Untitled

```
library(streamR)
## Loading required package: RCurl
## Loading required package: bitops
## Loading required package: rjson
library(twitteR)
library(qdap)
## Loading required package: qdapDictionaries
## Loading required package: qdapRegex
## Loading required package: qdapTools
## Attaching package: 'qdapTools'
## The following object is masked from 'package:twitteR':
##
       id
## Loading required package: RColorBrewer
##
## Attaching package: 'qdap'
## The following object is masked from 'package:base':
##
##
       Filter
library(ggplot2)
##
## Attaching package: 'ggplot2'
## The following object is masked from 'package:qdapRegex':
##
##
       %+%
library(wordcloud)
library(RColorBrewer)
load("my oauth.Rdata")
library(RgoogleMaps)
library(ggmap)
## Google Maps API Terms of Service: http://developers.google.com/maps/terms.
## Please cite ggmap if you use it: see citation("ggmap") for details.
library(ggplot2)
#library(maptools)
library(sp)
library(grid)
```

```
tweets1.df <- parseTweets("tweetUS.json", verbose=FALSE)</pre>
devtools::install_github("dkahle/ggmap")
## Skipping install of 'ggmap' from a github remote, the SHA1 (c6b75792) has not changed since last ins
    Use `force = TRUE` to force installation
devtools::install_github("hadley/ggplot2")
## Skipping install of 'ggplot2' from a github remote, the SHA1 (f6f9f9de) has not changed since last in
     Use `force = TRUE` to force installation
points <- data.frame(x=as.numeric(tweets1.df$place_lon),</pre>
                     y=as.numeric(tweets1.df$place_lat))
library(maps)
map.data <- map_data("state")</pre>
ggplot(map.data)+
  geom_map(aes(map_id=region),
           map=map.data,
           fill="white",
           color="grey20",size=0.25)+
  expand_limits(x=map.data$long,y=map.data$lat)+
  theme(axis.line=element_blank(),
        axis.text=element_blank(),
        axis.ticks=element_blank(),
        axis.title=element_blank(),
        panel.background=element_blank(),
        panel.border=element_blank(),
        panel.grid.major=element_blank(),
        plot.background=element_blank(),
        plot.margin=unit(0*c(-1.5,-1.5,-1.5,-1.5),"lines"))+
  geom_point(data=points,
             aes(x=x,y=y),size=1,
             alpha=1/5, color="darkblue")
```

Warning: Removed 1 rows containing missing values (geom_point).

Warning: Removed 222 rows containing missing values (geom_point).

ggmap(map.data)+ geom_point(data=points,

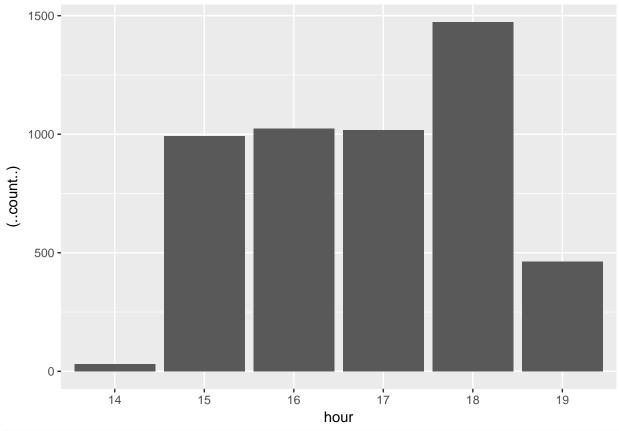
Source : https://maps.googleapis.com/maps/api/geocode/json?address=Los%20Angeles

aes(x=x,y=y),size=1,
color="darkblue")

Distribution of words per tweet

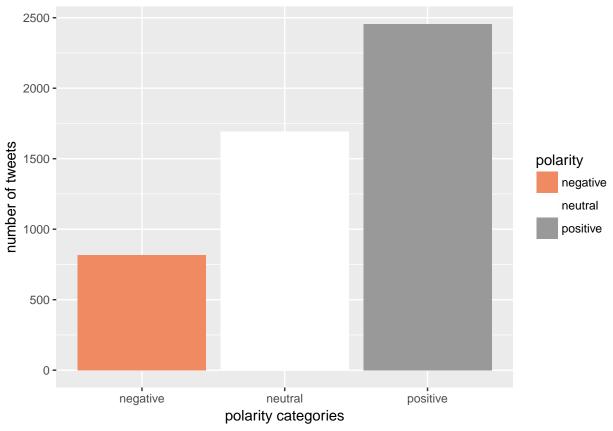
```
100
9
40
20
0
            3
                5
                    7
                        9
                           11
                                  14
                                        17
                                              20
                                                    23
                                                           26
                                                                 29
                                                                       32
# how many hashtags per tweet
hash_per_tweet = sapply(words_list, function(x) length(grep("#", x)))
table(hash_per_tweet)
## hash_per_tweet
      0
           1
                                5
                                                    11
                     3
                                     6
                                          7
## 1605 150
               61
                    43
                          62
                               38
                                    15
prop.table(table(hash_per_tweet))
## hash_per_tweet
                                         2
                                                      3
##
                            1
## 0.8077503775 0.0754906895 0.0306995471 0.0216406643 0.0312028183
##
## 0.0191243080 0.0075490689 0.0040261701 0.0020130851 0.0005032713
# how many @mentions per tweet
ats_per_tweet = sapply(words_list, function(x) length(grep("0", x)))
table(ats_per_tweet)
## ats_per_tweet
      0
           1
                     3
                                     6
                                          8
                                               9
## 1257 549 132
                    29
                           7
                                6
                                               1
                                          2
prop.table(table(ats_per_tweet))
## ats_per_tweet
## 0.6326119779 0.2762959235 0.0664318067 0.0145948666 0.0035228988
                            6
## 0.0030196276 0.0020130851 0.0010065425 0.0005032713
library(devtools)
library(twitteR)
api_key <- "bDp95I7S9arvEqPb8SccZ20Nn"</pre>
```

```
api_secret <- "piocWoAvWB4bcNbOW9VIaFOYyT2TUpi6TOakHg3voV4iiXX1QM"</pre>
access_token <- "793892699619426304-j8D2ivAINuq7fk702m9pg1RE70QCHnP"
access_token_secret <- "Aa4fUH303hHdtxdWwhHpCabs9G6jwBcZTr8Jya4ubwL0c"</pre>
setup_twitter_oauth(api_key, api_secret, access_token, access_token_secret)
## [1] "Using direct authentication"
require(devtools)
require(sentiment)
## Loading required package: sentiment
## Loading required package: tm
## Loading required package: NLP
## Attaching package: 'NLP'
## The following object is masked from 'package:ggplot2':
##
##
       annotate
## The following object is masked from 'package:qdap':
##
##
       ngrams
##
## Attaching package: 'tm'
## The following objects are masked from 'package:qdap':
##
       as.DocumentTermMatrix, as.TermDocumentMatrix
##
## Loading required package: Rstem
tweets1<- searchTwitter("Trump OR #Trump", n=5000, geocode="37.77493,-122.4194,50mi")
df1 <- twListToDF(tweets1)</pre>
#### numbers of tweets in each hour
count <- function(x){</pre>
 b <- vector(mode = "numeric",length=0)</pre>
 for (i in (1:length(x))){
    a = strsplit(as.character(x[i]),' ')
   a = a[[1]][2]
   a = strsplit(a,":")
   b = c(b,a[[1]][1])
  }
 return(b)
hour <-count(df1$created)
df1$hour <- hour
ggplot(df1,aes(x=hour))+geom_bar(aes(y=(..count..)))
```



```
txt1 = sapply(tweets1, function(x) x$getText())
# remove retweet entities
txt1 = gsub("(RT|via)((?:\\b\\W*@\\w+)+)", "", txt1)
# remove at people
txt1 = gsub("@\\w+", "", txt1)
# remove punctuation
txt1 = gsub("[[:punct:]]", "", txt1)
# remove numbers
txt1 = gsub("[[:digit:]]", "", txt1)
# remove html links
txt1 = gsub("http\\w+", "", txt1)
# remove unnecessary spaces
txt1 = gsub("[\t]{2,}", "", txt1)
txt1 = gsub("^\s+|\s+$", "", txt1)
# define "tolower error handling" function
try.error = function(x)
{
  # create missing value
  y = NA
  # tryCatch error
  try_error = tryCatch(tolower(x), error=function(e) e)
  # if not an error
  if (!inherits(try_error, "error"))
    y = tolower(x)
  # result
```

```
return(y)
}
# lower case using try.error with sapply
txt1 = sapply(txt1, try.error)
# remove NAs in some_txt
txt1 = txt1[!is.na(txt1)]
names(txt1) = NULL
# classify emotion
class_emo = classify_emotion(txt1, algorithm="bayes", prior=1.0)
# get emotion best fit
emotion = class_emo[,7]
# substitute NA's by "unknown"
emotion[is.na(emotion)] = "unknown"
class_pol = classify_polarity(txt1, algorithm="bayes")
# get polarity best fit
polarity = class_pol[,4]
# data frame with results
sent_df = data.frame(text=txt1, emotion=emotion,
                     polarity=polarity, stringsAsFactors=FALSE)
# sort data frame
sent_df = within(sent_df,
                 emotion <- factor(emotion, levels=names(sort(table(emotion), decreasing=TRUE))))</pre>
# plot distribution of polarity
ggplot(sent_df, aes(x=polarity)) +
  geom_bar(aes(y=..count.., fill=polarity)) +
  scale_fill_brewer(palette="RdGy") +
  labs(x="polarity categories", y="number of tweets")
```



```
# Word clouds!!!

txt1 <- gsub(" (the|to|is|its|on|and|of|in|for|a|after|from|but|that|about|was|you|it|i|with|if|so|can|
require(tm)
require(wordcloud)
require(RColorBrewer)
ap.corpus <- Corpus(DataframeSource((data.frame(as.character(txt1)))))
ap.corpus <- tm_map(ap.corpus, removePunctuation)
ap.corpus <- tm_map(ap.corpus, function(x) removeWords(x, stopwords("english")))

ap.tdm <- TermDocumentMatrix(ap.corpus)
ap.m <- as.matrix(ap.tdm)

ap.v <- sort(rowSums(ap.m),decreasing=TRUE)
ap.d <- data.frame(word = names(ap.v),freq=ap.v)
wordcloud(ap.d$word,ap.d$freq, scale=c(8,.2),min.freq=3,max.words=300, random.order=FALSE, rot.per=.15,</pre>
```

```
###Chicago
tweets5.df <- parseTweets("tweetC.json",verbose=FALSE)

points5 <- data.frame(x=as.numeric(tweets5.df$place_lat))

map.data2 <- get_map("Chicago",zoom=9)
```

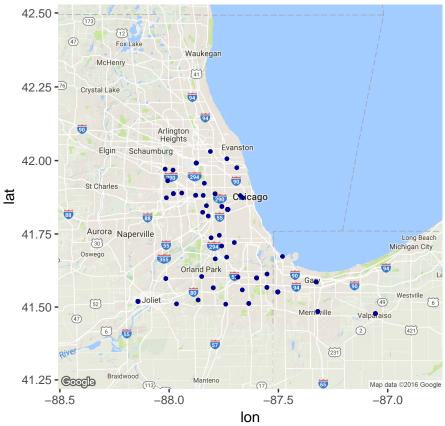
Source : https://maps.googleapis.com/maps/api/staticmap?center=Chicago&zoom=9&size=640x640&scale=2&m

Warning: Removed 125 rows containing missing values (geom_point).

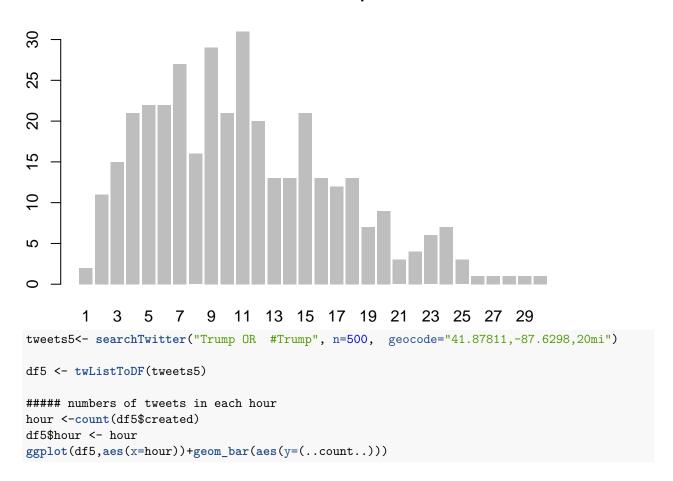
ggmap(map.data2)+ geom_point(data=points5,

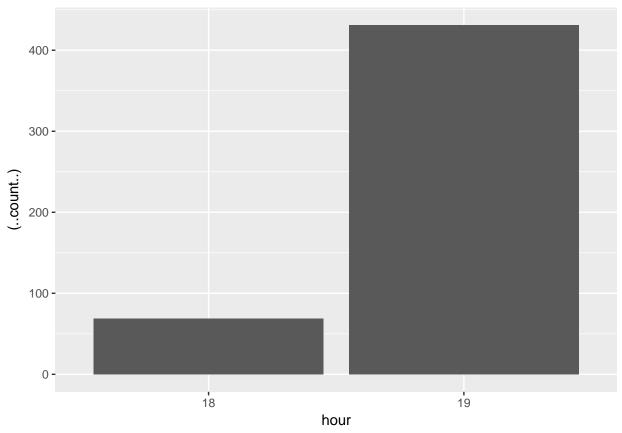
Source : https://maps.googleapis.com/maps/api/geocode/json?address=Chicago

aes(x=x,y=y),size=1,
color="darkblue")



Distribution of words per tweet

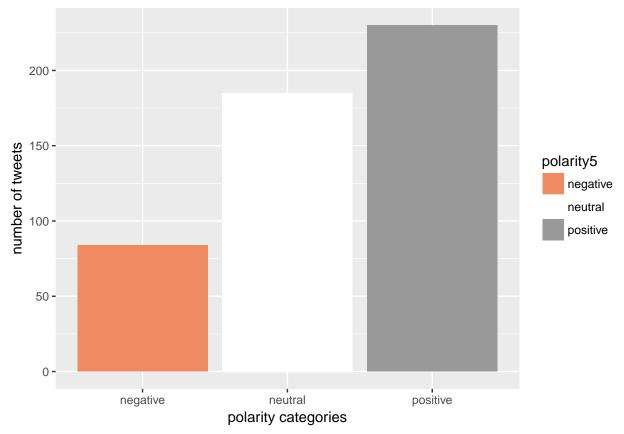




```
txt5 = sapply(tweets5, function(x) x$getText())
txt5 = gsub("(RT|via)((?: \b\\\\\)+)", "", txt5)
txt5 = gsub("@\\\"", "", txt5)
txt5 = gsub("[[:punct:]]", "", txt5)
txt5 = gsub("[[:digit:]]", "", txt5)
txt5 = gsub("http\\w+", "", txt5)
txt5 = gsub("[ \t]{2,}", "", txt5)
txt5 = gsub("^{\s+}|\s+$", "", txt5)
txt5 = sapply(txt5, try.error)
txt5 = txt5[!is.na(txt5)]
names(txt5) = NULL
# classify emotion
class_emo5 = classify_emotion(txt5, algorithm="bayes", prior=1.0)
emotion5 = class_emo5[,7]
emotion5[is.na(emotion5)] = "unknown"
class_pol5 = classify_polarity(txt5, algorithm="bayes")
# get polarity best fit
polarity5 = class_pol5[,4]
# data frame with results
sent_df5 = data.frame(text=txt5, emotion=emotion5,
                       polarity=polarity5, stringsAsFactors=FALSE)
# sort data frame
sent_df5 = within(sent_df5,
```

```
emotion5 <- factor(emotion5, levels=names(sort(table(emotion5), decreasing=TRUE))))

# plot distribution of polarity
ggplot(sent_df5, aes(x=polarity5)) +
    geom_bar(aes(y=..count.., fill=polarity5)) +
    scale_fill_brewer(palette="RdGy") +
    labs(x="polarity categories", y="number of tweets")</pre>
```



```
library(wordcloud)

ap.corpus <- Corpus(DataframeSource((data.frame(as.character(txt5)))))
ap.corpus <- tm_map(ap.corpus, removePunctuation)
ap.corpus <- tm_map(ap.corpus, function(x) removeWords(x, stopwords("english")))

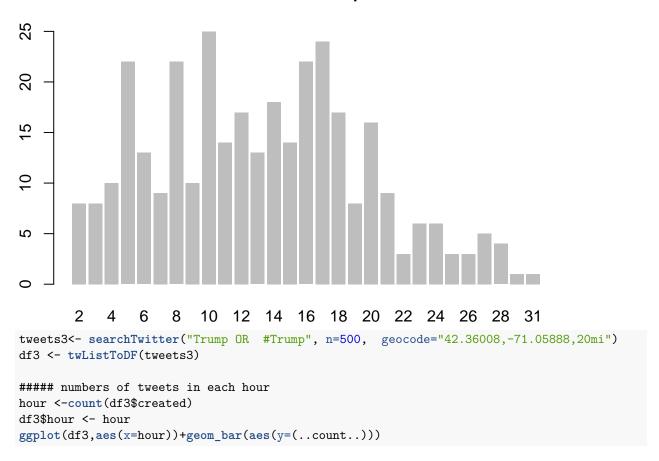
ap.tdm <- TermDocumentMatrix(ap.corpus)
ap.m <- as.matrix(ap.tdm)
ap.v <- sort(rowSums(ap.m),decreasing=TRUE)
ap.d <- data.frame(word = names(ap.v),freq=ap.v)
wordcloud(ap.d$word,ap.d$freq, scale=c(8,.2),min.freq=3,max.words=200, random.order=FALSE, rot.per=.15,</pre>
```

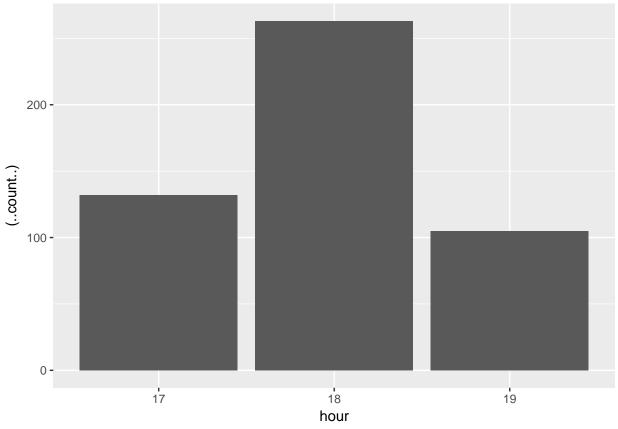
```
believing second decades waitthe aways or one of cabinet to second secon
```

Warning: Removed 123 rows containing missing values (geom_point).

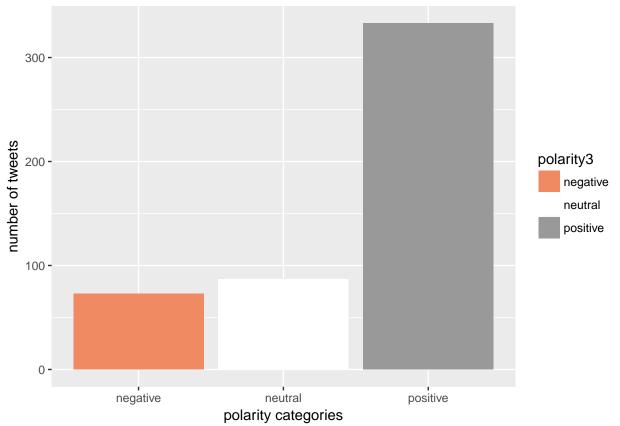
```
43.00 -
                                                                  95 (1A)
                                                             (150) Hampton
                         Amherst
                                                              Newberyport
    42.75
                                                                            Rockport
                                                                         Gloucester
    42.50 -
<u>a</u>t
    42.25 -
                                                                      (3A)
               Auburn
                                                                      (123)
               395
                                                                       Marshfield
    42.00 -
                                                                     Plymouth
              395
             Putnam |
                                                    Taurton
               Killingly 6
    41.75 - @
                                                                                     Map data ©2016 Google
                               -71.5
                                                        -71.0
                                                                                  -70.5
                                                       lon
```

Distribution of words per tweet



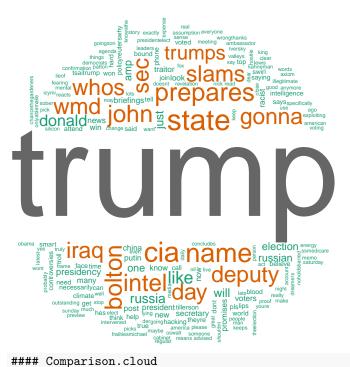


```
#######
txt3 = sapply(tweets3, function(x) x$getText())
txt3 = gsub("(RT|via)((?: \b\W*@\w+)+)", "", txt3)
txt3 = gsub("@\\\"", "", txt3)
txt3 = gsub("[[:punct:]]", "", txt3)
txt3 = gsub("[[:digit:]]", "", txt3)
txt3 = gsub("http\\w+", "", txt3)
txt3 = gsub("[ \t]{2,}", "", txt3)
txt3 = gsub("^{s+|\s+$"}, "", txt3)
txt3 = sapply(txt3, try.error)
txt3 = txt3[!is.na(txt3)]
names(txt3) = NULL
# classify emotion
class_emo3 = classify_emotion(txt3, algorithm="bayes", prior=1.0)
emotion3 = class_emo3[,7]
emotion3[is.na(emotion3)] = "unknown"
class_pol3 = classify_polarity(txt3, algorithm="bayes")
# get polarity best fit
polarity3 = class_pol3[,4]
# data frame with results
sent df3 = data.frame(text=txt3, emotion=emotion3,
                       polarity=polarity3, stringsAsFactors=FALSE)
# sort data frame
```



```
ap.corpus <- Corpus(DataframeSource((data.frame(as.character(txt3)))))
ap.corpus <- tm_map(ap.corpus, removePunctuation)
ap.corpus <- tm_map(ap.corpus, function(x) removeWords(x, stopwords("english")))

ap.tdm <- TermDocumentMatrix(ap.corpus)
ap.m <- as.matrix(ap.tdm)
ap.v <- sort(rowSums(ap.m),decreasing=TRUE)
ap.d <- data.frame(word = names(ap.v),freq=ap.v)
wordcloud(ap.d$word,ap.d$freq, scale=c(8,.2),min.freq=3,max.words=200, random.order=FALSE, rot.per=.15,</pre>
```



```
la = paste(txt1, collapse=" ")
ch = paste(txt5, collapse=" ")
bo = paste(txt3, collapse=" ")
all = c(la, ch, bo)
all = removeWords(all, c(stopwords("english"), "trump", "the", "a", "he", "an", "that", "to"))
# create corpus
corpus = Corpus(VectorSource(all))
# create term-document matrix
tdm = TermDocumentMatrix(corpus)
# convert as matrix
tdm = as.matrix(tdm)
# add column names
colnames(tdm) = c("Los Angeles", "Chicago", "Boston")
# comparison cloud
comparison.cloud(tdm, random.order=FALSE,
                 colors = c("#00B2FF", "red", "#FF0099"),
                 title.size=1.5, max.words=500)
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : community could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : risking could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : enlightenmenttru could not be fit on page. It will not be
## plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
```

```
## c("#00B2FF", : continue could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : supporters could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : resistance could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : vogue could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : knew could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : away could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : frailtiesmichael could not be fit on page. It will not be
## plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : illegitimate could not be fit on page. It will not be
## plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : ssmedicare could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : wrongthanks could not be fit on page. It will not be
## plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : climate could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : interference could not be fit on page. It will not be
## plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : voting could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : putin could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : elect could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : please could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : every could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : saturday could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : regular could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : elected could not be fit on page. It will not be plotted.
```

```
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : close could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : media could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : backing could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : words could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : maybe could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : tillerson could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : phallus could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : energy could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : dworkinfor could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : acolytes could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : ambassador could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : assumption could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : chancethegardeners could not be fit on page. It will not be
## plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : confirmation could not be fit on page. It will not be
## plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : expense could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : goingson could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : king could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : knowsthe could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : onlyablemake could not be fit on page. It will not be
## plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : outstanding could not be fit on page. It will not be
## plotted.
```

```
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : overthink could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : preview could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : pursue could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : sober could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : cleanenergy could not be fit on page. It will not be
## plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : default could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : icymi could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : memo could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : theyre could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : admin could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : honest could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : moving could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : hashtag could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : dreamers could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : false could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : probably could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : either could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : clear could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : hostile could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
\mbox{\tt \#\# c("\#00B2FF", : called could not be fit on page. It will not be plotted.}
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : anymore could not be fit on page. It will not be plotted.
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## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : fearing could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : keeps could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : talking could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : ashamed could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : democrats could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : now could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : sunday could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : real could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : advised could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : others could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : presidentelect could not be fit on page. It will not be
## plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : meddled could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
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## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : pick could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : calls could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : trumprelated could not be fit on page. It will not be
## plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : shouldnt could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : use could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : told could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : great could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : finally could not be fit on page. It will not be plotted.
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## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
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## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : transplants could not be fit on page. It will not be
## plotted.
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## c("#00B2FF", : explicit could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : fuhrerprinzip could not be fit on page. It will not be
## plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
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## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : negotiator could not be fit on page. It will not be plotted.
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## c("#00B2FF", : okay could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : parisagreement could not be fit on page. It will not be
## plotted.
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## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
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## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
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## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
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## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : part could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : reagan could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : though could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : really could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
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## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : economic could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : remotely could not be fit on page. It will not be plotted.
```

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## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
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## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : behind could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : crap could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : marco could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
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## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
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## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
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## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : arent could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : hamiltonelectors could not be fit on page. It will not be
## plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : tried could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : party could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : getting could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : neonazis could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
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## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : enemies could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
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## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : loud could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : investigation could not be fit on page. It will not be
## plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : thing could not be fit on page. It will not be plotted.
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## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
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## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : interfered could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : complain could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : page could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : usually could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : returns could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
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## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : holy could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
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## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : republican could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : fight could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : maga could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : long could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
\#\# c(\#00B2FF\#, : amendmentamerican could not be fit on page. It will not be
## plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : bipartisan could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : second could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : crashes could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : critique could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
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## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : facing could not be fit on page. It will not be plotted.
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## c("#00B2FF", : health could not be fit on page. It will not be plotted.
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## c("#00B2FF", : planning could not be fit on page. It will not be plotted.
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## c("#00B2FF", : travelingnews could not be fit on page. It will not be
## plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : trumpified could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
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## plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
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## plotted.
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## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : biggest could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : chose could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : cranston could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
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## plotted.
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## c("#00B2FF", : save could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : senator could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : heres could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : without could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
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c("#00B2FF", : white could not be fit on page. It will not be plotted.

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## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : may could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : introducing could not be fit on page. It will not be
## plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : interview could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
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## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
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## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
\mbox{\tt \#\# c("\#00B2FF", : work could not be fit on page. It will not be plotted.}
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : seen could not be fit on page. It will not be plotted.
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## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
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## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
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## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
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## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
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## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : happens could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : hacked could not be fit on page. It will not be plotted.
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## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
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## plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : right could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
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## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : muslim could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
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## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
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## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
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## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
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## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
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## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : way could not be fit on page. It will not be plotted.
## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
## c("#00B2FF", : predicted could not be fit on page. It will not be plotted.
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## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
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## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
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## Warning in comparison.cloud(tdm, random.order = FALSE, colors =
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R Markdown

This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see http://rmarkdown.rstudio.com.

When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

Including Plots

You can also embed plots, for example:

Note that the echo = FALSE parameter was added to the code chunk to prevent printing of the R code that generated the plot.