RANDOM FOREST DATASET FLAG

```
32
33  library(randomForest)
34  library(caret)
35  library(psych)
36
37  data <- read.csv("C:/Users/ACER/Downloads/flag.txt")
38  head(data)
39
40  for(i in names(data)){
41    data[,i]=as.factor(data[,i])
42  }
43  str(data)
44
45
```

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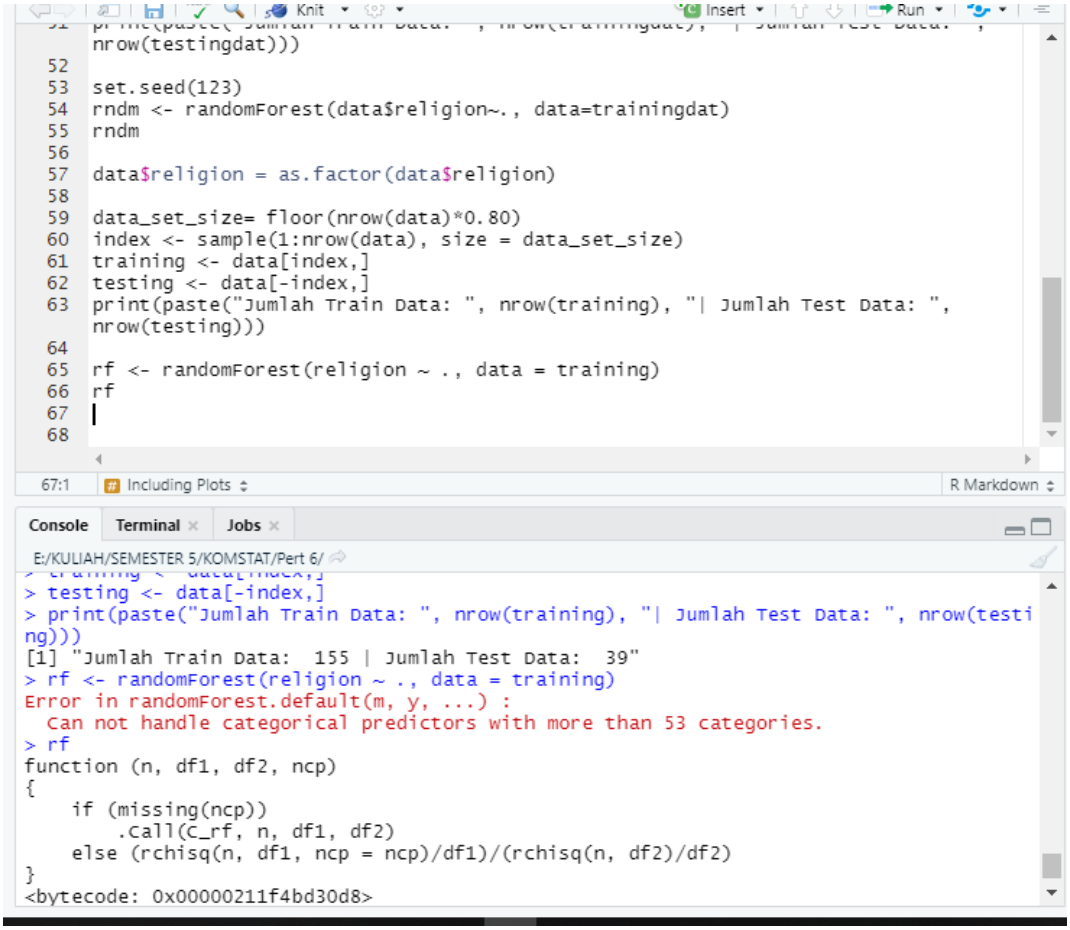
```
  colours red green blue gold white black orange mainhue circles crosses saltires
1       5   1     1    0    1     1     1      0   green       0       0         0
2       3   1     0    0    1     0     1      0     red       0       0         0
3       3   1     1    0    0     1     0      0   green       0       0         0
4       5   1     0    1    1     1     0      1    blue       0       0         0
5       3   1     0    1    1     0     0      0    gold       0       0         0
6       3   1     0    0    1     0     1      0     red       0       0         0
  quarters sunstars crescent triangle icon animate text topleft botright
1        0        1        0        0    1       0    0   black    green
2        0        1        0        0    0       1    0     red      red
3        0        1        1        0    0       0    0   green    white
4        0        0        0        1    1       1    0    blue      red
5        0        0        0        0    0       0    0    blue      red
6        0        1        0        0    1       0    0     red    black
> |
```


Knit
Insert
Run
nrow(testingdat)))
set.seed(123)
rndm <- randomForest(data$religion~., data=trainingdat)
rndm
data$religion = as.factor(data$religion)
data_set_size= floor(nrow(data)*0.80)
index <- sample(1:nrow(data), size = data_set_size)
training <- data[index,]
testing <- data[-index,]
print(paste("Jumlah Train Data: ", nrow(training), "| Jumlah Test Data: ", nrow(testing)))
rf <- randomForest(religion ~ ., data = training)
rf
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> testing <- data[-index,]
> print(paste("Jumlah Train Data: ", nrow(training), "| Jumlah Test Data: ", nrow(testing)))
[1] "Jumlah Train Data: 155 | Jumlah Test Data: 39"
> rf <- randomForest(religion ~ ., data = training)
Error in randomForest.default(m, y, ...) :
  Can not handle categorical predictors with more than 53 categories.
> rf
function (n, df1, df2, ncp)
{
    if (missing(ncp))
        .Call(C_rf, n, df1, df2)
    else (rchisq(n, df1, ncp = ncp)/df1)/(rchisq(n, df2)/df2)
}
<bytecode: 0x00000211f4bd30d8>