Deliverable I

ADEI

## Data Description

This data dictionary describes SHL trip data. For dictionaries describing yellow taxi and FHV data, please visit <http://www.nyc.gov/html/tlc/html/about/trip_record_data.shtml>.

* VendorID A code indicating the LPEP provider that provided the record. 1= Creative Mobile Technologies, LLC; 2= VeriFone Inc.
* lpep\_pickup\_datetime The date and time when the meter was engaged.
* lpep\_dropoff\_datetime The date and time when the meter was disengaged.
* Passenger\_count The number of passengers in the vehicle. This is a driver-entered value. - Trip\_distance The elapsed trip distance in miles reported by the taximeter.
* Pickup\_longitude Longitude where the meter was engaged.
* Pickup\_latitude Latitude where the meter was engaged.
* RateCodeID The final rate code in effect at the end of the trip. 1= Standard rate 2=JFK 3=Newark 4=Nassau or Westchester 5=Negotiated fare 6=Group ride
* Store\_and\_fwd\_flag This flag indicates whether the trip record was held in vehicle memory before sending to the vendor, aka “store and forward,” because the vehicle did not have a connection to the server: Y= store and forward trip N= not a store and forward trip
* Dropoff\_longitude Longitude where the meter was timed off.
* Dropoff\_ latitude Latitude where the meter was timed off.
* Payment\_type A numeric code signifying how the passenger paid for the trip. 1= Credit card 2= Cash 3= No charge 4= Dispute 5= Unknown 6= Voided trip
* Fare\_amount The time-and-distance fare calculated by the meter.
* Extra Miscellaneous extras and surcharges. Currently, this only includes the $0.50 and $1 rush hour and overnight charges.
* MTA\_tax $0.50 MTA tax that is automatically triggered based on the metered rate in use. - Improvement\_surcharge $0.30 improvement surcharge assessed on hailed trips at the flag drop. The improvement surcharge began being levied in 2015.
* Tip\_amount This field is automatically populated for credit card tips. Cash tips are not included.
* Tolls\_amount Total amount of all tolls paid in trip.
* Total\_amount The total amount charged to passengers. Does not include cash tips.
* Trip\_type A code indicating whether the trip was a street-hail or a dispatch that is automatically assigned based on the metered rate in use but can be altered by the driver. 1= Street-hail 2= Dispatch

# Load Required Packages: to be increased over the course

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options(contrasts=c("contr.treatment","contr.treatment"))  
  
requiredPackages <- c("missMDA","chemometrics","mvoutlier","effects","FactoMineR","car", "factoextra","RColorBrewer","ggplot2","dplyr","ggmap","ggthemes","knitr")  
missingPackages <- requiredPackages[!(requiredPackages %in% installed.packages()[,"Package"])]  
  
if(length(missingPackages)) install.packages(missingPackages)  
lapply(requiredPackages, require, character.only = TRUE)

## Loading required package: missMDA

## Loading required package: chemometrics

## Loading required package: rpart

## Loading required package: mvoutlier

## Loading required package: sgeostat

## Registered S3 method overwritten by 'GGally':  
## method from   
## +.gg ggplot2

## sROC 0.1-2 loaded

## Loading required package: effects

## Loading required package: carData

## Registered S3 methods overwritten by 'lme4':  
## method from  
## cooks.distance.influence.merMod car   
## influence.merMod car   
## dfbeta.influence.merMod car   
## dfbetas.influence.merMod car

## lattice theme set by effectsTheme()  
## See ?effectsTheme for details.

## Loading required package: FactoMineR

## Loading required package: car

## Loading required package: factoextra

## Loading required package: ggplot2

## Welcome! Want to learn more? See two factoextra-related books at https://goo.gl/ve3WBa

## Loading required package: RColorBrewer

## Loading required package: dplyr

##   
## Attaching package: 'dplyr'

## The following object is masked from 'package:car':  
##   
## recode

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

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

## Loading required package: ggmap

## Google's Terms of Service: https://cloud.google.com/maps-platform/terms/.

## Please cite ggmap if you use it! See citation("ggmap") for details.

## Loading required package: ggthemes

## Loading required package: knitr

## [[1]]  
## [1] TRUE  
##   
## [[2]]  
## [1] TRUE  
##   
## [[3]]  
## [1] TRUE  
##   
## [[4]]  
## [1] TRUE  
##   
## [[5]]  
## [1] TRUE  
##   
## [[6]]  
## [1] TRUE  
##   
## [[7]]  
## [1] TRUE  
##   
## [[8]]  
## [1] TRUE  
##   
## [[9]]  
## [1] TRUE  
##   
## [[10]]  
## [1] TRUE  
##   
## [[11]]  
## [1] TRUE  
##   
## [[12]]  
## [1] TRUE  
##   
## [[13]]  
## [1] TRUE

## Select a sample of 5000 records

# Clear plots  
if(!is.null(dev.list())) dev.off()

## null device   
## 1

# Clean workspace  
rm(list=ls())  
  
#setwd("C:/Users/carle/Desktop/ADEI2")  
#filepath<-"C:/Users/carle/Desktop/ADEI2/"  
# green\_tripdata\_2016-01  
  
setwd("~/Desktop/NYCABS")  
filepath<-"~/Desktop/NYCABS/"  
# green\_tripdata\_2016-01  
  
df2<-read.table(paste0(filepath,"green\_tripdata\_2016-01.csv"),header=T, sep=",")  
  
summary(df2)

## VendorID lpep\_pickup\_datetime Lpep\_dropoff\_datetime  
## Min. :1.000 2016-01-01 00:23:27: 9 2016-01-02 00:00:00: 196   
## 1st Qu.:2.000 2016-01-01 02:11:48: 9 2016-01-03 00:00:00: 159   
## Median :2.000 2016-01-22 18:59:33: 9 2016-01-17 00:00:00: 157   
## Mean :1.782 2016-01-01 00:21:15: 8 2016-01-31 00:00:00: 145   
## 3rd Qu.:2.000 2016-01-01 00:21:31: 8 2016-01-10 00:00:00: 135   
## Max. :2.000 2016-01-01 00:38:56: 8 2016-01-20 00:00:00: 132   
## (Other) :1445234 (Other) :1444361   
## Store\_and\_fwd\_flag RateCodeID Pickup\_longitude Pickup\_latitude  
## N:1439271 Min. : 1.000 Min. :-115.18 Min. : 0.00   
## Y: 6014 1st Qu.: 1.000 1st Qu.: -73.96 1st Qu.:40.69   
## Median : 1.000 Median : -73.95 Median :40.75   
## Mean : 1.097 Mean : -73.81 Mean :40.68   
## 3rd Qu.: 1.000 3rd Qu.: -73.92 3rd Qu.:40.80   
## Max. :99.000 Max. : 0.00 Max. :43.17   
##   
## Dropoff\_longitude Dropoff\_latitude Passenger\_count Trip\_distance   
## Min. :-115.18 Min. : 0.00 Min. :0.000 Min. : 0.000   
## 1st Qu.: -73.97 1st Qu.:40.69 1st Qu.:1.000 1st Qu.: 1.000   
## Median : -73.95 Median :40.75 Median :1.000 Median : 1.800   
## Mean : -73.82 Mean :40.68 Mean :1.361 Mean : 2.757   
## 3rd Qu.: -73.91 3rd Qu.:40.79 3rd Qu.:1.000 3rd Qu.: 3.450   
## Max. : 0.00 Max. :42.69 Max. :9.000 Max. :360.500   
##   
## Fare\_amount Extra MTA\_tax Tip\_amount   
## Min. :-492.80 Min. :-1.0000 Min. :-0.5000 Min. : -6.700   
## 1st Qu.: 6.00 1st Qu.: 0.0000 1st Qu.: 0.5000 1st Qu.: 0.000   
## Median : 9.00 Median : 0.5000 Median : 0.5000 Median : 0.000   
## Mean : 11.94 Mean : 0.3475 Mean : 0.4861 Mean : 1.249   
## 3rd Qu.: 14.50 3rd Qu.: 0.5000 3rd Qu.: 0.5000 3rd Qu.: 2.000   
## Max. : 989.00 Max. :83.0000 Max. : 3.0000 Max. :400.000   
##   
## Tolls\_amount Ehail\_fee improvement\_surcharge Total\_amount   
## Min. :-30.0000 Mode:logical Min. :-0.3000 Min. :-497.50   
## 1st Qu.: 0.0000 NA's:1445285 1st Qu.: 0.3000 1st Qu.: 7.80   
## Median : 0.0000 Median : 0.3000 Median : 11.16   
## Mean : 0.0997 Mean : 0.2916 Mean : 14.42   
## 3rd Qu.: 0.0000 3rd Qu.: 0.3000 3rd Qu.: 17.30   
## Max. :900.0000 Max. : 1.3900 Max. :1000.80   
##   
## Payment\_type Trip\_type   
## Min. :1.000 Min. :1.000   
## 1st Qu.:1.000 1st Qu.:1.000   
## Median :2.000 Median :1.000   
## Mean :1.517 Mean :1.023   
## 3rd Qu.:2.000 3rd Qu.:1.000   
## Max. :5.000 Max. :2.000   
## NA's :2

#reload data

dim(df2)

## [1] 1445285 21

names(df2)

## [1] "VendorID" "lpep\_pickup\_datetime" "Lpep\_dropoff\_datetime"  
## [4] "Store\_and\_fwd\_flag" "RateCodeID" "Pickup\_longitude"   
## [7] "Pickup\_latitude" "Dropoff\_longitude" "Dropoff\_latitude"   
## [10] "Passenger\_count" "Trip\_distance" "Fare\_amount"   
## [13] "Extra" "MTA\_tax" "Tip\_amount"   
## [16] "Tolls\_amount" "Ehail\_fee" "improvement\_surcharge"  
## [19] "Total\_amount" "Payment\_type" "Trip\_type"

head(df2)

## VendorID lpep\_pickup\_datetime Lpep\_dropoff\_datetime Store\_and\_fwd\_flag  
## 1 2 2016-01-01 00:29:24 2016-01-01 00:39:36 N  
## 2 2 2016-01-01 00:19:39 2016-01-01 00:39:18 N  
## 3 2 2016-01-01 00:19:33 2016-01-01 00:39:48 N  
## 4 2 2016-01-01 00:22:12 2016-01-01 00:38:32 N  
## 5 2 2016-01-01 00:24:01 2016-01-01 00:39:22 N  
## 6 2 2016-01-01 00:32:59 2016-01-01 00:39:35 N  
## RateCodeID Pickup\_longitude Pickup\_latitude Dropoff\_longitude  
## 1 1 -73.92864 40.68061 -73.92428  
## 2 1 -73.95267 40.72318 -73.92392  
## 3 1 -73.97161 40.67611 -74.01316  
## 4 1 -73.98950 40.66958 -74.00065  
## 5 1 -73.96473 40.68285 -73.94072  
## 6 1 -73.89114 40.74646 -73.86774  
## Dropoff\_latitude Passenger\_count Trip\_distance Fare\_amount Extra MTA\_tax  
## 1 40.69804 1 1.46 8.0 0.5 0.5  
## 2 40.76138 1 3.56 15.5 0.5 0.5  
## 3 40.64607 1 3.79 16.5 0.5 0.5  
## 4 40.68903 1 3.01 13.5 0.5 0.5  
## 5 40.66301 1 2.55 12.0 0.5 0.5  
## 6 40.74211 1 1.37 7.0 0.5 0.5  
## Tip\_amount Tolls\_amount Ehail\_fee improvement\_surcharge Total\_amount  
## 1 1.86 0 NA 0.3 11.16  
## 2 0.00 0 NA 0.3 16.80  
## 3 4.45 0 NA 0.3 22.25  
## 4 0.00 0 NA 0.3 14.80  
## 5 0.00 0 NA 0.3 13.30  
## 6 0.00 0 NA 0.3 8.30  
## Payment\_type Trip\_type  
## 1 1 1  
## 2 2 1  
## 3 1 1  
## 4 2 1  
## 5 2 1  
## 6 2 1

### Use birthday of 1 member of the group  
set.seed(02041997)  
sam<-as.vector(sort(sample(1:nrow(df2),5000)))  
df<-df2[sam,]  
summary(df)

## VendorID lpep\_pickup\_datetime Lpep\_dropoff\_datetime  
## Min. :1.000 2016-01-10 03:07:32: 2 2016-01-22 00:00:00: 3   
## 1st Qu.:2.000 2016-01-20 19:47:26: 2 2016-01-08 20:53:45: 2   
## Median :2.000 2016-01-01 00:02:22: 1 2016-01-09 14:00:49: 2   
## Mean :1.779 2016-01-01 00:16:59: 1 2016-01-20 00:00:00: 2   
## 3rd Qu.:2.000 2016-01-01 00:20:21: 1 2016-01-31 18:59:28: 2   
## Max. :2.000 2016-01-01 00:20:30: 1 2016-01-01 00:06:59: 1   
## (Other) :4992 (Other) :4988   
## Store\_and\_fwd\_flag RateCodeID Pickup\_longitude Pickup\_latitude  
## N:4983 Min. :1.000 Min. :-74.16 Min. : 0.00   
## Y: 17 1st Qu.:1.000 1st Qu.:-73.96 1st Qu.:40.69   
## Median :1.000 Median :-73.95 Median :40.75   
## Mean :1.104 Mean :-73.83 Mean :40.69   
## 3rd Qu.:1.000 3rd Qu.:-73.92 3rd Qu.:40.80   
## Max. :5.000 Max. : 0.00 Max. :40.89   
##   
## Dropoff\_longitude Dropoff\_latitude Passenger\_count Trip\_distance   
## Min. :-74.18 Min. : 0.00 Min. :0.000 Min. : 0.000   
## 1st Qu.:-73.97 1st Qu.:40.70 1st Qu.:1.000 1st Qu.: 1.020   
## Median :-73.95 Median :40.75 Median :1.000 Median : 1.850   
## Mean :-73.88 Mean :40.71 Mean :1.375 Mean : 2.807   
## 3rd Qu.:-73.91 3rd Qu.:40.79 3rd Qu.:1.000 3rd Qu.: 3.583   
## Max. : 0.00 Max. :40.94 Max. :6.000 Max. :42.200   
##   
## Fare\_amount Extra MTA\_tax Tip\_amount   
## Min. :-50.00 Min. :-1.0000 Min. :-0.5000 Min. : 0.000   
## 1st Qu.: 6.50 1st Qu.: 0.0000 1st Qu.: 0.5000 1st Qu.: 0.000   
## Median : 9.00 Median : 0.5000 Median : 0.5000 Median : 0.000   
## Mean : 12.09 Mean : 0.3481 Mean : 0.4858 Mean : 1.319   
## 3rd Qu.: 14.50 3rd Qu.: 0.5000 3rd Qu.: 0.5000 3rd Qu.: 2.000   
## Max. :400.00 Max. : 1.0000 Max. : 0.5000 Max. :98.880   
##   
## Tolls\_amount Ehail\_fee improvement\_surcharge Total\_amount   
## Min. : 0.00000 Mode:logical Min. :-0.3000 Min. :-50.000   
## 1st Qu.: 0.00000 NA's:5000 1st Qu.: 0.3000 1st Qu.: 7.872   
## Median : 0.00000 Median : 0.3000 Median : 11.300   
## Mean : 0.09719 Mean : 0.2912 Mean : 14.633   
## 3rd Qu.: 0.00000 3rd Qu.: 0.3000 3rd Qu.: 17.300   
## Max. :11.08000 Max. : 0.3000 Max. :498.880   
##   
## Payment\_type Trip\_type   
## Min. :1.000 Min. :1.000   
## 1st Qu.:1.000 1st Qu.:1.000   
## Median :2.000 Median :1.000   
## Mean :1.515 Mean :1.025   
## 3rd Qu.:2.000 3rd Qu.:1.000   
## Max. :4.000 Max. :2.000   
##

## Some useful functions

# Some useful functions  
calcQ <- function(x) {  
 s.x <- summary(x)  
 iqr<-s.x[5]-s.x[2]  
 list(souti=s.x[2]-3\*iqr, mouti=s.x[2]-1.5\*iqr, min=s.x[1], q1=s.x[2], q2=s.x[3],   
 q3=s.x[5], max=s.x[6], mouts=s.x[5]+1.5\*iqr, souts=s.x[5]+3\*iqr ) }  
  
countNA <- function(x) {  
 mis\_x <- NULL  
 for (j in 1:ncol(x)) {mis\_x[j] <- sum(is.na(x[,j])) }  
 mis\_x <- as.data.frame(mis\_x)  
 rownames(mis\_x) <- names(x)  
 mis\_i <- rep(0,nrow(x))  
 for (j in 1:ncol(x)) {mis\_i <- mis\_i + as.numeric(is.na(x[,j])) }  
 list(mis\_col=mis\_x,mis\_ind=mis\_i) }  
  
countX <- function(x,X) {  
 n\_x <- NULL  
 for (j in 1:ncol(x)) {n\_x[j] <- sum(x[,j]==X) }  
 n\_x <- as.data.frame(n\_x)  
 rownames(n\_x) <- names(x)  
 nx\_i <- rep(0,nrow(x))  
 for (j in 1:ncol(x)) {nx\_i <- nx\_i + as.numeric(x[,j]==X) }  
 list(nx\_col=n\_x,nx\_ind=nx\_i) }  
  
EDA\_Univariant <- function(x,title){  
 if(missing(title)) {  
 title<-""  
 }  
 x <- data.frame(x)  
 print(summary(x))  
 par(mfrow=c(NCOL(x),2))  
 for (i in 1:NCOL(x)){  
 if(NCOL(x)>1){  
 title <-names(x)[i]  
 }  
 if (sapply(x, class)[i] == "numeric" || sapply(x, class)[i] == "integer"){  
 print(sd(x[,i]))  
 hist(x[,i], main = paste("Histogram", title), freq = TRUE, xlab="")  
 boxplot(x[,i], main = paste("Boxplot", title))  
 var\_out<-calcQ(df$espeed)  
 abline(h=var\_out$souts,col="red")  
 abline(h=var\_out$souti,col="blue")  
 }else{  
 barplot(table(as.factor(x[,i])), main = paste("Barplot", names(x)[i]))  
 pie(table(as.factor(x[,i])), main = paste("Pie", names(x)[i]))  
 }  
 }  
 par(mfrow=c(1,1))  
}

## Factors: Levels coding

Now codify properly factors and remove non-informative variables

summary(df)

## VendorID lpep\_pickup\_datetime Lpep\_dropoff\_datetime  
## Min. :1.000 2016-01-10 03:07:32: 2 2016-01-22 00:00:00: 3   
## 1st Qu.:2.000 2016-01-20 19:47:26: 2 2016-01-08 20:53:45: 2   
## Median :2.000 2016-01-01 00:02:22: 1 2016-01-09 14:00:49: 2   
## Mean :1.779 2016-01-01 00:16:59: 1 2016-01-20 00:00:00: 2   
## 3rd Qu.:2.000 2016-01-01 00:20:21: 1 2016-01-31 18:59:28: 2   
## Max. :2.000 2016-01-01 00:20:30: 1 2016-01-01 00:06:59: 1   
## (Other) :4992 (Other) :4988   
## Store\_and\_fwd\_flag RateCodeID Pickup\_longitude Pickup\_latitude  
## N:4983 Min. :1.000 Min. :-74.16 Min. : 0.00   
## Y: 17 1st Qu.:1.000 1st Qu.:-73.96 1st Qu.:40.69   
## Median :1.000 Median :-73.95 Median :40.75   
## Mean :1.104 Mean :-73.83 Mean :40.69   
## 3rd Qu.:1.000 3rd Qu.:-73.92 3rd Qu.:40.80   
## Max. :5.000 Max. : 0.00 Max. :40.89   
##   
## Dropoff\_longitude Dropoff\_latitude Passenger\_count Trip\_distance   
## Min. :-74.18 Min. : 0.00 Min. :0.000 Min. : 0.000   
## 1st Qu.:-73.97 1st Qu.:40.70 1st Qu.:1.000 1st Qu.: 1.020   
## Median :-73.95 Median :40.75 Median :1.000 Median : 1.850   
## Mean :-73.88 Mean :40.71 Mean :1.375 Mean : 2.807   
## 3rd Qu.:-73.91 3rd Qu.:40.79 3rd Qu.:1.000 3rd Qu.: 3.583   
## Max. : 0.00 Max. :40.94 Max. :6.000 Max. :42.200   
##   
## Fare\_amount Extra MTA\_tax Tip\_amount   
## Min. :-50.00 Min. :-1.0000 Min. :-0.5000 Min. : 0.000   
## 1st Qu.: 6.50 1st Qu.: 0.0000 1st Qu.: 0.5000 1st Qu.: 0.000   
## Median : 9.00 Median : 0.5000 Median : 0.5000 Median : 0.000   
## Mean : 12.09 Mean : 0.3481 Mean : 0.4858 Mean : 1.319   
## 3rd Qu.: 14.50 3rd Qu.: 0.5000 3rd Qu.: 0.5000 3rd Qu.: 2.000   
## Max. :400.00 Max. : 1.0000 Max. : 0.5000 Max. :98.880   
##   
## Tolls\_amount Ehail\_fee improvement\_surcharge Total\_amount   
## Min. : 0.00000 Mode:logical Min. :-0.3000 Min. :-50.000   
## 1st Qu.: 0.00000 NA's:5000 1st Qu.: 0.3000 1st Qu.: 7.872   
## Median : 0.00000 Median : 0.3000 Median : 11.300   
## Mean : 0.09719 Mean : 0.2912 Mean : 14.633   
## 3rd Qu.: 0.00000 3rd Qu.: 0.3000 3rd Qu.: 17.300   
## Max. :11.08000 Max. : 0.3000 Max. :498.880   
##   
## Payment\_type Trip\_type   
## Min. :1.000 Min. :1.000   
## 1st Qu.:1.000 1st Qu.:1.000   
## Median :2.000 Median :1.000   
## Mean :1.515 Mean :1.025   
## 3rd Qu.:2.000 3rd Qu.:1.000   
## Max. :4.000 Max. :2.000   
##

names(df)

## [1] "VendorID" "lpep\_pickup\_datetime" "Lpep\_dropoff\_datetime"  
## [4] "Store\_and\_fwd\_flag" "RateCodeID" "Pickup\_longitude"   
## [7] "Pickup\_latitude" "Dropoff\_longitude" "Dropoff\_latitude"   
## [10] "Passenger\_count" "Trip\_distance" "Fare\_amount"   
## [13] "Extra" "MTA\_tax" "Tip\_amount"   
## [16] "Tolls\_amount" "Ehail\_fee" "improvement\_surcharge"  
## [19] "Total\_amount" "Payment\_type" "Trip\_type"

df$VendorID<-factor(df$VendorID,labels=c("Mobile","VeriFone"))  
levels(df$VendorID)<-paste0("f.Vendor-",levels(df$VendorID))  
summary(df$VendorID)

## f.Vendor-Mobile f.Vendor-VeriFone   
## 1103 3897

df$Trip\_type<-factor(df$Trip\_type,labels=c("Street-Hail","Dispatch"))  
levels(df$Trip\_type)<-paste0("f.TripType-",levels(df$Trip\_type))  
summary(df$Trip\_type)

## f.TripType-Street-Hail f.TripType-Dispatch   
## 4877 123

nlevels(df$Trip\_type)

## [1] 2

df$Payment\_type<-factor(df$Payment\_type,labels=c("Credit card","Cash","No charge","Dispute"))  
levels(df$Payment\_type)<-paste0("f.PayType-",levels(df$Payment\_type))  
summary(df$Payment\_type)

## f.PayType-Credit card f.PayType-Cash f.PayType-No charge   
## 2464 2507 19   
## f.PayType-Dispute   
## 10

nlevels(df$Payment\_type)

## [1] 4

df\_datatime <- t(as.data.frame(strsplit(as.character(df$lpep\_pickup\_datetime), " ")))  
df$lpep\_pickup\_date <- factor(df\_datatime[,1])  
df$lpep\_pickup\_time <- factor(df\_datatime[,2])  
  
  
colnames(df)[which(names(df) == "Lpep\_dropoff\_datetime")] <- "lpep\_dropoff\_datetime"  
df\_datatime <- t(as.data.frame(strsplit(as.character(df$lpep\_dropoff\_datetime), " ")))  
df$lpep\_dropoff\_date <- factor(df\_datatime[,1])  
df$lpep\_dropoff\_time <- factor(df\_datatime[,2])  
  
summary(df$Store\_and\_fwd\_flag)

## N Y   
## 4983 17

df$Store\_and\_fwd\_flag <- df$Store\_and\_fwd\_flag == "Y"  
  
summary(df$improvement\_surcharge)

## Min. 1st Qu. Median Mean 3rd Qu. Max.   
## -0.3000 0.3000 0.3000 0.2912 0.3000 0.3000

colnames(df)[which(names(df) == "improvement\_surcharge")] <- "Improvement\_surcharge"  
  
# Remove non-informative variables  
df$Ehail\_fee<-NULL

# Initialization of counts for missings, outliers and errors. All numerical variables have to be checked before  
  
#######################################################  
imis<-rep(0,nrow(df)) # rows - trips  
jmis<-rep(0,2\*ncol(df)) # columns - variables  
######################################################  
jmis <- colSums(is.na(df))  
imis <- rowSums(is.na(df))  
jmis

## VendorID lpep\_pickup\_datetime lpep\_dropoff\_datetime   
## 0 0 0   
## Store\_and\_fwd\_flag RateCodeID Pickup\_longitude   
## 0 0 0   
## Pickup\_latitude Dropoff\_longitude Dropoff\_latitude   
## 0 0 0   
## Passenger\_count Trip\_distance Fare\_amount   
## 0 0 0   
## Extra MTA\_tax Tip\_amount   
## 0 0 0   
## Tolls\_amount Improvement\_surcharge Total\_amount   
## 0 0 0   
## Payment\_type Trip\_type lpep\_pickup\_date   
## 0 0 0   
## lpep\_pickup\_time lpep\_dropoff\_date lpep\_dropoff\_time   
## 0 0 0

imis

## 166 407 715 851 1072 1322 1667 1744 1969 2370   
## 0 0 0 0 0 0 0 0 0 0   
## 2756 3130 3902 4738 5162 5241 5242 5426 5472 5534   
## 0 0 0 0 0 0 0 0 0 0   
## 6010 6034 6454 7786 7806 7859 8025 8884 9072 9195   
## 0 0 0 0 0 0 0 0 0 0   
## 9412 9539 9823 9920 10311 10456 10628 10787 10981 11182   
## 0 0 0 0 0 0 0 0 0 0   
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## 1052302 1053373 1053695 1053901 1053905 1054101 1054394 1054726 1054777 1055029   
## 0 0 0 0 0 0 0 0 0 0   
## 1055816 1055963 1055966 1056076 1056486 1056792 1056890 1057041 1057169 1057309   
## 0 0 0 0 0 0 0 0 0 0   
## 1057325 1057380 1057550 1057738 1059189 1059220 1059611 1059939 1060005 1060517   
## 0 0 0 0 0 0 0 0 0 0   
## 1060558 1060902 1061040 1061310 1061326 1062330 1062466 1062860 1063031 1064023   
## 0 0 0 0 0 0 0 0 0 0   
## 1064105 1064386 1064397 1064479 1064690 1065284 1065468 1066059 1066090 1066138   
## 0 0 0 0 0 0 0 0 0 0   
## 1066657 1066813 1066837 1067216 1067328 1067552 1067775 1067830 1067910 1067948   
## 0 0 0 0 0 0 0 0 0 0   
## 1068412 1068723 1068893 1069462 1069982 1070072 1070246 1070366 1070513 1070673   
## 0 0 0 0 0 0 0 0 0 0   
## 1071596 1071696 1071985 1072141 1072955 1073049 1073286 1074148 1074277 1074324   
## 0 0 0 0 0 0 0 0 0 0   
## 1074454 1074730 1074997 1075221 1075782 1076118 1076119 1076441 1076460 1076465   
## 0 0 0 0 0 0 0 0 0 0   
## 1076468 1076707 1079058 1079163 1079176 1079765 1079812 1079980 1080159 1080531   
## 0 0 0 0 0 0 0 0 0 0   
## 1080584 1080648 1080769 1081096 1081809 1081883 1082159 1082201 1082214 1082461   
## 0 0 0 0 0 0 0 0 0 0   
## 1082509 1082764 1082821 1084052 1084567 1084596 1084632 1084734 1084760 1085188   
## 0 0 0 0 0 0 0 0 0 0   
## 1085203 1085262 1085286 1085433 1086495 1086683 1086734 1086825 1086873 1086954   
## 0 0 0 0 0 0 0 0 0 0   
## 1087113 1087356 1087427 1087485 1087804 1088042 1088377 1089173 1089289 1089576   
## 0 0 0 0 0 0 0 0 0 0   
## 1090529 1090570 1090656 1090886 1091094 1091265 1091266 1091540 1091657 1091702   
## 0 0 0 0 0 0 0 0 0 0   
## 1091919 1092100 1092461 1092840 1092907 1092986 1093333 1093876 1094557 1094807   
## 0 0 0 0 0 0 0 0 0 0   
## 1094817 1095046 1095105 1095182 1095467 1095920 1096022 1096482 1096616 1096848   
## 0 0 0 0 0 0 0 0 0 0   
## 1097552 1097750 1097781 1098023 1098138 1098297 1098427 1098581 1098788 1099271   
## 0 0 0 0 0 0 0 0 0 0   
## 1099318 1099947 1099966 1100247 1100404 1100593 1100627 1101334 1101907 1102236   
## 0 0 0 0 0 0 0 0 0 0   
## 1102622 1102861 1103306 1103530 1104448 1104681 1104899 1105050 1105268 1105364   
## 0 0 0 0 0 0 0 0 0 0   
## 1105600 1105612 1106343 1106638 1106677 1106818 1107945 1108703 1109121 1109191   
## 0 0 0 0 0 0 0 0 0 0   
## 1109360 1109733 1109848 1110413 1110447 1110586 1110749 1110936 1111007 1111288   
## 0 0 0 0 0 0 0 0 0 0   
## 1111337 1111352 1111392 1111483 1111993 1112263 1112650 1112939 1113580 1113773   
## 0 0 0 0 0 0 0 0 0 0   
## 1114508 1114580 1114985 1115941 1116886 1117163 1117322 1118307 1118325 1119068   
## 0 0 0 0 0 0 0 0 0 0   
## 1119738 1119868 1120005 1120372 1120733 1121949 1122005 1122227 1122284 1122405   
## 0 0 0 0 0 0 0 0 0 0   
## 1122993 1123681 1123719 1123748 1123931 1124127 1124232 1124668 1125693 1125721   
## 0 0 0 0 0 0 0 0 0 0   
## 1125894 1126502 1126782 1126795 1126822 1126838 1127219 1127257 1127477 1127488   
## 0 0 0 0 0 0 0 0 0 0   
## 1127650 1127929 1127939 1129002 1129140 1129354 1129408 1129738 1129759 1130026   
## 0 0 0 0 0 0 0 0 0 0   
## 1130070 1130357 1130614 1130776 1130869 1130907 1131025 1131256 1131339 1131898   
## 0 0 0 0 0 0 0 0 0 0   
## 1131914 1132079 1132419 1132868 1133002 1133452 1134331 1134670 1134899 1135116   
## 0 0 0 0 0 0 0 0 0 0   
## 1135135 1135344 1135437 1135627 1135741 1136028 1137459 1137696 1137866 1138281   
## 0 0 0 0 0 0 0 0 0 0   
## 1138697 1138850 1138968 1139048 1139622 1139811 1139827 1140083 1140523 1140939   
## 0 0 0 0 0 0 0 0 0 0   
## 1141623 1141631 1141930 1141985 1142004 1142032 1142505 1142853 1142881 1143292   
## 0 0 0 0 0 0 0 0 0 0   
## 1143611 1144347 1144351 1144573 1144672 1145525 1146242 1146435 1147173 1147521   
## 0 0 0 0 0 0 0 0 0 0   
## 1147604 1148369 1148537 1148541 1148765 1149606 1149634 1150555 1150717 1150936   
## 0 0 0 0 0 0 0 0 0 0   
## 1151355 1151557 1151641 1152392 1152592 1152891 1153028 1153423 1153484 1153579   
## 0 0 0 0 0 0 0 0 0 0   
## 1153625 1154146 1155101 1155423 1155751 1156766 1157328 1157482 1157764 1157903   
## 0 0 0 0 0 0 0 0 0 0   
## 1158310 1158523 1158565 1158619 1158739 1159051 1159456 1159640 1159866 1160188   
## 0 0 0 0 0 0 0 0 0 0   
## 1160725 1160809 1160823 1160905 1161779 1161921 1162394 1162496 1162565 1163359   
## 0 0 0 0 0 0 0 0 0 0   
## 1163957 1164079 1164631 1165744 1165833 1165961 1166004 1166551 1166633 1167269   
## 0 0 0 0 0 0 0 0 0 0   
## 1167706 1167970 1168291 1168703 1168834 1169758 1170028 1170045 1170073 1170285   
## 0 0 0 0 0 0 0 0 0 0   
## 1170620 1170730 1171289 1171408 1171725 1171797 1171999 1172189 1172442 1172698   
## 0 0 0 0 0 0 0 0 0 0   
## 1172869 1172882 1173204 1173387 1173527 1173721 1173810 1174008 1174078 1175277   
## 0 0 0 0 0 0 0 0 0 0   
## 1175383 1175555 1175597 1176028 1176688 1176817 1176870 1176950 1176976 1177876   
## 0 0 0 0 0 0 0 0 0 0   
## 1178813 1178951 1179044 1179119 1179421 1179577 1179652 1179807 1179931 1179971   
## 0 0 0 0 0 0 0 0 0 0   
## 1180047 1180489 1181093 1181263 1181264 1181306 1181363 1181410 1181465 1181821   
## 0 0 0 0 0 0 0 0 0 0   
## 1183038 1183513 1183556 1183790 1184293 1184546 1184930 1185379 1186578 1186899   
## 0 0 0 0 0 0 0 0 0 0   
## 1186971 1187098 1187157 1187215 1187675 1187878 1187891 1187913 1188565 1188724   
## 0 0 0 0 0 0 0 0 0 0   
## 1188765 1189023 1189530 1189903 1190042 1190061 1190277 1191156 1191197 1191615   
## 0 0 0 0 0 0 0 0 0 0   
## 1191705 1191873 1192238 1192515 1192741 1192933 1193062 1193194 1194036 1194805   
## 0 0 0 0 0 0 0 0 0 0   
## 1195649 1195778 1195943 1195981 1196126 1196154 1196474 1196629 1196676 1196969   
## 0 0 0 0 0 0 0 0 0 0   
## 1197309 1198004 1198070 1198167 1198741 1199047 1199491 1199615 1199661 1199673   
## 0 0 0 0 0 0 0 0 0 0   
## 1199676 1200215 1200671 1201868 1202208 1202521 1202898 1202902 1203253 1203686   
## 0 0 0 0 0 0 0 0 0 0   
## 1204062 1204096 1204532 1205009 1205018 1205383 1205451 1205531 1205971 1206954   
## 0 0 0 0 0 0 0 0 0 0   
## 1207065 1208182 1208258 1208655 1208661 1208674 1209160 1209459 1209557 1209740   
## 0 0 0 0 0 0 0 0 0 0   
## 1209840 1209870 1209947 1209964 1210149 1210869 1210971 1210975 1211173 1211303   
## 0 0 0 0 0 0 0 0 0 0   
## 1211351 1211555 1211617 1211964 1212038 1212192 1213061 1213335 1213358 1213658   
## 0 0 0 0 0 0 0 0 0 0   
## 1213762 1213801 1214771 1214853 1215047 1215663 1215716 1216297 1216491 1216693   
## 0 0 0 0 0 0 0 0 0 0   
## 1217374 1217823 1217978 1218021 1218263 1218735 1218887 1219061 1219213 1219529   
## 0 0 0 0 0 0 0 0 0 0   
## 1219718 1220208 1220255 1220926 1221130 1221190 1221373 1221888 1221929 1222478   
## 0 0 0 0 0 0 0 0 0 0   
## 1222657 1222748 1222862 1223015 1223256 1223398 1223527 1223731 1223827 1224091   
## 0 0 0 0 0 0 0 0 0 0   
## 1224181 1224222 1224327 1224986 1225098 1225343 1225580 1225873 1226249 1226535   
## 0 0 0 0 0 0 0 0 0 0   
## 1226729 1227701 1228285 1228677 1228712 1229249 1229515 1229644 1230623 1231010   
## 0 0 0 0 0 0 0 0 0 0   
## 1231173 1231748 1231775 1232343 1233029 1233183 1233560 1234088 1234260 1234310   
## 0 0 0 0 0 0 0 0 0 0   
## 1234347 1234644 1234843 1235392 1236010 1237329 1237914 1238686 1238906 1239457   
## 0 0 0 0 0 0 0 0 0 0   
## 1239829 1239948 1239985 1242032 1242267 1242377 1242468 1243628 1243631 1244589   
## 0 0 0 0 0 0 0 0 0 0   
## 1244787 1245386 1245515 1245558 1246009 1246227 1246238 1246342 1246810 1247194   
## 0 0 0 0 0 0 0 0 0 0   
## 1247287 1248075 1248810 1248821 1249066 1249078 1249129 1249426 1250639 1251092   
## 0 0 0 0 0 0 0 0 0 0   
## 1251740 1251821 1252079 1252251 1252327 1252679 1254033 1254213 1254892 1255626   
## 0 0 0 0 0 0 0 0 0 0   
## 1256320 1256663 1256742 1256778 1257362 1257559 1257784 1258479 1258499 1258716   
## 0 0 0 0 0 0 0 0 0 0   
## 1258894 1258913 1259024 1260260 1260926 1261039 1261157 1261280 1261300 1261482   
## 0 0 0 0 0 0 0 0 0 0   
## 1261693 1261730 1262137 1262155 1262289 1262388 1262712 1262958 1263890 1263911   
## 0 0 0 0 0 0 0 0 0 0   
## 1264039 1264666 1264693 1265032 1265310 1265469 1265524 1265621 1266462 1266539   
## 0 0 0 0 0 0 0 0 0 0   
## 1267112 1267904 1267999 1268443 1268638 1268650 1268753 1268848 1269393 1269600   
## 0 0 0 0 0 0 0 0 0 0   
## 1269616 1269664 1269668 1270748 1270969 1271217 1271331 1271517 1271678 1271710   
## 0 0 0 0 0 0 0 0 0 0   
## 1271807 1272194 1273365 1274049 1274151 1274275 1275128 1275343 1275385 1275442   
## 0 0 0 0 0 0 0 0 0 0   
## 1275444 1275624 1275703 1275959 1276277 1276498 1276860 1276915 1278009 1278169   
## 0 0 0 0 0 0 0 0 0 0   
## 1278282 1278477 1278869 1279309 1279382 1279423 1280961 1281326 1282229 1282557   
## 0 0 0 0 0 0 0 0 0 0   
## 1282581 1282773 1282870 1284664 1285115 1285657 1285830 1286342 1286500 1286712   
## 0 0 0 0 0 0 0 0 0 0   
## 1286906 1287113 1287274 1287333 1287670 1288019 1288120 1289326 1289633 1289868   
## 0 0 0 0 0 0 0 0 0 0   
## 1290312 1290589 1290682 1290690 1290805 1290884 1290989 1291514 1291945 1292216   
## 0 0 0 0 0 0 0 0 0 0   
## 1292384 1292471 1292538 1292611 1293254 1293837 1294417 1294683 1294770 1294975   
## 0 0 0 0 0 0 0 0 0 0   
## 1295082 1295458 1295901 1296260 1297213 1297472 1297545 1297569 1297836 1297888   
## 0 0 0 0 0 0 0 0 0 0   
## 1298268 1298467 1298825 1298916 1299338 1299476 1299918 1300968 1301354 1302327   
## 0 0 0 0 0 0 0 0 0 0   
## 1302641 1303473 1303568 1303619 1304044 1304383 1304659 1305604 1305670 1305705   
## 0 0 0 0 0 0 0 0 0 0   
## 1306131 1306162 1306735 1306782 1307599 1308144 1308187 1308414 1308909 1309362   
## 0 0 0 0 0 0 0 0 0 0   
## 1310180 1311056 1311071 1311247 1311303 1311319 1311518 1311801 1311956 1312644   
## 0 0 0 0 0 0 0 0 0 0   
## 1313547 1314183 1314248 1314321 1314751 1314848 1314968 1314976 1315796 1315998   
## 0 0 0 0 0 0 0 0 0 0   
## 1316041 1316044 1316306 1316420 1317057 1317139 1318116 1318179 1318650 1318706   
## 0 0 0 0 0 0 0 0 0 0   
## 1319058 1319081 1319209 1319274 1319640 1320282 1320444 1320524 1320551 1320947   
## 0 0 0 0 0 0 0 0 0 0   
## 1321145 1321331 1321686 1322261 1322621 1322676 1322803 1322933 1323228 1323352   
## 0 0 0 0 0 0 0 0 0 0   
## 1323519 1323909 1325676 1325784 1326144 1326265 1326817 1328179 1328257 1328285   
## 0 0 0 0 0 0 0 0 0 0   
## 1329483 1329552 1329690 1329759 1329881 1330781 1330919 1331676 1331687 1331833   
## 0 0 0 0 0 0 0 0 0 0   
## 1332402 1332467 1332510 1332763 1334113 1334314 1334397 1334653 1334794 1334825   
## 0 0 0 0 0 0 0 0 0 0   
## 1334872 1335640 1335858 1335930 1336028 1336207 1336377 1336435 1336637 1336779   
## 0 0 0 0 0 0 0 0 0 0   
## 1336846 1336958 1336977 1337165 1337211 1337788 1337814 1339657 1339989 1340143   
## 0 0 0 0 0 0 0 0 0 0   
## 1340221 1340319 1341049 1341380 1342013 1342617 1343208 1343510 1343511 1343692   
## 0 0 0 0 0 0 0 0 0 0   
## 1343983 1344727 1344769 1344830 1345047 1345475 1345838 1346065 1346237 1346373   
## 0 0 0 0 0 0 0 0 0 0   
## 1346554 1346751 1347119 1347248 1347566 1347634 1347777 1348133 1348193 1348576   
## 0 0 0 0 0 0 0 0 0 0   
## 1348724 1349030 1349295 1349437 1349491 1349954 1350337 1352018 1352168 1352347   
## 0 0 0 0 0 0 0 0 0 0   
## 1352367 1352644 1353411 1353659 1354284 1354291 1354351 1354374 1355173 1355597   
## 0 0 0 0 0 0 0 0 0 0   
## 1355960 1356712 1357382 1357704 1357750 1357751 1357859 1358622 1358663 1358688   
## 0 0 0 0 0 0 0 0 0 0   
## 1358834 1358969 1358970 1359012 1359461 1359789 1359819 1360034 1360297 1360468   
## 0 0 0 0 0 0 0 0 0 0   
## 1360496 1360682 1360816 1361105 1361270 1361758 1361858 1362497 1362576 1362733   
## 0 0 0 0 0 0 0 0 0 0   
## 1363283 1363593 1364267 1365082 1365211 1366286 1366303 1366696 1367244 1368773   
## 0 0 0 0 0 0 0 0 0 0   
## 1369141 1369555 1369571 1370232 1370242 1370269 1370573 1370711 1370970 1371394   
## 0 0 0 0 0 0 0 0 0 0   
## 1371680 1371857 1371895 1372206 1372248 1372904 1373406 1373542 1373850 1374187   
## 0 0 0 0 0 0 0 0 0 0   
## 1375138 1375776 1376882 1377151 1377205 1377525 1377851 1377909 1378619 1378795   
## 0 0 0 0 0 0 0 0 0 0   
## 1378802 1379621 1379841 1379979 1380240 1380781 1380850 1381160 1381311 1381361   
## 0 0 0 0 0 0 0 0 0 0   
## 1381645 1381702 1381746 1381911 1382021 1382034 1382232 1382959 1383090 1383922   
## 0 0 0 0 0 0 0 0 0 0   
## 1384057 1384434 1384571 1384635 1384934 1385690 1385745 1386143 1386219 1386617   
## 0 0 0 0 0 0 0 0 0 0   
## 1387226 1387503 1387813 1387887 1388192 1388352 1388404 1388455 1388776 1389215   
## 0 0 0 0 0 0 0 0 0 0   
## 1389376 1389505 1389609 1389749 1389784 1390059 1390078 1390123 1390234 1390315   
## 0 0 0 0 0 0 0 0 0 0   
## 1390362 1390567 1390594 1390619 1391235 1391334 1392112 1392580 1392620 1393102   
## 0 0 0 0 0 0 0 0 0 0   
## 1393509 1393818 1394221 1394481 1394695 1394769 1394935 1394957 1395804 1395936   
## 0 0 0 0 0 0 0 0 0 0   
## 1396432 1396952 1397061 1397432 1397974 1399368 1399719 1399825 1399830 1399867   
## 0 0 0 0 0 0 0 0 0 0   
## 1400322 1400327 1400420 1400510 1400583 1400670 1401042 1401245 1401985 1402054   
## 0 0 0 0 0 0 0 0 0 0   
## 1402096 1402710 1402822 1403499 1404395 1404732 1404899 1404923 1405137 1405231   
## 0 0 0 0 0 0 0 0 0 0   
## 1405293 1405315 1405340 1406119 1406277 1406296 1406397 1406947 1406992 1407157   
## 0 0 0 0 0 0 0 0 0 0   
## 1407368 1407456 1407471 1408047 1408077 1408105 1408218 1408265 1408595 1408652   
## 0 0 0 0 0 0 0 0 0 0   
## 1408818 1409017 1409064 1409601 1409615 1410495 1410951 1411500 1411530 1411694   
## 0 0 0 0 0 0 0 0 0 0   
## 1411711 1412883 1412949 1412986 1413561 1414164 1414405 1414412 1414450 1414463   
## 0 0 0 0 0 0 0 0 0 0   
## 1414623 1414963 1415633 1415887 1416026 1416057 1416062 1416067 1416179 1416366   
## 0 0 0 0 0 0 0 0 0 0   
## 1416433 1416734 1416841 1416970 1416988 1417064 1417513 1418154 1418771 1418801   
## 0 0 0 0 0 0 0 0 0 0   
## 1419091 1419187 1420218 1420443 1420717 1420943 1420976 1421376 1421586 1421687   
## 0 0 0 0 0 0 0 0 0 0   
## 1421737 1422095 1422301 1422832 1423334 1423547 1423867 1423969 1424211 1424227   
## 0 0 0 0 0 0 0 0 0 0   
## 1424829 1425132 1425188 1425483 1425826 1425961 1426153 1426351 1426419 1426519   
## 0 0 0 0 0 0 0 0 0 0   
## 1426957 1427490 1427491 1427582 1428327 1428618 1429180 1429490 1429563 1429565   
## 0 0 0 0 0 0 0 0 0 0   
## 1429614 1429848 1429872 1430008 1430753 1430856 1431112 1431129 1431712 1431738   
## 0 0 0 0 0 0 0 0 0 0   
## 1431796 1431809 1432028 1432240 1432607 1432636 1433533 1433993 1434665 1435187   
## 0 0 0 0 0 0 0 0 0 0   
## 1435197 1436330 1436842 1436893 1437091 1437115 1437246 1437325 1437538 1438486   
## 0 0 0 0 0 0 0 0 0 0   
## 1438719 1439598 1439876 1440064 1440279 1440573 1440664 1440800 1440884 1441110   
## 0 0 0 0 0 0 0 0 0 0   
## 1441586 1441643 1441870 1441887 1442423 1442996 1443089 1443925 1444285 1445227   
## 0 0 0 0 0 0 0 0 0 0

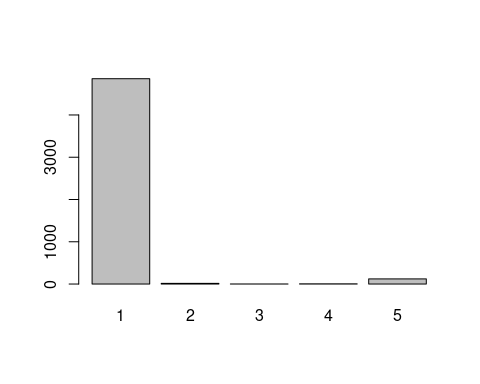
#######################################################  
iouts<-rep(0,nrow(df)) # rows outliers - trips  
jouts<-rep(0,2\*ncol(df)) # columns outliers - variables  
######################################################  
  
#######################################################  
ierrs<-rep(0,nrow(df)) # rows errors - trips  
jerrs<-rep(0,2\*ncol(df)) # columns errors - variables  
######################################################

## Univariant outliers and errors

#### Variable RateCodeID. Consider Recoding to fewer levels  
summary(df$RateCodeID)

## Min. 1st Qu. Median Mean 3rd Qu. Max.   
## 1.000 1.000 1.000 1.104 1.000 5.000

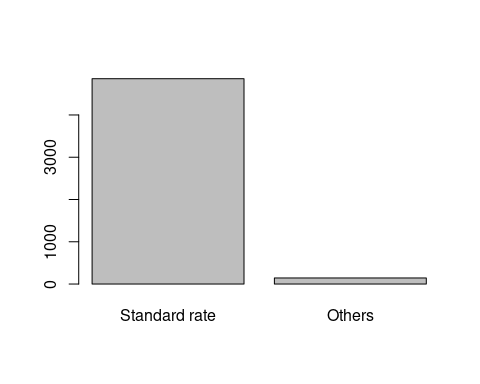
df$RateCodeID<-factor(df$RateCodeID)  
barplot(table(df$RateCodeID))



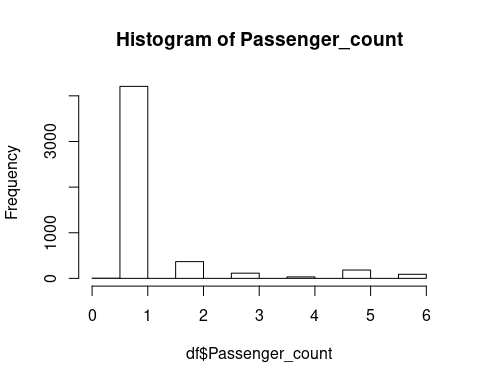
# It is a categorical(=factor) variable NO PROBLEM but not any interest  
df$RateCodeID <- df$RateCodeID != 1  
df$RateCodeID <- factor(df$RateCodeID, labels=c("Standard rate","Others"))  
summary(df$RateCodeID)

## Standard rate Others   
## 4857 143

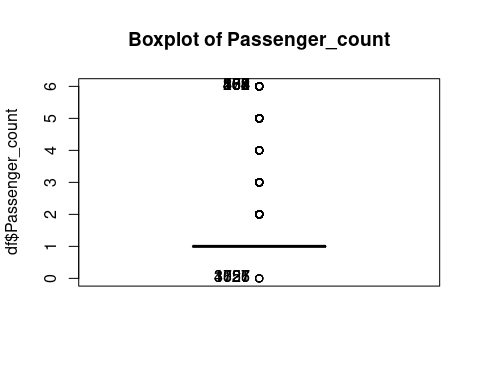
barplot(table(df$RateCodeID))



#Variable Passenger\_count  
  
hist(df$Passenger\_count, main="Histogram of Passenger\_count")



Boxplot(df$Passenger\_count, main="Boxplot of Passenger\_count")

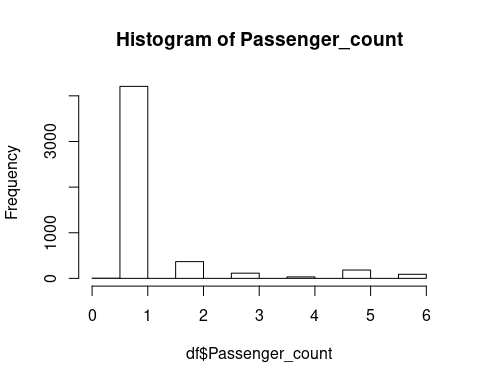


## [1] 57 1026 3155 3821 4727 55 82 106 172 264 307 405 468 509 534

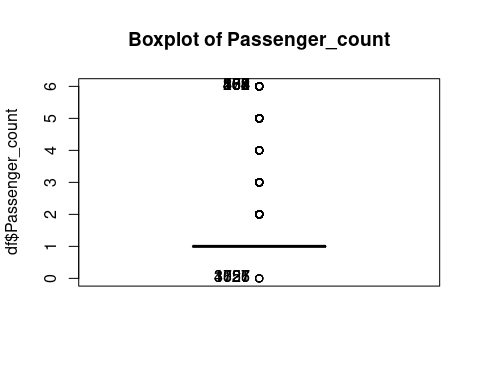
summary(df$Passenger\_count)

## Min. 1st Qu. Median Mean 3rd Qu. Max.   
## 0.000 1.000 1.000 1.375 1.000 6.000

# errors  
l <- which(df$Passenger\_count<0)  
if (length(l)>0) {  
 ierrs[l]<-ierrs[l]+1  
 jerrs["Passenger\_count"]<-length(l)  
}  
df[l,"Passenger\_count"]<-NA   
  
  
hist(df$Passenger\_count, main="Histogram of Passenger\_count")



Boxplot(df$Passenger\_count, main="Boxplot of Passenger\_count")



## [1] 57 1026 3155 3821 4727 55 82 106 172 264 307 405 468 509 534

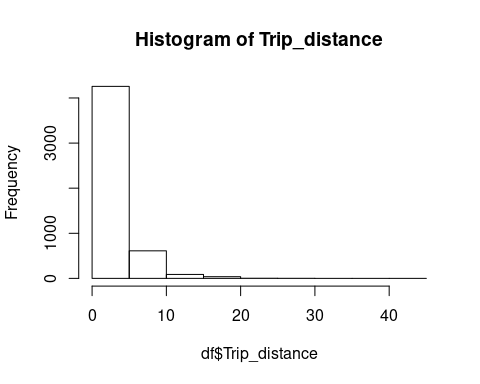
summary(df$Passenger\_count)

## Min. 1st Qu. Median Mean 3rd Qu. Max.   
## 0.000 1.000 1.000 1.375 1.000 6.000

#Variable Trip\_distance  
summary(df$Trip\_distance)

## Min. 1st Qu. Median Mean 3rd Qu. Max.   
## 0.000 1.020 1.850 2.807 3.583 42.200

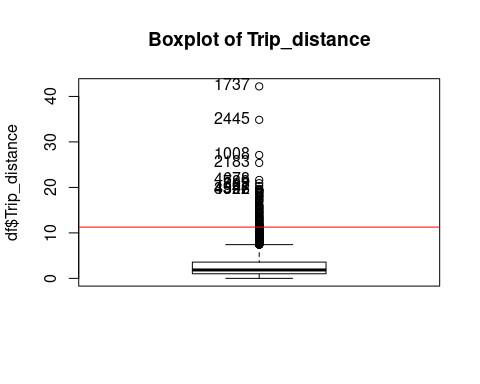
#errors ->correct  
  
#outliers  
hist(df$Trip\_distance, main="Histogram of Trip\_distance")



Boxplot(df$Trip\_distance, main="Boxplot of Trip\_distance")

## [1] 1737 2445 1008 2183 4678 789 322 4947 4322 3596

var\_out<-calcQ(df$Trip\_distance)  
abline(h=var\_out$souts,col="red")  
abline(h=var\_out$souti,col="blue")



l<-which(df$Trip\_distance>20)  
iouts[l]<-iouts[l]+1  
jouts["Trip\_distance"]<-length(l)  
  
  
  
### Variable Pickup\_latitude  
  
summary(df$Pickup\_latitude)

## Min. 1st Qu. Median Mean 3rd Qu. Max.   
## 0.00 40.69 40.75 40.69 40.80 40.89

#0.00 looks to be an error  
# Seeing the individuals with this "0" value:  
df[which(df[,"Pickup\_latitude"]==0),]

## VendorID lpep\_pickup\_datetime lpep\_dropoff\_datetime  
## 406832 f.Vendor-VeriFone 2016-01-09 15:50:34 2016-01-09 15:50:36  
## 606968 f.Vendor-VeriFone 2016-01-13 21:39:51 2016-01-13 21:39:51  
## 725267 f.Vendor-VeriFone 2016-01-16 05:20:01 2016-01-16 05:20:03  
## 875725 f.Vendor-Mobile 2016-01-19 10:49:02 2016-01-19 11:05:19  
## 1005681 f.Vendor-VeriFone 2016-01-22 07:00:48 2016-01-22 07:00:50  
## 1270969 f.Vendor-VeriFone 2016-01-29 00:59:10 2016-01-29 00:59:24  
## 1371680 f.Vendor-Mobile 2016-01-30 18:18:51 2016-01-30 18:28:56  
## Store\_and\_fwd\_flag RateCodeID Pickup\_longitude Pickup\_latitude  
## 406832 FALSE Others 0 0  
## 606968 FALSE Others 0 0  
## 725267 FALSE Others 0 0  
## 875725 FALSE Standard rate 0 0  
## 1005681 FALSE Others 0 0  
## 1270969 FALSE Standard rate 0 0  
## 1371680 FALSE Standard rate 0 0  
## Dropoff\_longitude Dropoff\_latitude Passenger\_count Trip\_distance  
## 406832 -73.76552 40.69951 2 0.0  
## 606968 -73.89523 40.83012 1 0.0  
## 725267 -73.81518 40.73966 1 0.0  
## 875725 0.00000 0.00000 1 3.4  
## 1005681 -73.89156 40.85262 1 0.0  
## 1270969 -73.94579 40.67945 1 0.0  
## 1371680 -73.90790 40.74529 2 1.3  
## Fare\_amount Extra MTA\_tax Tip\_amount Tolls\_amount Improvement\_surcharge  
## 406832 400.0 0.0 0.0 98.88 0 0.0  
## 606968 11.0 0.0 0.0 0.00 0 0.0  
## 725267 11.0 0.0 0.0 0.00 0 0.0  
## 875725 13.5 0.0 0.5 0.00 0 0.3  
## 1005681 10.0 0.0 0.0 0.00 0 0.0  
## 1270969 2.5 0.5 0.5 10.00 0 0.3  
## 1371680 8.0 1.0 0.5 0.00 0 0.3  
## Total\_amount Payment\_type Trip\_type  
## 406832 498.88 f.PayType-Credit card f.TripType-Dispatch  
## 606968 11.00 f.PayType-Credit card f.TripType-Dispatch  
## 725267 11.00 f.PayType-Credit card f.TripType-Dispatch  
## 875725 14.30 f.PayType-Credit card f.TripType-Street-Hail  
## 1005681 10.00 f.PayType-Credit card f.TripType-Dispatch  
## 1270969 13.80 f.PayType-Credit card f.TripType-Street-Hail  
## 1371680 9.80 f.PayType-Cash f.TripType-Street-Hail  
## lpep\_pickup\_date lpep\_pickup\_time lpep\_dropoff\_date lpep\_dropoff\_time  
## 406832 2016-01-09 15:50:34 2016-01-09 15:50:36  
## 606968 2016-01-13 21:39:51 2016-01-13 21:39:51  
## 725267 2016-01-16 05:20:01 2016-01-16 05:20:03  
## 875725 2016-01-19 10:49:02 2016-01-19 11:05:19  
## 1005681 2016-01-22 07:00:48 2016-01-22 07:00:50  
## 1270969 2016-01-29 00:59:10 2016-01-29 00:59:24  
## 1371680 2016-01-30 18:18:51 2016-01-30 18:28:56

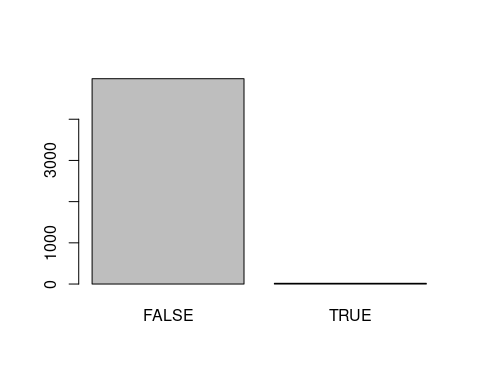
# It is a quantitive variable Non-possible values will be recoded to NA  
sel<-which(df$Pickup\_latitude ==0)  
ierrs[sel]<-ierrs[sel]+1  
jerrs["Pickup\_latitude"]<-length(sel)  
sel #### sel contains the rownames of the individuals with "0"

## [1] 1393 2111 2527 3038 3513 4415 4731

# as value for longitude  
df[sel,"Pickup\_latitude"]<-NA # non-possible values are replaced by NA, missing value symbol in R  
  
  
  
#### Variable Store\_and\_fwd\_flag  
summary(df$Store\_and\_fwd\_flag)

## Mode FALSE TRUE   
## logical 4983 17

df$Store\_and\_fwd\_flag<-factor(df$Store\_and\_fwd\_flag)  
barplot(table(df$Store\_and\_fwd\_flag))



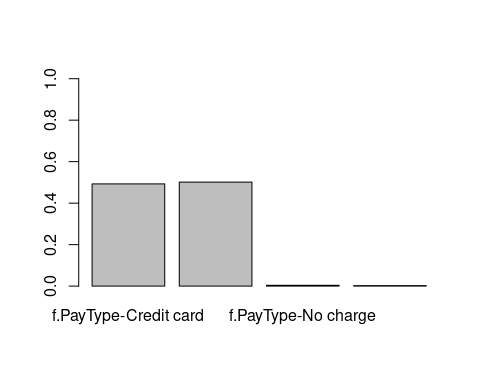
# It is a categorical(=factor) variable NO PROBLEM but not any interest  
  
  
### Variable Payment\_type  
summary(df$Payment\_type)

## f.PayType-Credit card f.PayType-Cash f.PayType-No charge   
## 2464 2507 19   
## f.PayType-Dispute   
## 10

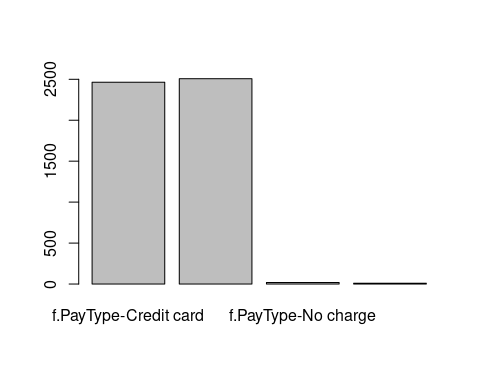
frequency <- summary(df$Payment\_type)  
frequency <- frequency/sum(frequency)  
frequency

## f.PayType-Credit card f.PayType-Cash f.PayType-No charge   
## 0.4928 0.5014 0.0038   
## f.PayType-Dispute   
## 0.0020

barplot(frequency,ylim=c(0,1))



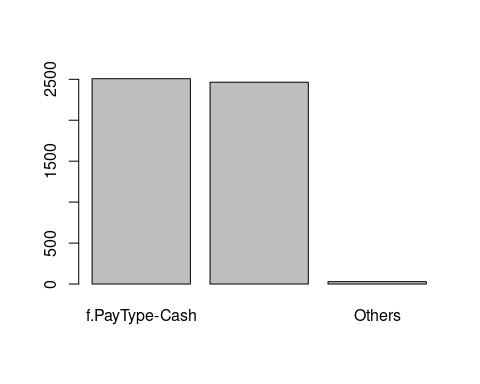
barplot(table(df$Payment\_type))



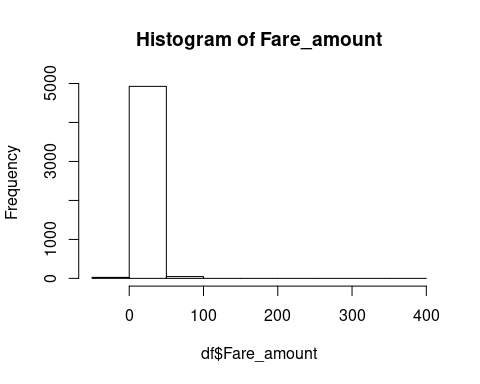
l <- which(df$Payment\_type != "f.PayType-Credit card" & df$Payment\_type != "f.PayType-Cash" )  
df$Payment\_type <- as.character(df$Payment\_type)  
df[l,"Payment\_type"] <- "Others"  
df$Payment\_type <- as.factor(df$Payment\_type )  
summary(df$Payment\_type)

## f.PayType-Cash f.PayType-Credit card Others   
## 2507 2464 29

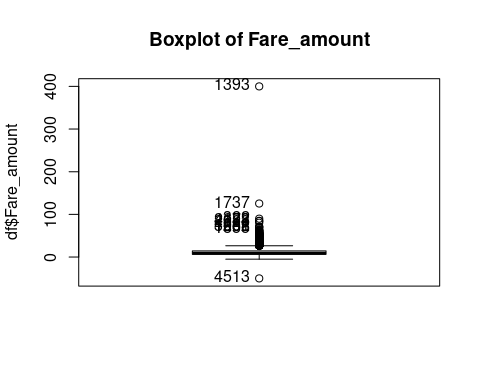
barplot(table(df$Payment\_type))



## Variable Fare\_amount  
hist(df$Fare\_amount, main="Histogram of Fare\_amount")



Boxplot(df$Fare\_amount, main="Boxplot of Fare\_amount")



## [1] 4513 1393 1737 322 4678 2183 2223 3251 1008 1982 1855

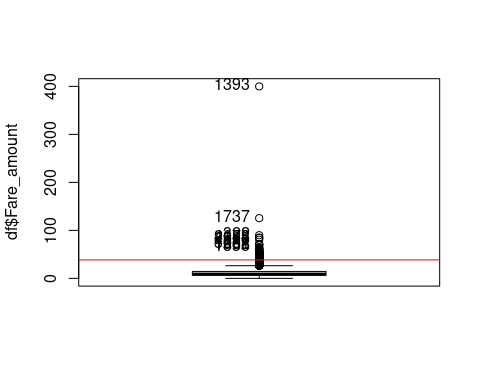
summary(df$Fare\_amount)

## Min. 1st Qu. Median Mean 3rd Qu. Max.   
## -50.00 6.50 9.00 12.09 14.50 400.00

# errors  
l <- which(df$Fare\_amount<0)  
if (length(l)>0) {  
 ierrs[l]<-ierrs[l]+1  
 jerrs["Fare\_amount"]<-length(l)  
}  
df[l,"Fare\_amount"]<-NA   
  
# Outlier detection  
Boxplot(df$Fare\_amount)

## [1] 1393 1737 322 4678 2183 2223 3251 1008 1982 1855

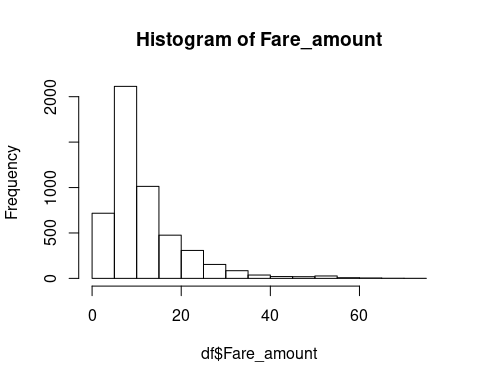
var\_out<-calcQ(df$Fare\_amount)  
abline(h=var\_out$souts,col="red")  
abline(h=var\_out$souti,col="blue")



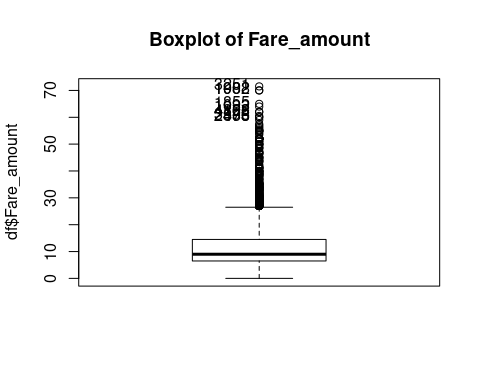
var\_out$souts

## 3rd Qu.   
## 38.5

l <-which(df$Fare\_amount>80)  
iouts[l ]<-iouts[l]+1  
jouts["Fare\_amount"]<-length(l)  
df[l,"Fare\_amount"]<-NA   
  
hist(df$Fare\_amount, main="Histogram of Fare\_amount")



Boxplot(df$Fare\_amount, main="Boxplot of Fare\_amount")

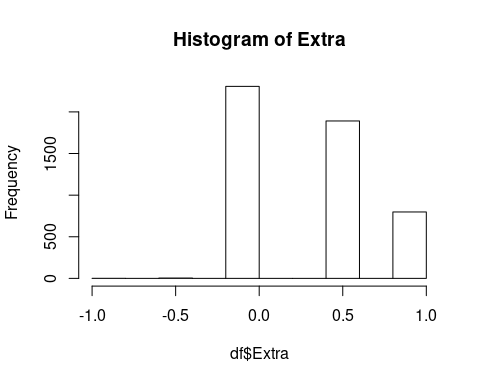


## [1] 3251 1008 1982 1855 1092 4168 4322 3596 2473 2888

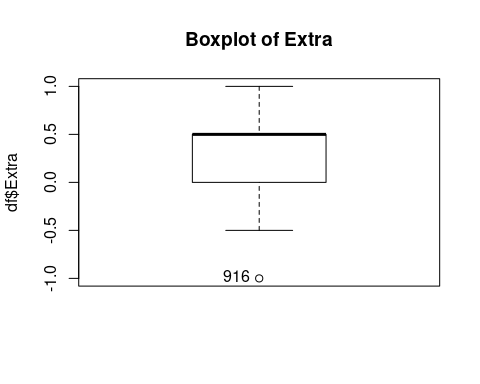
summary(df$Fare\_amount)

## Min. 1st Qu. Median Mean 3rd Qu. Max. NA's   
## 0.00 6.50 9.00 11.97 14.50 71.50 15

## Variable Extra  
  
hist(df$Extra, main="Histogram of Extra")



Boxplot(df$Extra, main="Boxplot of Extra")

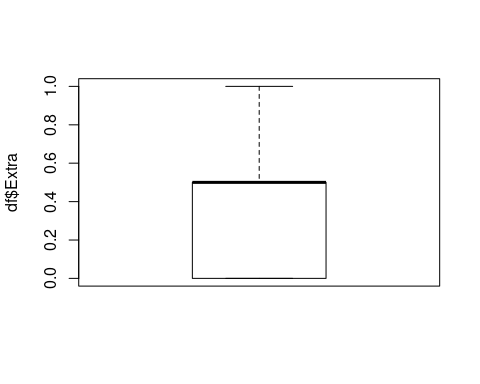


## [1] 916

summary(df$Extra)

## Min. 1st Qu. Median Mean 3rd Qu. Max.   
## -1.0000 0.0000 0.5000 0.3481 0.5000 1.0000

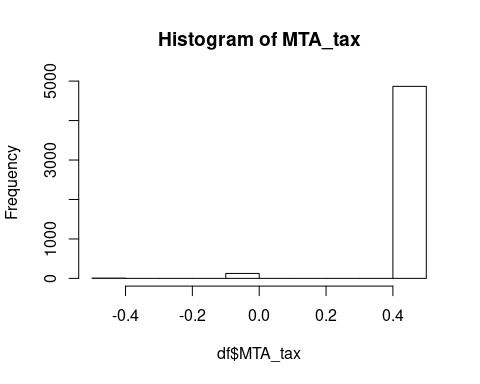
# errors  
l <- which(df$Extra<0)  
if (length(l)>0) {  
 ierrs[l]<-ierrs[l]+1  
 jerrs["Extra"]<-length(l)  
}  
df[l,"Extra"]<-NA   
  
# Outlier detection  
Boxplot(df$Extra)  
var\_out<-calcQ(df$Extra)  
abline(h=var\_out$souts,col="red")  
abline(h=var\_out$souti,col="blue")



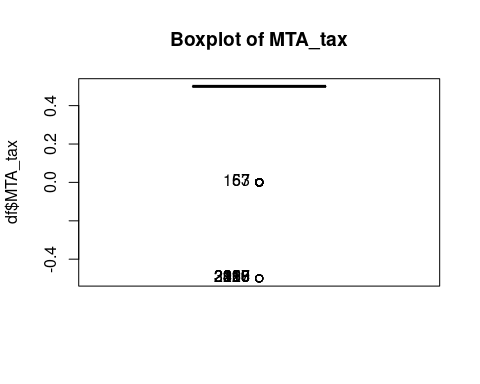
var\_out$souts

## 3rd Qu.   
## 2

#No outliers  
  
### Variable MTA\_tax  
hist(df$MTA\_tax, main="Histogram of MTA\_tax")



Boxplot(df$MTA\_tax, main="Boxplot of MTA\_tax")



## [1] 150 229 313 916 2097 2466 3128 3319 57 163

summary(df$MTA\_tax)

## Min. 1st Qu. Median Mean 3rd Qu. Max.   
## -0.5000 0.5000 0.5000 0.4858 0.5000 0.5000

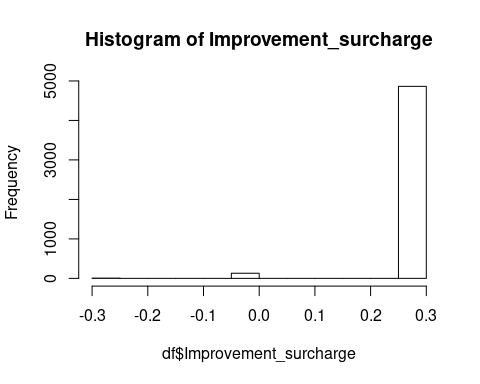
# errors  
l <- which(df$MTA\_tax<0)  
if (length(l)>0) {  
 ierrs[l]<-ierrs[l]+1  
 jerrs["MTA\_tax"]<-length(l)  
}  
df[l,"MTA\_tax"]<-NA   
  
df[,"MTA\_tax"] <- df[,"MTA\_tax"] == 0.5  
barplot(table(df[,"MTA\_tax"]))



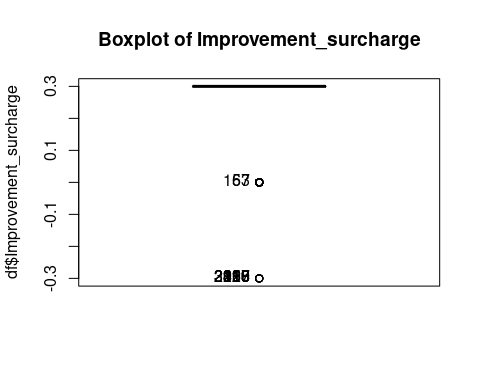
summary(df[,"MTA\_tax"] )

## Mode FALSE TRUE NA's   
## logical 126 4866 8

#it is not a useful information because in theory it is always 0.5$.  
  
### Variable Improvement\_surcharge  
hist(df$Improvement\_surcharge, main="Histogram of Improvement\_surcharge")



Boxplot(df$Improvement\_surcharge, main="Boxplot of Improvement\_surcharge")



## [1] 150 229 313 916 2097 2466 3128 3319 57 163

summary(df$Improvement\_surcharge)

## Min. 1st Qu. Median Mean 3rd Qu. Max.   
## -0.3000 0.3000 0.3000 0.2912 0.3000 0.3000

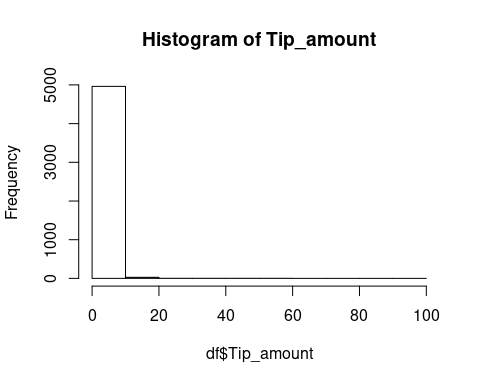
# errors  
l <- which(df$Improvement\_surcharge<0)  
if (length(l)>0) {  
 ierrs[l]<-ierrs[l]+1  
 jerrs["Improvement\_surcharge"]<-length(l)  
}  
df[l,"Improvement\_surcharge"]<-NA   
df[,"Improvement\_surcharge"] <- df[,"Improvement\_surcharge"] == 0.3  
barplot(table(df[,"Improvement\_surcharge"]))



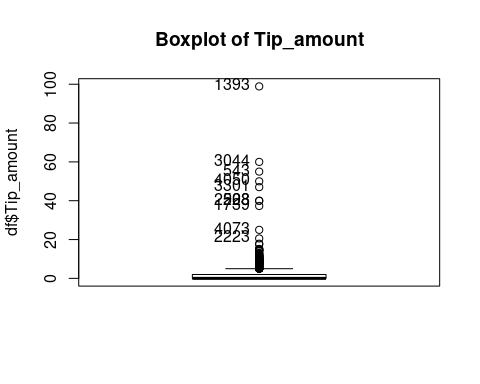
summary(df[,"Improvement\_surcharge"] )

## Mode FALSE TRUE NA's   
## logical 130 4862 8

#it is not a useful information because in theory it is always 0.3$.  
  
# Variable Tip\_amount  
hist(df$Tip\_amount, main="Histogram of Tip\_amount")



Boxplot(df$Tip\_amount, main="Boxplot of Tip\_amount")



## [1] 1393 3044 543 4050 3301 503 2228 1739 4073 2223

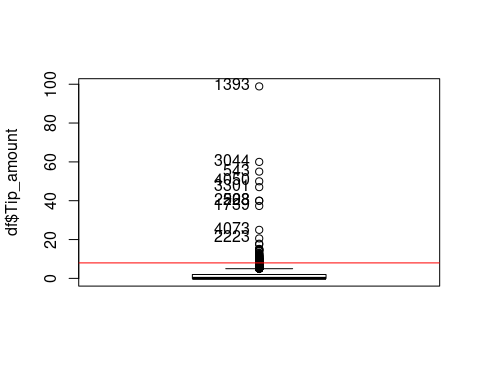
summary(df$Tip\_amount)

## Min. 1st Qu. Median Mean 3rd Qu. Max.   
## 0.000 0.000 0.000 1.319 2.000 98.880

# errors  
l <- which(df$Tip\_amount<0)  
if (length(l)>0) {  
 ierrs[l]<-ierrs[l]+1  
 jerrs["Tip\_amount"]<-length(l)  
}  
df[l,"Tip\_amount"]<-NA   
  
# Outlier detection  
Boxplot(df$Tip\_amount)

## [1] 1393 3044 543 4050 3301 503 2228 1739 4073 2223

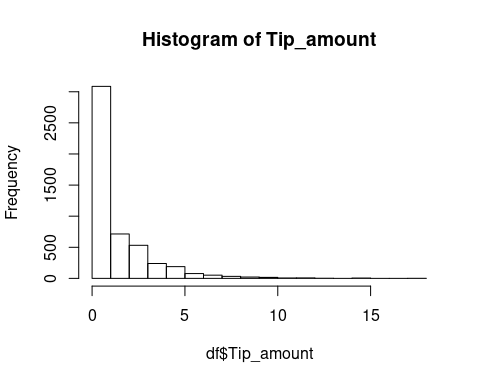
var\_out<-calcQ(df$Tip\_amount)  
abline(h=var\_out$souts,col="red")  
abline(h=var\_out$souti,col="blue")



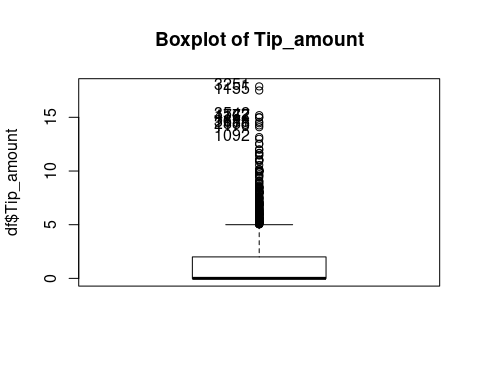
var\_out$souts

## 3rd Qu.   
## 8

l <-which(df$Tip\_amount>20)  
iouts[l ]<-iouts[l]+1  
jouts["Tip\_amount"]<-length(l)  
df[l,"Tip\_amount"]<-NA   
  
hist(df$Tip\_amount, main="Histogram of Tip\_amount")



Boxplot(df$Tip\_amount, main="Boxplot of Tip\_amount")

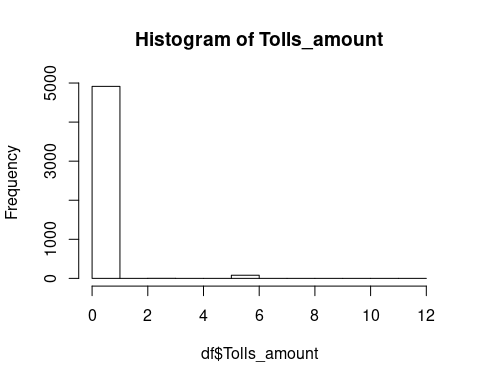


## [1] 3251 1155 3542 1777 4162 611 3688 2888 1170 1092

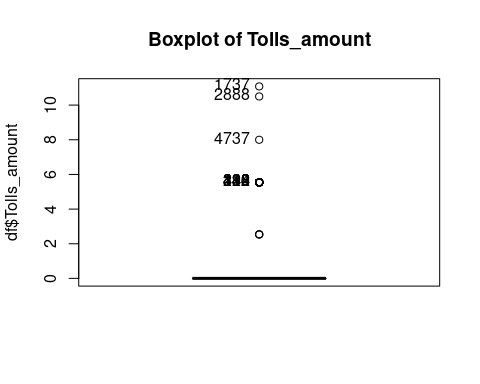
summary(df$Tip\_amount)

## Min. 1st Qu. Median Mean 3rd Qu. Max. NA's   
## 0.000 0.000 0.000 1.227 2.000 17.880 10

### Variable Tolls\_amount  
  
hist(df$Tolls\_amount, main="Histogram of Tolls\_amount")



Boxplot(df$Tolls\_amount, main="Boxplot of Tolls\_amount")



## [1] 1737 2888 4737 132 140 296 322 346 414 448

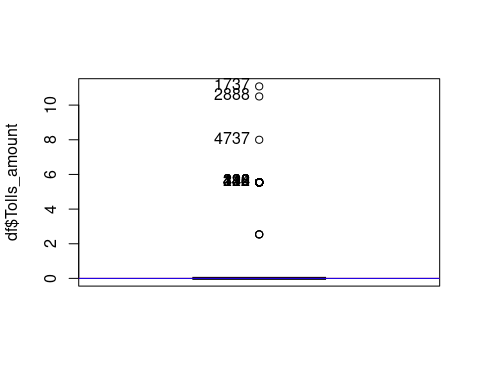
summary(df$Tolls\_amount)

## Min. 1st Qu. Median Mean 3rd Qu. Max.   
## 0.00000 0.00000 0.00000 0.09719 0.00000 11.08000

# errors  
l <- which(df$Tolls\_amount<0)  
if (length(l)>0) {  
 ierrs[l]<-ierrs[l]+1  
 jerrs["Tolls\_amount"]<-length(l)  
}  
df[l,"Tolls\_amount"]<-NA   
  
# Outlier detection  
Boxplot(df$Tolls\_amount)

## [1] 1737 2888 4737 132 140 296 322 346 414 448

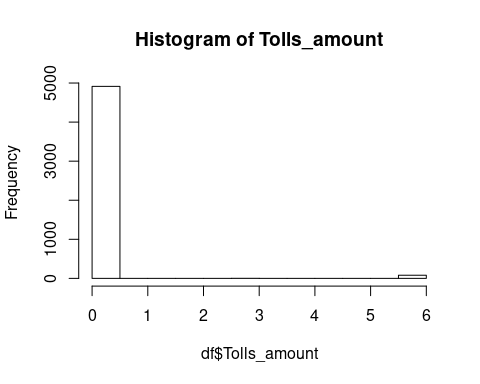
var\_out<-calcQ(df$Tolls\_amount)  
abline(h=var\_out$souts,col="red")  
abline(h=var\_out$souti,col="blue")



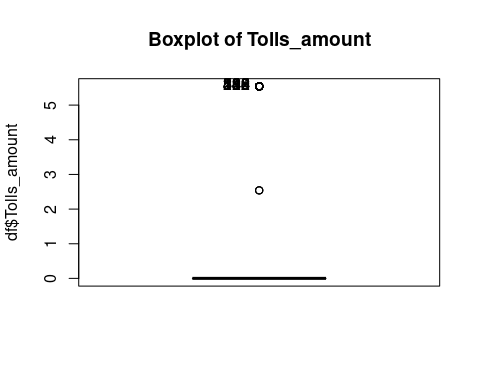
var\_out$souts

## 3rd Qu.   
## 0

l <-which(df$Tolls\_amount>7)  
iouts[l ]<-iouts[l]+1  
jouts["Tolls\_amount"]<-length(l)  
df[l,"Tolls\_amount"]<-NA   
  
hist(df$Tolls\_amount, main="Histogram of Tolls\_amount")



Boxplot(df$Tolls\_amount, main="Boxplot of Tolls\_amount")



## [1] 132 140 296 322 346 414 448 569 585 588

summary(df$Tolls\_amount)

## Min. 1st Qu. Median Mean 3rd Qu. Max. NA's   
## 0.00000 0.00000 0.00000 0.09133 0.00000 5.54000 3

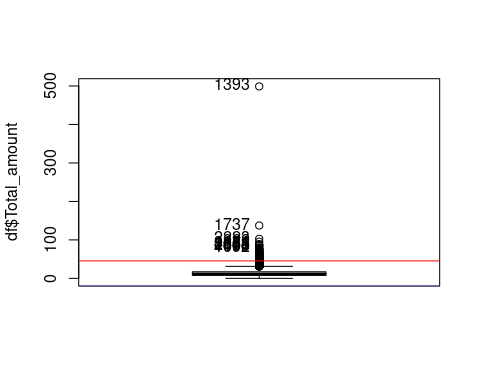
### Variable Total\_amount  
  
#errors  
  
summary(df$Total\_amount)

## Min. 1st Qu. Median Mean 3rd Qu. Max.   
## -50.000 7.872 11.300 14.633 17.300 498.880

l<-which(df$Total\_amount<0)  
if (length(l)>0) {  
 ierrs[l]<-ierrs[l]+1  
 jerrs["Total\_amount"]<-length(l)  
}  
df[l,"Total\_amount"]<-NA  
  
# Outlier detection  
Boxplot(df$Total\_amount)

## [1] 1393 1737 2223 322 3251 4678 2888 2183 1008 1092

var\_out<-calcQ(df$Total\_amount)  
abline(h=var\_out$souts,col="red")  
abline(h=var\_out$souti,col="blue")



l<-which((df$Total\_amount<0)|(df$Total\_amount>100))  
iouts[l]<-iouts[l]+1  
jouts["Total\_amount"]<-length(l)  
df[l,"Total\_amount"]<-NA

## Imputation of qualitative variables

#MCA no es necesario ya que no hay variables categoricas con nulos.  
  
#vars\_dis <- c("VendorID","lpep\_pickup\_datetime", "lpep\_dropoff\_datetime", "RateCodeID","Payment\_type", "Store\_and\_fwd\_flag", "lpep\_pickup\_period", "lpep\_dropoff\_period", "Trip\_type", "lpep\_pickup\_period", "lpep\_dropoff\_period")  
  
#summary(df[,vars\_dis])  
#res.immca<-imputeMCA(df[,vars\_dis],ncp=10)  
#summary(res.immca$completeObs)  
  
# Check one by one  
#df[ , vars\_dis]<-res.immca$completeObs

## Imputation of numeric variables

library(missMDA)  
  
names(df)

## [1] "VendorID" "lpep\_pickup\_datetime" "lpep\_dropoff\_datetime"  
## [4] "Store\_and\_fwd\_flag" "RateCodeID" "Pickup\_longitude"   
## [7] "Pickup\_latitude" "Dropoff\_longitude" "Dropoff\_latitude"   
## [10] "Passenger\_count" "Trip\_distance" "Fare\_amount"   
## [13] "Extra" "MTA\_tax" "Tip\_amount"   
## [16] "Tolls\_amount" "Improvement\_surcharge" "Total\_amount"   
## [19] "Payment\_type" "Trip\_type" "lpep\_pickup\_date"   
## [22] "lpep\_pickup\_time" "lpep\_dropoff\_date" "lpep\_dropoff\_time"

summary(df)

## VendorID lpep\_pickup\_datetime  
## f.Vendor-Mobile :1103 2016-01-10 03:07:32: 2   
## f.Vendor-VeriFone:3897 2016-01-20 19:47:26: 2   
## 2016-01-01 00:02:22: 1   
## 2016-01-01 00:16:59: 1   
## 2016-01-01 00:20:21: 1   
## 2016-01-01 00:20:30: 1   
## (Other) :4992   
## lpep\_dropoff\_datetime Store\_and\_fwd\_flag RateCodeID   
## 2016-01-22 00:00:00: 3 FALSE:4983 Standard rate:4857   
## 2016-01-08 20:53:45: 2 TRUE : 17 Others : 143   
## 2016-01-09 14:00:49: 2   
## 2016-01-20 00:00:00: 2   
## 2016-01-31 18:59:28: 2   
## 2016-01-01 00:06:59: 1   
## (Other) :4988   
## Pickup\_longitude Pickup\_latitude Dropoff\_longitude Dropoff\_latitude  
## Min. :-74.16 Min. :40.57 Min. :-74.18 Min. : 0.00   
## 1st Qu.:-73.96 1st Qu.:40.70 1st Qu.:-73.97 1st Qu.:40.70   
## Median :-73.95 Median :40.75 Median :-73.95 Median :40.75   
## Mean :-73.83 Mean :40.75 Mean :-73.88 Mean :40.71   
## 3rd Qu.:-73.92 3rd Qu.:40.80 3rd Qu.:-73.91 3rd Qu.:40.79   
## Max. : 0.00 Max. :40.89 Max. : 0.00 Max. :40.94   
## NA's :7   
## Passenger\_count Trip\_distance Fare\_amount Extra   
## Min. :0.000 Min. : 0.000 Min. : 0.00 Min. :0.000   
## 1st Qu.:1.000 1st Qu.: 1.020 1st Qu.: 6.50 1st Qu.:0.000   
## Median :1.000 Median : 1.850 Median : 9.00 Median :0.500   
## Mean :1.375 Mean : 2.807 Mean :11.97 Mean :0.349   
## 3rd Qu.:1.000 3rd Qu.: 3.583 3rd Qu.:14.50 3rd Qu.:0.500   
## Max. :6.000 Max. :42.200 Max. :71.50 Max. :1.000   
## NA's :15 NA's :5   
## MTA\_tax Tip\_amount Tolls\_amount Improvement\_surcharge  
## Mode :logical Min. : 0.000 Min. :0.00000 Mode :logical   
## FALSE:126 1st Qu.: 0.000 1st Qu.:0.00000 FALSE:130   
## TRUE :4866 Median : 0.000 Median :0.00000 TRUE :4862   
## NA's :8 Mean : 1.227 Mean :0.09133 NA's :8   
## 3rd Qu.: 2.000 3rd Qu.:0.00000   
## Max. :17.880 Max. :5.54000   
## NA's :10 NA's :3   
## Total\_amount Payment\_type Trip\_type   
## Min. : 0.00 f.PayType-Cash :2507 f.TripType-Street-Hail:4877   
## 1st Qu.: 7.88 f.PayType-Credit card:2464 f.TripType-Dispatch : 123   
## Median :11.30 Others : 29   
## Mean :14.54   
## 3rd Qu.:17.30   
## Max. :95.54   
## NA's :12   
## lpep\_pickup\_date lpep\_pickup\_time lpep\_dropoff\_date lpep\_dropoff\_time  
## 2016-01-30: 222 18:35:18: 3 2016-01-30: 222 00:00:00: 14   
## 2016-01-16: 221 18:40:25: 3 2016-01-16: 217 01:43:05: 3   
## 2016-01-22: 201 22:58:31: 3 2016-01-22: 200 08:27:56: 3   
## 2016-01-01: 199 00:33:05: 2 2016-01-01: 196 18:59:28: 3   
## 2016-01-31: 191 00:46:43: 2 2016-01-31: 191 19:25:35: 3   
## 2016-01-15: 187 00:48:28: 2 2016-01-09: 189 00:00:22: 2   
## (Other) :3779 (Other) :4985 (Other) :3785 (Other) :4972

#vars\_con  
vars\_con <- c( "Passenger\_count", "Trip\_distance", "Pickup\_longitude", "Pickup\_latitude", "Dropoff\_longitude", "Dropoff\_latitude","Fare\_amount", "Extra", "MTA\_tax", "Improvement\_surcharge", "Tip\_amount", "Tolls\_amount", "Total\_amount")  
  
summary(df[,vars\_con])

## Passenger\_count Trip\_distance Pickup\_longitude Pickup\_latitude  
## Min. :0.000 Min. : 0.000 Min. :-74.16 Min. :40.57   
## 1st Qu.:1.000 1st Qu.: 1.020 1st Qu.:-73.96 1st Qu.:40.70   
## Median :1.000 Median : 1.850 Median :-73.95 Median :40.75   
## Mean :1.375 Mean : 2.807 Mean :-73.83 Mean :40.75   
## 3rd Qu.:1.000 3rd Qu.: 3.583 3rd Qu.:-73.92 3rd Qu.:40.80   
## Max. :6.000 Max. :42.200 Max. : 0.00 Max. :40.89   
## NA's :7   
## Dropoff\_longitude Dropoff\_latitude Fare\_amount Extra   
## Min. :-74.18 Min. : 0.00 Min. : 0.00 Min. :0.000   
## 1st Qu.:-73.97 1st Qu.:40.70 1st Qu.: 6.50 1st Qu.:0.000   
## Median :-73.95 Median :40.75 Median : 9.00 Median :0.500   
## Mean :-73.88 Mean :40.71 Mean :11.97 Mean :0.349   
## 3rd Qu.:-73.91 3rd Qu.:40.79 3rd Qu.:14.50 3rd Qu.:0.500   
## Max. : 0.00 Max. :40.94 Max. :71.50 Max. :1.000   
## NA's :15 NA's :5   
## MTA\_tax Improvement\_surcharge Tip\_amount Tolls\_amount   
## Mode :logical Mode :logical Min. : 0.000 Min. :0.00000   
## FALSE:126 FALSE:130 1st Qu.: 0.000 1st Qu.:0.00000   
## TRUE :4866 TRUE :4862 Median : 0.000 Median :0.00000   
## NA's :8 NA's :8 Mean : 1.227 Mean :0.09133   
## 3rd Qu.: 2.000 3rd Qu.:0.00000   
## Max. :17.880 Max. :5.54000   
## NA's :10 NA's :3   
## Total\_amount   
## Min. : 0.00   
## 1st Qu.: 7.88   
## Median :11.30   
## Mean :14.54   
## 3rd Qu.:17.30   
## Max. :95.54   
## NA's :12

res.impca<-imputePCA(df[,vars\_con],ncp=10)  
summary(res.impca$completeObs)

## Passenger\_count Trip\_distance Pickup\_longitude Pickup\_latitude  
## Min. :0.000 Min. : 0.000 Min. :-74.16 Min. :40.57   
## 1st Qu.:1.000 1st Qu.: 1.020 1st Qu.:-73.96 1st Qu.:40.70   
## Median :1.000 Median : 1.850 Median :-73.95 Median :40.75   
## Mean :1.375 Mean : 2.807 Mean :-73.83 Mean :40.75   
## 3rd Qu.:1.000 3rd Qu.: 3.583 3rd Qu.:-73.92 3rd Qu.:40.80   
## Max. :6.000 Max. :42.200 Max. : 0.00 Max. :40.89   
## Dropoff\_longitude Dropoff\_latitude Fare\_amount Extra   
## Min. :-74.18 Min. : 0.00 Min. : 0.00 Min. :0.000   
## 1st Qu.:-73.97 1st Qu.:40.70 1st Qu.: 6.50 1st Qu.:0.000   
## Median :-73.95 Median :40.75 Median : 9.00 Median :0.500   
## Mean :-73.88 Mean :40.71 Mean : 12.03 Mean :0.349   
## 3rd Qu.:-73.91 3rd Qu.:40.79 3rd Qu.: 14.50 3rd Qu.:0.500   
## Max. : 0.00 Max. :40.94 Max. :113.47 Max. :1.000   
## MTA\_tax Improvement\_surcharge Tip\_amount Tolls\_amount   
## Min. :0.0000 Min. :0.0000 Min. : 0.00 Min. :0.00000   
## 1st Qu.:1.0000 1st Qu.:1.0000 1st Qu.: 0.00 1st Qu.:0.00000   
## Median :1.0000 Median :1.0000 Median : 0.00 Median :0.00000   
## Mean :0.9747 Mean :0.9739 Mean : 1.27 Mean :0.09258   
## 3rd Qu.:1.0000 3rd Qu.:1.0000 3rd Qu.: 2.00 3rd Qu.:0.00000   
## Max. :1.0000 Max. :1.0000 Max. :37.40 Max. :5.54000   
## Total\_amount   
## Min. : 0.00   
## 1st Qu.: 7.88   
## Median : 11.30   
## Mean : 14.55   
## 3rd Qu.: 17.30   
## Max. :114.72

df[ ,vars\_con]<-res.impca$completeObs  
  
df[ ,vars\_con]

## Passenger\_count Trip\_distance Pickup\_longitude Pickup\_latitude  
## 166 1 2.83 -73.91896 40.74300  
## 407 5 4.83 -73.89345 40.74881  
## 715 1 1.36 -73.91747 40.76511  
## 851 1 4.13 -73.91057 40.69966  
## 1072 1 3.36 -73.95162 40.71510  
## 1322 1 3.82 -73.99313 40.68283  
## 1667 1 3.95 -73.94777 40.66885  
## 1744 1 0.79 -73.96483 40.68323  
## 1969 1 1.40 -73.92473 40.83374  
## 2370 1 4.40 -73.96275 40.66072  
## 2756 1 3.57 -73.96071 40.64882  
## 3130 1 0.84 -73.91939 40.75844  
## 3902 1 1.49 -73.94297 40.81101  
## 4738 2 2.80 -73.95753 40.80028  
## 5162 1 1.40 -73.95129 40.71157  
## 5241 1 2.70 -73.97908 40.69246  
## 5242 1 0.60 -73.91805 40.77024  
## 5426 1 0.90 -73.92215 40.77105  
## 5472 1 1.50 -73.93573 40.82196  
## 5534 2 0.40 -73.94032 40.71735  
## 6010 1 3.90 -73.99441 40.69038  
## 6034 1 2.30 -73.96249 40.71972  
## 6454 1 0.53 -73.93613 40.84986  
## 7786 1 2.55 -73.96301 40.67393  
## 7806 1 0.00 -73.94022 40.82530  
## 7859 1 3.17 -73.90614 40.82350  
## 8025 1 0.93 -73.89076 40.74631  
## 8884 1 2.26 -73.90189 40.81934  
## 9072 1 3.55 -73.95837 40.68077  
## 9195 3 1.40 -73.95143 40.74337  
## 9412 1 0.91 -73.86734 40.74941  
## 9539 1 1.43 -73.94378 40.83535  
## 9823 1 5.00 -73.94860 40.80155  
## 9920 1 8.32 -73.80708 40.69951  
## 10311 1 1.08 -73.97782 40.68474  
## 10456 1 1.51 -73.90217 40.74578  
## 10628 1 1.24 -73.86243 40.72985  
## 10787 1 1.43 -73.92223 40.77711  
## 10981 1 5.68 -73.93666 40.69791  
## 11182 1 9.74 -73.94865 40.68029  
## 11472 2 2.98 -73.99424 40.69014  
## 11925 3 1.20 -73.98470 40.66322  
## 12145 1 14.50 -73.90283 40.67599  
## 12256 1 7.50 -73.91150 40.77550  
## 12479 1 2.60 -73.94883 40.65420  
## 13068 1 0.90 -73.91212 40.77497  
## 13718 1 1.93 -73.93993 40.70842  
## 14188 1 7.41 -73.95654 40.81237  
## 14552 5 5.24 -73.95284 40.67780  
## 14720 1 2.70 -73.96517 40.71270  
## 14825 3 1.12 -73.95245 40.71417  
## 15326 5 2.92 -73.92248 40.74343  
## 16574 1 2.43 -73.95229 40.82299  
## 16779 1 2.09 -73.95074 40.66996  
## 16791 6 2.79 -73.89828 40.74783  
## 18691 1 3.70 -73.94046 40.71843  
## 19187 0 1.20 -73.85848 40.75015  
## 19316 1 4.60 -73.95645 40.74769  
## 19813 1 1.24 -73.94915 40.68031  
## 19994 1 8.07 -73.88995 40.74930  
## 20307 1 0.03 -73.88078 40.82846  
## 21005 1 1.45 -73.93385 40.76828  
## 21047 1 4.01 -73.98351 40.68872  
## 21340 1 4.15 -73.95454 40.71866  
## 21377 2 3.59 -73.94554 40.71091  
## 21405 1 2.82 -73.96332 40.67542  
## 21686 1 3.05 -73.91536 40.84317  
## 21738 5 5.50 -73.94656 40.82669  
## 22033 5 2.58 -73.91971 40.68229  
## 22863 1 2.12 -73.95383 40.66378  
## 22954 1 1.32 -73.82914 40.75746  
## 23154 1 2.20 -73.88305 40.75588  
## 23252 3 1.73 -73.93137 40.70644  
## 23388 1 3.20 -73.90282 40.85164  
## 23460 1 1.26 -73.92356 40.86691  
## 23594 1 1.75 -73.82983 40.71368  
## 24736 1 0.50 -73.94830 40.80414  
## 24949 1 1.50 -73.94517 40.67935  
## 25269 1 1.20 -73.93913 40.79970  
## 25364 1 0.28 -73.88363 40.74768  
## 25448 1 0.96 -73.99162 40.67347  
## 25740 6 1.50 -73.88362 40.74775  
## 25745 1 2.09 -73.87153 40.68152  
## 25868 1 1.46 -73.96307 40.71168  
## 26027 1 2.50 -73.95996 40.68874  
## 26428 2 2.96 -73.97814 40.68425  
## 26767 1 0.81 -73.94437 40.79167  
## 26958 1 3.12 -73.96209 40.71600  
## 28004 1 2.49 -73.95638 40.69662  
## 28406 1 3.57 -73.98730 40.70233  
## 28767 1 13.77 -73.97842 40.68409  
## 29017 2 1.20 -73.95837 40.72136  
## 29026 1 1.70 -73.93279 40.75291  
## 29374 1 2.40 -73.95649 40.71690  
## 30054 5 0.90 -73.87029 40.74908  
## 30063 1 1.05 -73.95721 40.71831  
## 30279 1 6.09 -73.97872 40.68397  
## 30569 1 2.51 -73.84413 40.72174  
## 31340 1 0.66 -73.95583 40.80454  
## 31531 1 8.37 -73.95790 40.72193  
## 32012 5 0.99 -73.88880 40.74717  
## 32109 1 4.99 -73.99305 40.69734  
## 32177 1 4.13 -73.95518 40.80433  
## 32182 1 1.83 -73.95161 40.71389  
## 32702 1 5.70 -73.84415 40.72115  
## 33435 6 2.53 -73.90350 40.74544  
## 33453 1 4.89 -73.94605 40.78925  
## 33478 1 5.49 -73.94225 40.83771  
## 33541 1 2.97 -73.96366 40.70781  
## 33766 1 3.11 -73.83036 40.75957  
## 33971 1 3.71 -73.91427 40.77311  
## 34883 1 3.70 -73.94664 40.81996  
## 35028 5 3.42 -73.91882 40.74664  
## 35149 1 8.53 -73.90159 40.81990  
## 36213 1 4.54 -73.98687 40.70245  
## 37605 1 0.65 -73.89059 40.74644  
## 37903 2 1.48 -73.83143 40.70604  
## 37974 1 3.19 -73.95503 40.80000  
## 38002 1 2.27 -73.89880 40.66882  
## 38571 2 1.00 -73.95121 40.69961  
## 38590 1 4.60 -73.92525 40.76180  
## 38741 1 2.59 -73.93947 40.80483  
## 38836 1 1.11 -73.96625 40.80491  
## 39195 1 0.72 -73.93259 40.77276  
## 39997 1 1.12 -73.98760 40.66768  
## 40965 1 2.30 -73.94466 40.79149  
## 41083 1 1.06 -73.97855 40.68448  
## 41138 1 2.74 -73.93059 40.67054  
## 41374 1 5.49 -73.94473 40.80747  
## 42185 1 1.20 -73.94856 40.79780  
## 43143 1 0.88 -73.92173 40.76020  
## 43625 2 3.40 -73.95686 40.74464  
## 43820 1 2.92 -73.95267 40.81059  
## 43897 2 1.12 -73.86232 40.74989  
## 44249 1 2.72 -73.95390 40.80152  
## 44258 2 1.39 -73.97010 40.69314  
## 44348 1 4.64 -73.98743 40.69135  
## 44371 1 3.59 -73.97830 40.68675  
## 44656 2 0.27 -73.93130 40.69476  
## 44765 1 7.91 -73.94041 40.81492  
## 45115 1 3.74 -73.94964 40.67897  
## 45215 2 6.34 -73.94543 40.80799  
## 45338 1 5.60 -73.99648 40.69409  
## 45357 1 0.60 -73.89096 40.74696  
## 45910 1 2.26 -73.89431 40.84827  
## 46241 1 0.71 -73.98726 40.69152  
## 46475 1 0.88 -73.89102 40.74649  
## 47034 1 1.92 -73.88405 40.74820  
## 47329 1 0.80 -73.98006 40.66858  
## 48334 1 0.60 -73.89083 40.74653  
## 48830 1 0.88 -73.96670 40.80406  
## 48868 1 3.72 -73.82581 40.86847  
## 49475 1 6.31 -73.98683 40.70248  
## 49534 1 1.20 -73.87417 40.73507  
## 49659 1 6.00 -73.88703 40.74984  
## 49933 1 5.10 -73.90344 40.67854  
## 49975 1 2.50 -73.90703 40.68774  
## 50444 1 1.49 -73.99196 40.69089  
## 50686 1 5.75 -73.97544 40.68092  
## 50961 1 5.01 -73.86903 40.73377  
## 51540 1 2.59 -73.87420 40.73511  
## 51635 1 5.02 -73.92015 40.77512  
## 51835 1 6.81 -73.88943 40.82684  
## 51880 1 2.67 -73.91238 40.75582  
## 52213 1 3.20 -73.96233 40.70986  
## 52374 1 6.00 -73.96137 40.66188  
## 52659 1 2.75 -73.94670 40.81641  
## 53018 1 4.93 -73.92138 40.67891  
## 53066 1 3.82 -73.94534 40.72498  
## 53272 1 1.81 -73.88623 40.74452  
## 54114 1 2.05 -73.97769 40.68462  
## 54321 6 9.63 -73.91455 40.74359  
## 55023 1 2.26 -73.94038 40.80570  
## 55149 1 1.63 -73.88377 40.74776  
## 56078 1 0.86 -73.95385 40.80646  
## 56330 1 2.55 -73.98110 40.67556  
## 56465 2 0.07 -73.91679 40.67863  
## 57069 1 4.90 -73.92627 40.63171  
## 57562 2 1.93 -73.89157 40.82124  
## 57677 1 0.60 -73.90995 40.68483  
## 57714 1 1.11 -73.95236 40.72647  
## 57850 3 0.84 -73.96510 40.71435  
## 58309 1 8.10 -73.87090 40.73402  
## 58373 1 6.87 -73.93180 40.79553  
## 58923 5 2.45 -73.97429 40.67982  
## 59700 2 3.50 -73.95054 40.78659  
## 59891 1 1.48 -73.91135 40.74445  
## 61595 1 2.74 -73.84418 40.72115  
## 61739 1 1.20 -73.95300 40.67932  
## 61791 2 0.70 -73.93662 40.81229  
## 61858 1 2.70 -73.96666 40.71093  
## 62037 2 1.50 -73.91388 40.77352  
## 62645 1 1.99 -73.89050 40.74726  
## 62814 1 3.72 -73.84441 40.72285  
## 63243 1 5.24 -73.98601 40.68989  
## 63453 3 13.10 -73.97959 40.68233  
## 64042 1 5.40 -73.91119 40.76859  
## 64208 2 2.00 -73.98920 40.69206  
## 64336 1 2.10 -73.92565 40.82789  
## 64656 1 8.50 -73.99069 40.66403  
## 64850 1 1.25 -73.93517 40.79637  
## 64987 1 2.86 -73.92415 40.75597  
## 65349 2 3.22 -74.00227 40.68184  
## 65766 1 3.48 -73.95697 40.72090  
## 66138 1 0.60 -73.95150 40.72339  
## 67658 1 6.99 -73.95605 40.71941  
## 68040 1 1.80 -73.97780 40.68470  
## 68081 2 2.10 -73.95914 40.65230  
## 68234 5 0.54 -73.95157 40.71393  
## 68480 1 0.79 -73.95007 40.72269  
## 68962 1 1.41 -73.89154 40.74683  
## 69193 1 1.10 -73.91589 40.86910  
## 69299 1 2.00 -73.95692 40.71287  
## 69544 1 2.43 -73.80810 40.69883  
## 69785 1 1.68 -73.89726 40.76717  
## 69966 1 2.79 -73.94695 40.83132  
## 70003 1 10.88 -73.94006 40.67379  
## 70518 1 0.85 -73.95779 40.72159  
## 70813 3 2.24 -73.88245 40.74770  
## 71289 1 7.70 -73.88105 40.74812  
## 71290 4 6.90 -73.95773 40.72236  
## 71576 1 0.66 -73.95151 40.79938  
## 71645 1 1.90 -73.91937 40.75909  
## 71822 3 4.50 -73.87736 40.73736  
## 72461 3 4.87 -73.91785 40.76997  
## 73346 1 1.93 -73.94781 40.81466  
## 73812 1 1.17 -73.97262 40.69319  
## 73935 1 0.63 -73.98967 40.70258  
## 74193 1 0.34 -73.95663 40.80289  
## 74753 1 3.60 -73.98872 40.69366  
## 75016 1 3.58 -73.88083 40.76753  
## 75161 1 0.59 -73.99236 40.68983  
## 75215 1 4.39 -73.99278 40.69795  
## 75363 2 2.50 -73.94389 40.81521  
## 75433 1 4.91 -73.89062 40.74700  
## 75476 1 3.35 -73.82962 40.70942  
## 75577 1 2.94 -73.93924 40.80545  
## 75715 1 2.28 -73.95656 40.80270  
## 75740 1 10.94 -73.99716 40.57523  
## 75901 1 0.75 -73.91119 40.76849  
## 76051 1 15.26 -73.91613 40.76439  
## 76066 1 2.84 -73.90349 40.74547  
## 76130 1 0.90 -73.94594 40.82706  
## 76343 1 1.20 -73.91889 40.75886  
## 76346 1 7.40 -73.88496 40.74765  
## 76733 5 0.29 -73.93571 40.79616  
## 76950 1 0.99 -73.86381 40.73280  
## 77239 1 2.27 -73.97746 40.68980  
## 77416 1 1.09 -73.95754 40.68471  
## 77536 1 1.42 -73.91713 40.78014  
## 77618 3 2.00 -73.91647 40.86950  
## 78133 2 0.40 -73.93448 40.80148  
## 78231 1 1.95 -73.97717 40.67070  
## 78406 1 1.35 -73.95810 40.60891  
## 78563 2 2.05 -73.92108 40.75645  
## 78605 1 2.67 -73.95782 40.67100  
## 78791 1 0.76 -73.84429 40.72134  
## 79596 2 1.60 -73.95525 40.82020  
## 80325 1 3.35 -73.96230 40.80493  
## 80586 1 2.18 -73.92135 40.76673  
## 80796 1 1.88 -73.94962 40.82782  
## 81073 1 1.92 -73.91485 40.76400  
## 81413 1 8.13 -73.84239 40.66980  
## 81477 6 8.17 -73.97984 40.67737  
## 81606 1 0.60 -73.86970 40.74902  
## 81877 1 4.30 -73.95683 40.74469  
## 82072 1 0.76 -73.93883 40.81693  
## 82399 1 1.25 -73.95048 40.79215  
## 82456 1 2.29 -73.98374 40.66801  
## 82521 1 0.64 -73.94467 40.82385  
## 82582 1 1.22 -73.96682 40.68817  
## 82719 1 0.69 -73.94733 40.79655  
## 83091 1 11.14 -73.79119 40.70681  
## 83190 3 4.15 -73.93533 40.67098  
## 83419 1 4.54 -73.99269 40.69745  
## 83947 1 7.70 -73.94956 40.80219  
## 83990 2 1.50 -73.93970 40.70679  
## 83996 1 5.00 -73.93739 40.80265  
## 84038 1 2.90 -73.92001 40.81670  
## 84183 1 0.47 -73.98016 40.68881  
## 84495 1 1.61 -73.95303 40.72809  
## 84634 2 1.75 -73.99242 40.69000  
## 85792 1 4.26 -73.93053 40.74473  
## 86106 1 6.01 -74.01074 40.67199  
## 86504 1 2.60 -73.98730 40.69221  
## 86555 1 3.40 -73.86383 40.73281  
## 86784 1 0.67 -73.92036 40.68859  
## 87011 1 0.70 -73.96277 40.71735  
## 87022 1 2.55 -73.94129 40.67121  
## 87303 1 2.30 -73.83416 40.75765  
## 87374 1 4.81 -73.96673 40.80433  
## 87451 1 1.06 -73.97561 40.68683  
## 88024 5 2.08 -73.95149 40.81038  
## 88593 1 6.36 -73.87209 40.67542  
## 88721 1 3.27 -73.95164 40.64267  
## 88754 1 9.61 -73.94089 40.79268  
## 89166 1 3.00 -73.97372 40.68601  
## 89287 1 1.00 -73.87115 40.73413  
## 89320 4 7.10 -73.83434 40.75779  
## 89619 1 2.57 -73.94103 40.81402  
## 89632 1 1.72 -73.94776 40.79027  
## 89656 4 2.14 -73.95227 40.79271  
## 89676 1 1.25 -73.95955 40.80127  
## 89894 1 2.91 -73.95159 40.71375  
## 90284 2 0.95 -73.97203 40.67237  
## 90295 1 1.52 -73.98733 40.69195  
## 90346 6 2.75 -73.99254 40.68949  
## 91248 1 1.77 -73.83269 40.71582  
## 91520 1 1.52 -73.95614 40.69470  
## 91734 1 3.00 -73.99427 40.70310  
## 91834 2 2.80 -73.99245 40.68950  
## 92294 1 2.60 -73.97165 40.69790  
## 92376 1 0.60 -73.95139 40.72481  
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## 1442996 1.0000000 0.000000 0.000000 7.300000  
## 1443089 1.0000000 2.460000 0.000000 14.760000  
## 1443925 1.0000000 0.000000 0.000000 11.800000  
## 1444285 1.0000000 0.000000 0.000000 21.300000  
## 1445227 1.0000000 0.000000 0.000000 6.800000

## Multivariant Outliers

# library(chemometrics)  
# summary(df[,vars\_con])  
# aq.plot(df[,vars\_con],delta=qchisq(0.995,length(vars\_con)),quan=0.75)  
# mout<-Moutlier(df[,vars\_con],quantile = 0.995, plot = TRUE)  
# par(mfrow=c(1,1))  
# plot(mout$md,mout$rd, type="n")  
# text(mout$md,mout$rd,labels=rownames(SwissLabor[,2:4]))  
#   
# Boxplot(mout$rd)  
# summary(mout$rd)  
# l<-which(mout$rd>30)  
# df[l,c(vars\_res,vars\_con)]

## Define new variables

Create new variables derived from the original ones, as effective speed, travel time, hour of request, period of request, effective trip distance (in km)

# New variables  
  
# Trip length in km  
df$tlenkm<-df$Trip\_distance\*1.609344 # Miles to km  
# Travel time in min  
df$traveltime<-(as.numeric(as.POSIXct(df$lpep\_dropoff\_datetime)) - as.numeric(as.POSIXct(df$lpep\_pickup\_datetime)))/60  
  
  
# Effective speed (km/h)  
df$espeed<-(df$tlenkm/(df$traveltime))\*60  
  
# Missing data  
l<-which(is.na(df$espeed));length(l)

## [1] 2

imis[l]<-imis[l]+1  
jmis["espeed"]<-length(l)  
  
# Error detection  
summary(df$espeed)

## Min. 1st Qu. Median Mean 3rd Qu. Max. NA's   
## 0.00 14.73 18.90 22.21 24.11 4152.11 2

l<-which((df$espeed<=0)|(df$espeed=="Inf"))  
ierrs[l]<-ierrs[l]+1  
jerrs["espeed"]<-length(l)  
df[l,"espeed"]<-NA   
  
# Check outliers  
summary(df$espeed)

## Min. 1st Qu. Median Mean 3rd Qu. Max. NA's   
## 0.033 14.919 18.977 22.494 24.191 4152.108 64

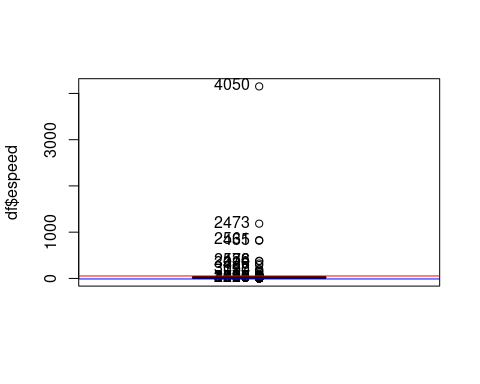
calcQ(df$espeed)

## $souti  
## 1st Qu.   
## -12.8964   
##   
## $mouti  
## 1st Qu.   
## 1.01128   
##   
## $min  
## Min.   
## 0.03325936   
##   
## $q1  
## 1st Qu.   
## 14.91896   
##   
## $q2  
## Median   
## 18.97656   
##   
## $q3  
## 3rd Qu.   
## 24.19075   
##   
## $max  
## Max.   
## 4152.108   
##   
## $mouts  
## 3rd Qu.   
## 38.09844   
##   
## $souts  
## 3rd Qu.   
## 52.00612

# Outlier detection  
Boxplot(df$espeed)

## [1] 3245 2621 3496 2880 4610 4093 1487 4778 3201 4437 4050 2473 2561 435 2476  
## [16] 533 3339 426 3057 190

var\_out<-calcQ(df$espeed)  
abline(h=var\_out$souts,col="red")  
abline(h=var\_out$souti,col="blue")



llout<-which((df$espeed<=3)|(df$espeed>240))  
iouts[llout]<-iouts[llout]+1  
jouts["espeed"]<-length(llout)  
df[llout,"espeed"]<-NA   
  
  
df$lpep\_pickup\_hour<-as.numeric(substr(strptime(df$lpep\_pickup\_datetime, "%Y-%m-%d %H:%M:%S"),12,13))  
df$lpep\_pickup\_period<-1  
df$lpep\_pickup\_period[df$lpep\_pickup\_hour>7]<-2  
df$lpep\_pickup\_period[df$lpep\_pickup\_hour>10]<-3  
df$lpep\_pickup\_period[df$lpep\_pickup\_hour>16]<-4  
df$lpep\_pickup\_period[df$lpep\_pickup\_hour>19]<-1  
df$lpep\_pickup\_period<-factor(df$lpep\_pickup\_period,labels=paste("Period",c("night","morning","valley","afternoon")))  
df$lpep\_dropoff\_hour<-as.numeric(substr(strptime(df$lpep\_dropoff\_datetime, "%Y-%m-%d %H:%M:%S"),12,13))  
df$lpep\_dropoff\_period<-1  
df$lpep\_dropoff\_period[df$lpep\_dropoff\_hour>7]<-2  
df$lpep\_dropoff\_period[df$lpep\_dropoff\_hour>10]<-3  
df$lpep\_dropoff\_period[df$lpep\_dropoff\_hour>16]<-4  
df$lpep\_dropoff\_period[df$lpep\_dropoff\_hour>19]<-1  
df$lpep\_dropoff\_period<-factor(df$lpep\_dropoff\_period,labels=paste("Period",c("night","morning","valley","afternoon")))  
  
  
library(geosphere)   
df$distHaversine <-distHaversine(df[,c("Pickup\_longitude", "Pickup\_latitude")],  
 df[,c("Dropoff\_longitude", "Dropoff\_latitude")])/1000

## Discretization

#### Discretization of all variables  
  
## Variable espeed  
  
summary(df[,vars\_con])

## Passenger\_count Trip\_distance Pickup\_longitude Pickup\_latitude  
## Min. :0.000 Min. : 0.000 Min. :-74.16 Min. :40.57   
## 1st Qu.:1.000 1st Qu.: 1.020 1st Qu.:-73.96 1st Qu.:40.70   
## Median :1.000 Median : 1.850 Median :-73.95 Median :40.75   
## Mean :1.375 Mean : 2.807 Mean :-73.83 Mean :40.75   
## 3rd Qu.:1.000 3rd Qu.: 3.583 3rd Qu.:-73.92 3rd Qu.:40.80   
## Max. :6.000 Max. :42.200 Max. : 0.00 Max. :40.89   
## Dropoff\_longitude Dropoff\_latitude Fare\_amount Extra   
## Min. :-74.18 Min. : 0.00 Min. : 0.00 Min. :0.000   
## 1st Qu.:-73.97 1st Qu.:40.70 1st Qu.: 6.50 1st Qu.:0.000   
## Median :-73.95 Median :40.75 Median : 9.00 Median :0.500   
## Mean :-73.88 Mean :40.71 Mean : 12.03 Mean :0.349   
## 3rd Qu.:-73.91 3rd Qu.:40.79 3rd Qu.: 14.50 3rd Qu.:0.500   
## Max. : 0.00 Max. :40.94 Max. :113.47 Max. :1.000   
## MTA\_tax Improvement\_surcharge Tip\_amount Tolls\_amount   
## Min. :0.0000 Min. :0.0000 Min. : 0.00 Min. :0.00000   
## 1st Qu.:1.0000 1st Qu.:1.0000 1st Qu.: 0.00 1st Qu.:0.00000   
## Median :1.0000 Median :1.0000 Median : 0.00 Median :0.00000   
## Mean :0.9747 Mean :0.9739 Mean : 1.27 Mean :0.09258   
## 3rd Qu.:1.0000 3rd Qu.:1.0000 3rd Qu.: 2.00 3rd Qu.:0.00000   
## Max. :1.0000 Max. :1.0000 Max. :37.40 Max. :5.54000   
## Total\_amount   
## Min. : 0.00   
## 1st Qu.: 7.88   
## Median : 11.30   
## Mean : 14.55   
## 3rd Qu.: 17.30   
## Max. :114.72

varaux<-factor(cut(df$espeed,breaks=quantile(df$espeed,seq(0,1,0.1),na.rm=TRUE),include.lowest = T ))  
summary(varaux)

## [3.56,12.2] (12.2,14.2] (14.2,16] (16,17.5] (17.5,19.1] (19.1,20.7]   
## 488 488 488 487 488 487   
## (20.7,22.9] (22.9,25.8] (25.8,31.9] (31.9,201] NA's   
## 488 487 488 488 123

tapply(df$espeed,varaux,median) #tapply(X, INDEX, FUN = NULL) map function

## [3.56,12.2] (12.2,14.2] (14.2,16] (16,17.5] (17.5,19.1] (19.1,20.7]   
## 10.40623 13.29515 15.07147 16.72935 18.28389 19.82439   
## (20.7,22.9] (22.9,25.8] (25.8,31.9] (31.9,201]   
## 21.73108 24.23789 28.26116 39.17376

df$f.espeed<-factor(cut(df$espeed,breaks=quantile(df$espeed,seq(0,1,0.1),na.rm=TRUE),include.lowest = T ))  
levels(df$f.espeed)<-paste("f.espeed-",levels(df$f.espeed),sep="")  
  
## Variable Trip\_distance  
  
varaux<-factor(cut(df$Trip\_distance,breaks=quantile(df$Trip\_distance,seq(0,1,0.25),na.rm=TRUE),include.lowest = T ))  
summary(varaux)

## [0,1.02] (1.02,1.85] (1.85,3.58] (3.58,42.2]   
## 1257 1250 1243 1250

tapply(df$Trip\_distance,varaux,median) #tapply(X, INDEX, FUN = NULL) map function

## [0,1.02] (1.02,1.85] (1.85,3.58] (3.58,42.2]   
## 0.720 1.400 2.530 5.525

df$f.Trip\_distance<-factor(cut(df$Trip\_distance,breaks=quantile(df$Trip\_distance,seq(0,1,0.25),na.rm=TRUE),include.lowest = T ))  
levels(df$f.Trip\_distance)<-paste("f.Trip\_distance-",levels(df$f.Trip\_distance),sep="")  
  
## Variable tlenkm  
summary(df$tlenkm)

## Min. 1st Qu. Median Mean 3rd Qu. Max.   
## 0.000 1.642 2.977 4.517 5.765 67.914

varaux<-factor(cut(df$tlenkm,breaks=quantile(df$tlenkm,seq(0,1,0.25),na.rm=TRUE),include.lowest = T ))  
summary(varaux)

## [0,1.64] (1.64,2.98] (2.98,5.77] (5.77,67.9]   
## 1257 1250 1243 1250

df$f.tlenkm<-factor(ifelse(df$tlenkm<6, "f.tlenkm-short", "f.tlenkm-long"))  
summary(df$f.tlenkm)

## f.tlenkm-long f.tlenkm-short   
## 1166 3834

## Variable traveltime  
summary(df$traveltime)

## Min. 1st Qu. Median Mean 3rd Qu. Max.   
## 0.000 5.963 10.033 23.546 16.554 1438.450

varaux<-factor(cut(df$traveltime,breaks=c(0,5,40,max(df$traveltime)),include.lowest = T ))  
summary(varaux)

## [0,5] (5,40] (40,1.44e+03]   
## 932 3919 149

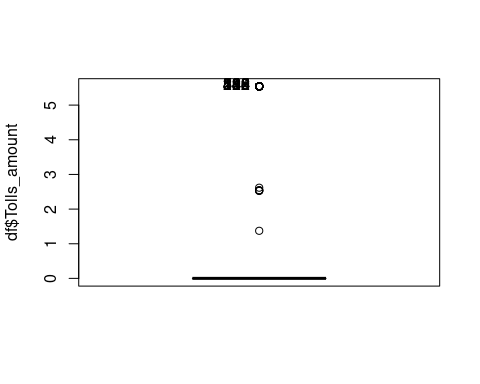
df$f.traveltime <- varaux  
levels(df$f.traveltime)<-paste("f.traveltime-",levels(df$f.traveltime),sep="")  
  
## Variable distHaversine  
  
varaux<-factor(cut(df$distHaversine,breaks=quantile(df$distHaversine,seq(0,1,0.25),na.rm=TRUE),include.lowest = T ))  
summary(varaux)

## [0,1.24] (1.24,2.24] (2.24,4.15] (4.15,8.67e+03]   
## 1250 1250 1250 1250

tapply(df$distHaversine,varaux,median) #tapply(X, INDEX, FUN = NULL) map function

## [0,1.24] (1.24,2.24] (2.24,4.15] (4.15,8.67e+03]   
## 0.8461959 1.6795509 3.0321294 6.2790956

df$f.distHaversine<-factor(cut(df$distHaversine,breaks=quantile(df$distHaversine,seq(0,1,0.25),na.rm=TRUE),include.lowest = T ))  
levels(df$f.distHaversine)<-paste("f.distHaversine-",levels(df$f.distHaversine),sep="")  
  
# Variable Tolls\_amount  
Boxplot(df$Tolls\_amount)



## [1] 132 140 296 322 346 414 448 569 585 588

varaux<-factor(cut(df$Tolls\_amount,breaks=c(0,0.01,max(df$Tolls\_amount)),include.lowest = T ))  
df$AnyToll <- df$Tolls\_amount < 0.01  
df$AnyToll<-factor(df$AnyToll,labels=paste("AnyToll",c("No","Yes")))  
summary(df$AnyToll)

## AnyToll No AnyToll Yes   
## 87 4913

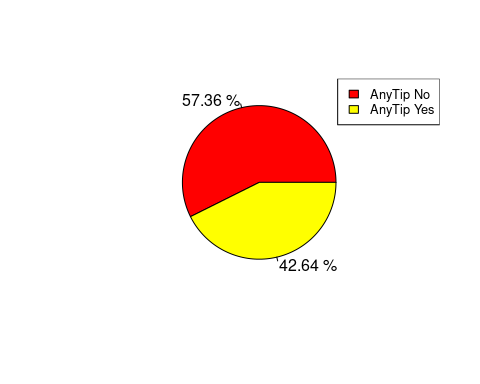
## Variable Tip\_amount  
  
df$AnyTip<-ifelse(df$Tip\_amount<0.01,0,1)  
df$AnyTip<-factor(df$AnyTip,labels=paste("AnyTip",c("No","Yes")))  
summary(df$AnyTip)

## AnyTip No AnyTip Yes   
## 2868 2132

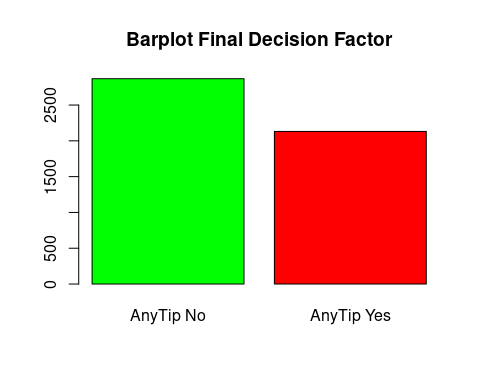
# Pie  
piepercent<-round(100\*(table(df$AnyTip)/nrow(df)),dig=2); piepercent

##   
## AnyTip No AnyTip Yes   
## 57.36 42.64

pie(table(df$AnyTip),col=heat.colors(2),labels=paste(piepercent,"%"))  
legend("topright", levels(df$AnyTip), cex = 0.8, fill = heat.colors(2))



# Bar Chart  
barplot(table(df$AnyTip),main="Barplot Final Decision Factor",col=c("green","red"))

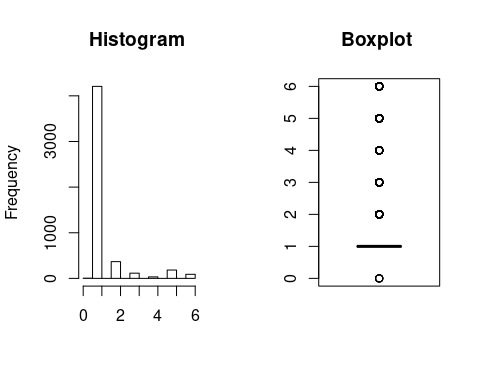


## Data Quality report (missings/errors/outliers) and remove observations with missings in targets

## Univariant Exploratory Analysis (EDA)

EDA\_Univariant(df[,vars\_con[1]])

## x   
## Min. :0.000   
## 1st Qu.:1.000   
## Median :1.000   
## Mean :1.375   
## 3rd Qu.:1.000   
## Max. :6.000   
## [1] 1.058914



## Profiling

##############################################################################  
# Profiling   
# Package FactoMineR will be used  
##############################################################################  
#library(FactoMineR)  
#summary(df$Total\_amount)  
# The "variable to describe cannot have NA ###################################  
# res.condes<-condes(df,which(names(df)=="Total\_amount")) # Takes a lot  
#res.condes<-condes(df[,c(vars\_res,vars\_con,vars\_dis)],1)  
  
#res.condes$quanti # Global association to numeric variables  
#res.condes$quali # Global association to factors  
#res.condes$category # Partial association to significative levels in factors