Super awesome relationships of random things between students

classdata <- read.csv("student\_data/classdata.csv")  
library(plotrix)

## Warning: package 'plotrix' was built under R version 3.4.3

## R Markdown

This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see <http://rmarkdown.rstudio.com>.

When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

instasnapcols <- c("coral3", "cadetblue4")  
instasnap <- classdata[classdata$instagram >0 & classdata$snapchat >0,  
 c("snapchat", "instagram", "bae\_in\_class")]  
yesbae <- instasnap[instasnap$bae\_in\_class == "yes",  
 c("snapchat", "instagram", "bae\_in\_class")]  
nobae <- instasnap[instasnap$bae\_in\_class == "no",  
 c("snapchat", "instagram", "bae\_in\_class")]  
yesmodel <- lm(snapchat ~ instagram, data=yesbae)  
nomodel <- lm(snapchat ~ instagram, data=nobae)  
  
par(mar=c(4,4,1,1), cex.axis=0.75, cex.lab=1, mgp=c(2,1,0))  
plot(snapchat ~ instagram, data=instasnap,  
 ylab="Snapchat (visits per day)", xlab="Instagram (visits per day)", type='n')  
points(snapchat ~ instagram, data=instasnap, cex=1.5, pch=21, bg=instasnapcols[bae\_in\_class])  
ablineclip(yesmodel, x1=min(yesbae$instagram), x2=max(yesbae$instagram), lty=2, lwd=1.5, col="cadetblue4")  
ablineclip(nomodel, x1=min(nobae$instagram), x2=max(nobae$instagram), lty=2, lwd=1.5, col="coral3")  
legend("bottomright", levels(instasnap$bae\_in\_class), pch=21, inset=0.01, pt.bg=instasnapcols,  
 title="Bae in Class")

