

Emma_Gillen_719_Final.R

Emma

2020-12-03

```
#####  
# Emma Gillen  
# IST 719  
# Final Project  
# Goodreads Dataset  
#####
```

```
# Packages  
library(stringr)  
library(plyr)  
library(scales)  
library(wordcloud)
```

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

```
library(tidytext)  
library(stringr)
```

```
books_df <- read.csv("C:\\Users\\Emma\\Documents\\Syracuse\\IST 719\\Final Project\\books.csv", stringsAsFactors = FALSE)
```

```
#####  
# Initial Data Summary & Cleaning  
  
# structure of the data  
str(books_df)
```

```
## 'data.frame': 11131 obs. of 12 variables:  
## $ bookID : chr "1" "2" "4" "5" ...  
## $ title : chr "Harry Potter and the Half-Blood Prince (Harry Potter #6)" "Harry Potter and the Chamber of Secrets (Harry Potter #2)" ...  
## $ authors : chr "J.K. Rowling/Mary GrandPré" "J.K. Rowling/Mary GrandPré" "J.K. Rowling" ...  
## $ average_rating : chr "4.57" "4.49" "4.42" "4.56" ...  
## $ isbn : chr "0439785960" "0439358078" "0439554896" "043965548X" ...  
## $ isbn13 : chr "9780439785969" "9780439358071" "9780439554893" "9780439655484" ...  
## $ language_code : chr "eng" "eng" "eng" "eng" ...  
## $ num_pages : chr "652" "870" "352" "435" ...  
## $ ratings_count : int 2095690 2153167 6333 2339585 41428 19 28242 3628 249558 4930 ...  
## $ text_reviews_count : int 27591 29221 244 36325 164 1 808 254 4080 460 ...  
## $ publication_date : chr "9/16/2006" "9/1/2004" "11/1/2003" "5/1/2004" ...  
## $ publisher : chr "Scholastic Inc." "Scholastic Inc." "Scholastic" "Scholastic Inc." ...
```

```
# converting rating, # review, # ratings, pages to numeric
books_df$average_rating <- as.numeric(books_df$average_rating)
```

```
## Warning: NAs introduced by coercion
```

```
books_df$ratings_count <- as.numeric(books_df$ratings_count)
books_df$text_reviews_count <- as.numeric(books_df$text_reviews_count)
books_df$num_pages <- as.numeric(books_df$num_pages)
```

```
## Warning: NAs introduced by coercion
```

```
# converting publication date to date type
books_df$clean_publication_date <- strptime(books_df$publication_date, "%m/%d/%Y")

# removing rows # 11131

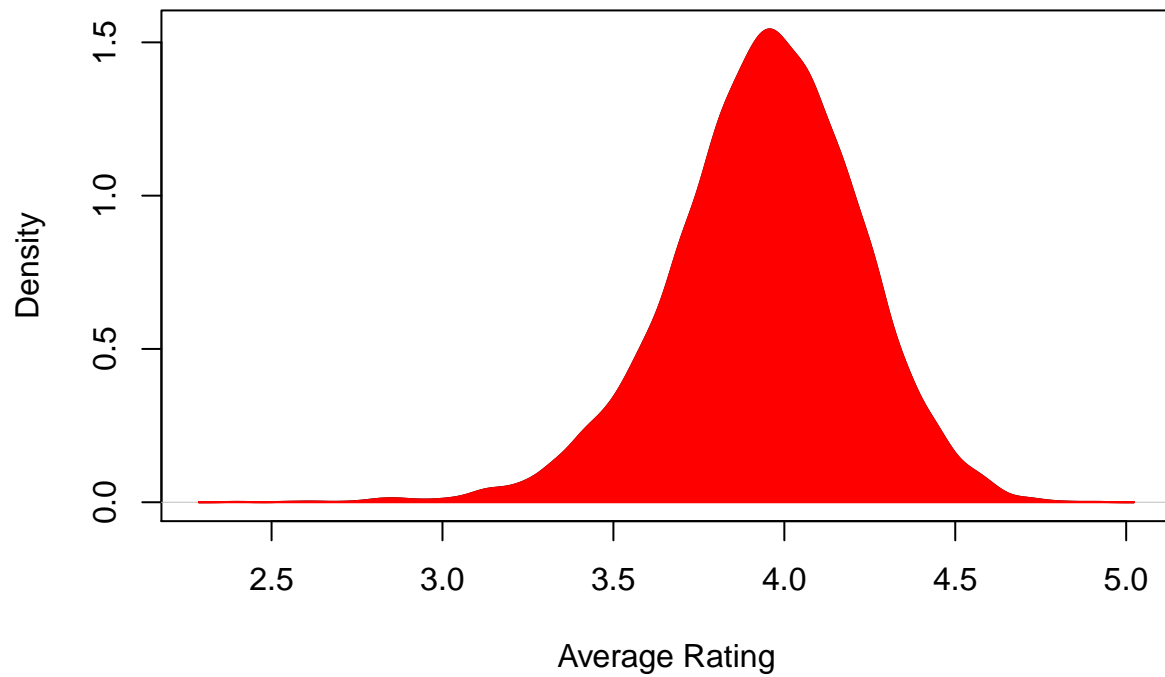
# removing books with less than 10 reviews
# these book are either too new or too obscure to be relevant
books_df <- books_df[books_df$ratings_count >= 10,] # 10458
# removing books with less than 100 pages
books_df <- books_df[books_df$num_pages >= 100,] # 9592
# 12 rows had NAs (2 already removed)
# because there are very few, they can just be dropped
books_df <- na.omit(books_df) # 9584
# cleaning extra text from the authors and titles
books_df$clean_author <- str_replace(books_df$authors, "/.*", "")

#####
# REUSED
# single plot color
my.color <- "red"
# Single books vs. collections
single.color <- "darkgreen"
coll.color <- "firebrick3"
# rating colors
good.color <- "green"
bad.color <- "red"

#####
# Single Dimension plot 1
# Density plot
# Book rating

d_pages <- density(books_df$average_rating)
plot(d_pages, main = "Density of Book Ratings", xlab = "Average Rating")
polygon(d_pages, col=my.color, border = my.color)
```

Density of Book Ratings

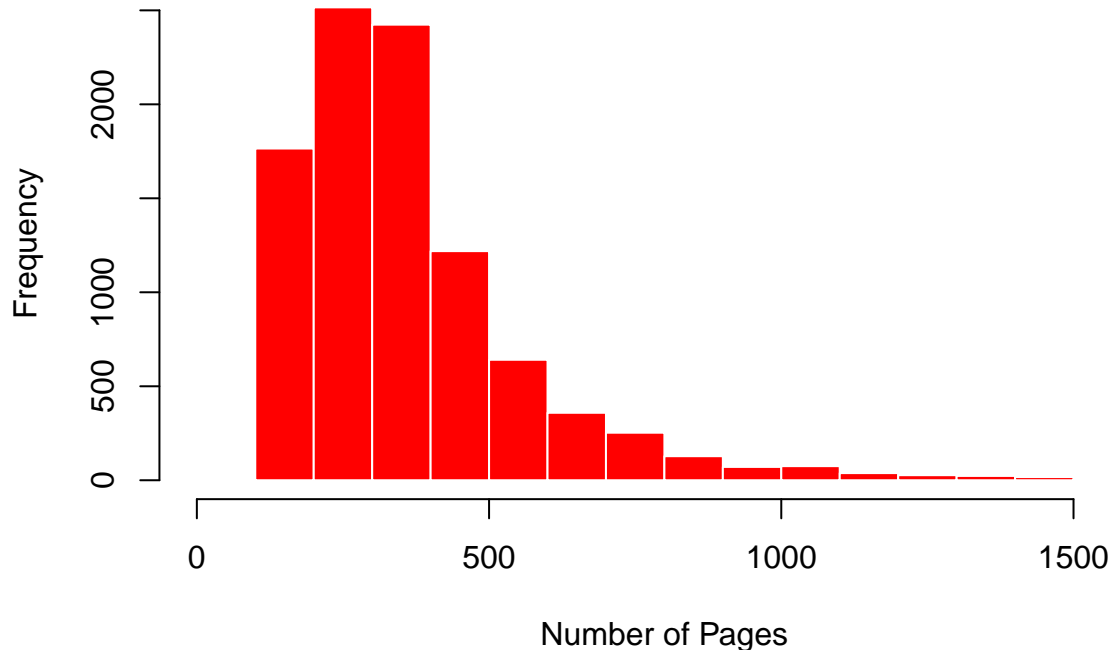


```
# most of the ratings are between 3.5 and 4.5
#summary(books_df$ratings_count)

#####
# Single dimension plot 2
# Histogram
# Book length

hist(books_df$num_pages, breaks = 50, col = my.color, border = "white"
     , main = "Histogram of Book Lengths", xlab = "Number of Pages", xlim = c(0, 1600))
```

Histogram of Book Lengths



```
# there are some outliers that scew the chart past 1600, 21, but cant be seen on the chart

#####
# Multi dimension plot 1
# Barplot
# Average rating
# Author
# Book title

books_df$clean_title <- tolower(books_df$title)
books_df$clean_title <- str_replace_all(books_df$clean_title, "\\(.*\\)", "")

# cleaning extra characters and adjectives from the titles
books_df$clean_title <- str_replace_all(books_df$clean_title, "annotated", "")
books_df$clean_title <- str_replace_all(books_df$clean_title, " the ", "")
books_df$clean_title <- str_replace_all(books_df$clean_title, " and ", "")
books_df$clean_title <- str_replace_all(books_df$clean_title, "part 2", "part ii")
books_df$clean_title <- str_replace_all(books_df$clean_title, "part 1", "part i")
books_df$clean_title <- str_replace_all(books_df$clean_title, "[0-9] volumes set", "")
books_df$clean_title <- gsub("[[:punct:]]", "", books_df$clean_title)
books_df$clean_title <- str_replace_all(books_df$clean_title, "shakespeares", "")
books_df$clean_title <- str_trim(books_df$clean_title)
books_df$clean_title <- str_replace_all(books_df$clean_title, " ", "")
books_df$clean_title <- str_replace_all(books_df$clean_title, "thecomplete.*", "completeworks")
books_df$clean_title <- str_replace_all(books_df$clean_title, "volume.*", "")
books_df$clean_title <- str_replace_all(books_df$clean_title, "vol.*", "")
```

```

books_df$clean_title <- str_replace_all(books_df$clean_title, "[0-9]", "")
# addition JRR Tolkien cleaning
books_df$clean_title <- str_replace_all(books_df$clean_title, "ortherebackagain", "")
books_df$clean_title <- str_replace_all(books_df$clean_title, "thelordofringsmillenniumeditionboxedset"
books_df$clean_title <- str_replace_all(books_df$clean_title, "thelordofringshobbit", "thehobbit")
#Additional Shakespeare cleaning
books_df$clean_title <- str_replace_all(books_df$clean_title, "princeofdenmark", "")
books_df$clean_title <- str_replace_all(books_df$clean_title, "textsof16031623", "")
books_df$clean_title <- str_replace_all(books_df$clean_title, "orwhatyouwill", "")

# finding how many unique titles an author has published
works_by_authors <- aggregate(books_df$clean_title, list(books_df$clean_author), FUN=function(x) length(x))
# only taking authors with more than 20 published works in the DB
prolific_authors <- works_by_authors[works_by_authors$x > 22,]

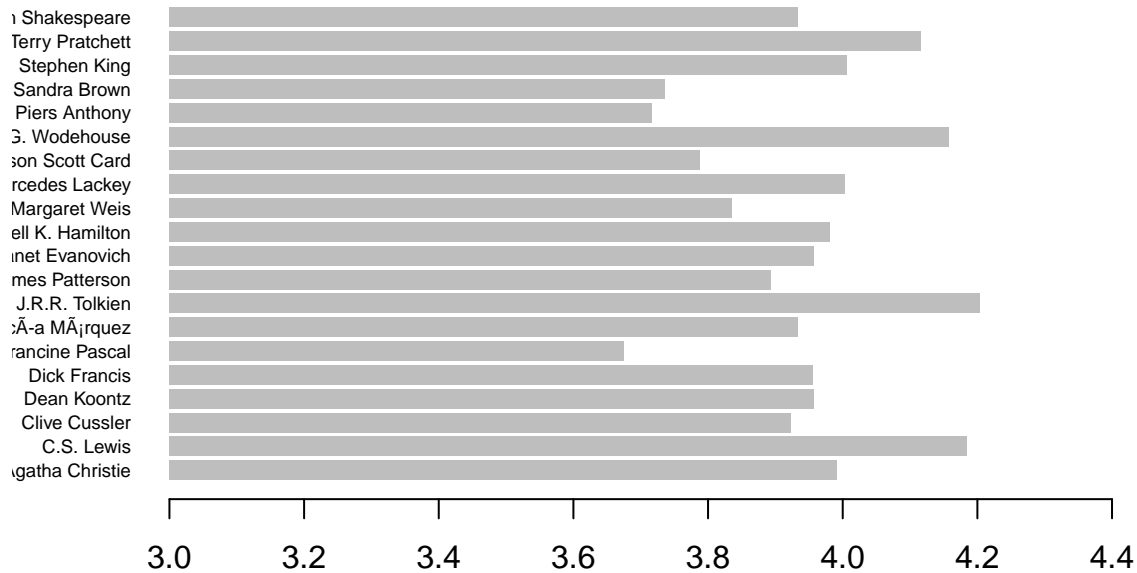
colnames(prolific_authors) <- c("clean_author", "book_count")
rownames(prolific_authors) <- prolific_authors$clean_author
prolific_authors_df <- join(books_df, prolific_authors, by="clean_author", type = "right")

# taking the average rating for these most published authors
prolific_authors_ratings <- aggregate(prolific_authors_df$average_rating, list(prolific_authors_df$clean_author), FUN=function(x) mean(x))
colnames(prolific_authors_ratings) <- c("clean_author", "ratings")

barplot(prolific_authors_ratings$ratings, las=1, horiz = T
        , cex.names = .6, xpd = FALSE
        , border = NA
        , names.arg = prolific_authors_ratings$clean_author
        , main = "Average Rating by Most Prolific Authors"
        , sub = "Authors with over 20 works in the database"
        , xlim = c(3,4.5))

```

Average Rating by Most Prolific Authors



Authors with over 20 works in the database

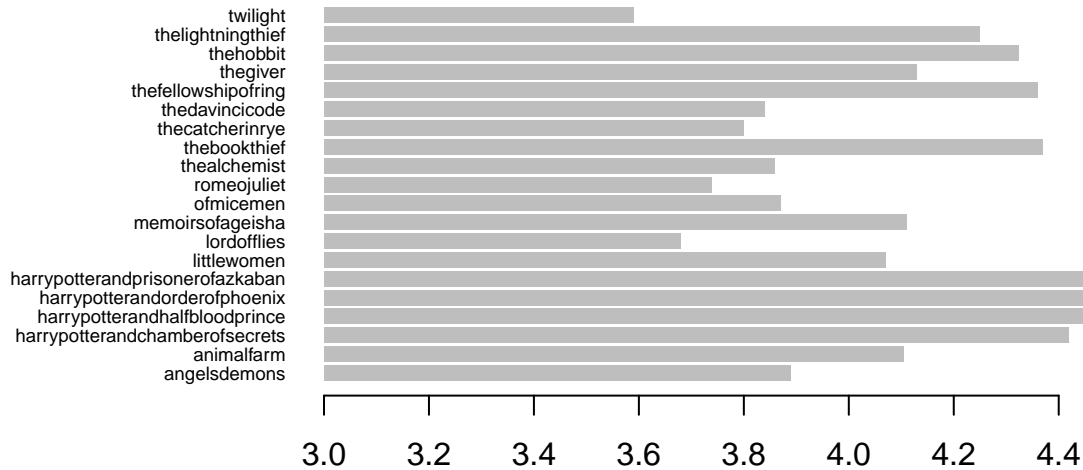
```
#####
# Multi dimension plot 2
# Barplot
# Average rating
# Book Title
# Number of Reviews

# using the same clean title variable
reviews_by_title <- aggregate(books_df$ratings_count, list(books_df$clean_title), sum)
# taking titles with more than 1.5 million reviews
reviews_by_title <- reviews_by_title[reviews_by_title$x > 1450000,]
colnames(reviews_by_title) <- c("clean_title", "total_reviews")
reviews_by_title_df <- join(books_df, reviews_by_title, by="clean_title", type = "right")

top_reviewed_ratings <- aggregate(reviews_by_title_df$average_rating, list(reviews_by_title_df$clean_title), sum)
colnames(top_reviewed_ratings) <- c("title", "ratings")

par(mar= c(6,10,6,2))
barplot(top_reviewed_ratings$ratings
  , las=1, horiz = T
  , cex.names = .6, xpd = FALSE
  , border = NA
  , names.arg = top_reviewed_ratings$title
  , main = "Average Rating by Most Reviewed Titles"
  , sub = "Titles with over 1.5 million reviews in the database"
  , xlim = c(3,4.5))
```

Average Rating by Most Reviewed Titles



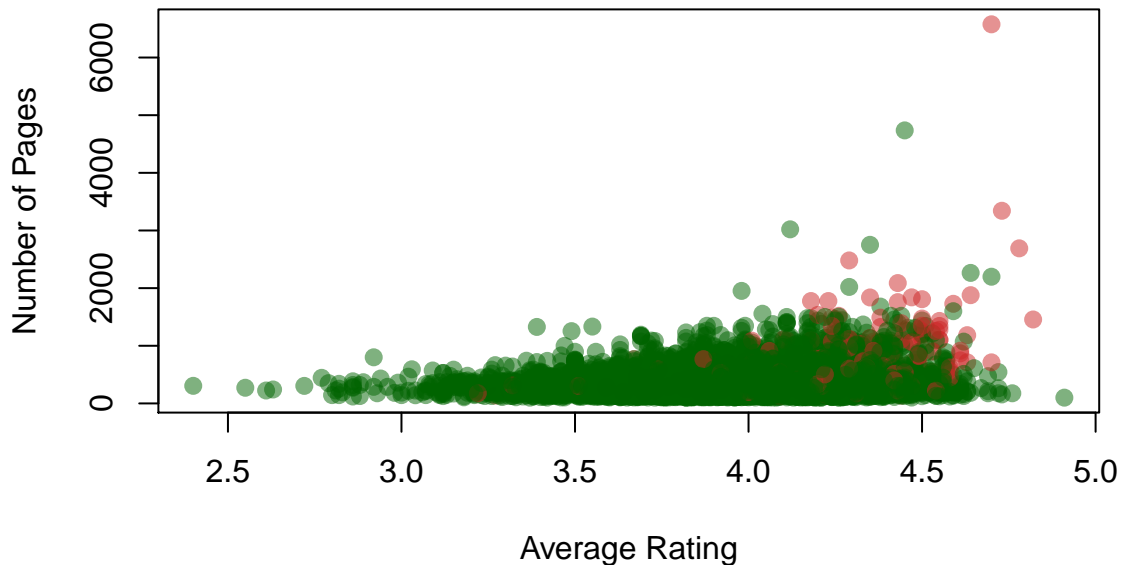
Titles with over 1.5 million reviews in the database

```
#####
# Multi dimension plot 3
# Scatterplot
# Page length
# Average rating

# using color to indicate books containing multiple works
page_col.vec <- rep(single.color, nrow(books_df))
page_col.vec[grepl("Boxed", books_df$title)] <- coll.color
page_col.vec[grepl("Collect", books_df$title)] <- coll.color
page_col.vec[grepl("Complete", books_df$title)] <- coll.color
page_col.vec[grepl("Works", books_df$title)] <- coll.color
page_col.vec[grepl("Volumes", books_df$title)] <- coll.color
page_col.vec[grepl("Anthology", books_df$title)] <- coll.color
page_col.vec[grepl("Novels", books_df$title)] <- coll.color
page_col.vec[grepl("Diction", books_df$title)] <- coll.color
page_col.vec[grepl("Volumes", books_df$title)] <- coll.color

par(mar= c(6,6,6,2))
plot(books_df$average_rating, books_df$num_pages
     , pch = 16, cex = 1.25
     , main = "Number of Pages by Average Rating"
     , xlab = "Average Rating"
     , ylab = "Number of Pages"
     , col = alpha(page_col.vec, 0.5))
```

Number of Pages by Average Rating



```
#####
# Single dimension plot 3
# Word cloud
# Book title

# getting all of the words that make up the titles and cleaning them
words <- str_extract_all(books_df$title, "[A-Za-z]+",simplify = T)
words <- tolower(words)
words <- gsub("#|[:punct:]", "", words)
words.tab <- sort(table(words), decreasing = T)
# removing words appearing less than 3 times
zap <- which(words.tab < 3)
words.tab <- words.tab[-zap]

# making a new df for the word cloud words and counts
df <- data.frame(words = names(words.tab), count = as.numeric(words.tab)
, stringsAsFactors = F)

stop_words <- c("","the", "a", "an", "for", "from", "as", "so", "of", "and", "or", "nor", "no", "far",
"with", "in", "of", "to", "on", "at", "if", "are", "was", "were", "is", "like", "has",
"its", "do", "will", "be", "then", "there", "their", "this", "that", "other", "he", "she",
"me", "my", "his", "her", "it", "own", "we", "us", "them", "cr", "st", "nin", "re", "nd",
"book", "novel", "novels", "books", "story", "letters", "writings", "stories", "essays",
"biography", "trilogy", "chronicles", "anthology", "text", "letters", "autobiography",
"by", "how", "collected", "complete", "tales", "saga", "works", "guide", "notes", "ill",
"one", "two", "three", "four", "five", "six", "seven", "eight", "nine", "ten", "i", "ii")
```



```

      "a", "b", "c", "d", "e", "f", "g", "h", "i", "j", "k", "l", "m", "n", "o", "p", "q", "r"
      "vol", "volume", "part", "sir", "mr", "mrs", "dr", "el", "la", "de", "le", "los", "las"
    )

df <- df[!(df$words %in% stop_words), ]

# colors to fill the word cloud
# gradient
wordcloud_pal <- colorRampPalette(c("black", "gray60"))

# taking words with counts greater than 15
index <- which(df$count > 10)
my.counts <- (df$count[index])^(1/2)

par(mar=c(0,0,0,0), bg = "white")

wordcloud(df$words[index], my.counts, scale = c(2, .5), min.freq = 3
, max.words = Inf, random.order = F
, random.colors = F, ordered.colors = T
, rot.per = 0, colors = wordcloud_pal(length(df$words[index])))

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

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## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in text.default(x1, y1, words[i], cex = size[i], offset = 0, srt =
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## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

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## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

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## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
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## Warning in text.default(x1, y1, words[i], cex = size[i], offset = 0, srt =
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## graphical parameter

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## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : song could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in text.default(x1, y1, words[i], cex = size[i], offset = 0, srt =
## rotWord * : "random.colors" is not a graphical parameter

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : tolkien could not be fit on page. It will not be plotted.

```

```

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : universe could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : century could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : cycle could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in text.default(x1, y1, words[i], cex = size[i], offset = 0, srt =
## rotWord * : "random.colors" is not a graphical parameter

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

```

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## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : making could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : sword could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : where could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : cookbook could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : cross could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in text.default(x1, y1, words[i], cex = size[i], offset = 0, srt =
## rotWord * : "random.colors" is not a graphical parameter

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

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## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : extraordinary could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in text.default(x1, y1, words[i], cex = size[i], offset = 0, srt =
## rotWord * : "random.colors" is not a graphical parameter

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : ghost could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : girls could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : prince could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : return could not be fit on page. It will not be plotted.

```



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## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : sex could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : before could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : body could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : dune could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : game could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

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## Warning in text.default(x1, y1, words[i], cex = size[i], offset = 0, srt =
## rotWord * : "random.colors" is not a graphical parameter

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : madness could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in text.default(x1, y1, words[i], cex = size[i], offset = 0, srt =
## rotWord * : "random.colors" is not a graphical parameter

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : reader could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : theory could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
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## Warning in text.default(x1, y1, words[i], cex = size[i], offset = 0, srt =
## rotWord * : "random.colors" is not a graphical parameter

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

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## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : work could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : adventure could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : again could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : classic could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : darkness could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : discworld could not be fit on page. It will not be plotted.

```

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## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in text.default(x1, y1, words[i], cex = size[i], offset = 0, srt =
## rotWord * : "random.colors" is not a graphical parameter

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : dragonlance could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : everything could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in text.default(x1, y1, words[i], cex = size[i], offset = 0, srt =
## rotWord * : "random.colors" is not a graphical parameter

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : greek could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

```

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## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : inside could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : james could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : jesu could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : miss could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : odyssey could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : origins could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

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## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : paradise could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in text.default(x1, y1, words[i], cex = size[i], offset = 0, srt =
## rotWord * : "random.colors" is not a graphical parameter

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : stone could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : water could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in text.default(x1, y1, words[i], cex = size[i], offset = 0, srt =
## rotWord * : "random.colors" is not a graphical parameter

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : winter could not be fit on page. It will not be plotted.

```

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## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : york could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : angels could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : beatles could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : boy could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : crime could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

```

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## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : demon could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : devil could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : dick could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : easy could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : hitchhiker could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in text.default(x1, y1, words[i], cex = size[i], offset = 0, srt =
## rotWord * : "random.colors" is not a graphical parameter

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

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## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : midnight could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : peace could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in text.default(x1, y1, words[i], cex = size[i], offset = 0, srt =
## rotWord * : "random.colors" is not a graphical parameter

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : shannara could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : son could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : sun could not be fit on page. It will not be plotted.

```

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## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : ultimate could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : worlds could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : ancient could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : blake could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : boys could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

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## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : business could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : case could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : classics could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : collection could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : every could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : gods could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

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## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : hope could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : inspector could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : know could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : lady could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : land could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : macbeth could not be fit on page. It will not be plotted.

```

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## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : maison could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : nature could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : over could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : perfect could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : poirot could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

```

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## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : quest could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : reflections could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : robert could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in text.default(x1, y1, words[i], cex = size[i], offset = 0, srt =
## rotWord * : "random.colors" is not a graphical parameter

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : second could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : soul could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

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## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : travels could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in text.default(x1, y1, words[i], cex = size[i], offset = 0, srt =
## rotWord * : "random.colors" is not a graphical parameter

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : anita could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : being could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : chronicle could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : cold could not be fit on page. It will not be plotted.

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## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : dummies could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : glass could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : hercule could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : hidden could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : language could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

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## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : most could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : natural could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : only could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : park could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : philip could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : side could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

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## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : they could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : wicked could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : austen could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : between could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : bible could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in text.default(x1, y1, words[i], cex = size[i], offset = 0, srt =
## rotWord * : "random.colors" is not a graphical parameter

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## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : clancy could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : contemporary could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in text.default(x1, y1, words[i], cex = size[i], offset = 0, srt =
## rotWord * : "random.colors" is not a graphical parameter

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : doctor could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : early could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

```

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## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : eden could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : goddess could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : heaven could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : ikkoku could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : just could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : kingdom could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

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## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : ladies could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : legacy could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : mark could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : mirror could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : mother could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : never could not be fit on page. It will not be plotted.

```

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## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : personal could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : peter could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : pitt could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : place could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : portrait could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

```

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## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : princess could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in text.default(x1, y1, words[i], cex = size[i], offset = 0, srt =
## rotWord * : "random.colors" is not a graphical parameter

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : rising could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : stars could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : trek could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : valdemar could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

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## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : xanth could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : betsy could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : blues could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : bride could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : changed could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : christian could not be fit on page. It will not be plotted.

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## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : critical could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : europe could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : evolution could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in text.default(x1, y1, words[i], cex = size[i], offset = 0, srt =
## rotWord * : "random.colors" is not a graphical parameter

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : forever could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

```

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## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : free could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : galaxy could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : garden could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : gone could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : hamlet could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : hard could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

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## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : laura could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : lover could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : mary could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : mysteries could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : nothing could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : plum could not be fit on page. It will not be plotted.

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## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : politics could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : revolution could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : shadows could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in text.default(x1, y1, words[i], cex = size[i], offset = 0, srt =
## rotWord * : "random.colors" is not a graphical parameter

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : strange could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

```

```

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : stranger could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : think could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : thomas could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : view could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : web could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : adams could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

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## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : bad could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : confessions could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : conversations could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : design could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : east could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : edge could not be fit on page. It will not be plotted.

```

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## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : fantasy could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : friends could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in text.default(x1, y1, words[i], cex = size[i], offset = 0, srt =
## rotWord * : "random.colors" is not a graphical parameter

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : future could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : golden could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

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## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : here could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : holmes could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : hundred could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : ingalls could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : lincoln could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : memoirs could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

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## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : mountain could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : myth could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : paris could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : ranma could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : recipes could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : richard could not be fit on page. It will not be plotted.

```

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## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : series could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : sister could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : street could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : thinking could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in text.default(x1, y1, words[i], cex = size[i], offset = 0, srt =
## rotWord * : "random.colors" is not a graphical parameter

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

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## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : tree could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : wilder could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : william could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : witch could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : without could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : wonderland could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

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## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : against could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in text.default(x1, y1, words[i], cex = size[i], offset = 0, srt =
## rotWord * : "random.colors" is not a graphical parameter

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in text.default(x1, y1, words[i], cex = size[i], offset = 0, srt =
## rotWord * : "random.colors" is not a graphical parameter

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : anne could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : bleach could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : bosch could not be fit on page. It will not be plotted.

```

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## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : change could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : cthulhu could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : democracy could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : detective could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : double could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

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## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : dragons could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : dynasty could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in text.default(x1, y1, words[i], cex = size[i], offset = 0, srt =
## rotWord * : "random.colors" is not a graphical parameter

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in text.default(x1, y1, words[i], cex = size[i], offset = 0, srt =
## rotWord * : "random.colors" is not a graphical parameter

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : force could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : happiness could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

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## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in text.default(x1, y1, words[i], cex = size[i], offset = 0, srt =
## rotWord * : "random.colors" is not a graphical parameter

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : identity could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in text.default(x1, y1, words[i], cex = size[i], offset = 0, srt =
## rotWord * : "random.colors" is not a graphical parameter

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : memory could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : name could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : planet could not be fit on page. It will not be plotted.

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## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : republic could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : sense could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : sherlock could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : something could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : want could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

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## Warning in text.default(x1, y1, words[i], cex = size[i], offset = 0, srt =
## rotWord * : "random.colors" is not a graphical parameter

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : write could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : angel could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : atlas could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : augustine could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : awakening could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

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## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : birds could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : circle could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in text.default(x1, y1, words[i], cex = size[i], offset = 0, srt =
## rotWord * : "random.colors" is not a graphical parameter

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : crown could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in text.default(x1, y1, words[i], cex = size[i], offset = 0, srt =
## rotWord * : "random.colors" is not a graphical parameter

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in text.default(x1, y1, words[i], cex = size[i], offset = 0, srt =
## rotWord * : "random.colors" is not a graphical parameter

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## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : falls could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : gate could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : genius could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : greatest could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : hand could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

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## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : handbook could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : hour could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : inner could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : joe could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : letter could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in text.default(x1, y1, words[i], cex = size[i], offset = 0, srt =
## rotWord * : "random.colors" is not a graphical parameter

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

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## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : lion could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : london could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : machine could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : made could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : masters could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : materials could not be fit on page. It will not be plotted.

```

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## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : meaning could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : oedipus could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : poetry could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : point could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : right could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

```

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## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : rome could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : room could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in text.default(x1, y1, words[i], cex = size[i], offset = 0, srt =
## rotWord * : "random.colors" is not a graphical parameter

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : scarlet could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : season could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : small could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

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## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : stephanie could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : strategy could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : tower could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : treasure could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : trial could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : understanding could not be fit on page. It will not be plotted.

```



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## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : virginia could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : western could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : agency could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in text.default(x1, y1, words[i], cex = size[i], offset = 0, srt =
## rotWord * : "random.colors" is not a graphical parameter

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : alone could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

```

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## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : ballet could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : classical could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : comedy could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : desire could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : getting could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : hot could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

```

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## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : iliad could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : invisible could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : japan could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : jones could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : journal could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : leadership could not be fit on page. It will not be plotted.

```

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## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : literature could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : make could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : management could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : myths could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : naked could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

```

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## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : next could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : practical could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : reading could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : set could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : sleeping could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : sparrow could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

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## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : stephen could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : tacy could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : translation could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : underworld could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : vinci could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : voyage could not be fit on page. It will not be plotted.

```

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## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : walk could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : warrior could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in text.default(x1, y1, words[i], cex = size[i], offset = 0, srt =
## rotWord * : "random.colors" is not a graphical parameter

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : wheel could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in text.default(x1, y1, words[i], cex = size[i], offset = 0, srt =
## rotWord * : "random.colors" is not a graphical parameter

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

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## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : wrong could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : adam could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : amazing could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : annotated could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : apprentice could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : artemis could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

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## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : artist could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : away could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : beautiful could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : beloved could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : birth could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : coming could not be fit on page. It will not be plotted.

```

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## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : criticism could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : diaries could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : dracula could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : dying could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : eternal could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

```

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## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : euripides could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : everyday could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : flying could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : fowl could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : frankenstein could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : freedom could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

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## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : french could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : geisha could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : journals could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : joy could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : judy could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : justice could not be fit on page. It will not be plotted.

```

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## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : key could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : kitchen could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : lake could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : look could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : mythology could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

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## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : nightmare could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : nights could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : north could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : official could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : origin could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : outlander could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

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## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : papers could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : physics could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : picture could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : play could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : portable could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : pride could not be fit on page. It will not be plotted.

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## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : psychology could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : punishment could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : reason could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : revolutionary could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : rpg could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

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## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : saint could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : salem could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : scarpetta could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : shoes could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : shopaholic could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : sky could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

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## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : swords could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : tell could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : thief could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : thing could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : tragedy could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : whole could not be fit on page. It will not be plotted.

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## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : wolf could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : woolf could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : writer could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : amber could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : ana could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

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## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : anna could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : bite could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : bizarre could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : bones could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : broken could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : changeling could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

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## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : chocolate could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : church could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : class could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : classroom could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : color could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : common could not be fit on page. It will not be plotted.

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## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : cook could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : dictionary could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : discovery could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : drifting could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : ender could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

```

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## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : english could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : epic could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : ethics could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : exile could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : fables could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : face could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

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## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : finn could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : food could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : gospel could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : gray could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : half could not be fit on page. It will not be plotted.

```



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## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : hall could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : happy could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : heat could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : hemingway could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : horror could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

```

```

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : india could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : intelligence could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : italy could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : jojo could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : knows could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : lessons could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

```

```

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in text.default(x1, y1, words[i], cex = size[i], offset = 0, srt =
## rotWord * : "random.colors" is not a graphical parameter

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : mage could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : magician could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : mars could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : michael could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : moby could not be fit on page. It will not be plotted.

```

```

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : moody could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : movie could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : much could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : nicas could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : omnibus could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

```

```

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : passion could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : philosophical could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : plato could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : prophet could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : prose could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : rabbit could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

```

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## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : religion could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : remember could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : silent could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : social could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : soldier could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : species could not be fit on page. It will not be plotted.

```

```

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : spider could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : spiritual could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : step could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : terror could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : thoughts could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

```

```

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : twelve could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : twenty could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : visual could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : walking could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : witches could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : youth could not be fit on page. It will not be plotted.

## Warning in strwidth(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

```



```
## Warning in strheight(words[i], cex = size[i], ...): "random.colors" is not a
## graphical parameter

## Warning in wordcloud(df$words[index], my.counts, scale = c(2, 0.5), min.freq =
## 3, : zero could not be fit on page. It will not be plotted.
```



```
#####
# Multi dimension plot 4
# Scatterplot
# Number of reviews
# Number of ratings
# Average rating

par(mar = c(7,5,4,4))
# bad to good
mycolvec <- colorRampPalette(c("red", "blue"))

books_df_trimmed <- books_df[books_df$text_reviews_count < 75000,] # removes 2 datapoints
books_df_trimmed <- books_df_trimmed[books_df_trimmed$text_reviews_count > 0,] # not interesting

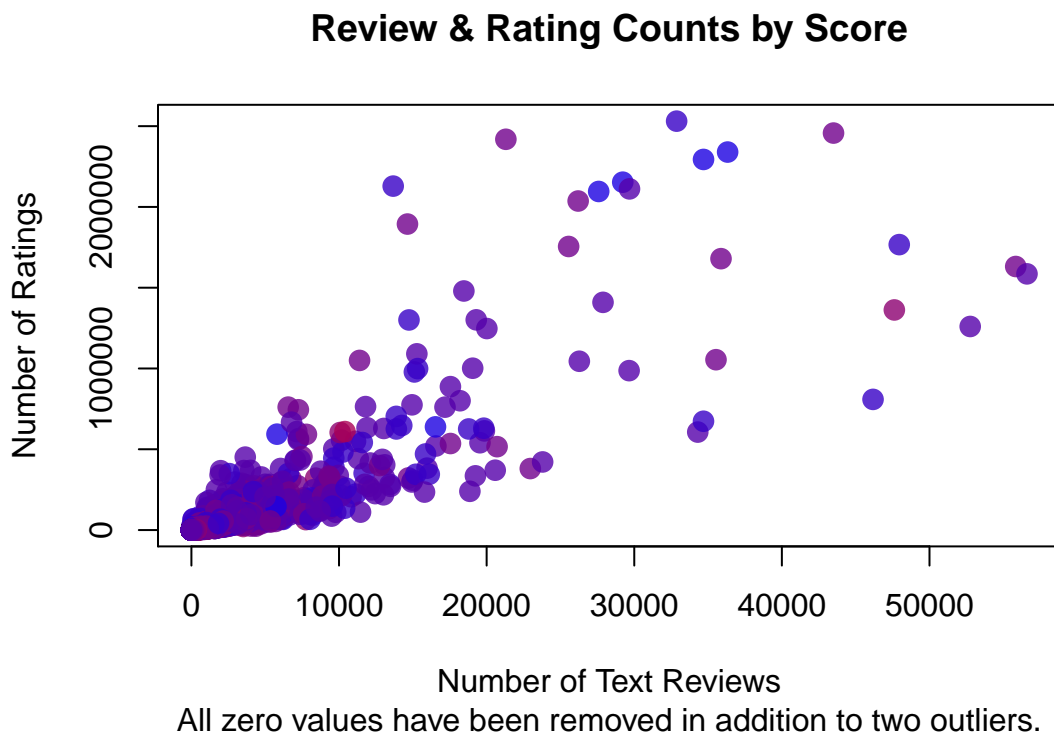
num_breaks=10
books_df_trimmed$Col <- mycolvec(num_breaks)[as.numeric(cut(books_df_trimmed$average_rating,breaks = num_breaks,labels=cut(books_df_trimmed$average_rating,breaks = num_breaks))

## [1] "(2.4,2.65]" "(2.65,2.9]" "(2.9,3.15]" "(3.15,3.4]" "(3.4,3.65]"
## [6] "(3.65,3.91]" "(3.91,4.16]" "(4.16,4.41]" "(4.41,4.66]" "(4.66,4.91]"
```

```
table(books_df_trimmed$Col)
```

```
##
## #0000FF #1C00E2 #3800C6 #5500AA #71008D #8D0071 #AA0055 #C60038 #E2001C #FF0000
##      14      335     1722     3385     2674     974      245      47      17      4
```

```
plot(books_df_trimmed$text_reviews_count, books_df_trimmed$ratings_count
     , col = alpha(books_df_trimmed$Col, .8)
     , pch = 16
     , cex = 1.5
     , main = "Review & Rating Counts by Score"
     , xlab = "Number of Text Reviews"
     , ylab = "Number of Ratings"
     , sub = "All zero values have been removed in addition to two outliers.")
```



```
pop_books <- books_df_trimmed[books_df_trimmed$text_reviews_count > 10000,]
pop_books <- books_df_trimmed[books_df_trimmed$ratings_count > 500000,]

pop_books$numtotext <- pop_books$ratings_count/pop_books$text_reviews_count

pop_books <- pop_books[, c(2,3,4,9,10,17)]
```