```
#### Apriori
library(arules)
fp.df <- read.csv("Faceplate.csv")</pre>
#fp.df<- read.csv(file.choose(), header= T)</pre>
# remove first column and convert to matrix
fp.mat <- as.matrix(fp.df[-1])</pre>
# convert the binary incidence matrix into a transactions database
fp.trans <- as(fp.mat, "transactions")</pre>
inspect(fp.trans)
## get rules
# when running apriori(), include the minimum support, minimum confidence, and target
# as arguments.
rules <- apriori(fp.trans, parameter = list(supp = 0.6, conf = 0.5, target = "rules"))
# inspect the first six rules, sorted by their lift
inspect(head(sort(rules, by = "lift"), n = 6))
inspect((sort(rules, by = "lift")))
all.books.df <- read.csv("CharlesBookClub.csv")</pre>
#all.books.df<- read.csv(file.choose(), header= T)</pre>
# create a binary incidence matrix
count.books.df <- all.books.df[, 8:18]</pre>
incid.books.df <- ifelse(count.books.df > 0, 1, 0)
incid.books.mat <- as.matrix(incid.books.df[, -1])</pre>
# convert the binary incidence matrix into a transactions database
books.trans <- as(incid.books.mat, "transactions")</pre>
inspect(books.trans)
# plot data
itemFrequencyPlot(books.trans)
# run apriori function
rules <- apriori (books.trans,
                  parameter = list(supp= 200/4000, conf = 0.5, target = "rules"))
summary(rules)
# inspect rules
inspect(sort(rules, by = "lift"))
```