```r
library(arules)
library(arulesviz)
str(Groceries)
inspect(Groceries)
#read.transcations(file.choose())

?apriori
gr_rules <-apriori(Groceries,parameter = list(supp = .001,conf = .8))

inspect(gr_rules[1:5])

inspect(gr_rules[1:10])

gr_rules<-sort(gr_rules, by = "support" , decreasing = T)
inspect(gr_rules[1:10])
#duplicate rule
gr_rules
redundant_rules <- is.redundant(gr_rules)
redundant_rules
summary(redundant_rules ) #true = duplicate rule
gr_rules <- gr_rules[!redundant_rules]
gr_rules

inspect(gr_rules[1:5])
gr_rules_beer <- apriori(Groceries, parameter = list(supp = .0001 , conf = .08),appearance =
list(default = "rhs", lhs = "bottled beer"))

inspect(gr_rules_beer[1:10])

plot(gr_rules, method = "graph", interactive = T)
```