#Class\_3\_R\_scripts

#Testing the presence of Missing Values

y<-c(1,2,3,NA)

is.na(y)

#Reads the data using a mm/dd/yyyy format

strDates<-c("01/09/1965", "08/16/1975")

dates<-as.Date(strDates, "%m/%d/%Y")

dates

#ggplot2 example

install.packages("ggplot2")

library(ggplot2)

facebookdata<-read.delim("FacebookNarcissism.dat", header=TRUE)

head(facebookdata)

#graphing the relationship between narcissism and the profile rating

graph<-ggplot(facebookdata, aes(NPQC\_R\_Total, Rating))

graph + geom\_point(shape=17)

graph + geom\_point(aes(colour=Rating\_Type))

#graphing the relationship between Anxiety and Exam using scatter plot

examdata<-read.delim("Exam Anxiety.dat", header = TRUE)

head(examdata)

scatter<-ggplot(examdata, aes(Anxiety, Exam))

scatter +geom\_point() +geom\_smooth(method="lm", colour = "Red") +labs(x="Exam Anxiety", y="Exam Performance %")

#Boxplot of hygiene scores on day 1 of the Download Festival split by gender

festivalData<-read.delim("DownloadFestival.dat", header =TRUE)

head(festivalData)

festivalBoxplot<- ggplot(festivalData, aes(gender, day1))

festivalBoxplot + geom\_boxplot() +labs(x="Gender", y="Hygiene (Day 1 of Festival)")

#Bar chart for one independent variable

chickflick<-read.delim("ChickFlick.dat", header=TRUE)

head(chickflick)

bar<-ggplot(chickflick, aes(film, arousal))

bar + stat\_summary(fun.y = mean, geom = "bar", fill = "White", colour = "Black") + stat\_summary(fun.data = mean\_cl\_normal, geom = "pointrange") + labs(x = "Film", y = "Mean Arousal")

#Bar chart for two independent variables

bar <- ggplot(chickflick, aes(film, arousal, fill = gender))

bar + stat\_summary(fun.y = mean, geom = "bar", position="dodge") + stat\_summary(fun.data = mean\_cl\_normal, geom = "errorbar", position = position\_dodge(width = 0.90), width = 0.2) + labs(x = "Film", y = "Mean Arousal", fill = "Gender")