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

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

## null device   
## 1

## [1] 1445285 21

## [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"

## 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

## Select a sample of 5000 records

set.seed(02041997)  
sam<-as.vector(sort(sample(1:nrow(df2),5000)))  
df<-df2[sam,]  
summary(df)

## 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

## 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   
##

## [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"

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

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

## [1] 2

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

## [1] 4

## N Y   
## 4983 17

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

# 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   
## 11472 11925 12145 12256 12479 13068 13718 14188 14552 14720   
## 0 0 0 0 0 0 0 0 0 0   
## 14825 15326 16574 16779 16791 18691 19187 19316 19813 19994   
## 0 0 0 0 0 0 0 0 0 0   
## 20307 21005 21047 21340 21377 21405 21686 21738 22033 22863   
## 0 0 0 0 0 0 0 0 0 0   
## 22954 23154 23252 23388 23460 23594 24736 24949 25269 25364   
## 0 0 0 0 0 0 0 0 0 0   
## 25448 25740 25745 25868 26027 26428 26767 26958 28004 28406   
## 0 0 0 0 0 0 0 0 0 0   
## 28767 29017 29026 29374 30054 30063 30279 30569 31340 31531   
## 0 0 0 0 0 0 0 0 0 0   
## 32012 32109 32177 32182 32702 33435 33453 33478 33541 33766   
## 0 0 0 0 0 0 0 0 0 0   
## 33971 34883 35028 35149 36213 37605 37903 37974 38002 38571   
## 0 0 0 0 0 0 0 0 0 0   
## 38590 38741 38836 39195 39997 40965 41083 41138 41374 42185   
## 0 0 0 0 0 0 0 0 0 0   
## 43143 43625 43820 43897 44249 44258 44348 44371 44656 44765   
## 0 0 0 0 0 0 0 0 0 0   
## 45115 45215 45338 45357 45910 46241 46475 47034 47329 48334   
## 0 0 0 0 0 0 0 0 0 0   
## 48830 48868 49475 49534 49659 49933 49975 50444 50686 50961   
## 0 0 0 0 0 0 0 0 0 0   
## 51540 51635 51835 51880 52213 52374 52659 53018 53066 53272   
## 0 0 0 0 0 0 0 0 0 0   
## 54114 54321 55023 55149 56078 56330 56465 57069 57562 57677   
## 0 0 0 0 0 0 0 0 0 0   
## 57714 57850 58309 58373 58923 59700 59891 61595 61739 61791   
## 0 0 0 0 0 0 0 0 0 0   
## 61858 62037 62645 62814 63243 63453 64042 64208 64336 64656   
## 0 0 0 0 0 0 0 0 0 0   
## 64850 64987 65349 65766 66138 67658 68040 68081 68234 68480   
## 0 0 0 0 0 0 0 0 0 0   
## 68962 69193 69299 69544 69785 69966 70003 70518 70813 71289   
## 0 0 0 0 0 0 0 0 0 0   
## 71290 71576 71645 71822 72461 73346 73812 73935 74193 74753   
## 0 0 0 0 0 0 0 0 0 0   
## 75016 75161 75215 75363 75433 75476 75577 75715 75740 75901   
## 0 0 0 0 0 0 0 0 0 0   
## 76051 76066 76130 76343 76346 76733 76950 77239 77416 77536   
## 0 0 0 0 0 0 0 0 0 0   
## 77618 78133 78231 78406 78563 78605 78791 79596 80325 80586   
## 0 0 0 0 0 0 0 0 0 0   
## 80796 81073 81413 81477 81606 81877 82072 82399 82456 82521   
## 0 0 0 0 0 0 0 0 0 0   
## 82582 82719 83091 83190 83419 83947 83990 83996 84038 84183   
## 0 0 0 0 0 0 0 0 0 0   
## 84495 84634 85792 86106 86504 86555 86784 87011 87022 87303   
## 0 0 0 0 0 0 0 0 0 0   
## 87374 87451 88024 88593 88721 88754 89166 89287 89320 89619   
## 0 0 0 0 0 0 0 0 0 0   
## 89632 89656 89676 89894 90284 90295 90346 91248 91520 91734   
## 0 0 0 0 0 0 0 0 0 0   
## 91834 92294 92376 92503 93033 93160 93172 94216 94436 94596   
## 0 0 0 0 0 0 0 0 0 0   
## 94760 94802 94831 94918 95447 95461 95653 95717 95761 96123   
## 0 0 0 0 0 0 0 0 0 0   
## 96164 96198 96235 96455 97030 97166 97418 97440 97752 97892   
## 0 0 0 0 0 0 0 0 0 0   
## 98428 98719 99211 99255 99899 100123 100374 100584 100727 100734   
## 0 0 0 0 0 0 0 0 0 0   
## 100867 101092 101459 101538 102438 102516 102854 102958 103434 103462   
## 0 0 0 0 0 0 0 0 0 0   
## 103956 104404 105158 105168 105262 105294 105882 105883 105885 106084   
## 0 0 0 0 0 0 0 0 0 0   
## 106103 106367 107587 107601 108809 109484 109614 109652 109825 110015   
## 0 0 0 0 0 0 0 0 0 0   
## 110386 110478 110743 110827 111067 111545 111617 111944 112660 112870   
## 0 0 0 0 0 0 0 0 0 0   
## 113329 113461 113545 113575 113990 114697 114748 115032 115045 115048   
## 0 0 0 0 0 0 0 0 0 0   
## 115393 116583 116695 116908 118108 118182 118263 118389 118755 119105   
## 0 0 0 0 0 0 0 0 0 0   
## 119976 120179 120404 120502 120946 121213 121301 121397 121579 121658   
## 0 0 0 0 0 0 0 0 0 0   
## 121703 122639 122758 123012 123070 123158 123218 123340 123876 123929   
## 0 0 0 0 0 0 0 0 0 0   
## 123983 124017 124056 124215 124218 124715 124736 124790 125181 125628   
## 0 0 0 0 0 0 0 0 0 0   
## 125853 125883 126171 126241 126476 126629 126740 126894 126995 127112   
## 0 0 0 0 0 0 0 0 0 0   
## 127482 127797 128259 129110 129728 130058 130441 131243 131356 131695   
## 0 0 0 0 0 0 0 0 0 0   
## 131820 132459 132860 133447 133971 134151 134657 134990 135578 135651   
## 0 0 0 0 0 0 0 0 0 0   
## 135661 136170 136331 136344 136412 136647 137027 137132 137387 137651   
## 0 0 0 0 0 0 0 0 0 0   
## 137697 137886 138445 139105 140161 140200 140318 140687 142044 142232   
## 0 0 0 0 0 0 0 0 0 0   
## 142383 142475 142652 142915 143512 143811 143854 144263 144642 144683   
## 0 0 0 0 0 0 0 0 0 0   
## 145091 145205 145264 145918 146152 146359 146944 147274 147830 147978   
## 0 0 0 0 0 0 0 0 0 0   
## 148014 148109 148440 148518 148638 148767 148984 149108 149446 149636   
## 0 0 0 0 0 0 0 0 0 0   
## 150385 150973 151590 151923 152423 152546 152558 152917 152964 153363   
## 0 0 0 0 0 0 0 0 0 0   
## 153505 153859 153959 154855 155267 155373 155510 155579 155597 155984   
## 0 0 0 0 0 0 0 0 0 0   
## 156085 156348 156621 156658 156764 156836 156967 157148 158021 158174   
## 0 0 0 0 0 0 0 0 0 0   
## 158249 158575 158756 158946 159171 160511 160531 160843 160928 161339   
## 0 0 0 0 0 0 0 0 0 0   
## 161663 162383 162732 162745 162779 163046 163155 163156 163330 163543   
## 0 0 0 0 0 0 0 0 0 0   
## 163544 163842 164072 164231 164322 164394 164483 164620 164656 164741   
## 0 0 0 0 0 0 0 0 0 0   
## 164838 165005 165031 165035 165555 166570 167236 167445 167877 168461   
## 0 0 0 0 0 0 0 0 0 0   
## 169308 169695 169721 169764 169817 169876 169965 170832 170954 171140   
## 0 0 0 0 0 0 0 0 0 0   
## 171214 171295 171543 171652 171745 171752 172039 172055 172229 172791   
## 0 0 0 0 0 0 0 0 0 0   
## 173098 173353 173693 174789 174865 175026 176434 176683 176853 176889   
## 0 0 0 0 0 0 0 0 0 0   
## 177213 177245 177775 178122 178215 178334 178870 179025 179161 179761   
## 0 0 0 0 0 0 0 0 0 0   
## 180000 180451 180936 181819 182902 183771 184247 184632 184645 185533   
## 0 0 0 0 0 0 0 0 0 0   
## 186162 186191 186440 186473 186996 187229 187465 187648 188193 188280   
## 0 0 0 0 0 0 0 0 0 0   
## 188370 188544 188547 188628 188643 188845 188870 190983 191044 191078   
## 0 0 0 0 0 0 0 0 0 0   
## 191245 191275 191882 191928 192024 192032 192052 192053 192525 192746   
## 0 0 0 0 0 0 0 0 0 0   
## 193729 193919 194373 194439 194459 194947 195324 196409 196514 197039   
## 0 0 0 0 0 0 0 0 0 0   
## 197530 197842 198028 198424 198575 198707 199587 199818 200016 200145   
## 0 0 0 0 0 0 0 0 0 0   
## 200516 200872 200939 201138 201595 202067 202455 202587 202980 203491   
## 0 0 0 0 0 0 0 0 0 0   
## 203924 204162 205267 205313 205581 205636 206465 206775 206925 207058   
## 0 0 0 0 0 0 0 0 0 0   
## 207645 207951 208241 208283 208623 209059 210831 211124 211193 211448   
## 0 0 0 0 0 0 0 0 0 0   
## 211614 211664 212509 212520 212758 212780 213446 213993 214167 215955   
## 0 0 0 0 0 0 0 0 0 0   
## 216032 216075 216135 216137 216287 216352 216360 216440 216576 216602   
## 0 0 0 0 0 0 0 0 0 0   
## 217293 217833 217849 218285 218629 218945 218956 219226 219331 219793   
## 0 0 0 0 0 0 0 0 0 0   
## 220229 220281 220410 220494 220717 220807 221408 221637 222532 222611   
## 0 0 0 0 0 0 0 0 0 0   
## 223824 223847 223994 224217 224222 224366 225410 227312 227687 227762   
## 0 0 0 0 0 0 0 0 0 0   
## 228111 228118 228137 228618 228757 228769 229185 229869 229993 230231   
## 0 0 0 0 0 0 0 0 0 0   
## 230248 230647 230950 231206 231529 231565 232080 232135 233051 233264   
## 0 0 0 0 0 0 0 0 0 0   
## 233302 233450 233720 233886 233888 234425 234516 234690 234802 234808   
## 0 0 0 0 0 0 0 0 0 0   
## 235655 235893 236739 236870 236885 236886 236914 237197 237371 237528   
## 0 0 0 0 0 0 0 0 0 0   
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## 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

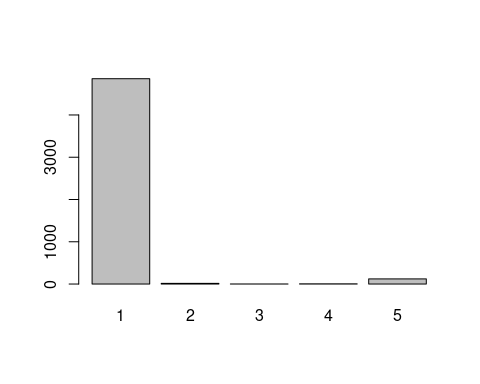
#######################################################  
iouts<-rep(0,nrow(df)) # rows outliers - trips  
jouts<-rep(0,2\*ncol(df)) # columns outliers - variables  
######################################################  
  
#######################################################  
ierrs<-rep(0,nrow(df))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

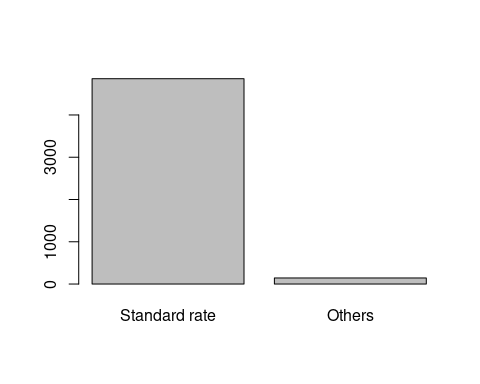
df$RateCodeID<-factor(df$RateCodeID)  
barplot(table(df$RateCodeID))



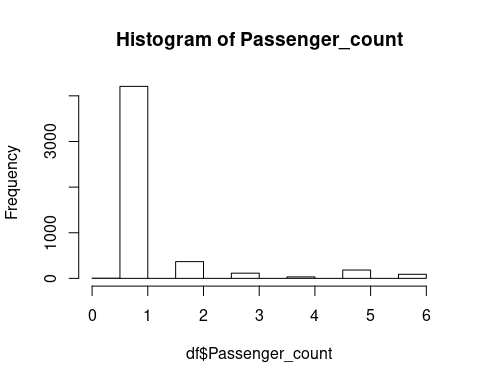
# It is a categorical(=factor) variable NO PROBLEM but not any interest  
df$RateCodeID <- df$RateCodeID != 1  
df$RateCodeID <- factor(df$RateCodeID, labels=c("Standard rate","Others"))  
summary(df$RateCodeID)

## Standard rate Others   
## 4857 143

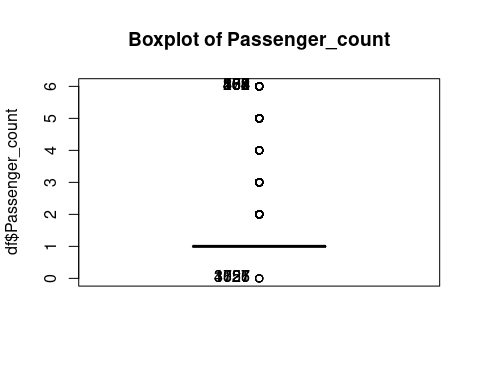
barplot(table(df$RateCodeID))



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



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

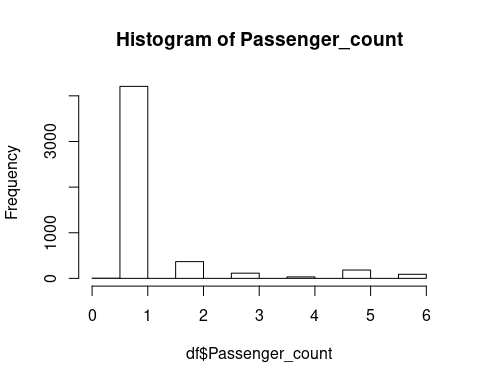


## [1] 57 1026 3155 3821 4727 55 82 106 172 264 307 405 468 509 534

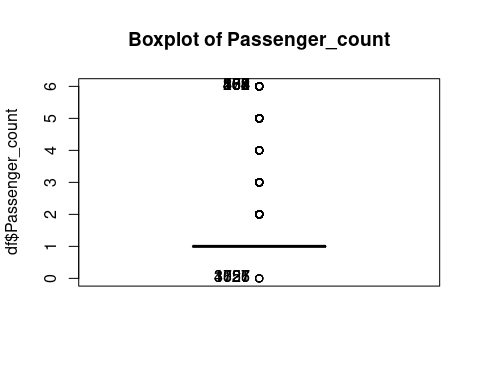
summary(df$Passenger\_count)

## 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

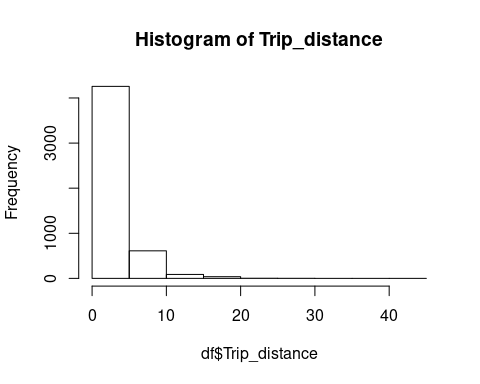
summary(df$Passenger\_count)

## 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

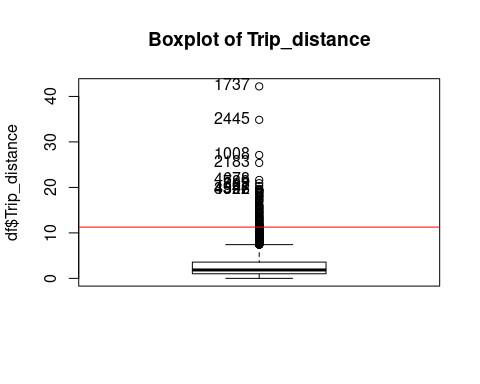
#errors ->correct  
  
#outliers  
hist(df$Trip\_distance, main="Histogram of Trip\_distance")



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

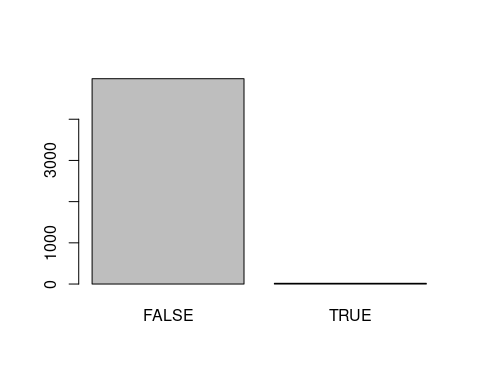
# It is a quantitive variable Non-possible values will be recoded to NA  
sel<-which(df$Pickup\_latitude ==0)  
ierrs[sel]<-ierrs[sel]+1  
jerrs["Pickup\_latitude"]<-length(sel)  
sel #### sel contains the rownames of the individuals with "0"

## [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))



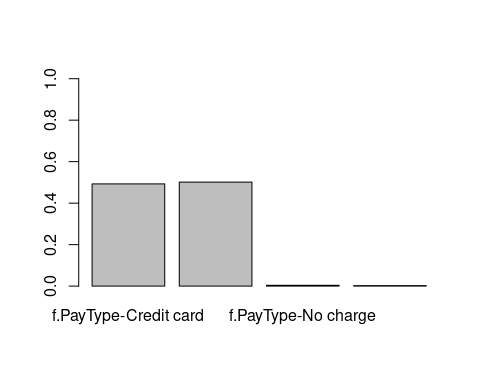
# It is a categorical(=factor) variable NO PROBLEM but not any interest  
  
  
### Variable Payment\_type  
summary(df$Payment\_type)

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

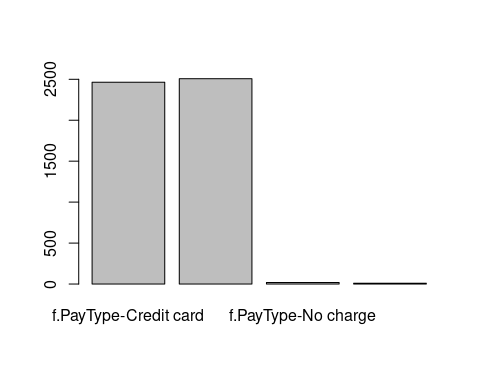
frequency <- summary(df$Payment\_type)  
frequency <- frequency/sum(frequency)  
frequency

## 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))



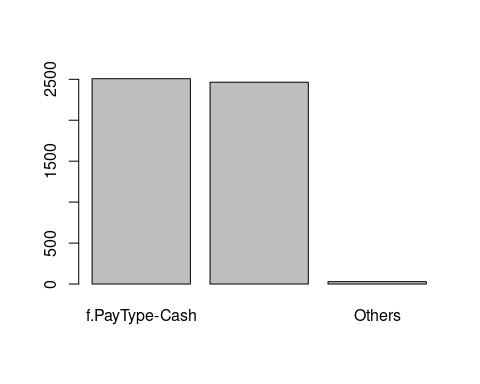
barplot(table(df$Payment\_type))



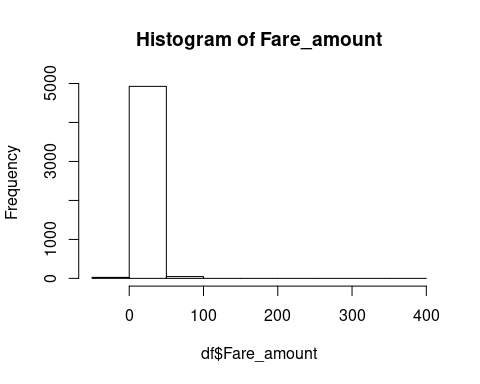
l <- which(df$Payment\_type != "f.PayType-Credit card" & df$Payment\_type != "f.PayType-Cash" )  
df$Payment\_type <- as.character(df$Payment\_type)  
df[l,"Payment\_type"] <- "Others"  
df$Payment\_type <- as.factor(df$Payment\_type )  
summary(df$Payment\_type)

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

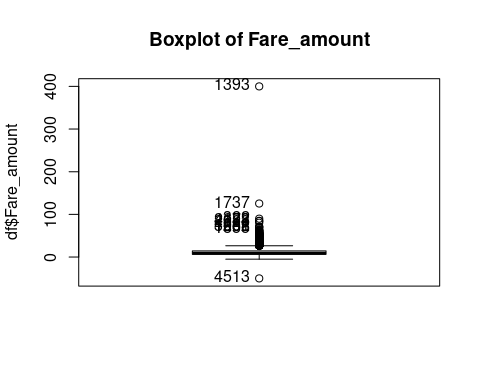
barplot(table(df$Payment\_type))



## 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

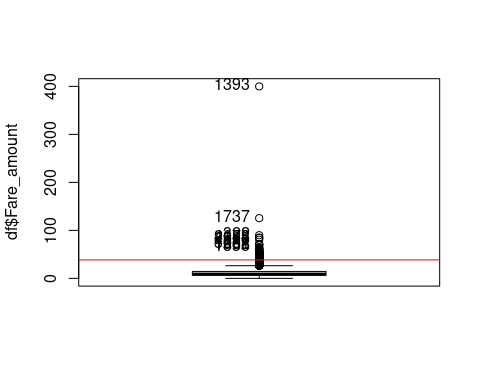
summary(df$Fare\_amount)

## 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

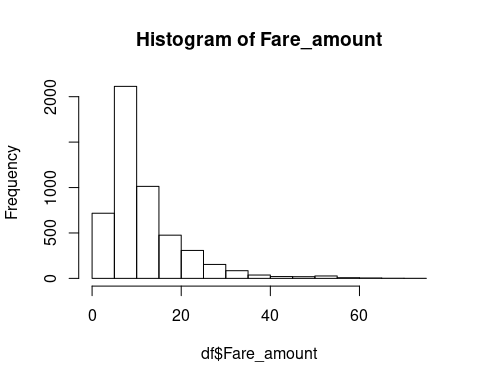
var\_out<-calcQ(df$Fare\_amount)  
abline(h=var\_out$souts,col="red")  
abline(h=var\_out$souti,col="blue")



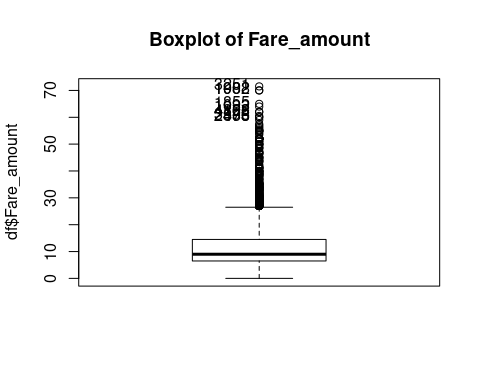
var\_out$souts

## 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")

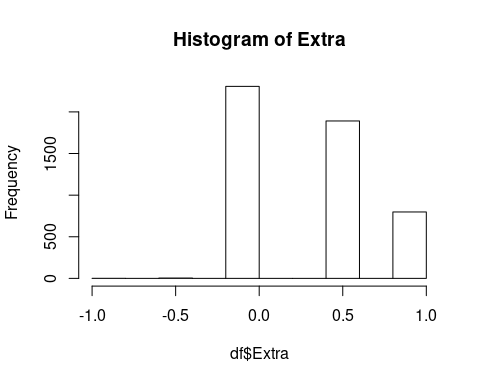


## [1] 3251 1008 1982 1855 1092 4168 4322 3596 2473 2888

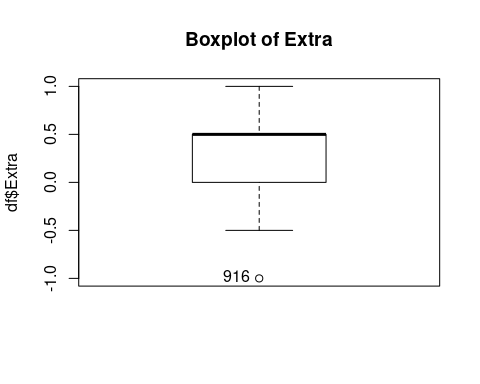
summary(df$Fare\_amount)

## 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")

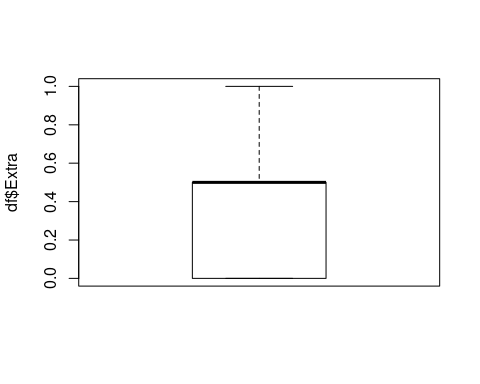


## [1] 916

summary(df$Extra)

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

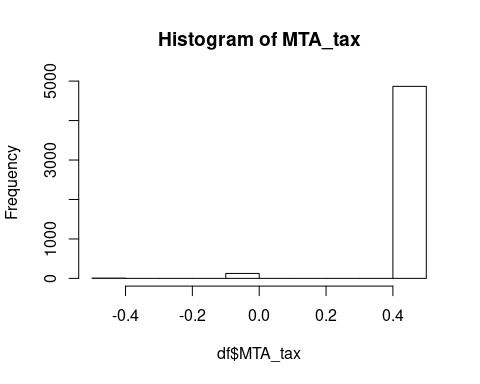
# errors  
l <- which(df$Extra<0)  
if (length(l)>0) {  
 ierrs[l]<-ierrs[l]+1  
 jerrs["Extra"]<-length(l)  
}  
df[l,"Extra"]<-NA   
  
# Outlier detection  
Boxplot(df$Extra)  
var\_out<-calcQ(df$Extra)  
abline(h=var\_out$souts,col="red")  
abline(h=var\_out$souti,col="blue")



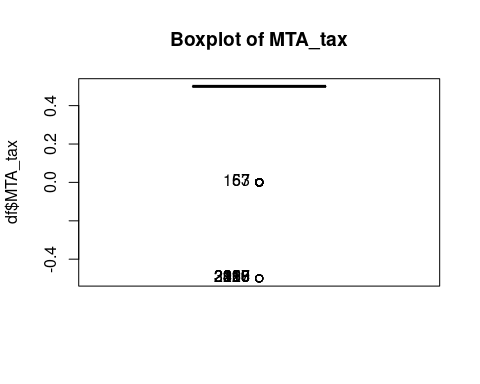
var\_out$souts

## 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

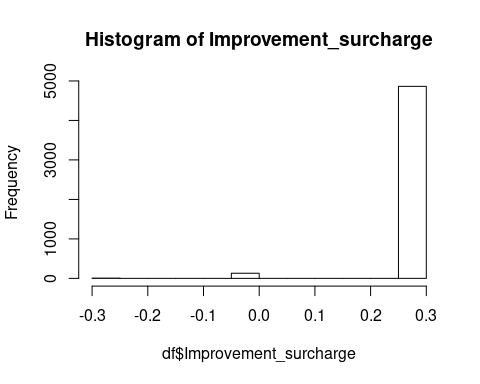
# errors  
l <- which(df$MTA\_tax<0)  
if (length(l)>0) {  
 ierrs[l]<-ierrs[l]+1  
 jerrs["MTA\_tax"]<-length(l)  
}  
df[l,"MTA\_tax"]<-NA   
  
df[,"MTA\_tax"] <- df[,"MTA\_tax"] == 0.5  
barplot(table(df[,"MTA\_tax"]))



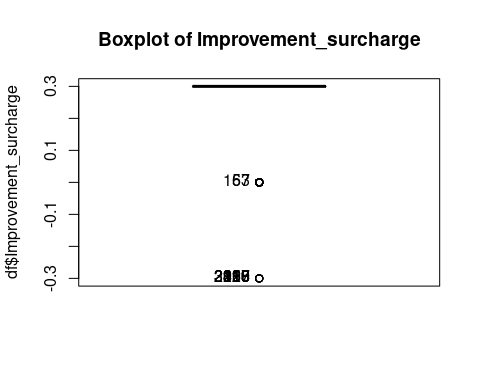
summary(df[,"MTA\_tax"] )

## 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

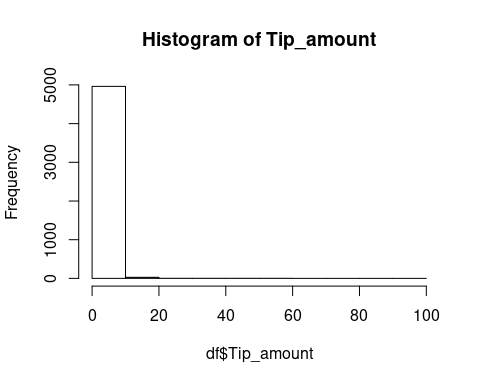
# errors  
l <- which(df$Improvement\_surcharge<0)  
if (length(l)>0) {  
 ierrs[l]<-ierrs[l]+1  
 jerrs["Improvement\_surcharge"]<-length(l)  
}  
df[l,"Improvement\_surcharge"]<-NA   
df[,"Improvement\_surcharge"] <- df[,"Improvement\_surcharge"] == 0.3  
barplot(table(df[,"Improvement\_surcharge"]))



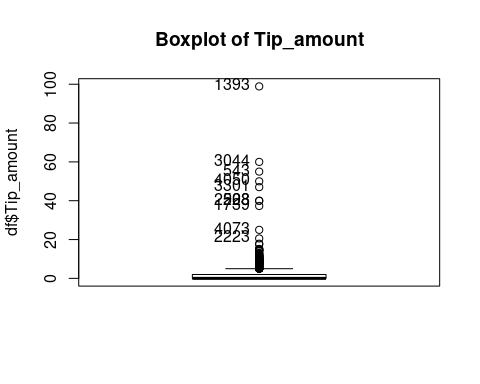
summary(df[,"Improvement\_surcharge"] )

## 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

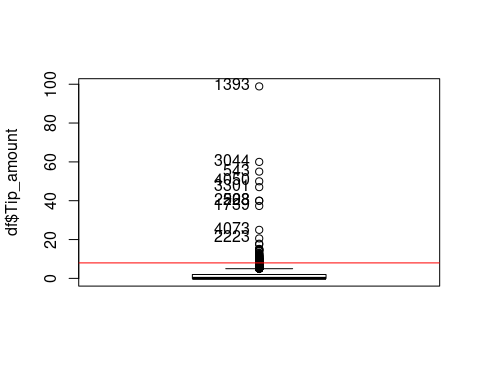
summary(df$Tip\_amount)

## 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

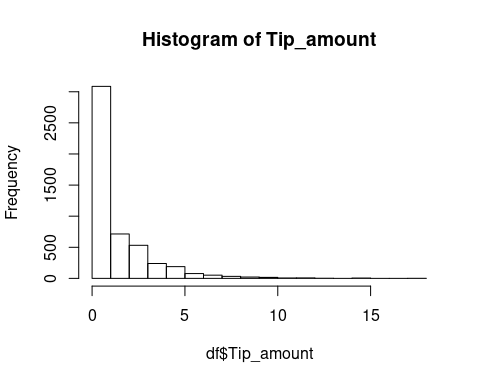
var\_out<-calcQ(df$Tip\_amount)  
abline(h=var\_out$souts,col="red")  
abline(h=var\_out$souti,col="blue")



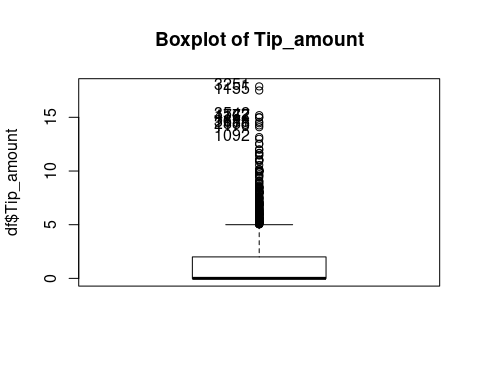
var\_out$souts

## 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")

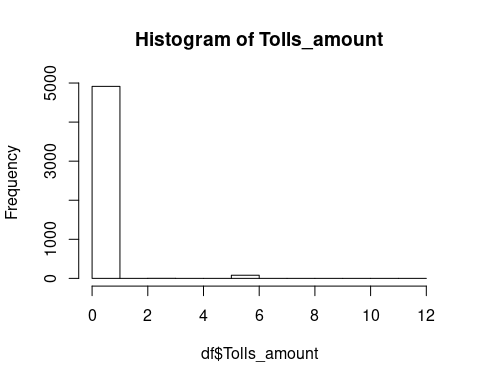


## [1] 3251 1155 3542 1777 4162 611 3688 2888 1170 1092

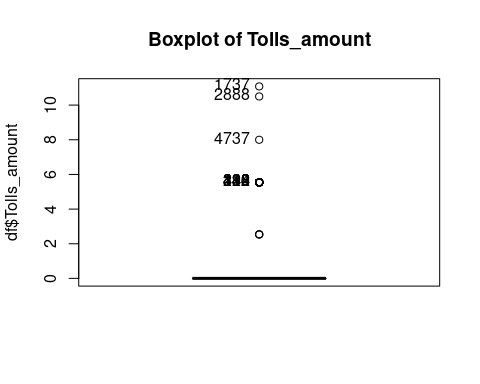
summary(df$Tip\_amount)

## 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

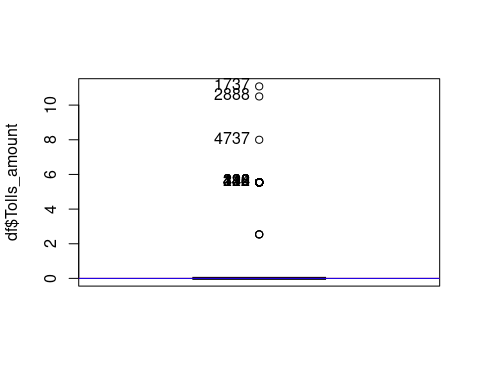
summary(df$Tolls\_amount)

## 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

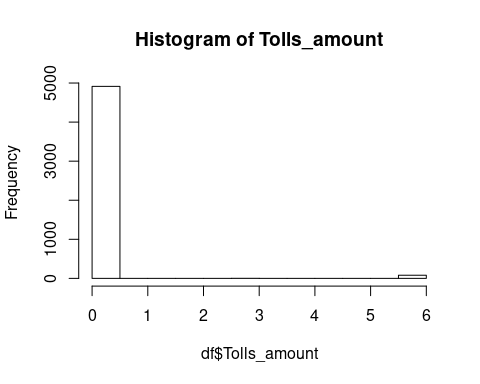
var\_out<-calcQ(df$Tolls\_amount)  
abline(h=var\_out$souts,col="red")  
abline(h=var\_out$souti,col="blue")



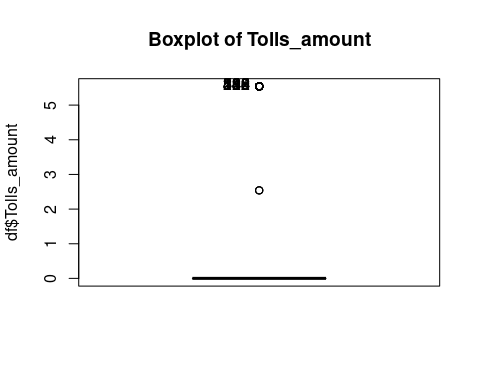
var\_out$souts

## 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

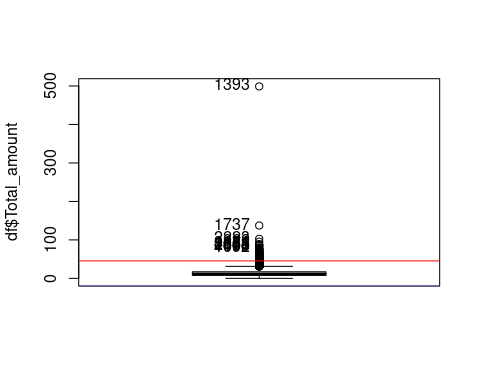
### Variable Total\_amount  
  
#errors  
  
summary(df$Total\_amount)

## 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  
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## 1379841 1.0000000 1.250000 0.000000 7.550000  
## 1379979 1.0000000 2.000000 0.000000 29.300000  
## 1380240 1.0000000 1.000000 0.000000 7.800000  
## 1380781 1.0000000 4.860000 0.000000 29.160000  
## 1380850 1.0000000 0.000000 0.000000 17.300000  
## 1381160 1.0000000 0.000000 0.000000 15.300000  
## 1381311 1.0000000 2.000000 0.000000 17.800000  
## 1381361 1.0000000 0.000000 0.000000 15.300000  
## 1381645 1.0000000 5.260000 0.000000 31.560000  
## 1381702 1.0000000 0.000000 0.000000 8.800000  
## 1381746 1.0000000 2.860000 0.000000 17.160000  
## 1381911 1.0000000 3.260000 0.000000 19.560000  
## 1382021 1.0000000 3.860000 0.000000 23.160000  
## 1382034 1.0000000 0.000000 5.540000 26.840000  
## 1382232 1.0000000 1.260000 0.000000 7.560000  
## 1382959 1.0000000 2.960000 0.000000 17.760000  
## 1383090 1.0000000 2.960000 0.000000 17.760000  
## 1383922 1.0000000 2.000000 0.000000 11.300000  
## 1384057 1.0000000 0.000000 0.000000 8.300000  
## 1384434 1.0000000 2.160000 0.000000 12.960000  
## 1384571 1.0000000 0.000000 0.000000 19.800000  
## 1384635 1.0000000 0.000000 0.000000 6.300000  
## 1384934 1.0000000 0.000000 0.000000 6.300000  
## 1385690 1.0000000 0.000000 0.000000 8.800000  
## 1385745 1.0000000 0.000000 0.000000 24.800000  
## 1386143 1.0000000 0.000000 0.000000 7.800000  
## 1386219 1.0000000 0.000000 0.000000 6.300000  
## 1386617 1.0000000 0.000000 0.000000 10.300000  
## 1387226 1.0000000 0.000000 0.000000 23.800000  
## 1387503 1.0000000 1.360000 0.000000 8.160000  
## 1387813 1.0000000 3.650000 0.000000 21.950000  
## 1387887 1.0000000 0.000000 0.000000 34.300000  
## 1388192 1.0000000 1.050000 0.000000 6.350000  
## 1388352 1.0000000 0.000000 0.000000 8.800000  
## 1388404 1.0000000 2.050000 0.000000 12.350000  
## 1388455 1.0000000 1.650000 0.000000 9.950000  
## 1388776 1.0000000 0.000000 0.000000 7.300000  
## 1389215 1.0000000 0.000000 0.000000 16.800000  
## 1389376 0.0000000 0.000000 0.000000 10.000000  
## 1389505 1.0000000 0.000000 0.000000 6.800000  
## 1389609 1.0000000 0.000000 0.000000 4.300000  
## 1389749 1.0000000 0.000000 0.000000 5.800000  
## 1389784 1.0000000 0.000000 0.000000 7.800000  
## 1390059 1.0000000 1.480000 0.000000 16.280000  
## 1390078 1.0000000 3.860000 0.000000 23.160000  
## 1390123 1.0000000 1.960000 0.000000 11.760000  
## 1390234 1.0000000 0.000000 0.000000 10.300000  
## 1390315 1.0000000 2.500000 0.000000 18.800000  
## 1390362 1.0000000 0.000000 0.000000 15.800000  
## 1390567 1.0000000 1.580000 0.000000 7.880000  
## 1390594 1.0000000 2.260000 0.000000 13.560000  
## 1390619 1.0000000 3.840000 0.000000 16.640000  
## 1391235 1.0000000 0.000000 0.000000 11.800000  
## 1391334 1.0000000 5.000000 0.000000 40.300000  
## 1392112 1.0000000 2.050000 0.000000 10.350000  
## 1392580 1.0000000 1.800000 0.000000 9.100000  
## 1392620 1.0000000 3.000000 0.000000 34.800000  
## 1393102 1.0000000 0.000000 0.000000 5.800000  
## 1393509 1.0000000 0.000000 0.000000 8.800000  
## 1393818 1.0000000 1.760000 0.000000 10.560000  
## 1394221 1.0000000 0.000000 0.000000 11.300000  
## 1394481 1.0000000 0.000000 0.000000 14.800000  
## 1394695 1.0000000 0.000000 0.000000 7.800000  
## 1394769 1.0000000 6.360000 0.000000 38.160000  
## 1394935 1.0000000 8.070000 5.540000 48.410000  
## 1394957 1.0000000 0.000000 0.000000 6.300000  
## 1395804 1.0000000 0.000000 0.000000 13.800000  
## 1395936 1.0000000 0.000000 0.000000 10.300000  
## 1396432 1.0000000 2.950000 0.000000 14.750000  
## 1396952 1.0000000 0.000000 0.000000 21.300000  
## 1397061 1.0000000 0.000000 0.000000 12.800000  
## 1397432 0.0000000 0.000000 0.000000 7.000000  
## 1397974 1.0000000 4.700000 0.000000 23.500000  
## 1399368 1.0000000 0.000000 0.000000 7.300000  
## 1399719 1.0000000 0.000000 0.000000 16.800000  
## 1399825 1.0000000 0.000000 0.000000 9.300000  
## 1399830 1.0000000 0.000000 0.000000 18.800000  
## 1399867 1.0000000 0.000000 0.000000 5.800000  
## 1400322 1.0000000 3.450000 0.000000 20.750000  
## 1400327 1.0000000 0.000000 0.000000 29.300000  
## 1400420 1.0000000 3.000000 0.000000 30.300000  
## 1400510 1.0000000 4.950000 0.000000 29.750000  
## 1400583 1.0000000 1.150000 0.000000 6.950000  
## 1400670 1.0000000 0.000000 0.000000 28.300000  
## 1401042 1.0000000 0.000000 0.000000 36.300000  
## 1401245 1.0000000 0.000000 0.000000 10.300000  
## 1401985 1.0000000 0.000000 0.000000 15.300000  
## 1402054 1.0000000 4.890000 0.000000 21.190000  
## 1402096 1.0000000 3.000000 0.000000 22.800000  
## 1402710 1.0000000 0.000000 0.000000 19.800000  
## 1402822 1.0000000 4.260000 0.000000 25.560000  
## 1403499 1.0000000 0.000000 0.000000 8.800000  
## 1404395 1.0000000 0.000000 0.000000 21.800000  
## 1404732 1.0000000 0.000000 0.000000 16.300000  
## 1404899 1.0000000 0.000000 0.000000 5.300000  
## 1404923 1.0000000 0.000000 0.000000 6.800000  
## 1405137 1.0000000 4.200000 0.000000 21.000000  
## 1405231 1.0000000 0.000000 0.000000 6.800000  
## 1405293 1.0000000 3.760000 0.000000 22.560000  
## 1405315 1.0000000 1.160000 0.000000 6.960000  
## 1405340 0.0000000 0.000000 0.000000 9.000000  
## 1406119 1.0000000 0.000000 0.000000 8.800000  
## 1406277 1.0000000 0.000000 0.000000 9.300000  
## 1406296 1.0000000 0.000000 5.540000 29.340000  
## 1406397 1.0000000 0.000000 0.000000 7.300000  
## 1406947 1.0000000 0.000000 0.000000 11.300000  
## 1406992 1.0000000 0.000000 0.000000 7.300000  
## 1407157 1.0000000 0.000000 0.000000 9.800000  
## 1407368 1.0000000 0.000000 0.000000 17.300000  
## 1407456 1.0000000 2.760000 0.000000 16.560000  
## 1407471 1.0000000 0.000000 0.000000 7.800000  
## 1408047 1.0000000 0.000000 0.000000 12.800000  
## 1408077 1.0000000 1.000000 0.000000 12.300000  
## 1408105 1.0000000 0.000000 0.000000 25.800000  
## 1408218 1.0000000 3.460000 0.000000 20.760000  
## 1408265 1.0000000 0.000000 0.000000 14.800000  
## 1408595 1.0000000 4.950000 0.000000 29.750000  
## 1408652 1.0000000 1.650000 0.000000 9.950000  
## 1408818 0.0000000 0.000000 0.000000 0.000000  
## 1409017 0.0000000 0.000000 0.000000 40.000000  
## 1409064 1.0000000 0.000000 0.000000 21.300000  
## 1409601 1.0000000 2.760000 0.000000 16.560000  
## 1409615 1.0000000 4.000000 0.000000 30.300000  
## 1410495 1.0000000 1.000000 0.000000 16.300000  
## 1410951 1.0000000 0.000000 5.540000 33.340000  
## 1411500 1.0000000 1.500000 0.000000 13.300000  
## 1411530 1.0000000 0.000000 0.000000 7.300000  
## 1411694 1.0000000 7.160000 0.000000 42.960000  
## 1411711 1.0000000 0.000000 0.000000 20.800000  
## 1412883 1.0000000 1.160000 0.000000 6.960000  
## 1412949 1.0000000 0.000000 0.000000 11.800000  
## 1412986 1.0000000 1.160000 0.000000 6.960000  
## 1413561 1.0000000 0.000000 0.000000 7.800000  
## 1414164 1.0000000 0.000000 0.000000 4.800000  
## 1414405 1.0000000 0.000000 0.000000 7.800000  
## 1414412 1.0000000 1.960000 0.000000 11.760000  
## 1414450 1.0000000 10.890000 0.000000 47.190000  
## 1414463 1.0000000 0.000000 0.000000 7.300000  
## 1414623 1.0000000 4.960000 0.000000 29.760000  
## 1414963 1.0000000 2.150000 0.000000 12.950000  
## 1415633 1.0000000 5.960000 0.000000 35.760000  
## 1415887 1.0000000 1.360000 0.000000 8.160000  
## 1416026 1.0000000 0.000000 0.000000 7.300000  
## 1416057 1.0000000 0.000000 0.000000 7.800000  
## 1416062 1.0000000 8.070000 5.540000 48.410000  
## 1416067 1.0000000 1.360000 0.000000 8.160000  
## 1416179 1.0000000 4.660000 0.000000 27.960000  
## 1416366 1.0000000 0.960000 0.000000 5.760000  
## 1416433 1.0000000 0.000000 0.000000 17.300000  
## 1416734 1.0000000 0.000000 0.000000 7.300000  
## 1416841 1.0000000 0.000000 0.000000 7.800000  
## 1416970 1.0000000 2.000000 0.000000 8.800000  
## 1416988 1.0000000 0.000000 0.000000 9.300000  
## 1417064 1.0000000 1.850000 0.000000 11.150000  
## 1417513 1.0000000 1.360000 0.000000 8.160000  
## 1418154 1.0000000 0.000000 0.000000 9.800000  
## 1418771 1.0000000 1.550000 0.000000 9.350000  
## 1418801 1.0000000 1.550000 0.000000 9.350000  
## 1419091 1.0000000 0.000000 0.000000 5.800000  
## 1419187 1.0000000 6.540000 5.540000 42.880000  
## 1420218 1.0000000 0.000000 0.000000 9.800000  
## 1420443 1.0000000 0.000000 0.000000 17.800000  
## 1420717 1.0000000 0.000000 0.000000 47.800000  
## 1420943 1.0000000 0.000000 0.000000 10.300000  
## 1420976 1.0000000 0.000000 0.000000 6.300000  
## 1421376 1.0000000 3.000000 0.000000 18.800000  
## 1421586 1.0000000 0.000000 0.000000 11.300000  
## 1421687 1.0000000 1.500000 0.000000 11.300000  
## 1421737 1.0000000 0.000000 0.000000 16.800000  
## 1422095 1.0000000 0.000000 0.000000 28.300000  
## 1422301 1.0000000 6.990000 0.000000 30.290000  
## 1422832 1.0000000 3.860000 0.000000 23.160000  
## 1423334 1.0000000 0.000000 0.000000 7.300000  
## 1423547 1.0000000 2.450000 0.000000 14.750000  
## 1423867 1.0000000 0.000000 0.000000 4.800000  
## 1423969 1.0000000 0.000000 0.000000 7.300000  
## 1424211 1.0000000 3.080000 0.000000 15.380000  
## 1424227 1.0000000 0.000000 0.000000 14.300000  
## 1424829 1.0000000 1.250000 0.000000 10.550000  
## 1425132 1.0000000 0.000000 0.000000 21.800000  
## 1425188 1.0000000 0.000000 0.000000 7.800000  
## 1425483 1.0000000 2.700000 0.000000 16.000000  
## 1425826 1.0000000 0.000000 0.000000 10.800000  
## 1425961 1.0000000 5.000000 5.540000 32.840000  
## 1426153 1.0000000 0.000000 0.000000 9.800000  
## 1426351 1.0000000 0.000000 0.000000 8.800000  
## 1426419 1.0000000 0.000000 0.000000 14.800000  
## 1426519 1.0000000 0.000000 0.000000 9.300000  
## 1426957 1.0000000 0.000000 0.000000 6.300000  
## 1427490 1.0000000 1.060000 0.000000 6.360000  
## 1427491 1.0000000 2.700000 0.000000 20.000000  
## 1427582 1.0000000 0.000000 0.000000 18.300000  
## 1428327 1.0000000 11.000000 0.000000 43.800000  
## 1428618 1.0000000 0.000000 0.000000 6.300000  
## 1429180 1.0000000 11.670000 5.540000 70.010000  
## 1429490 1.0000000 3.960000 0.000000 23.760000  
## 1429563 1.0000000 0.000000 0.000000 15.300000  
## 1429565 1.0000000 1.580000 0.000000 12.880000  
## 1429614 1.0000000 0.000000 0.000000 11.300000  
## 1429848 1.0000000 0.000000 0.000000 4.800000  
## 1429872 1.0000000 2.320000 0.000000 11.620000  
## 1430008 1.0000000 0.000000 0.000000 8.800000  
## 1430753 1.0000000 0.000000 0.000000 12.300000  
## 1430856 1.0000000 0.000000 0.000000 6.800000  
## 1431112 1.0000000 1.350000 0.000000 8.150000  
## 1431129 1.0000000 1.150000 0.000000 6.950000  
## 1431712 1.0000000 0.000000 0.000000 18.800000  
## 1431738 1.0000000 0.000000 0.000000 9.300000  
## 1431796 1.0000000 0.000000 0.000000 10.800000  
## 1431809 1.0000000 0.000000 0.000000 5.800000  
## 1432028 1.0000000 1.000000 0.000000 6.800000  
## 1432240 1.0000000 1.460000 0.000000 8.760000  
## 1432607 1.0000000 0.000000 0.000000 9.800000  
## 1432636 1.0000000 0.000000 0.000000 9.800000  
## 1433533 1.0000000 1.000000 0.000000 9.300000  
## 1433993 1.0000000 10.000000 0.000000 18.800000  
## 1434665 1.0000000 2.500000 0.000000 21.800000  
## 1435187 1.0000000 2.560000 0.000000 15.360000  
## 1435197 1.0000000 0.000000 0.000000 13.800000  
## 1436330 1.0000000 2.820000 0.000000 14.120000  
## 1436842 1.0000000 0.000000 0.000000 11.300000  
## 1436893 1.0000000 0.000000 0.000000 16.800000  
## 1437091 1.0000000 1.580000 0.000000 7.880000  
## 1437115 1.0000000 0.000000 0.000000 19.800000  
## 1437246 1.0000000 0.000000 0.000000 7.800000  
## 1437325 1.0000000 2.360000 0.000000 14.160000  
## 1437538 1.0000000 0.000000 0.000000 11.300000  
## 1438486 1.0000000 5.360000 0.000000 32.160000  
## 1438719 1.0000000 0.000000 0.000000 7.300000  
## 1439598 1.0000000 0.000000 0.000000 6.300000  
## 1439876 1.0000000 5.000000 0.000000 36.300000  
## 1440064 1.0000000 0.000000 0.000000 13.300000  
## 1440279 1.0000000 0.000000 0.000000 13.800000  
## 1440573 1.0000000 0.000000 0.000000 32.300000  
## 1440664 1.0000000 0.000000 0.000000 5.300000  
## 1440800 1.0000000 3.580000 0.000000 17.880000  
## 1440884 1.0000000 0.000000 0.000000 12.800000  
## 1441110 1.0000000 2.700000 0.000000 13.500000  
## 1441586 1.0000000 0.000000 0.000000 10.800000  
## 1441643 1.0000000 0.000000 0.000000 17.800000  
## 1441870 1.0000000 0.000000 0.000000 19.800000  
## 1441887 1.0000000 0.000000 0.000000 12.800000  
## 1442423 1.0000000 0.000000 0.000000 8.300000  
## 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

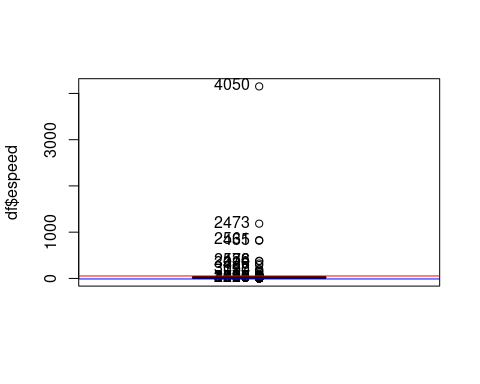
calcQ(df$espeed)

## $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

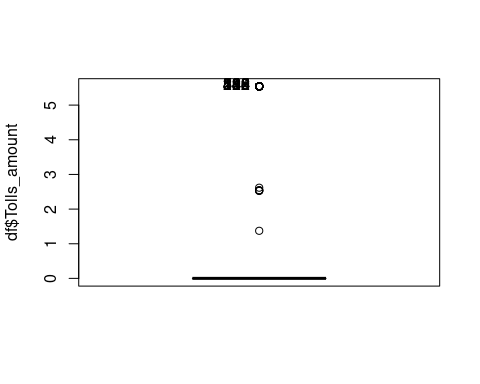
df$f.traveltime <- varaux  
levels(df$f.traveltime)<-paste("f.traveltime-",levels(df$f.traveltime),sep="")  
  
## Variable distHaversine  
  
varaux<-factor(cut(df$distHaversine,breaks=quantile(df$distHaversine,seq(0,1,0.25),na.rm=TRUE),include.lowest = T ))  
summary(varaux)

## [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

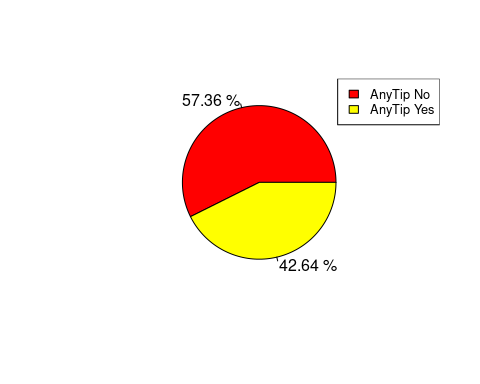
## Variable Tip\_amount  
  
df$AnyTip<-ifelse(df$Tip\_amount<0.01,0,1)  
df$AnyTip<-factor(df$AnyTip,labels=paste("AnyTip",c("No","Yes")))  
summary(df$AnyTip)

## AnyTip No AnyTip Yes   
## 2868 2132

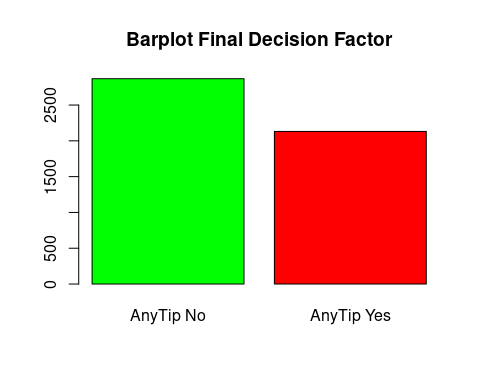
# Pie  
piepercent<-round(100\*(table(df$AnyTip)/nrow(df)),dig=2); piepercent

##   
## 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"))

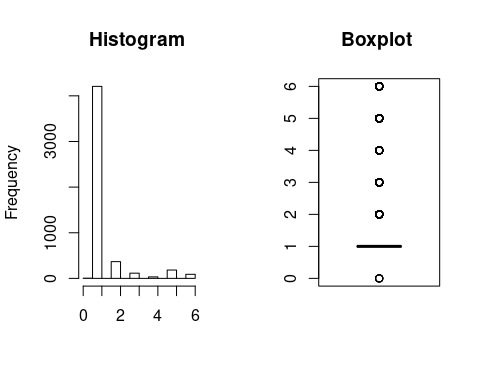


## Data Quality report (missings/errors/outliers) and remove observations with missings in targets

## 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