## Indicator Example Code

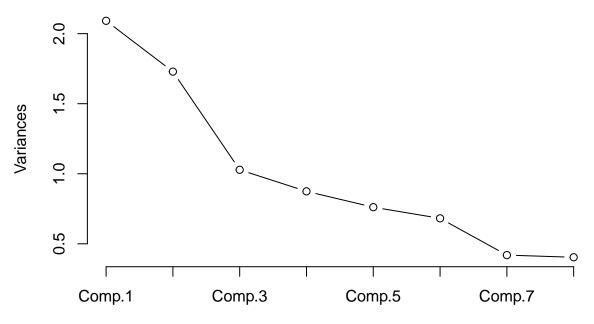
Ben Straub 3/19/2017

```
library(data.table)
# set the working directory
# comma delimited data and no header for each variable
RawData <- fread("http://mlearn.ics.uci.edu/databases/pima-indians-diabetes/pima-indians-diabetes.data"
RawData <- as.data.frame(RawData)
#In Raw Data, the response variable is its last column;
#and the remaining columns are the predictor variables.

responseY <- RawData[9]
predictorX <- RawData[,1:8]

pc.comp <- princomp(scale(predictorX))
screeplot(pc.comp, type="line")</pre>
```

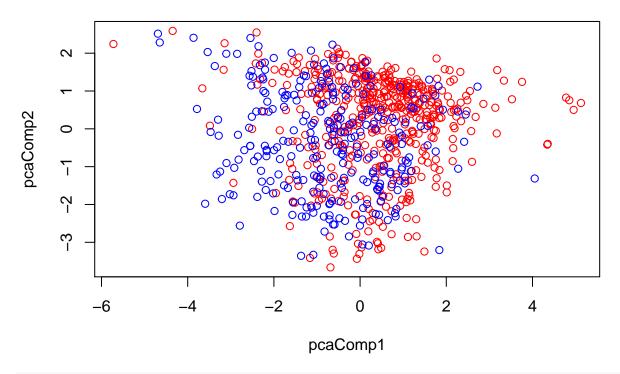
## pc.comp



```
pc.comp <- princomp(scale(predictorX))$scores
pc.comp1 <- pc.comp[,1]
pc.comp2 <- pc.comp[,2]
X <- cbind(1,pc.comp1, pc.comp2)

class1 <- which(responseY==0)
class2 <- which(responseY==1)
Y <- matrix(0,dim(responseY)[1],2)
Y[class2,1] <- 1
Y[class1,2] <- 1</pre>
```

## scatter plot



View(RawData)