

```
# Load require library
```

```
library(tidyverse)
```

```
library(leaflet)
```

```
library(ggmap)
```

```
library(igraph)
```

```
library(tm)
```

```
library(wordcloud)
```

```
# Load the location data
```

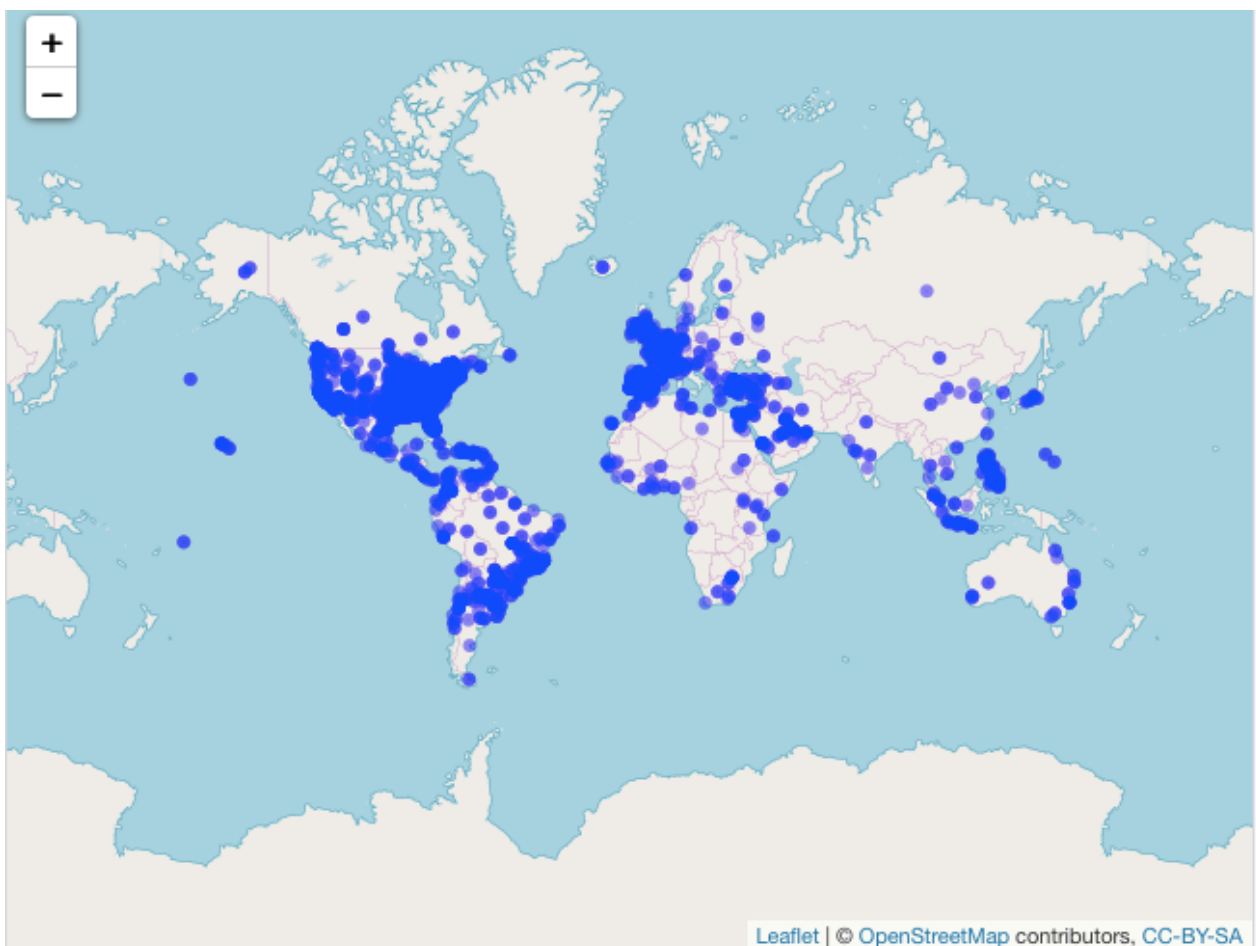
```
locations <- read.csv('data/locations.csv')
```

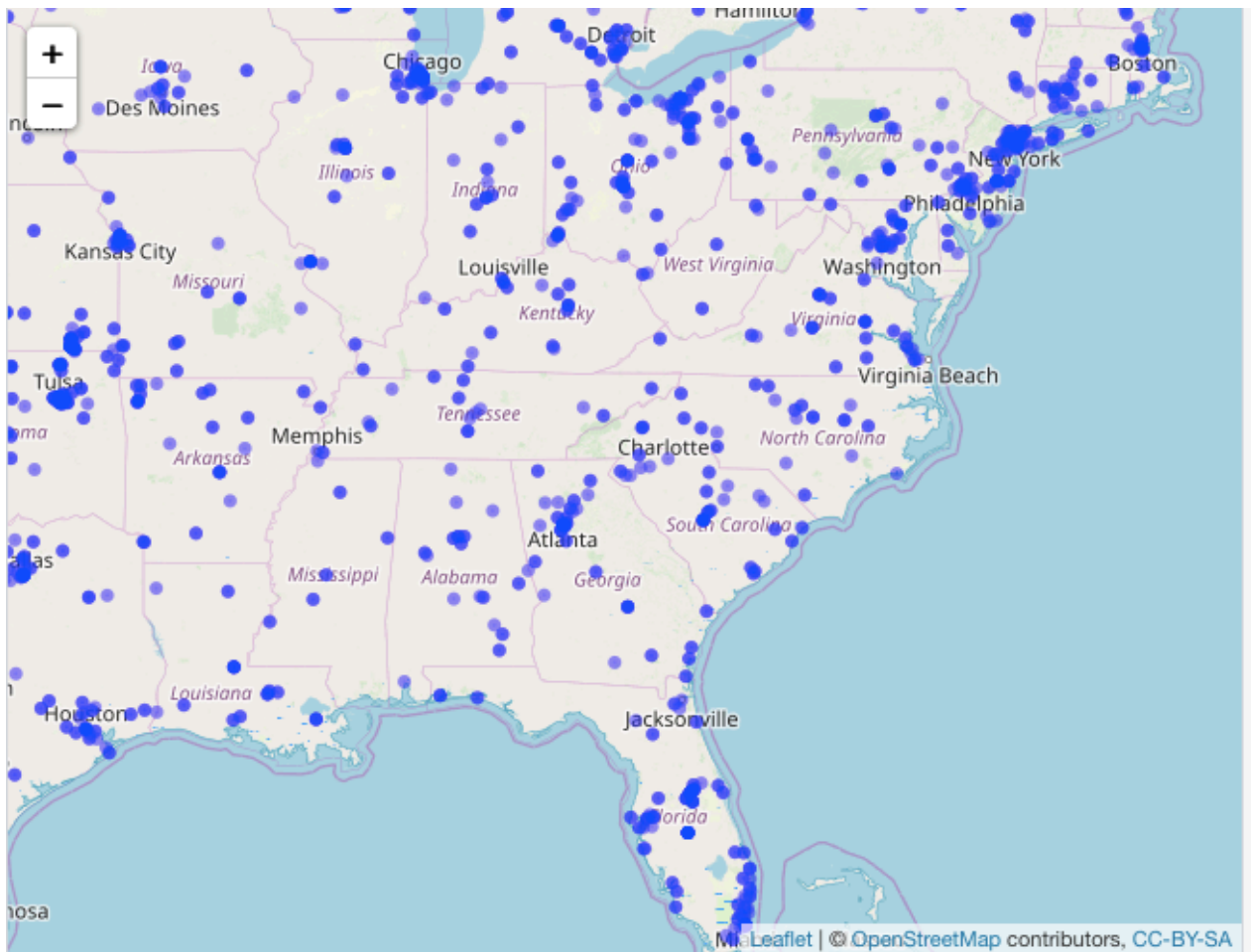
```
# Create Interactive map
```

```
leaflet(data=locations) %>%
```

```
  addTiles() %>%
```

```
  addCircles (lat=locations$lat, lng=locations$lon)
```





```
# Load tweets data
tweets.df <- read.csv('data/TweetsNBA.csv')
tweets.df <- tweets.df %>%
  mutate_at(vars(text), as.character) %>%
  mutate_at(vars(lang), factor) %>%
  mutate(lang=recode(lang, en="English", es="Spanish"))

# Most frequent word's wordcloud
# English Tweets
en_tweets <- tweets.df %>%
  filter(lang=="English")

# Function to clean the corpus
removeURL <- function(x) gsub("http[[:alnum:]]*", "", x)
cleanCorpus <- function(corpus){

  corpus.tmp <- tm_map(corpus, removePunctuation)
  corpus.tmp <- tm_map(corpus.tmp, stripWhitespace)
  corpus.tmp <- tm_map(corpus.tmp, content_transformer(tolower))
  corpus.tmp <- tm_map(corpus.tmp, content_transformer(removeURL))
  v_stopwords <- c(stopwords("english"),
                   "thats", "weve", "hes", "theres", "ive",
                   "im", "will", "can", "cant",
```

```
"dont", "youve", "us", "youre", "youll", "theyre", "whats", "didnt")
corpus.tmp <- tm_map(corpus.tmp, removeWords, v_stopwords)
corpus.tmp <- tm_map(corpus.tmp, removeNumbers)
return(corpus.tmp)

}
```

```
# Function to find the frequency of each word
```

```
frequentTerms <- function(text){

  s.cor <- Corpus(VectorSource(text))
  s.cor.cl <- cleanCorpus(s.cor)
  s.tdm <- TermDocumentMatrix(s.cor.cl)
  s.tdm <- removeSparseTerms(s.tdm, 0.999)
  m <- as.matrix(s.tdm)
  word_freqs <- sort(rowSums(m), decreasing=TRUE)
  dm <- data.frame(word=names(word_freqs), freq=word_freqs)
  return(dm)

}
```

```
# Generate wordcloud
```

```
dm <- frequentTerms(en_tweets$text)
wordcloud(dm$word, dm$freq, min.freq=30, colors=brewer.pal(8, "Dark2"),
max.words=200)
```

