featureselection

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## Description of the work

#Given dataset is a size of I GB individual log in data with 21 individual parameters such as timestamp, epoch time, user ID, individual cloud, connection status, MSISDN login submission failure status, user activation submission status, user authorization status, email verification status, email verification failure status, MSISDN register page, MSISDN register page submission failure status, availability, user denied authorization status, user succeeded authentication, email login submission status, MSISDN login submission status, new user creation status, and user activation submission status.  
  
#By studying observable data following information can be analyzed from the given dataset  
#1.How many connected user in a certain time period would be succesfully authorized or failed  
#2. Epoc time share ratio  
#3. Availability of a user in a certain timestamp or time period  
#4. Probability of new user creation in comeing timestamps  
#5. Probaility of user to be connected in a certain period  
#6. Probability of new user activation submitted

## Process of the work

#To develop a prediction model, we need to do the following steps:  
  
#1. What are the individual data mean in the given data set?  
#2. Using Features selections find the correlation between the data in the data set  
#3. What are the dependent and independent data in the data set?  
#4. Create linear regression model  
#5. Find the coefficients and residual  
#6. Determine the residual is appropriate or not?  
#7. Predict value using the regression modle  
#8. Cross validate the prediction model

require(leaps)

## Loading required package: leaps

## Warning: package 'leaps' was built under R version 3.2.5

require(MASS)

## Loading required package: MASS

## Warning: package 'MASS' was built under R version 3.2.5

### Data reading

rdata <- read.csv(file.choose(), header=T)

## Create Data frame

dataobj <- rdata[,c("timeStamp","epoch\_time","UserID","MY\_CLOUD","CONNECT","msisdn\_login\_submitted\_failed","user\_activation\_submitted\_failed","user\_allowed\_authorization","email\_verification\_submitted","email\_verification\_submitted\_failed","msisdn\_register\_page","msisdn\_register\_submitted\_failed","msisdn\_register\_submitted","email\_login\_submitted\_faile","availability","user\_denied\_authorization","user\_succeeded\_authentication","email\_login\_submitted","msisdn\_login\_submitted","new\_user\_created","user\_activation\_submitted")]  
  
summary(dataobj)

## timeStamp epoch\_time UserID   
## 2016-01-23T03:39:51.789Z : 2 Min. :1.454e+09 Min. :5.998e+14   
## 2016-01-23T03:26:10.158174Z: 1 1st Qu.:1.454e+09 1st Qu.:6.039e+14   
## 2016-01-23T03:26:11.679Z : 1 Median :1.454e+09 Median :6.063e+14   
## 2016-01-23T03:26:11.682Z : 1 Mean :1.454e+09 Mean :6.063e+14   
## 2016-01-23T03:26:13.594Z : 1 3rd Qu.:1.454e+09 3rd Qu.:6.096e+14   
## 2016-01-23T03:26:13.597Z : 1 Max. :1.454e+09 Max. :6.097e+14   
## (Other) :992   
## MY\_CLOUD CONNECT msisdn\_login\_submitted\_failed  
## Min. :0.000000 Min. :0.000 Min. :0   
## 1st Qu.:0.000000 1st Qu.:1.000 1st Qu.:0   
## Median :0.000000 Median :1.000 Median :0   
## Mean :0.009009 Mean :0.991 Mean :0   
## 3rd Qu.:0.000000 3rd Qu.:1.000 3rd Qu.:0   
## Max. :1.000000 Max. :1.000 Max. :0   
##   
## user\_activation\_submitted\_failed user\_allowed\_authorization  
## Min. :0.000000 Min. :0.0000   
## 1st Qu.:0.000000 1st Qu.:0.0000   
## Median :0.000000 Median :0.0000   
## Mean :0.002002 Mean :0.3654   
## 3rd Qu.:0.000000 3rd Qu.:1.0000   
## Max. :1.000000 Max. :1.0000   
##   
## email\_verification\_submitted email\_verification\_submitted\_failed  
## Min. :0.000000 Min. :0.000000   
## 1st Qu.:0.000000 1st Qu.:0.000000   
## Median :0.000000 Median :0.000000   
## Mean :0.009009 Mean :0.003003   
## 3rd Qu.:0.000000 3rd Qu.:0.000000   
## Max. :1.000000 Max. :1.000000   
##   
## msisdn\_register\_page msisdn\_register\_submitted\_failed  
## Min. :0.00000 Min. :0   
## 1st Qu.:0.00000 1st Qu.:0   
## Median :0.00000 Median :0   
## Mean :0.04404 Mean :0   
## 3rd Qu.:0.00000 3rd Qu.:0   
## Max. :1.00000 Max. :0   
##   
## msisdn\_register\_submitted email\_login\_submitted\_faile availability  
## Min. :0.00000 Min. :0 Min. :0   
## 1st Qu.:0.00000 1st Qu.:0 1st Qu.:0   
## Median :0.00000 Median :0 Median :0   
## Mean :0.03403 Mean :0 Mean :0   
## 3rd Qu.:0.00000 3rd Qu.:0 3rd Qu.:0   
## Max. :1.00000 Max. :0 Max. :0   
##   
## user\_denied\_authorization user\_succeeded\_authentication  
## Min. :0.000000 Min. :0.0000   
## 1st Qu.:0.000000 1st Qu.:0.0000   
## Median :0.000000 Median :0.0000   
## Mean :0.002002 Mean :0.3684   
## 3rd Qu.:0.000000 3rd Qu.:1.0000   
## Max. :1.000000 Max. :1.0000   
##   
## email\_login\_submitted msisdn\_login\_submitted new\_user\_created   
## Min. :0.0000 Min. :0.00000 Min. :0.000000   
## 1st Qu.:0.0000 1st Qu.:0.00000 1st Qu.:0.000000   
## Median :0.0000 Median :0.00000 Median :0.000000   
## Mean :0.0961 Mean :0.06106 Mean :0.009009   
## 3rd Qu.:0.0000 3rd Qu.:0.00000 3rd Qu.:0.000000   
## Max. :1.0000 Max. :1.00000 Max. :1.000000   
##   
## user\_activation\_submitted  
## Min. :0.000000   
## 1st Qu.:0.000000   
## Median :0.000000   
## Mean :0.006006   
## 3rd Qu.:0.000000   
## Max. :1.000000   
##

Timestamp <- rdata[,c("timeStamp")]  
UserID <- rdata[,c("UserID")]  
Connect <- rdata[,c("CONNECT")]  
Epoch\_time <- rdata[,c("epoch\_time")]  
user\_allowed\_authorization <- rdata[,c("user\_allowed\_authorization")]  
email\_login\_submitted <- rdata[,c("email\_login\_submitted")]  
user\_succeeded\_authentication <- rdata[,c("user\_succeeded\_authentication")]

### Feature selection and corelation between the most observable data

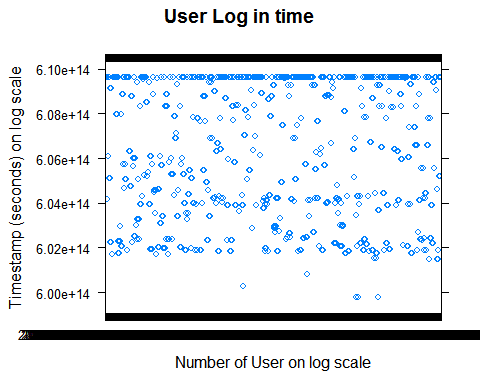
reg=regsubsets(timeStamp ~ epoch\_time +UserID + CONNECT + user\_allowed\_authorization + user\_succeeded\_authentication + msisdn\_login\_submitted, data=dataobj, method="backward")

#Explanation of the result of summary  
#for the best subset of size 1, it puts 1 star next to the variable that's in the best subset of size 1.  
#for the best subset of size 2, it puts 2 stars next to the variables that are in the best subset of size 2  
#..  
##for the best subset of size n, it puts n stars next to the variables that are in the best subset of size n  
summary(reg)

## Subset selection object  
## Call: regsubsets.formula(timeStamp ~ epoch\_time + UserID + CONNECT +   
## user\_allowed\_authorization + user\_succeeded\_authentication +   
## msisdn\_login\_submitted, data = dataobj, method = "backward")  
## 6 Variables (and intercept)  
## Forced in Forced out  
## epoch\_time FALSE FALSE  
## UserID FALSE FALSE  
## CONNECT FALSE FALSE  
## user\_allowed\_authorization FALSE FALSE  
## user\_succeeded\_authentication FALSE FALSE  
## msisdn\_login\_submitted FALSE FALSE  
## 1 subsets of each size up to 6  
## Selection Algorithm: backward  
## epoch\_time UserID CONNECT user\_allowed\_authorization  
## 1 ( 1 ) "\*" " " " " " "   
## 2 ( 1 ) "\*" " " " " "\*"   
## 3 ( 1 ) "\*" " " "\*" "\*"   
## 4 ( 1 ) "\*" " " "\*" "\*"   
## 5 ( 1 ) "\*" "\*" "\*" "\*"   
## 6 ( 1 ) "\*" "\*" "\*" "\*"   
## user\_succeeded\_authentication msisdn\_login\_submitted  
## 1 ( 1 ) " " " "   
## 2 ( 1 ) " " " "   
## 3 ( 1 ) " " " "   
## 4 ( 1 ) " " "\*"   
## 5 ( 1 ) " " "\*"   
## 6 ( 1 ) "\*" "\*"

library("lattice")

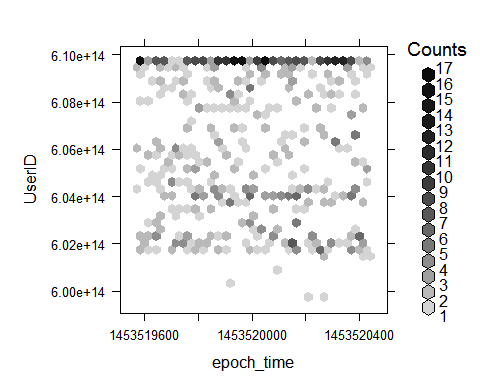
xyplot(UserID ~ Timestamp, data = rdata,  
 xlab = "Number of User on log scale",  
 ylab = "Timestamp (seconds) on log scale",  
 main = "User Log in time"  
)



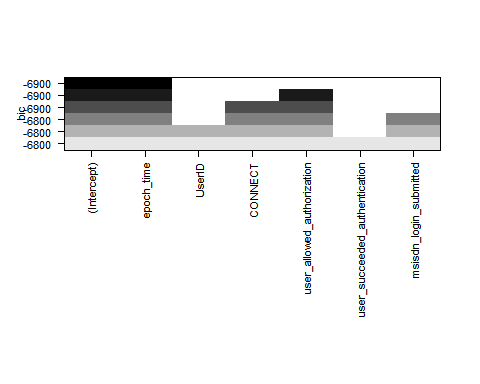
library("hexbin")

## Warning: package 'hexbin' was built under R version 3.2.5

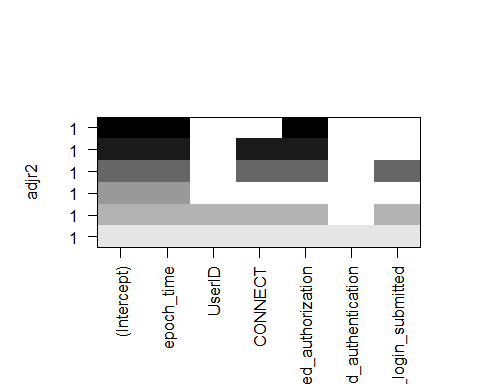
hexbinplot(UserID ~ epoch\_time, dataobj,  
 scales = list(x = list(log = 10, equispaced.log = FALSE)),  
 aspect = 1, bins=50)



# diagnostic plots   
layout(matrix(c(1,2,3,4),8,8)) # optional 4 graphs/page   
plot(reg)



plot(reg,scale="adjr2")

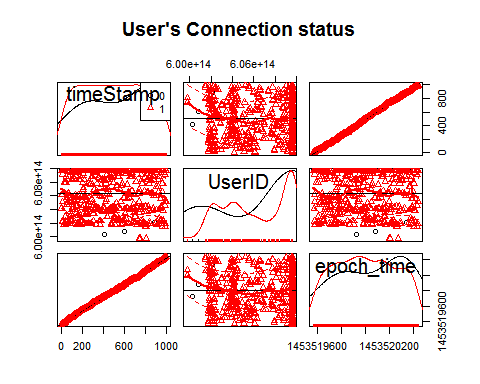


# Scatterplot Matrices from the glus Package   
library(car)

## Warning: package 'car' was built under R version 3.2.5

scatterplot.matrix(~timeStamp+UserID+epoch\_time|CONNECT, data=dataobj,  
 main="User's Connection status")

## Warning: 'scatterplot.matrix' is deprecated.  
## Use 'scatterplotMatrix' instead.  
## See help("Deprecated") and help("car-deprecated").



# Scatterplot Matrices from the glus Package   
library(car)  
scatterplot.matrix(~CONNECT+MY\_CLOUD|UserID, data=dataobj,  
 main="User's service status")

## Warning: 'scatterplot.matrix' is deprecated.  
## Use 'scatterplotMatrix' instead.  
## See help("Deprecated") and help("car-deprecated").

## Warning in diag.panel(...): cannot estimate density for group 600277343755724  
## Error in density.default(xx, adjust = adjust, na.rm = TRUE) :   
## need at least 2 points to select a bandwidth automatically

## Warning in diag.panel(...): cannot estimate density for group 600806612815944  
## Error in density.default(xx, adjust = adjust, na.rm = TRUE) :   
## need at least 2 points to select a bandwidth automatically

## Warning in diag.panel(...): cannot estimate density for group 602122476191954  
## Error in density.default(xx, adjust = adjust, na.rm = TRUE) :   
## need at least 2 points to select a bandwidth automatically

## Warning in diag.panel(...): cannot estimate density for group 602736717770156  
## Error in density.default(xx, adjust = adjust, na.rm = TRUE) :   
## need at least 2 points to select a bandwidth automatically

## Warning in diag.panel(...): cannot estimate density for group 604322058168646  
## Error in density.default(xx, adjust = adjust, na.rm = TRUE) :   
## need at least 2 points to select a bandwidth automatically

## Warning in diag.panel(...): cannot estimate density for group 605458214277035  
## Error in density.default(xx, adjust = adjust, na.rm = TRUE) :   
## need at least 2 points to select a bandwidth automatically

## Warning in diag.panel(...): cannot estimate density for group 607840807369573  
## Error in density.default(xx, adjust = adjust, na.rm = TRUE) :   
## need at least 2 points to select a bandwidth automatically

## Warning in diag.panel(...): cannot estimate density for group 607840817987033  
## Error in density.default(xx, adjust = adjust, na.rm = TRUE) :   
## need at least 2 points to select a bandwidth automatically

## Warning in diag.panel(...): cannot estimate density for group 608750852452962  
## Error in density.default(xx, adjust = adjust, na.rm = TRUE) :   
## need at least 2 points to select a bandwidth automatically

## Warning in diag.panel(...): cannot estimate density for group 609554166354176  
## Error in density.default(xx, adjust = adjust, na.rm = TRUE) :   
## need at least 2 points to select a bandwidth automatically

## Warning in diag.panel(...): cannot estimate density for group 609606418520710  
## Error in density.default(xx, adjust = adjust, na.rm = TRUE) :   
## need at least 2 points to select a bandwidth automatically

## Warning in diag.panel(...): cannot estimate density for group 609650266189543  
## Error in density.default(xx, adjust = adjust, na.rm = TRUE) :   
## need at least 2 points to select a bandwidth automatically

## Warning in diag.panel(...): cannot estimate density for group 609650309806111  
## Error in density.default(xx, adjust = adjust, na.rm = TRUE) :   
## need at least 2 points to select a bandwidth automatically

## Warning in diag.panel(...): cannot estimate density for group 609650315614382  
## Error in density.default(xx, adjust = adjust, na.rm = TRUE) :   
## need at least 2 points to select a bandwidth automatically

## Warning in diag.panel(...): cannot estimate density for group 609650317615065  
## Error in density.default(xx, adjust = adjust, na.rm = TRUE) :   
## need at least 2 points to select a bandwidth automatically

## Warning in diag.panel(...): cannot estimate density for group 609650366573078  
## Error in density.default(xx, adjust = adjust, na.rm = TRUE) :   
## need at least 2 points to select a bandwidth automatically

## Warning in diag.panel(...): cannot estimate density for group 609650384894637  
## Error in density.default(xx, adjust = adjust, na.rm = TRUE) :   
## need at least 2 points to select a bandwidth automatically

## Warning in diag.panel(...): cannot estimate density for group 609650421817516  
## Error in density.default(xx, adjust = adjust, na.rm = TRUE) :   
## need at least 2 points to select a bandwidth automatically

## Warning in diag.panel(...): cannot estimate density for group 609650428079611  
## Error in density.default(xx, adjust = adjust, na.rm = TRUE) :   
## need at least 2 points to select a bandwidth automatically

## Warning in diag.panel(...): cannot estimate density for group 609650434029651  
## Error in density.default(xx, adjust = adjust, na.rm = TRUE) :   
## need at least 2 points to select a bandwidth automatically

## Warning in diag.panel(...): cannot estimate density for group 609650437096526  
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## need at least 2 points to select a bandwidth automatically

## Warning in diag.panel(...): cannot estimate density for group 609650504777912  
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## need at least 2 points to select a bandwidth automatically

## Warning in diag.panel(...): cannot estimate density for group 609650544269802  
## Error in density.default(xx, adjust = adjust, na.rm = TRUE) :   
## need at least 2 points to select a bandwidth automatically

## Warning in diag.panel(...): cannot estimate density for group 609650559260243  
## Error in density.default(xx, adjust = adjust, na.rm = TRUE) :   
## need at least 2 points to select a bandwidth automatically

## Warning in diag.panel(...): cannot estimate density for group 609650581762266  
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## need at least 2 points to select a bandwidth automatically

## Warning in diag.panel(...): cannot estimate density for group 609650585307711  
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## need at least 2 points to select a bandwidth automatically

## Warning in diag.panel(...): cannot estimate density for group 609650586124761  
## Error in density.default(xx, adjust = adjust, na.rm = TRUE) :   
## need at least 2 points to select a bandwidth automatically

## Warning in diag.panel(...): cannot estimate density for group 609650594266323  
## Error in density.default(xx, adjust = adjust, na.rm = TRUE) :   
## need at least 2 points to select a bandwidth automatically

## Warning in diag.panel(...): cannot estimate density for group 609650616616512  
## Error in density.default(xx, adjust = adjust, na.rm = TRUE) :   
## need at least 2 points to select a bandwidth automatically

## Warning in diag.panel(...): cannot estimate density for group 609650641477410  
## Error in density.default(xx, adjust = adjust, na.rm = TRUE) :   
## need at least 2 points to select a bandwidth automatically

## Warning in diag.panel(...): cannot estimate density for group 609650644528766  
## Error in density.default(xx, adjust = adjust, na.rm = TRUE) :   
## need at least 2 points to select a bandwidth automatically

## Warning in diag.panel(...): cannot estimate density for group 609650654960420  
## Error in density.default(xx, adjust = adjust, na.rm = TRUE) :   
## need at least 2 points to select a bandwidth automatically

## Warning in diag.panel(...): cannot estimate density for group 609650660288024  
## Error in density.default(xx, adjust = adjust, na.rm = TRUE) :   
## need at least 2 points to select a bandwidth automatically

## Warning in plot.xy(xy.coords(x, y), type = type, ...): unimplemented pch  
## value '26'

## Warning in plot.xy(xy.coords(x, y), type = type, ...): unimplemented pch  
## value '27'

## Warning in plot.xy(xy.coords(x, y), type = type, ...): unimplemented pch  
## value '28'

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## value '30'

## Warning in plot.xy(xy.coords(x, y), type = type, ...): unimplemented pch  
## value '31'

## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '256' is  
## invalid in this locale

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## Warning in plot.xy(xy.coords(x, y), type = type, ...): unimplemented pch  
## value '31'  
  
## Warning in plot.xy(xy.coords(x, y), type = type, ...): unimplemented pch  
## value '31'  
  
## Warning in plot.xy(xy.coords(x, y), type = type, ...): unimplemented pch  
## value '31'  
  
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## value '31'  
  
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## value '31'  
  
## Warning in plot.xy(xy.coords(x, y), type = type, ...): unimplemented pch  
## value '31'

## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '256' is  
## invalid in this locale

## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '257' is  
## invalid in this locale  
  
## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '257' is  
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## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '257' is  
## invalid in this locale  
  
## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '257' is  
## invalid in this locale

## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '258' is  
## invalid in this locale  
  
## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '258' is  
## invalid in this locale  
  
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## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '258' is  
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## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '259' is  
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## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '260' is  
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## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '261' is  
## invalid in this locale  
  
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## invalid in this locale  
  
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## invalid in this locale

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## invalid in this locale

## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '263' is  
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## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '264' is  
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## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '265' is  
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## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '267' is  
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## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '268' is  
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## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '268' is  
## invalid in this locale

## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '269' is  
## invalid in this locale  
  
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## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '270' is  
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## invalid in this locale

## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '271' is  
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## invalid in this locale

## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '272' is  
## invalid in this locale  
  
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## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '273' is  
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## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '274' is  
## invalid in this locale  
  
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## invalid in this locale  
  
## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '274' is  
## invalid in this locale

## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '275' is  
## invalid in this locale  
  
## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '275' is  
## invalid in this locale  
  
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## invalid in this locale  
  
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## invalid in this locale  
  
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## invalid in this locale  
  
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## invalid in this locale

## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '276' is  
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## invalid in this locale

## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '277' is  
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## invalid in this locale

## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '279' is  
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## invalid in this locale

## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '282' is  
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## invalid in this locale

## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '283' is  
## invalid in this locale

## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '284' is  
## invalid in this locale

## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '285' is  
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## invalid in this locale

## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '286' is  
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## invalid in this locale

## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '287' is  
## invalid in this locale

## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '288' is  
## invalid in this locale

## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '289' is  
## invalid in this locale

## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '290' is  
## invalid in this locale

## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '291' is  
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## invalid in this locale

## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '292' is  
## invalid in this locale  
  
## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '292' is  
## invalid in this locale  
  
## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '292' is  
## invalid in this locale

## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '293' is  
## invalid in this locale

## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '294' is  
## invalid in this locale  
  
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## invalid in this locale

## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '295' is  
## invalid in this locale  
  
## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '295' is  
## invalid in this locale

## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '296' is  
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## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '296' is  
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## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '296' is  
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## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '296' is  
## invalid in this locale

## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '297' is  
## invalid in this locale

## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '298' is  
## invalid in this locale

## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '299' is  
## invalid in this locale

## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '300' is  
## invalid in this locale

## Warning in smoother(x, y, col = col[2], log.x = FALSE, log.y = FALSE,  
## spread = spread, : could not fit smooth

## Warning in plot.xy(xy.coords(x, y), type = type, ...): unimplemented pch  
## value '26'  
  
## Warning in plot.xy(xy.coords(x, y), type = type, ...): unimplemented pch  
## value '26'  
  
## Warning in plot.xy(xy.coords(x, y), type = type, ...): unimplemented pch  
## value '26'  
  
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## value '26'  
  
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## Warning in plot.xy(xy.coords(x, y), type = type, ...): unimplemented pch  
## value '27'  
  
## Warning in plot.xy(xy.coords(x, y), type = type, ...): unimplemented pch  
## value '27'  
  
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## value '27'

## Warning in plot.xy(xy.coords(x, y), type = type, ...): unimplemented pch  
## value '28'

## Warning in plot.xy(xy.coords(x, y), type = type, ...): unimplemented pch  
## value '29'  
  
## Warning in plot.xy(xy.coords(x, y), type = type, ...): unimplemented pch  
## value '29'  
  
## Warning in plot.xy(xy.coords(x, y), type = type, ...): unimplemented pch  
## value '29'

## Warning in plot.xy(xy.coords(x, y), type = type, ...): unimplemented pch  
## value '30'  
  
## Warning in plot.xy(xy.coords(x, y), type = type, ...): unimplemented pch  
## value '30'

## Warning in plot.xy(xy.coords(x, y), type = type, ...): unimplemented pch  
## value '31'  
  
## Warning in plot.xy(xy.coords(x, y), type = type, ...): unimplemented pch  
## value '31'  
  
## Warning in plot.xy(xy.coords(x, y), type = type, ...): unimplemented pch  
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## value '31'  
  
## Warning in plot.xy(xy.coords(x, y), type = type, ...): unimplemented pch  
## value '31'

## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '256' is  
## invalid in this locale

## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '257' is  
## invalid in this locale  
  
## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '257' is  
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## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '258' is  
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## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '258' is  
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## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '259' is  
## invalid in this locale

## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '260' is  
## invalid in this locale

## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '261' is  
## invalid in this locale  
  
## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '261' is  
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## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '261' is  
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## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '261' is  
## invalid in this locale

## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '262' is  
## invalid in this locale

## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '263' is  
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## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '263' is  
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## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '263' is  
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## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '263' is  
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## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '263' is  
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## invalid in this locale

## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '264' is  
## invalid in this locale

## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '265' is  
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## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '266' is  
## invalid in this locale  
  
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## invalid in this locale

## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '267' is  
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## invalid in this locale  
  
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## invalid in this locale  
  
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## invalid in this locale

## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '268' is  
## invalid in this locale  
  
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## invalid in this locale  
  
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## invalid in this locale

## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '269' is  
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## invalid in this locale  
  
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## invalid in this locale  
  
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## invalid in this locale  
  
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## invalid in this locale

## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '270' is  
## invalid in this locale  
  
## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '270' is  
## invalid in this locale  
  
## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '270' is  
## invalid in this locale  
  
## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '270' is  
## invalid in this locale

## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '271' is  
## invalid in this locale  
  
## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '271' is  
## invalid in this locale

## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '272' is  
## invalid in this locale  
  
## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '272' is  
## invalid in this locale  
  
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## invalid in this locale  
  
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## invalid in this locale  
  
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## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '273' is  
## invalid in this locale  
  
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## invalid in this locale

## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '274' is  
## invalid in this locale  
  
## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '274' is  
## invalid in this locale  
  
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## invalid in this locale  
  
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## invalid in this locale

## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '275' is  
## invalid in this locale  
  
## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '275' is  
## invalid in this locale  
  
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## invalid in this locale  
  
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## invalid in this locale  
  
## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '275' is  
## invalid in this locale  
  
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## invalid in this locale  
  
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## invalid in this locale

## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '276' is  
## invalid in this locale  
  
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## invalid in this locale

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## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '278' is  
## invalid in this locale  
  
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## invalid in this locale

## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '279' is  
## invalid in this locale  
  
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## invalid in this locale  
  
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## invalid in this locale  
  
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## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '282' is  
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## invalid in this locale  
  
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## invalid in this locale  
  
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## invalid in this locale

## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '286' is  
## invalid in this locale  
  
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## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '289' is  
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## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '290' is  
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## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '291' is  
## invalid in this locale  
  
## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '291' is  
## invalid in this locale  
  
## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '291' is  
## invalid in this locale  
  
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## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '292' is  
## invalid in this locale  
  
## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '292' is  
## invalid in this locale  
  
## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '292' is  
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## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '293' is  
## invalid in this locale

## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '294' is  
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## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '294' is  
## invalid in this locale

## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '295' is  
## invalid in this locale  
  
## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '295' is  
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## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '296' is  
## invalid in this locale  
  
## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '296' is  
## invalid in this locale  
  
## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '296' is  
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## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '296' is  
## invalid in this locale

## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '297' is  
## invalid in this locale

## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '298' is  
## invalid in this locale

## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '299' is  
## invalid in this locale

## Warning in plot.xy(xy.coords(x, y), type = type, ...): pch value '300' is  
## invalid in this locale

## Warning in smoother(x, y, col = col[2], log.x = FALSE, log.y = FALSE,  
## spread = spread, : could not fit smooth

## Warning in diag.panel(...): cannot estimate density for group 600277343755724  
## Error in density.default(xx, adjust = adjust, na.rm = TRUE) :   
## need at least 2 points to select a bandwidth automatically

## Warning in diag.panel(...): cannot estimate density for group 600806612815944  
## Error in density.default(xx, adjust = adjust, na.rm = TRUE) :   
## need at least 2 points to select a bandwidth automatically

## Warning in diag.panel(...): cannot estimate density for group 602122476191954  
## Error in density.default(xx, adjust = adjust, na.rm = TRUE) :   
## need at least 2 points to select a bandwidth automatically

## Warning in diag.panel(...): cannot estimate density for group 602736717770156  
## Error in density.default(xx, adjust = adjust, na.rm = TRUE) :   
## need at least 2 points to select a bandwidth automatically

## Warning in diag.panel(...): cannot estimate density for group 604322058168646  
## Error in density.default(xx, adjust = adjust, na.rm = TRUE) :   
## need at least 2 points to select a bandwidth automatically

## Warning in diag.panel(...): cannot estimate density for group 605458214277035  
## Error in density.default(xx, adjust = adjust, na.rm = TRUE) :   
## need at least 2 points to select a bandwidth automatically

## Warning in diag.panel(...): cannot estimate density for group 607840807369573  
## Error in density.default(xx, adjust = adjust, na.rm = TRUE) :   
## need at least 2 points to select a bandwidth automatically

## Warning in diag.panel(...): cannot estimate density for group 607840817987033  
## Error in density.default(xx, adjust = adjust, na.rm = TRUE) :   
## need at least 2 points to select a bandwidth automatically

## Warning in diag.panel(...): cannot estimate density for group 608750852452962  
## Error in density.default(xx, adjust = adjust, na.rm = TRUE) :   
## need at least 2 points to select a bandwidth automatically

## Warning in diag.panel(...): cannot estimate density for group 609554166354176  
## Error in density.default(xx, adjust = adjust, na.rm = TRUE) :   
## need at least 2 points to select a bandwidth automatically

## Warning in diag.panel(...): cannot estimate density for group 609606418520710  
## Error in density.default(xx, adjust = adjust, na.rm = TRUE) :   
## need at least 2 points to select a bandwidth automatically

## Warning in diag.panel(...): cannot estimate density for group 609650266189543  
## Error in density.default(xx, adjust = adjust, na.rm = TRUE) :   
## need at least 2 points to select a bandwidth automatically

## Warning in diag.panel(...): cannot estimate density for group 609650309806111  
## Error in density.default(xx, adjust = adjust, na.rm = TRUE) :   
## need at least 2 points to select a bandwidth automatically

## Warning in diag.panel(...): cannot estimate density for group 609650315614382  
## Error in density.default(xx, adjust = adjust, na.rm = TRUE) :   
## need at least 2 points to select a bandwidth automatically

## Warning in diag.panel(...): cannot estimate density for group 609650317615065  
## Error in density.default(xx, adjust = adjust, na.rm = TRUE) :   
## need at least 2 points to select a bandwidth automatically

## Warning in diag.panel(...): cannot estimate density for group 609650366573078  
## Error in density.default(xx, adjust = adjust, na.rm = TRUE) :   
## need at least 2 points to select a bandwidth automatically

## Warning in diag.panel(...): cannot estimate density for group 609650384894637  
## Error in density.default(xx, adjust = adjust, na.rm = TRUE) :   
## need at least 2 points to select a bandwidth automatically

## Warning in diag.panel(...): cannot estimate density for group 609650421817516  
## Error in density.default(xx, adjust = adjust, na.rm = TRUE) :   
## need at least 2 points to select a bandwidth automatically

## Warning in diag.panel(...): cannot estimate density for group 609650428079611  
## Error in density.default(xx, adjust = adjust, na.rm = TRUE) :   
## need at least 2 points to select a bandwidth automatically

## Warning in diag.panel(...): cannot estimate density for group 609650434029651  
## Error in density.default(xx, adjust = adjust, na.rm = TRUE) :   
## need at least 2 points to select a bandwidth automatically

## Warning in diag.panel(...): cannot estimate density for group 609650437096526  
## Error in density.default(xx, adjust = adjust, na.rm = TRUE) :   
## need at least 2 points to select a bandwidth automatically

## Warning in diag.panel(...): cannot estimate density for group 609650504777912  
## Error in density.default(xx, adjust = adjust, na.rm = TRUE) :   
## need at least 2 points to select a bandwidth automatically

## Warning in diag.panel(...): cannot estimate density for group 609650544269802  
## Error in density.default(xx, adjust = adjust, na.rm = TRUE) :   
## need at least 2 points to select a bandwidth automatically

## Warning in diag.panel(...): cannot estimate density for group 609650559260243  
## Error in density.default(xx, adjust = adjust, na.rm = TRUE) :   
## need at least 2 points to select a bandwidth automatically

## Warning in diag.panel(...): cannot estimate density for group 609650581762266  
## Error in density.default(xx, adjust = adjust, na.rm = TRUE) :   
## need at least 2 points to select a bandwidth automatically

## Warning in diag.panel(...): cannot estimate density for group 609650585307711  
## Error in density.default(xx, adjust = adjust, na.rm = TRUE) :   
## need at least 2 points to select a bandwidth automatically

## Warning in diag.panel(...): cannot estimate density for group 609650586124761  
## Error in density.default(xx, adjust = adjust, na.rm = TRUE) :   
## need at least 2 points to select a bandwidth automatically

## Warning in diag.panel(...): cannot estimate density for group 609650594266323  
## Error in density.default(xx, adjust = adjust, na.rm = TRUE) :   
## need at least 2 points to select a bandwidth automatically

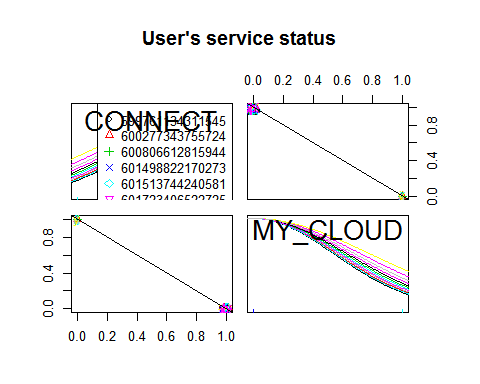
## Warning in diag.panel(...): cannot estimate density for group 609650616616512  
## Error in density.default(xx, adjust = adjust, na.rm = TRUE) :   
## need at least 2 points to select a bandwidth automatically

## Warning in diag.panel(...): cannot estimate density for group 609650641477410  
## Error in density.default(xx, adjust = adjust, na.rm = TRUE) :   
## need at least 2 points to select a bandwidth automatically

## Warning in diag.panel(...): cannot estimate density for group 609650644528766  
## Error in density.default(xx, adjust = adjust, na.rm = TRUE) :   
## need at least 2 points to select a bandwidth automatically

## Warning in diag.panel(...): cannot estimate density for group 609650654960420  
## Error in density.default(xx, adjust = adjust, na.rm = TRUE) :   
## need at least 2 points to select a bandwidth automatically

## Warning in diag.panel(...): cannot estimate density for group 609650660288024  
## Error in density.default(xx, adjust = adjust, na.rm = TRUE) :   
## need at least 2 points to select a bandwidth automatically

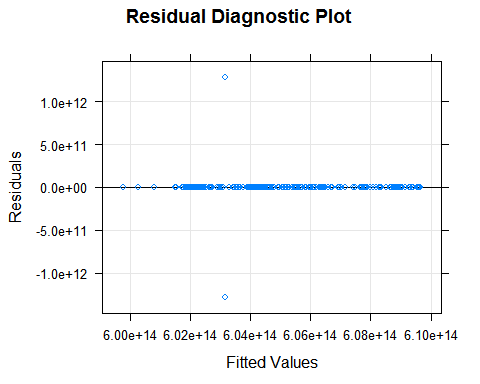
 #Data Modeling

con.mod1 = lm(UserID ~ Connect + Timestamp, data = rdata)  
summary(con.mod1)

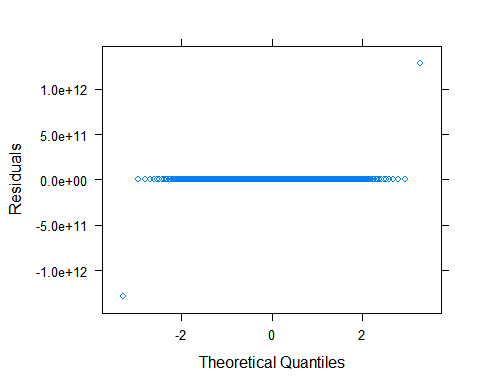
##   
## Call:  
## lm(formula = UserID ~ Connect + Timestamp, data = rdata)  
##   
## Residuals:  
## 1 2 3 4 5 6   
## 6.418e-09 9.343e-10 -1.433e-09 -7.600e-10 3.347e-10 8.706e-11   
## 7 8 9 10 11 12   
## 4.283e-10 -4.507e-10 2.774e-09 2.293e-11 -8.084e-10 -7.818e-10   
## 13 14 15 16 17 18   
## -8.202e-11 -6.283e-10 1.271e-09 -5.969e-11 -1.042e-09 2.065e-09   
## 19 20 21 22 23 24   
## 1.469e-10 -6.854e-10 -3.253e-10 3.457e-11 -2.644e-10 8.767e-10   
## 25 26 27 28 29 30   
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## 8.445e-09 4.291e-09 2.339e-10 3.002e-09 8.698e-11 6.319e-09   
## 919 920 921 922 923 924   
## -4.200e-10 -2.019e-08 -6.827e-09 1.942e-08 7.830e-10 4.391e-10   
## 925 926 927 928 929 930   
## -9.318e-09 9.753e-11 1.604e-08 -2.254e-09 -1.823e-10 9.082e-09   
## 931 932 933 934 935 936   
## -3.906e-09 -1.078e-08 -5.069e-11 3.495e-09 7.838e-10 1.578e-09   
## 937 938 939 940 941 942   
## -7.395e-09 -4.754e-09 -8.558e-09 1.045e-08 1.242e-08 -1.704e-10   
## 943 944 945 946 947 948   
## -1.556e-08 1.201e-08 -7.916e-09 -1.465e-09 2.148e-09 -1.006e-08   
## 949 950 951 952 953 954   
## -9.922e-08 -3.180e-06 1.770e-04 -1.148e-04 1.287e+12 -1.287e+12   
## 955 956 957 958 959 960   
## 2.310e-04 9.498e-08 7.842e-05 -4.365e-05 1.739e-05 -4.365e-05   
## 961 962 963 964 965 966   
## 1.739e-05 -4.365e-05 -4.365e-05 7.842e-05 1.739e-05 -1.047e-04   
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## 973 974 975 976 977 978   
## -4.365e-05 -1.047e-04 -1.657e-04 -4.365e-05 -4.365e-05 -1.047e-04   
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## -1.657e-04 -1.047e-04 -4.365e-05 -1.657e-04 -1.047e-04 -1.657e-04   
## 985 986 987 988 989 990   
## -2.268e-04 -2.268e-04 -2.268e-04 1.739e-05 -2.268e-04 -3.488e-04   
## 991 992 993 994 995 996   
## -2.268e-04 -4.709e-04 -3.488e-04 -2.268e-04 -1.047e-04 -2.268e-04   
## 997 998 999   
## -2.268e-04 5.022e-03 -2.268e-04   
##   
## Coefficients: (1 not defined because of singularities)  
## Estimate Std. Error t value  
## (Intercept) 6.097e+14 1.819e+12 335.072  
## Connect -3.746e+10 2.573e+12 -0.015  
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## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Residual standard error: 1.819e+12 on 1 degrees of freedom  
## Multiple R-squared: 0.9996, Adjusted R-squared: 0.6236   
## F-statistic: 2.658 on 997 and 1 DF, p-value: 0.4602

# Summary Description  
# The estimates for the model intercept is 6.097e+14 and the coefficient measuring the slope of the relationship with CONNECT status is -3.746e+10 and information about standard errors of these estimates is also provided in the Coefficients table. We see that the test of significance of the model coefficients is also summarised in that table so we can see that there is strong evidence that the coefficient is significantly different to zero – as the snout vent length increases so does the weight.

#A plot of the residuals against fitted values is used to determine whether there are any systematic patterns, such as over estimation for most of the large values or increasing spread as the model fitted values increase.  
xyplot(resid(con.mod1) ~ fitted(con.mod1),  
 xlab = "Fitted Values",  
 ylab = "Residuals",  
 main = "Residual Diagnostic Plot",  
 panel = function(x, y, ...)  
 {  
 panel.grid(h = -1, v = -1)  
 panel.abline(h = 0)  
 panel.xyplot(x, y, ...)  
 }  
)



#The plot is probably ok but there are more cases of positive residuals and when we consider a normal probability plot we see that there are some deficiencies with the model:  
#The function resid extracts the model residuals from the fitted model object. The plot is shown here:  
qqmath( ~ resid(con.mod1),  
 xlab = "Theoretical Quantiles",  
 ylab = "Residuals"  
)



## Logistic Regression Model

# Since most of the dependent data are binary i.e. 0 or 1, logistic regression model would be more fit

library(aod)

## Warning: package 'aod' was built under R version 3.2.5

library(ggplot2)

## Warning: package 'ggplot2' was built under R version 3.2.5

library(Rcpp)

# Previously we summarized the data set. Now to get the standard deviations, we use sapply to apply the sd function to manually observable variable in the dataset.  
sapply(rdata,sd)

## Warning in var(if (is.vector(x) || is.factor(x)) x else as.double(x), na.rm = na.rm): Calling var(x) on a factor x is deprecated and will become an error.  
## Use something like 'all(duplicated(x)[-1L])' to test for a constant vector.

## timeStamp epoch\_time   
## 2.884563e+02 2.464419e+02   
## UserID MY\_CLOUD   
## 2.965575e+12 9.453461e-02   
## CONNECT msisdn\_login\_submitted\_failed   
## 9.453461e-02 0.000000e+00   
## user\_activation\_submitted\_failed user\_allowed\_authorization   
## 4.472131e-02 4.817737e-01   
## email\_verification\_submitted email\_verification\_submitted\_failed   
## 9.453461e-02 5.474473e-02   
## msisdn\_register\_page msisdn\_register\_submitted\_failed   
## 2.052958e-01 0.000000e+00   
## msisdn\_register\_submitted email\_login\_submitted\_faile   
## 1.814074e-01 0.000000e+00   
## availability user\_denied\_authorization   
## 0.000000e+00 4.472131e-02   
## user\_succeeded\_authentication email\_login\_submitted   
## 4.826036e-01 2.948706e-01   
## msisdn\_login\_submitted new\_user\_created   
## 2.395622e-01 9.453461e-02   
## user\_activation\_submitted   
## 7.730405e-02

## two-way contingency table of categorical outcome and predictors  
## we want to make sure there are not 0 cells  
xtabs(~ UserID + CONNECT, data = rdata)

## CONNECT  
## UserID 0 1  
## 599761134311545 0 3  
## 600277343755724 1 0  
## 600806612815944 1 0  
## 601498822170273 0 4  
## 601513744240581 0 3  
## 601723406522725 0 7  
## 601752813145424 0 3  
## 601765083109497 0 5  
## 601765869808674 0 2  
## 601826154378586 0 7  
## 601828503389733 0 4  
## 601856097899879 0 5  
## 601861898207494 0 2  
## 601863661733649 0 5  
## 601864813926574 0 2  
## 601875168098674 0 3  
## 601877019282427 0 3  
## 601890445662670 0 3  
## 601900094858251 0 2  
## 601905284676111 0 2  
## 601905425887841 0 7  
## 601932200316345 0 3  
## 601948641552656 0 3  
## 601986032478873 0 9  
## 602010727383197 0 5  
## 602043232248922 0 10  
## 602080777230247 0 3  
## 602122476191954 1 0  
## 602153408062816 0 3  
## 602186071901471 0 2  
## 602198937870690 0 6  
## 602200548457002 0 5  
## 602253462749368 0 3  
## 602259479734728 0 2  
## 602298132347014 0 3  
## 602325760869610 0 8  
## 602330750877119 0 3  
## 602360040945143 0 3  
## 602365316252985 0 3  
## 602365597804868 0 3  
## 602366210810367 0 5  
## 602371208613829 0 2  
## 602404220010129 0 2  
## 602409914710203 0 2  
## 602440695993808 0 3  
## 602470412702659 0 5  
## 602513845777124 0 3  
## 602629979053752 0 2  
## 602674923124136 0 4  
## 602696847069072 0 2  
## 602736717770156 0 1  
## 602882193057488 0 5  
## 602960902102608 0 3  
## 602962097269113 0 3  
## 602963645642572 0 2  
## 603020868649485 0 3  
## 603021706277159 0 3  
## 603100687348479 0 2  
## 603281867716061 0 5  
## 603304528280604 0 3  
## 603412436003638 0 4  
## 603426581832847 0 6  
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## 603529061705397 0 2  
## 603539440768595 0 2  
## 603560643738678 0 3  
## 603638189692814 0 3  
## 603668948758771 0 3  
## 603752990793899 0 2  
## 603884894470695 0 3  
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## 603900329390296 0 5  
## 603905762429555 0 4  
## 603925048468073 0 5  
## 603929832479052 0 3  
## 603929947072050 0 3  
## 603933759385267 0 3  
## 603965420218614 0 3  
## 603973573599560 0 7  
## 603978038866086 0 3  
## 603996152121839 0 5  
## 603997188163581 0 2  
## 604032393511804 0 3  
## 604032715577728 0 2  
## 604077099705172 0 4  
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## 604482925231290 0 2  
## 604560925430225 0 2  
## 604582611593357 0 5  
## 604605004607443 0 2  
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## 604738444917002 0 2  
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