R version 3.2.2 (2015-08-14) -- "Fire Safety"

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Platform: x86\_64-apple-darwin13.4.0 (64-bit)

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Natural language support but running in an English locale

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Type 'demo()' for some demos, 'help()' for on-line help, or

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Type 'q()' to quit R.

[Workspace loaded from ~/.RData]

> setwd("/Users/Linkin/Desktop/Spring 2016/Math 336/Project")

> c4<-read.delim("ClientVitalStat1314.csv", header=TRUE, sep=",")

> c5<-read.delim("ClientVitalStat1415.csv", header=TRUE, sep=",")

>

> c6<-read.delim("ClientVitalStat1516.csv", header=TRUE, sep=",")

> View(c4)

> stc<-read.delim("STCClientVitalStat1214v2.csv", header=TRUE, sep=",")

> inds<-c4$LC3SAID

> inds<-union(inds,c5$LC3SAID)

> inds<-union(inds,c6$LC3SAID)

> inds<-union(inds,stc$LC3SAID)

> c4$entime<-strptime(c4$Enter, "%m/%d/%y")

> c4$extime<-strptime(c4$Exit, "%m/%d/%y")

> View(c4)

> View(stc)

> class("Mood.Behavior")

[1] "character"

> level("Mood.Behavior")

Error: could not find function "level"

> stc$sex<-sapply(stc$Sex,function(x){ifelse(x=="cf","F",ifelse(x=="Cf","F",ifelse(x=="F","F",ifelse(x=="f","F",ifelse(x=="cm","M",ifelse(x=="CM","M",ifelse(x=="m","M",ifelse(x=="M","M",NA))))))))})

> levels("Sex")

NULL

> levels(stc$sex)

NULL

> levels(as.factor(stc$sex))

[1] "F" "M"

> levels(as.factor(stc$Mood.Behavior))

[1] "" "n" "N" "N0" "no" "No" "yes" "Yes"

> > stc$mood.behavior<-sapply(stc$Mood.Behavior,function(x){ifelse(x=="no","N",ifelse(x=="n","N",ifelse(x=="No","N",ifelse(x=="N","N",ifelse(x=="y","Y",ifelse(x=="yes","Y",ifelse(x=="YES","Y",ifelse(x=="Y","Y",NA))))))))})

Error: unexpected '>' in ">"

> stc$mood.behavior<-sapply(stc$Mood.Behavior,function(x){ifelse(x=="no","N",ifelse(x=="n","N",ifelse(x=="No","N",ifelse(x=="N","N",ifelse(x=="y","Y",ifelse(x=="yes","Y",ifelse(x=="YES","Y",ifelse(x=="Y","Y",NA))))))))})

> levels(as.factor(stc$Mood.Behavior))

[1] "" "n" "N" "N0" "no" "No" "yes" "Yes"

> levels(as.factor(stc$mood.behavior))

[1] "N" "Y"

> Table1 <-table(stc$mood.behavior,stc$sex)

> Table1

F M

N 70 37

Y 14 4

> mosaicplot(Table1)

> table(stc$mood.behavior,stc$sex)

F M

N 70 37

Y 14 4

> class(stc$sex)

[1] "character"

> class(stc$mood.behavior)

[1] "character"

> levels(as.factor(stc$sex))

[1] "F" "M"

> table(as.factor(stc$mood.behavior),as.factor(stc$sex))

F M

N 70 37

Y 14 4

> table(as.factor(stc$Mood.Behavior),as.factor(stc$Sex))

F m M

7 0 0 1

n 0 0 0 1

N 0 6 0 2

N0 0 1 0 0

no 0 39 0 22

No 0 25 1 11

yes 0 14 0 4

Yes 0 3 0 0

> help.mosaicplot

Error: object 'help.mosaicplot' not found

> mosicplot(Table1,beside=T)

Error: could not find function "mosicplot"

> mosaicplot(Table1,beside=T)

Warning message:

In mosaicplot.default(Table1, beside = T) :

extra argument ‘beside’ will be disregarded

> mosaicplot(Table1,color=NULL,shade=FALSE)

> mosaicplot(Table1,color=TRUE)

> mosaicplot(Table1,color=NULL,shade=FALSE)

> mosaicplot(Table1,color=TRUE,shade=FALSE)

> mosaicplot(Table1,color=TRUE,shade=FALSE,xlab="Mood/Behavior",ylab="Sex")

> mosaicplot(Table1,color=TRUE,xlab="Mood/Behavior",ylab="Sex")

> mosaicplot(Table1,col=c(2,4),xlab="Mood/Behavior",ylab="Sex")

> mosaicplot(Table1,col=c(2,3),xlab="Mood/Behavior",ylab="Sex")

> mosaicplot(Table1,col=c(5,3),xlab="Mood/Behavior",ylab="Sex")

> mosaicplot(Table1,col=c(2,3,4,5),xlab="Mood/Behavior",ylab="Sex")

> mosaicplot(Table1,col=c(3,4),xlab="Mood/Behavior",ylab="Sex")

> mosaicplot(Table1,col=c(4,3),xlab="Mood/Behavior",ylab="Sex")

> mosaicplot(Table1,col=c(4,5),xlab="Mood/Behavior",ylab="Sex")

> stc$mood.behavior<-sapply(stc$Mood.Behavior,function(x){ifelse(x=="no","NO",ifelse(x=="n","N0",ifelse(x=="N","NO",ifelse(x=="NO","NO",ifelse(x=="y","YES",ifelse(x=="yes","YES",ifelse(x=="Y","YES",ifelse(x=="YES","YES",NA))))))))})

> levels(as.factor(stc$mood.behavior))

[1] "N0" "NO" "YES"

> stc$mood.behavior<-sapply(stc$Mood.Behavior,function(x){ifelse(x=="no","NO",ifelse(x=="n","NO",ifelse(x=="N","NO",ifelse(x=="NO","NO",ifelse(x=="y","YES",ifelse(x=="yes","YES",ifelse(x=="Y","YES",ifelse(x=="YES","YES",NA))))))))})

> levels(as.factor(stc$mood.behavior))

[1] "NO" "YES"

> table(stc$mood.behavior,stc$sex)

F M

NO 45 25

YES 14 4

> mosaicplot(Table1,col=c(4,5),xlab="Mood/Behavior",ylab="Sex")

> Table1 <-table(stc$mood.behavior,stc$sex)

> mosaicplot(Table1,col=c(4,5),xlab="Mood/Behavior",ylab="Sex")

> mosaicplot(Table1,col=c(4,5),main="Mosaic Plots of Mood/Behavioral change for males/females"xlab="Mood/Behavior",ylab="Sex")

Error: unexpected symbol in "mosaicplot(Table1,col=c(4,5),main="Mosaic Plots of Mood/Behavioral change for males/females"xlab"

> mosaicplot(Table1,col=c(4,5),main="Mosaic Plots of Mood/Behavioral change for males/females", xlab="Mood/Behavior",ylab="Sex")

> mosaicplot(Table1,col=c(4,5),main="Mosaic Plot of Mood/Behavioral of males/females", xlab="Mood/Behavior",ylab="Sex")

> mosaicplot(Table1,col=c(4,5),main="Mosaic Plot of Mood/Behavioral for M/F", xlab="Mood/Behavior",ylab="Sex")

> mosaicplot(Table1,col=c(4,5),main="Mosaic Plot of Mood/Behavioral Change For Genders", xlab="Mood/Behavior",ylab="Sex")

>

> data3[is.na(data3$daysofcare),]

sex daysofcare

131 <NA> NA

132 <NA> NA

133 <NA> NA

134 <NA> NA

135 <NA> NA

136 <NA> NA

137 <NA> NA

> data3<-data3[!is.na(data3$daysofcare),]

> save(data3,file="Gender and days of care.RData")

or

data4<-na.omit(data4)

scatter plot length vs age

plot(length$age,length$lengthofservice,xlab="AGE",ylab="Length of Services",main="Scatter plot of length of services vs age")

> abline(lm(length$lengthofservice[length$sex=="M"]~length$age[length$sex=="M"]),col="blue")

> abline(lm(length$lengthofservice[length$sex=="F"]~length$age[length$sex=="F"]),col="red")

> abline(lm(length$lengthofservice~length$age))

t test

t.test(length$lengthofservice[length$sex=="M"],length$lengthofservice[length$sex=="F"],alternative="less",conf.level=0.95)

For female

plot(length$age[length$sex=="F"],length$lengthofservice[length$sex=="F"],xlab="AGE",ylab="Length of Services",main="Scatter plot of length of services vs age (F)")

abline(lm(length$lengthofservice[length$sex=="F"]~length$age[length$sex=="F"]))

Days of care per week

histogram:

hist(length$lengthofservice,breaks=c(0,500,1000,1500,2000,2500,3000,3500,4000),main="Histogram of Length of services",xlab="length of services")

scatter plot

male

plot(days$age[days$sex=="M"],days$daysofcare[days$sex=="M"],xlab="AGE",ylab="Days per week attend",main="Scatter plot of days per week attend vs age (M)")

female

total

plot(days$age,days$daysofcare,xlab="AGE",ylab="Days per week attend",main="Scatter plot of days per week attend vs age")

* abline(lm(days$daysofcare~days$age))

abline(lm(days$daysofcare[days$sex=="M"]~days$age[days$sex=="M"]),col="blue")

number of caregives

hist(caregivers$numofcaregivers,breaks=c(0,1,2,3,4),main="Histogram of number of care givers",xlab="number of care givers",col="grey")

> plot(caregivers$age,caregivers$numofcaregivers,xlab="AGE",ylab="number of care givers",main="Scatter plot of number of caregivers vs age")

>

abline(lm(caregivers$numofcaregivers[caregivers$sex=="M"]~caregivers$age[caregivers$sex=="M"]),col="blue")

>

abline(lm(caregivers$numofcaregivers[caregivers$sex=="F"]~caregivers$age[caregivers$sex=="F"]),col="red")

* abline(lm(caregivers$numofcaregivers~caregivers$age))

Replace NA by a new number

na.omit(stc$Number.of.care.givers)

> stc$Number.of.care.givers

> test<-stc

> stc1<-stc

> stc2<-stc

> test<-stc$Number.of.care.givers

> is.na(test)

> which(is.na(test))

> test[which(is.na(test))]<-0

> care<-data.frame(age,s,test)

> save(care,file="number of caregiver.RData")

Save:

grades<-na.omit(care)

care<-grades