Untitled

Are citibikes actually used for commuting ?

In thi part, we will try to identify geographical trends and see whether they can constitute evidence that citibikes are used by new yorkers as a way of commuting.To do so, we will mainly focus on geographical features (stations locations for the start and end of the trip) while discarding aspects such as seasonnality.

```r
library(readr)
library(sp)
```

```
## Warning: package 'sp' was built under R version 3.4.4
```

```r
library(plyr)
library(dplyr)
```

```
## Warning: package 'dplyr' was built under R version 3.4.4
```

```
##
## Attaching package: 'dplyr'
```

```
## The following objects are masked from 'package:plyr':
##
##     arrange, count, desc, failwith, id, mutate, rename, summarise,
##     summarize
```

```
## The following objects are masked from 'package:stats':
##
##     filter, lag
```

```
## The following objects are masked from 'package:base':
##
##     intersect, setdiff, setequal, union
```

```r
library(ggmap)
```

```
## Loading required package: ggplot2
```

```
## Warning: package 'ggplot2' was built under R version 3.4.4
```

```
## Google Maps API Terms of Service: http://developers.google.com/maps/terms.
```

```
## Please cite ggmap if you use it: see citation("ggmap") for details.
```

```r
library(ggplot2)
concise_trips <- read_csv("../concise_trips.csv")
```

```
## Parsed with column specification:
## cols(
##   tripduration = col_integer(),
##   starttime = col_datetime(format = ""),
##   stoptime = col_datetime(format = ""),
##   `start station id` = col_integer(),
##   `end station id` = col_integer(),
##   bikeid = col_integer(),
##   usertype = col_character(),
##   `birth year` = col_integer(),
##   gender = col_integer()
```

```
## )
head(concise_trips)

## Warning in as.POSIXlt.POSIXct(x, tz): unknown timezone 'zone/tz/2018g.1.0/
## zoneinfo/America/New_York'

## # A tibble: 6 x 9
##   tripduration starttime           stoptime            `start station ~
##          <int> <dttm>              <dttm>                         <int>
## 1          771 2018-02-01 00:14:16 2018-02-01 00:27:08               72
## 2          264 2018-02-01 05:14:45 2018-02-01 05:19:09               72
## 3          819 2018-02-01 06:48:55 2018-02-01 07:02:35               72
## 4          646 2018-02-01 07:12:50 2018-02-01 07:23:36               72
## 5         1312 2018-02-01 07:46:48 2018-02-01 08:08:41               72
## 6          435 2018-02-01 07:50:45 2018-02-01 07:58:00               72
## # ... with 5 more variables: `end station id` <int>, bikeid <int>,
## #   usertype <chr>, `birth year` <int>, gender <int>
colnames(concise_trips)[4] <- 'start_station_id'
colnames(concise_trips)[5] <- 'end_station_id'
concise_trips <- subset(concise_trips, select=-c(starttime,stoptime,bikeid,gender))

stations_info <- read_csv("../stations_info.csv")

## Parsed with column specification:
## cols(
##   id = col_integer(),
##   name = col_character(),
##   latitude = col_double(),
##   longitude = col_double()
## )
colnames(stations_info)[1] = 'start_station_id'
concise_trips_merged <- merge(x = concise_trips, y = stations_info, by = 'start_station_id')

colnames(stations_info)[1] = 'end_station_id'
concise_trips_merged <- merge(x = concise_trips_merged, y = stations_info, by = 'end_station_id')
```

Including Plots

```
#COMPUTING THE MOST STARTED STATIONS
colnames(stations_info)[1] = 'start_station_id'
most_started <- count(concise_trips_merged, c(concise_trips_merged$start_station_id))

## Warning: package 'bindrcpp' was built under R version 3.4.4
colnames(most_started)[1] = 'start_station_id'
most_started_merged <- merge(x = most_started, y = stations_info, by = 'start_station_id')
most_started_merged <- most_started_merged[order(-most_started_merged$n),]

#COMPUTING THE MOST ENDED STATIONS
colnames(stations_info)[1] = 'end_station_id'
most_ended <- count(concise_trips_merged, c(concise_trips_merged$end_station_id))
colnames(most_ended)[1] = 'end_station_id'
```

```r
most_ended_merged <- merge(x = most_ended, y = stations_info, by = 'end_station_id')
most_ended_merged  <- most_ended_merged[order(-most_ended_merged$n),]
```

```r
#AGGREGATING THE TWO TO SEE THE MOST ACTIVE STATIONS
colnames(most_started_merged)[1] = 'station_id'
colnames(most_started_merged)[2] = 'n_s'
colnames(most_ended_merged)[1] = 'station_id'
colnames(most_ended_merged)[2] = 'n_e'
most_active <- merge(x = most_started_merged, y = most_ended_merged, by = 'station_id')
most_active$n <- most_active$n_e + most_active$n_s
most_active <- subset(most_active, select=-c(n_s,n_e,longitude.y,latitude.y,name.y))
most_active <- most_active[order(-most_active$n),]
colnames(most_active)[2] <- 'names'
colnames(most_active)[3] <- 'latitude'
colnames(most_active)[4] <- 'longitude'
```
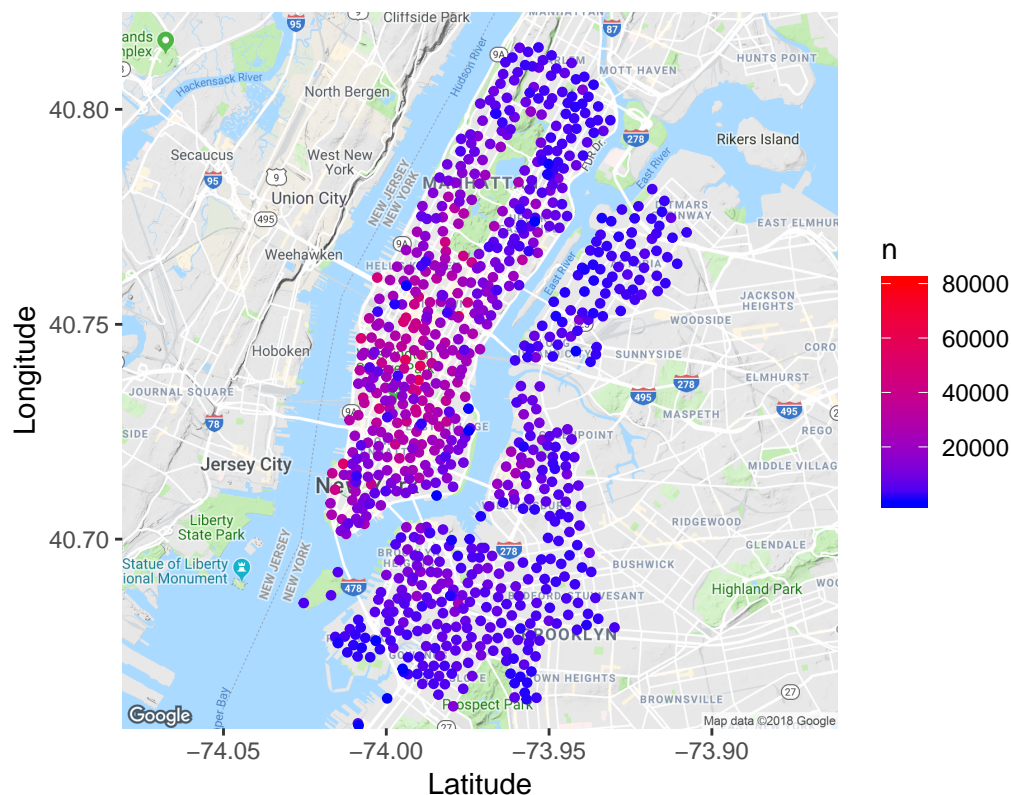
First of all, we can visualize the stations that are the most 'active': those are the stations that have the highest traffic of citibikes (in terms of start and end for each station)

```r
nyc_base <- ggmap::get_map(location = c(lon = mean(most_active$longitude), lat = mean(most_active$latitu
```

```
FALSE Source : https://maps.googleapis.com/maps/api/staticmap?center=40.73938,-73.971375&zoom=12&size=6
```

```r
ggmap(nyc_base) + geom_point(data=most_active, aes(x=longitude, y=latitude,color=n), size=1.2)+
  scale_colour_gradient(low = "blue", high = "red")+
  xlab("Latitude")+
  ylab("Longitude")+
  ggtitle("The most active Citibike stations in New York City")+
  theme(plot.title = element_text(hjust = 0.5))+ scale_fill_discrete(name = "Activity (in number of cus
```

The most active Citibike stations in New York City

From the map, we can see that the there are multiple 'active' zones but the general trend is that Midtown is the most active part of Manhattan. There is also quite a bit of activity in Downtown, along Central Park and in the neighborhoods of Brooklyn that are close to Manhattan. Areas close to Central Park, or in Brooklyn are zones mostly visited by tourists. However, the high activity of citibikes in Midtown could be evidence that citibikes are used for commuting since Midtown is a working area of Manhattan. Furthermore, the activity in Downtown also seems more likely to be the result of commuting then visiting.

To go further in our analysis, we can visualize the most common trips to see whether we can identify trips indicative of either commuting or not.

```r
concise_trips_merged_shorted <- count_(concise_trips_merged, vars=c('start_station_id','end_station_id'
concise_trips_merged_shorted <- concise_trips_merged_shorted[order(-concise_trips_merged_shorted$n),]
concise_trips_merged_shorted <- concise_trips_merged_shorted[1:1000,]

colnames(stations_info)[1] = 'start_station_id'
concise_trips_merged_shorted <- merge(x = concise_trips_merged_shorted, y = stations_info, by = 'start_s

colnames(stations_info)[1] = 'end_station_id'
concise_trips_merged_shorted <- merge(x =concise_trips_merged_shorted, y = stations_info, by = 'end_stat
concise_trips_merged_shorted <- concise_trips_merged_shorted[order(-concise_trips_merged_shorted$n),]

concise_trips_merged_shorted['from'] <- paste(concise_trips_merged_shorted$latitude.x,',', concise_trips
concise_trips_merged_shorted['to'] <- paste(concise_trips_merged_shorted$latitude.y,',', concise_trips_r

library(stringr)
options(expressions=10000)
```

```r
nyc_base <- ggmap::get_map(location = c(long = -73.97634,lat = 40.75000),zoom=12,color='bw',maptype = '
```

FALSE Source : https://maps.googleapis.com/maps/api/staticmap?center=40.75,-73.97634&zoom=12&size=640x64

```r
nyc_base <- ggmap(nyc_base)


leg <-function(start, dest,n){
    if(n< 10){
      size_value <- 0.8
      alpha_value <- 0.8
      color <- 'blue'}
    else{
      size_value <- 0.5
      alpha_value <- 0.3
      color <- 'blue'
    }

    r<- route(from=start,to=dest,mode = c("bicycling"),structure = c("route"))
    c<- geom_path(aes(x = lon, y = lat),
            alpha = alpha_value,size = size_value,  data = r, colour = color)
    return (c)
}

base <- nyc_base
#We can change the colors based on the number of occurences
 for (n in 1:600){

    l<-leg(str_replace_all(concise_trips_merged_shorted$from[n], " ", ""), str_replace_all(concise_trip

    base<-base+l
 }
```

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```

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FALSE Source : https://maps.googleapis.com/maps/api/directions/json?origin=40.713126%2C-73.984844&desti

FALSE Source : https://maps.googleapis.com/maps/api/directions/json?origin=40.70569254%2C-74.01677685&d

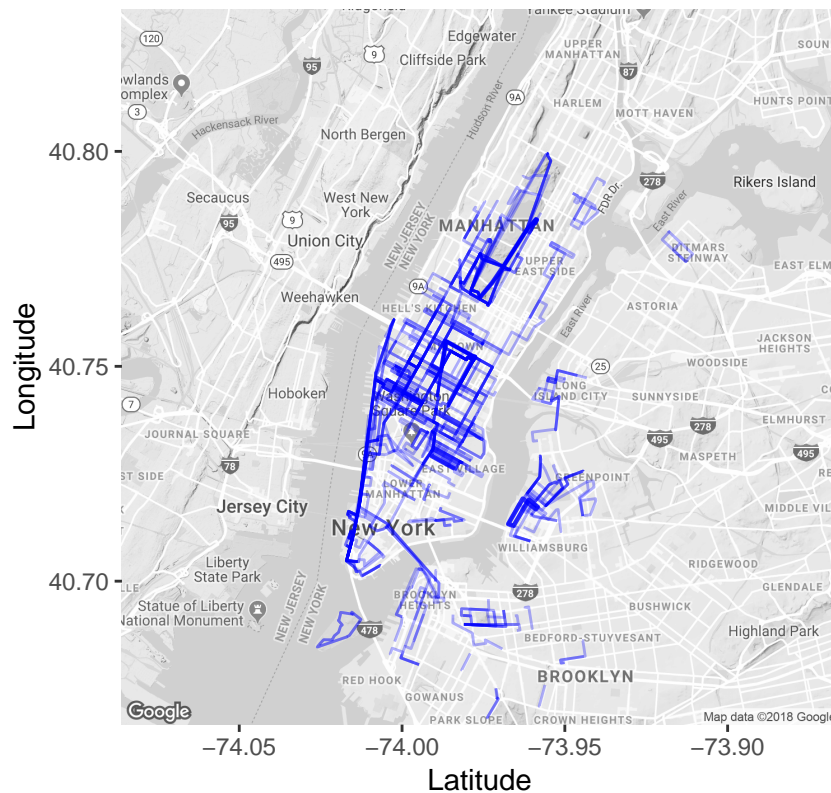FALSE Source : https://maps.googleapis.com/maps/api/directions/json?origin=40.73223272%2C-73.98889957&d

```
base+
  xlab("Latitude")+
  ylab("Longitude")+
  ggtitle("The most frequent trips around New York City")+
  theme(plot.title = element_text(hjust = 0.5))
```

FALSE geom_path: Each group consists of only one observation. Do you need to
FALSE adjust the group aesthetic?

The most frequent trips around New York City

The above map provides some interesting information:

- There are some main zones where the trips are done: around Central Park, in Midtown as well as along the Hudson River

- Touristic zones can be identified: Central Park, Governor's island for instance
- However, for instance the bike lane along the Hudson River can be either commuting or visiting: this is the fastest way of going north/south
- Finally, it seems that an important part of the trips that are done in Midtown are mostly longitudinal: this might be a clue that people are using citibikes to compensate for the lack of subways in the East-West direction.

Finally, from latitude/longitude data from each trip, we can extract useful information to see if there are some patterns: maybe subscribers use citibikes

```
colnames(stations_info)[1] = 'start_station_id'
concise_trips <- merge(x = concise_trips, y = stations_info, by = 'start_station_id')
head(concise_trips)
```

```
##   start_station_id tripduration end_station_id   usertype birth year
## 1               72          771            379 Subscriber       1952
## 2               72          264            478 Subscriber       1965
## 3               72          819            405 Subscriber       1968
## 4               72          646           2006 Subscriber       1990
## 5               72         1312            435 Subscriber       1957
## 6               72          435            173 Subscriber       1983
##               name latitude longitude
## 1 W 52 St & 11 Ave 40.76727 -73.99393
## 2 W 52 St & 11 Ave 40.76727 -73.99393
## 3 W 52 St & 11 Ave 40.76727 -73.99393
## 4 W 52 St & 11 Ave 40.76727 -73.99393
## 5 W 52 St & 11 Ave 40.76727 -73.99393
## 6 W 52 St & 11 Ave 40.76727 -73.99393
```
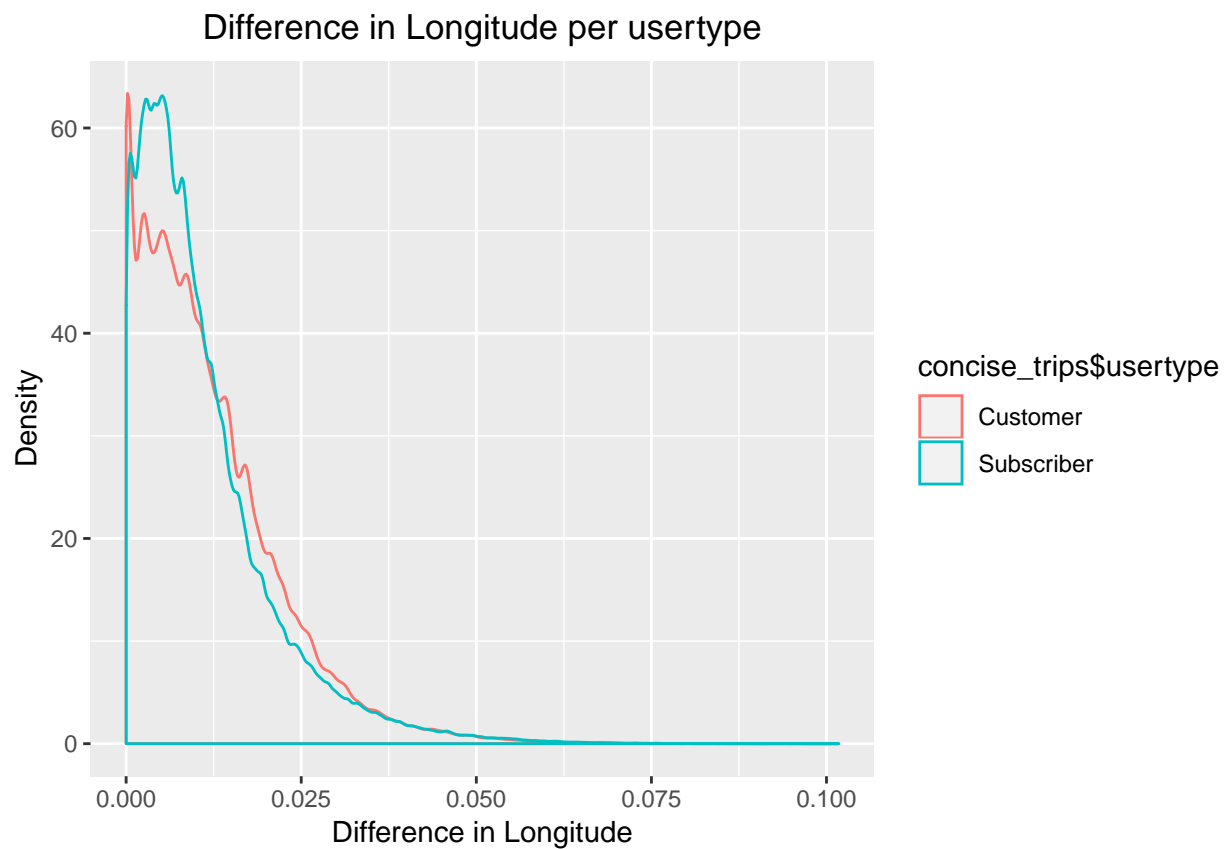
```
colnames(stations_info)[1] = 'end_station_id'
concise_trips <- merge(x = concise_trips, y = stations_info, by = 'end_station_id')
head(concise_trips)
```

```
##   end_station_id start_station_id tripduration   usertype birth year
## 1             72              524          575 Subscriber       1979
## 2             72              490          971 Subscriber       1975
## 3             72             3178         1553   Customer       1969
## 4             72              427         1656 Subscriber       1982
## 5             72              466          789 Subscriber       1991
## 6             72              279         2276 Subscriber       1993
##                    name.x latitude.x longitude.x           name.y
## 1        W 43 St & 6 Ave   40.75527   -73.98317 W 52 St & 11 Ave
## 2        8 Ave & W 33 St   40.75155   -73.99393 W 52 St & 11 Ave
## 3 Riverside Dr & W 78 St   40.78414   -73.98362 W 52 St & 11 Ave
## 4     Bus Slip & State St  40.70191   -74.01394 W 52 St & 11 Ave
## 5        W 25 St & 6 Ave   40.74395   -73.99145 W 52 St & 11 Ave
## 6    Peck Slip & Front St  40.70787   -74.00167 W 52 St & 11 Ave
##   latitude.y longitude.y
## 1   40.76727   -73.99393
## 2   40.76727   -73.99393
## 3   40.76727   -73.99393
## 4   40.76727   -73.99393
## 5   40.76727   -73.99393
## 6   40.76727   -73.99393
```
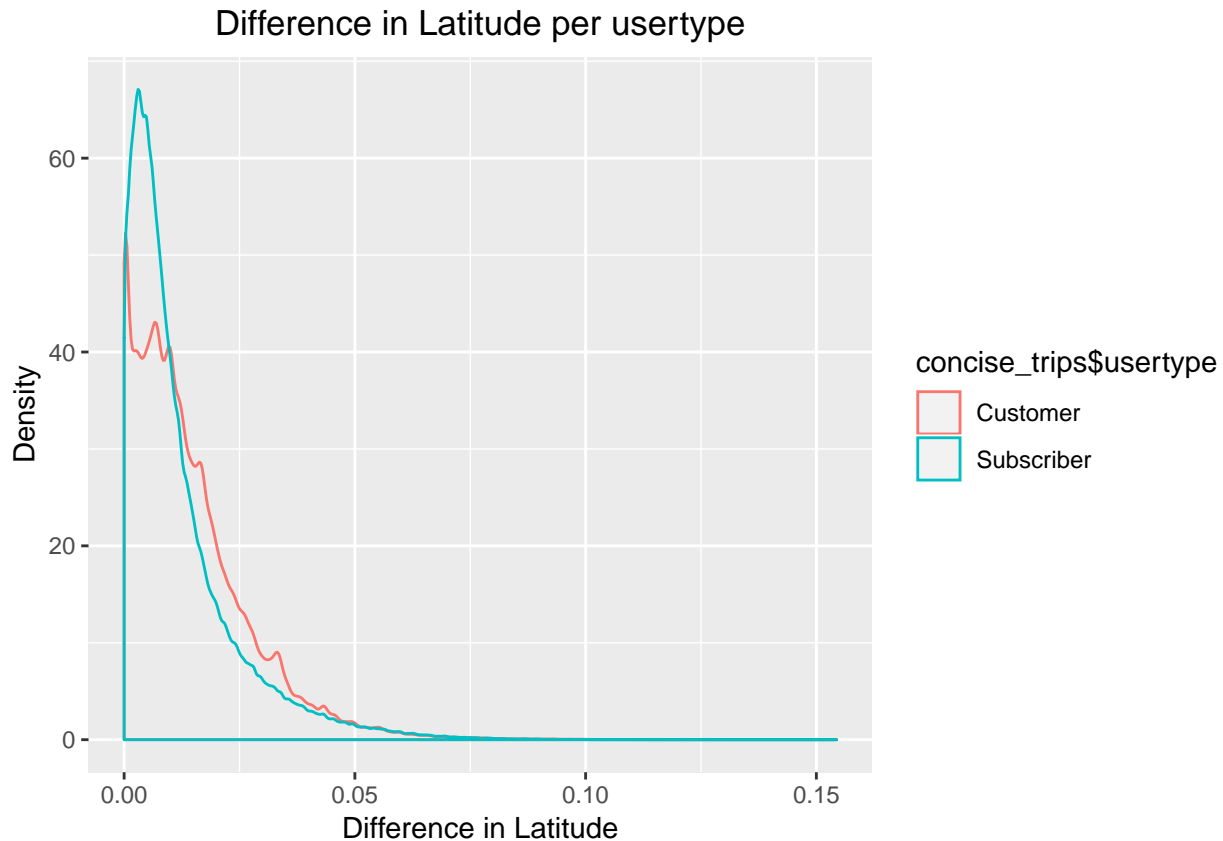
```
concise_trips$dirNS <- abs(concise_trips$longitude.y - concise_trips$longitude.x)
concise_trips$dirWE <- abs(concise_trips$latitude.y - concise_trips$latitude.x)
head(concise_trips)
```

```
##   end_station_id start_station_id tripduration   usertype birth year
## 1             72              524          575 Subscriber       1979
## 2             72              490          971 Subscriber       1975
## 3             72             3178         1553   Customer       1969
## 4             72              427         1656 Subscriber       1982
## 5             72              466          789 Subscriber       1991
## 6             72              279         2276 Subscriber       1993
##                   name.x latitude.x longitude.x           name.y
## 1        W 43 St & 6 Ave   40.75527    -73.98317 W 52 St & 11 Ave
## 2        8 Ave & W 33 St   40.75155    -73.99393 W 52 St & 11 Ave
## 3 Riverside Dr & W 78 St   40.78414    -73.98362 W 52 St & 11 Ave
## 4     Bus Slip & State St   40.70191    -74.01394 W 52 St & 11 Ave
## 5        W 25 St & 6 Ave   40.74395    -73.99145 W 52 St & 11 Ave
## 6   Peck Slip & Front St   40.70787    -74.00167 W 52 St & 11 Ave
##   latitude.y longitude.y       dirNS        dirWE
## 1   40.76727    -73.99393 0.01075952 0.01199909
## 2   40.76727    -73.99393 0.00000512 0.01572116
## 3   40.76727    -73.99393 0.01030396 0.01687256
## 4   40.76727    -73.99393 0.02001312 0.06536516
## 5   40.76727    -73.99393 0.00248017 0.02331805
## 6   40.76727    -73.99393 0.00774112 0.05939916
```

```
p <- ggplot(concise_trips,aes(x=concise_trips$dirNS,color=concise_trips$usertype)) +geom_density()
p+
  xlab("Difference in Longitude")+
  ylab("Density")+
  ggtitle("Difference in Longitude per usertype")+
  theme(plot.title = element_text(hjust = 0.5))
```

Difference in Longitude per usertype


```
p <- ggplot(concise_trips,aes(x=concise_trips$dirWE,color=concise_trips$usertype)) +geom_density()
p+
  xlab("Difference in Latitude")+
  ylab("Density")+
  ggtitle("Difference in Latitude per usertype")+
  theme(plot.title = element_text(hjust = 0.5))
```
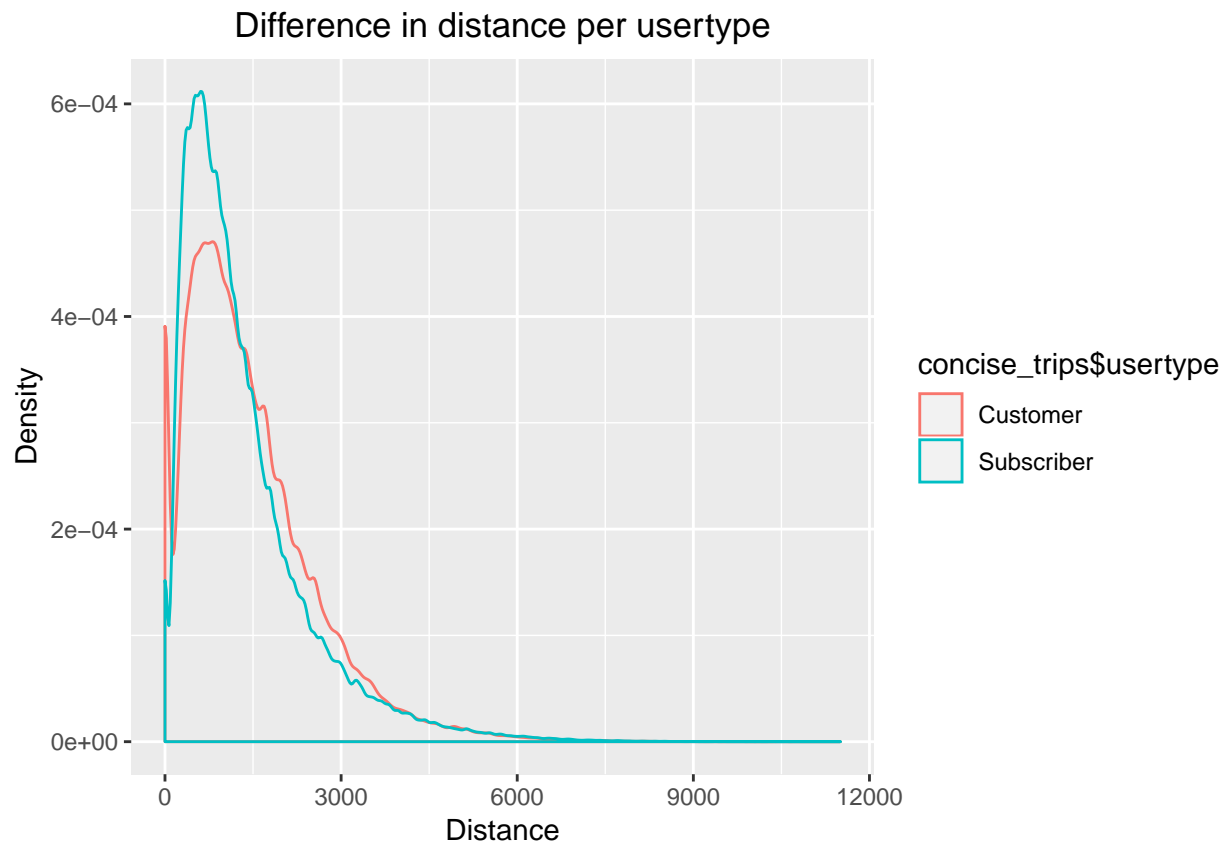
Difference in Latitude per usertype

Here we have plotted the absolute difference in longitude between start and finish. Because of the layout fo New York, we can approximate longitude difference as a North/South difference and latitude difference as a East/West difference.We can see that for both latitude and longitude, subscribers have a much higher peak close to low values. This is more visible for latitude.It reveals that subscribers and customers have a different use of the citibikes: subscribers usually do shorter rides (in terms of distance) specially if it is for a North/South difference. This seems to follow the logic of commuting: commuters will not do lengthy North/South rides since it is slower than taking the subway. However, for short rides, it can be quicker to take a bike.

```r
library(geosphere)
```

```
## Warning: package 'geosphere' was built under R version 3.4.2
```

```r
concise_trips$distance <- distGeo (matrix(c(concise_trips$latitude.x,concise_trips$longitude.x),ncol =
concise_trips <- subset(concise_trips,
                        select=-c(name.y,name.x,longitude.x,longitude.y,latitude.x,latitude.y))
p <- ggplot(concise_trips,aes(x=concise_trips$distance,color=concise_trips$usertype)) +geom_density()
p+
  xlab("Distance")+
  ylab("Density")+
  ggtitle("Difference in distance per usertype")+
  theme(plot.title = element_text(hjust = 0.5))
```

Difference in distance per usertype

If we plot the distribution of distance for both customers and subscribers, it confirms what we previously saw with latitude and longitude: subscribers tend to do shorter rides.

Therefore, this discrepancy between subscribers and customers shows that there are two different ways of using citibikes: small short rides or more length rides, and it confirms that citibikes are not only used by tourists, but also by new yorkers as a way of commuting.