4FoldsExample.r

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```
setwd("C:/Users/Tony/Dropbox/Rowan/DM2")
names1=read.csv("names.csv",header=T,stringsAsFactors=T)
names1
```

```
##       name
## 1      sue
## 2      joe
## 3      bob
## 4      sam
## 5   joanne
## 6      ant
## 7   taylor
## 8     eric
## 9    tyler
## 10    emma
## 11     pat
## 12 justine
```

```
## Randomize rows of names1
names1R<-names1[sample(nrow(names1)),1]
folds <- cut(seq(1,nrow(names1)),breaks=4,labels=FALSE)
df <- data.frame(folds,names1R)
df
```

```
##    folds names1R
## 1      1   tyler
## 2      1    eric
## 3      1     pat
## 4      2    emma
## 5      2     sue
## 6      2     joe
## 7      3  joanne
## 8      3  taylor
## 9      3     ant
## 10     4     bob
## 11     4 justine
## 12     4     sam
```

```
for(i in 1:4){
  #Segement your data by fold using the which() function
  testIndexes <- which(folds==i,arr.ind=TRUE)
  testData <- df[testIndexes, ]
  trainData <- df[-testIndexes, ]
  #Use the test and train data partitions however you desire...
  #We'll print them here, but we will generally use them to train and test models
  print(testData)
  print(trainData)
}
```

```
##   folds names1R
## 1     1   tyler
## 2     1    eric
## 3     1     pat
##    folds names1R
## 4      2    emma
## 5      2     sue
## 6      2     joe
## 7      3  joanne
## 8      3  taylor
## 9      3     ant
## 10     4     bob
## 11     4 justine
## 12     4     sam
##   folds names1R
## 4     2    emma
## 5     2     sue
## 6     2     joe
##    folds names1R
## 1      1   tyler
## 2      1    eric
## 3      1     pat
## 7      3  joanne
## 8      3  taylor
## 9      3     ant
## 10     4     bob
## 11     4 justine
## 12     4     sam
##   folds names1R
## 7     3  joanne
## 8     3  taylor
## 9     3     ant
##    folds names1R
## 1      1   tyler
## 2      1    eric
## 3      1     pat
## 4      2    emma
## 5      2     sue
## 6      2     joe
## 10     4     bob
## 11     4 justine
## 12     4     sam
##    folds names1R
## 10     4     bob
## 11     4 justine
## 12     4     sam
##   folds names1R
## 1     1   tyler
## 2     1    eric
## 3     1     pat
## 4     2    emma
## 5     2     sue
## 6     2     joe
## 7     3  joanne
```

```
## 8     3  taylor
## 9     3     ant
```