
##		Freq	% Valid	% Valid Cum.	% Total	% Total Cum.
##						
			100.00	100.00		
	<na></na>				99.72	
##	Total	13442	100.00	100.00	100.00	100.00