

# PredMachLearn - Exploratory Plots

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## Exploratory Pairs Plots

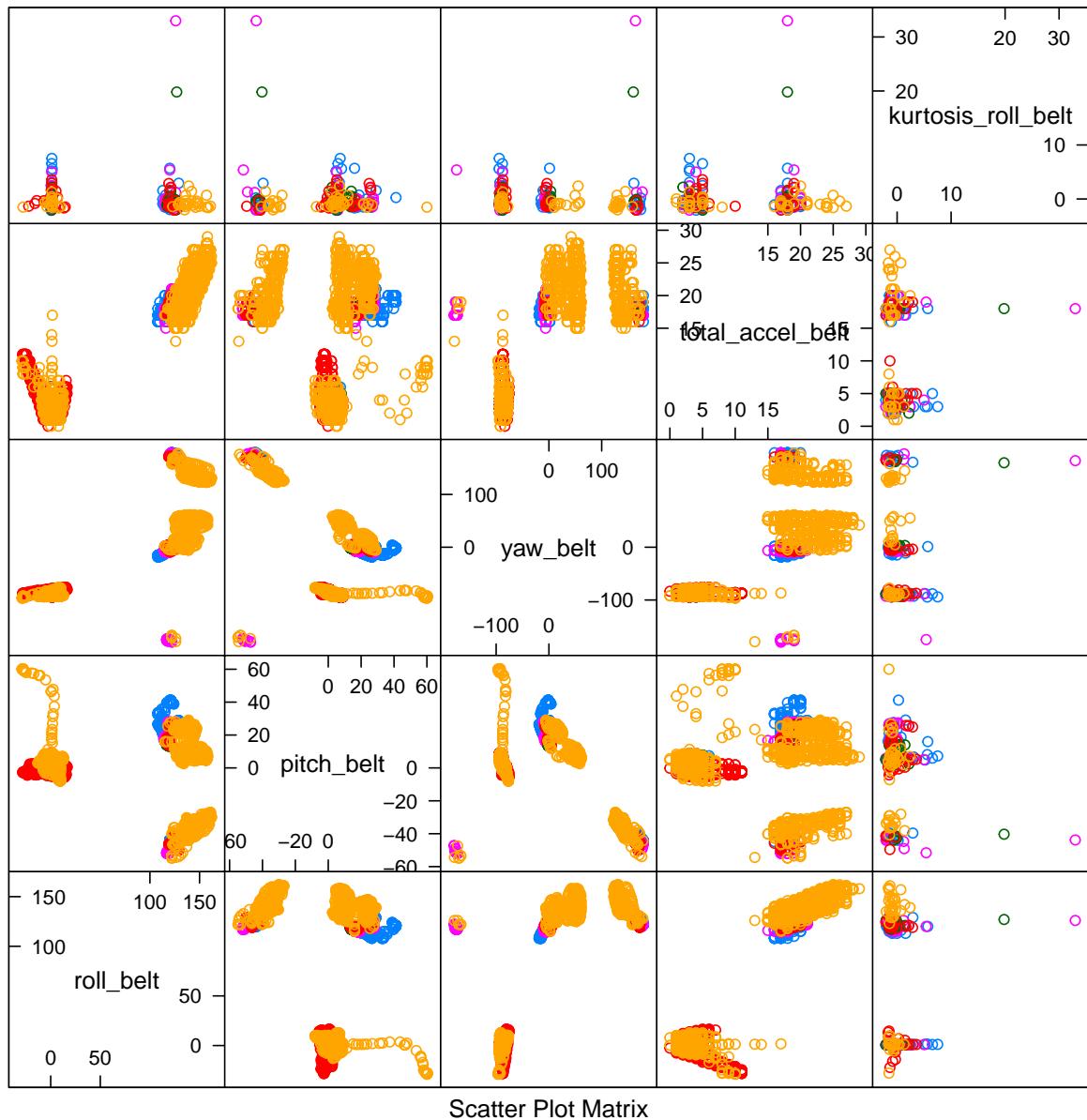
```
modelTrain <- read.table("modelTrain.csv", header = TRUE, sep = ",", dec = ".", na.strings = "NA", strip.white = TRUE)

modelTrain$classe <- as.factor(modelTrain$classe)

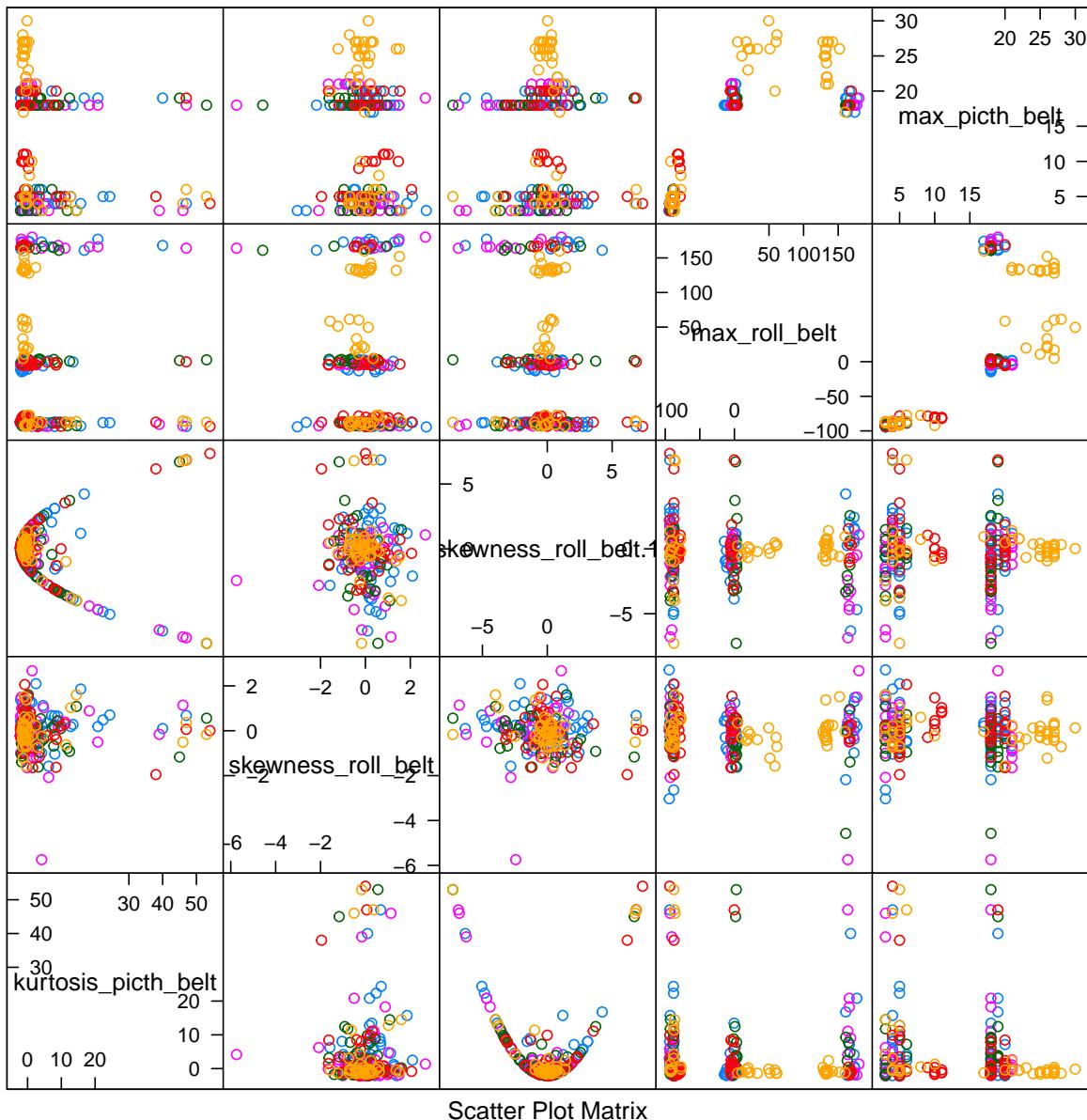
library(caret)

## Loading required package: lattice
## Loading required package: ggplot2

featurePlot(x = modelTrain[, 1:5], y = modelTrain$classe, plot = "pairs")
```

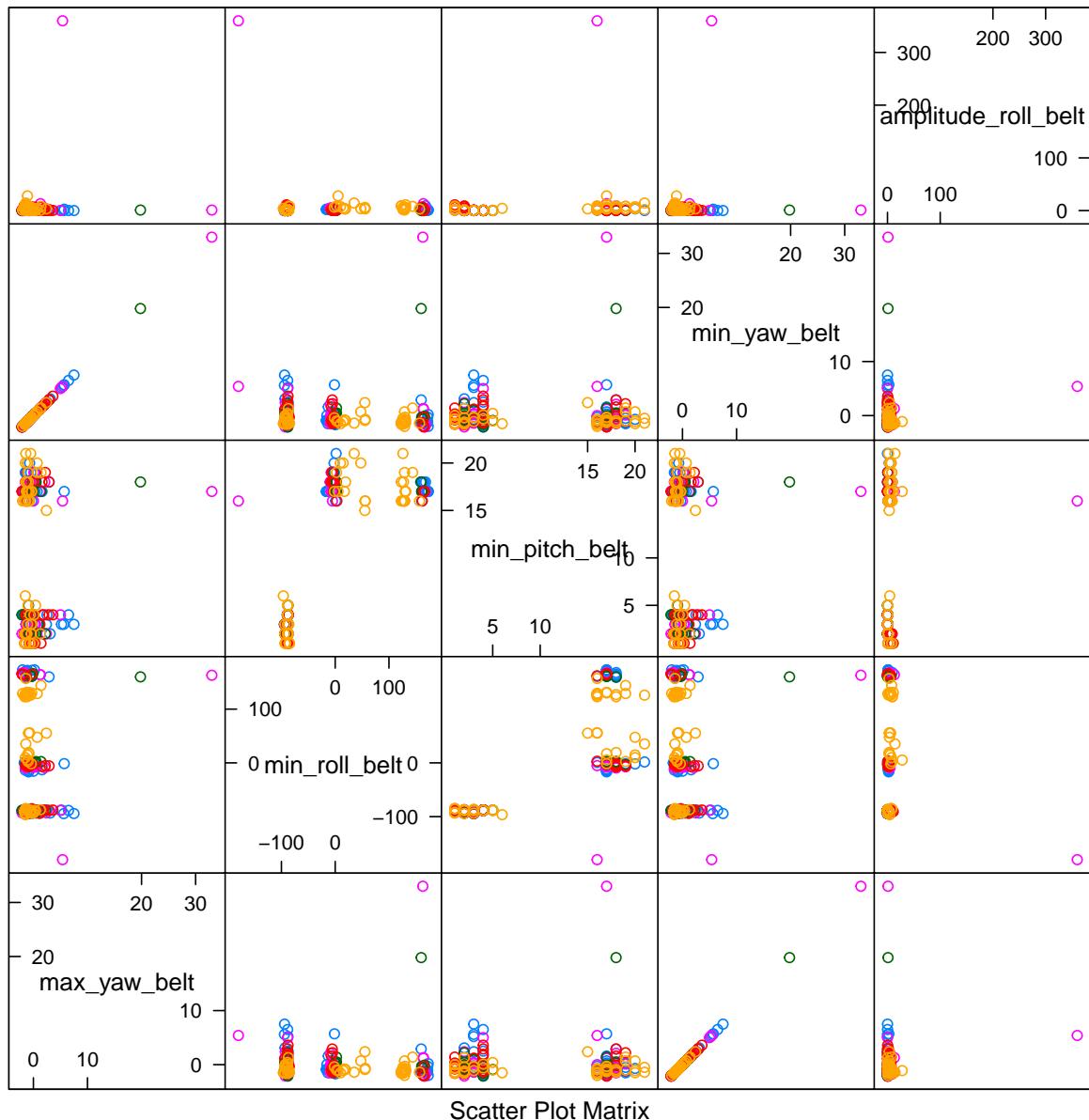


```
featurePlot(x = modelTrain[, 6:10], y = modelTrain$classe, plot = "pairs")
```

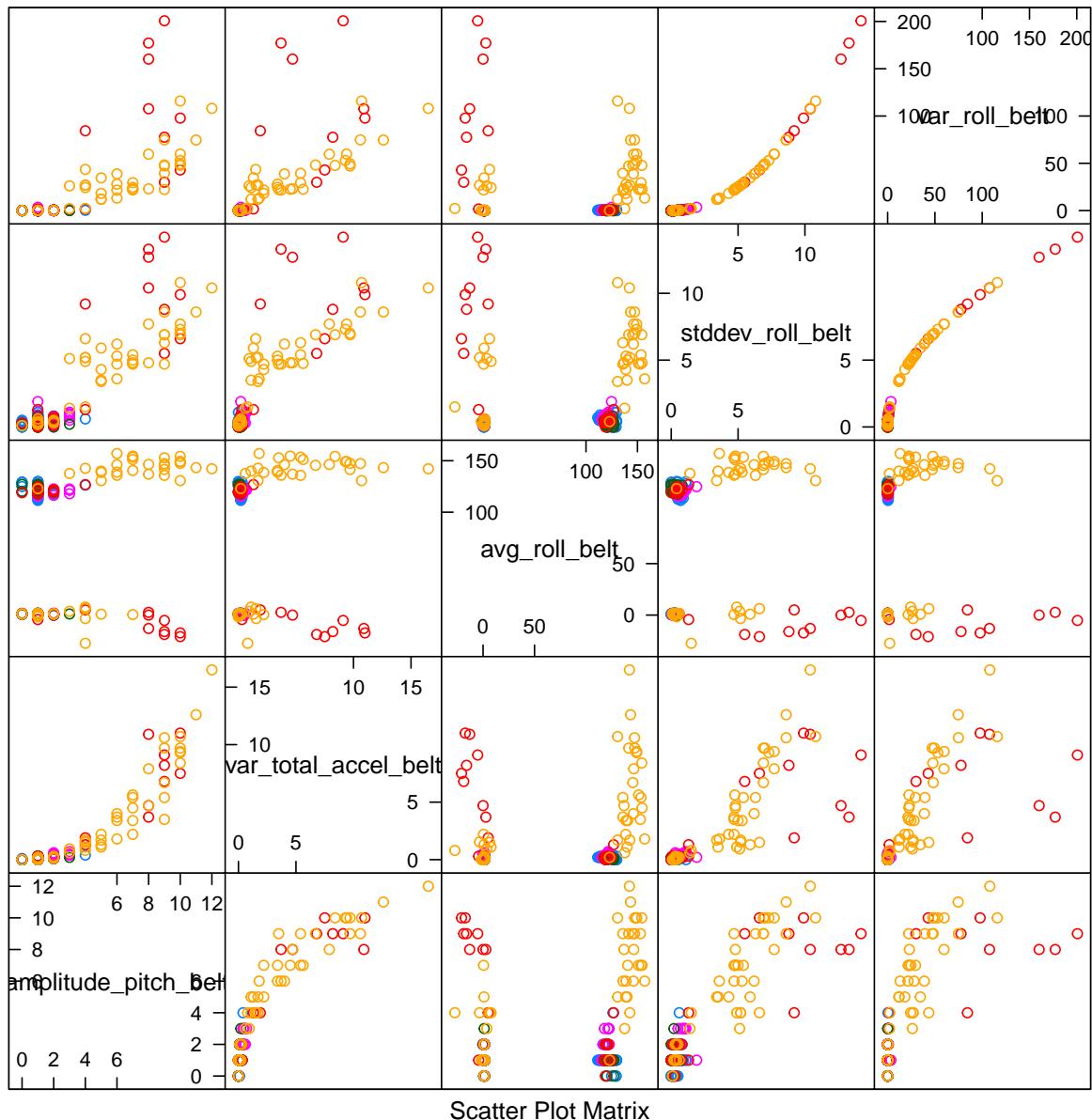


Scatter Plot Matrix

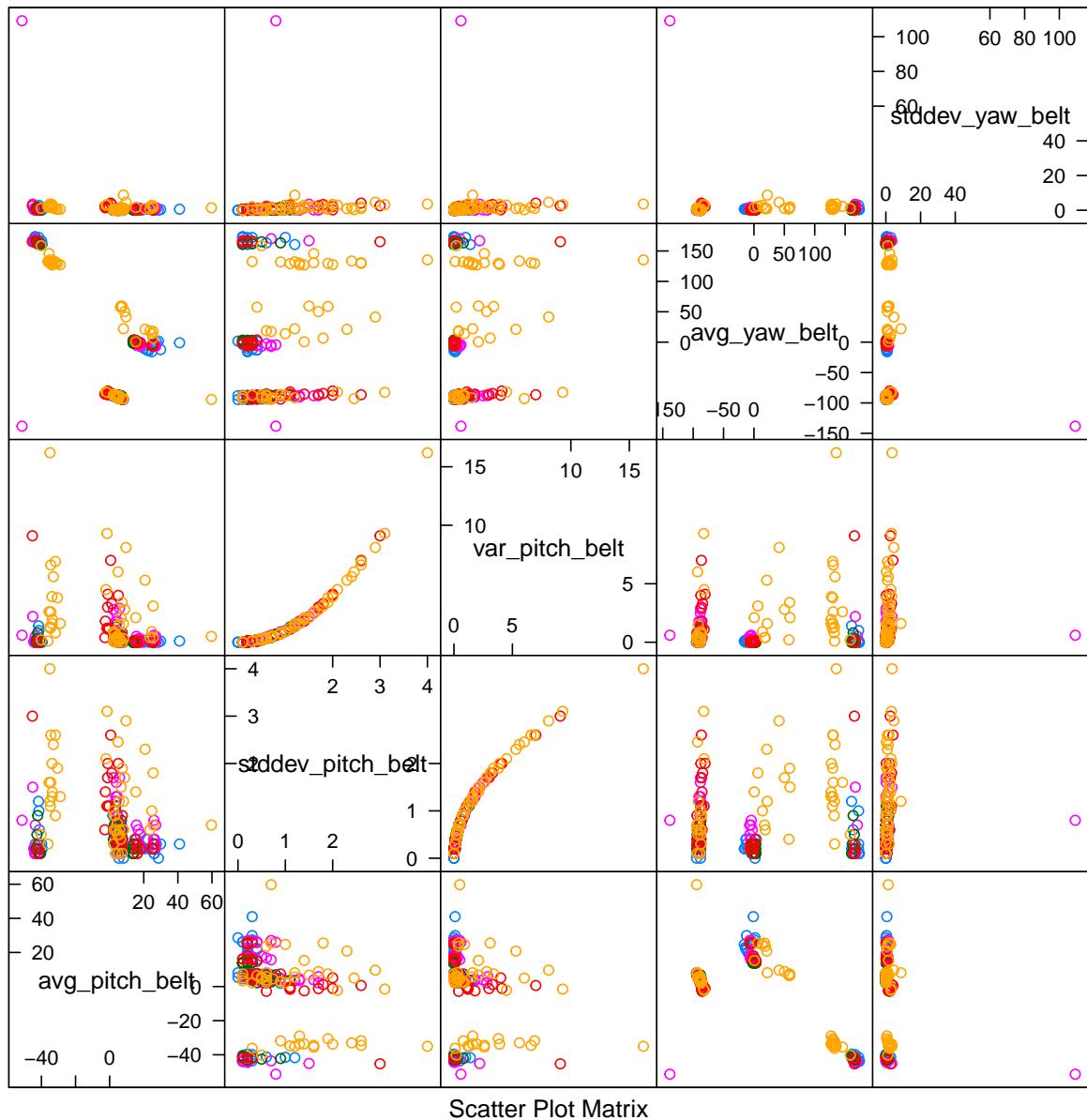
```
featurePlot(x = modelTrain[, 11:15], y = modelTrain$classe, plot = "pairs")
```



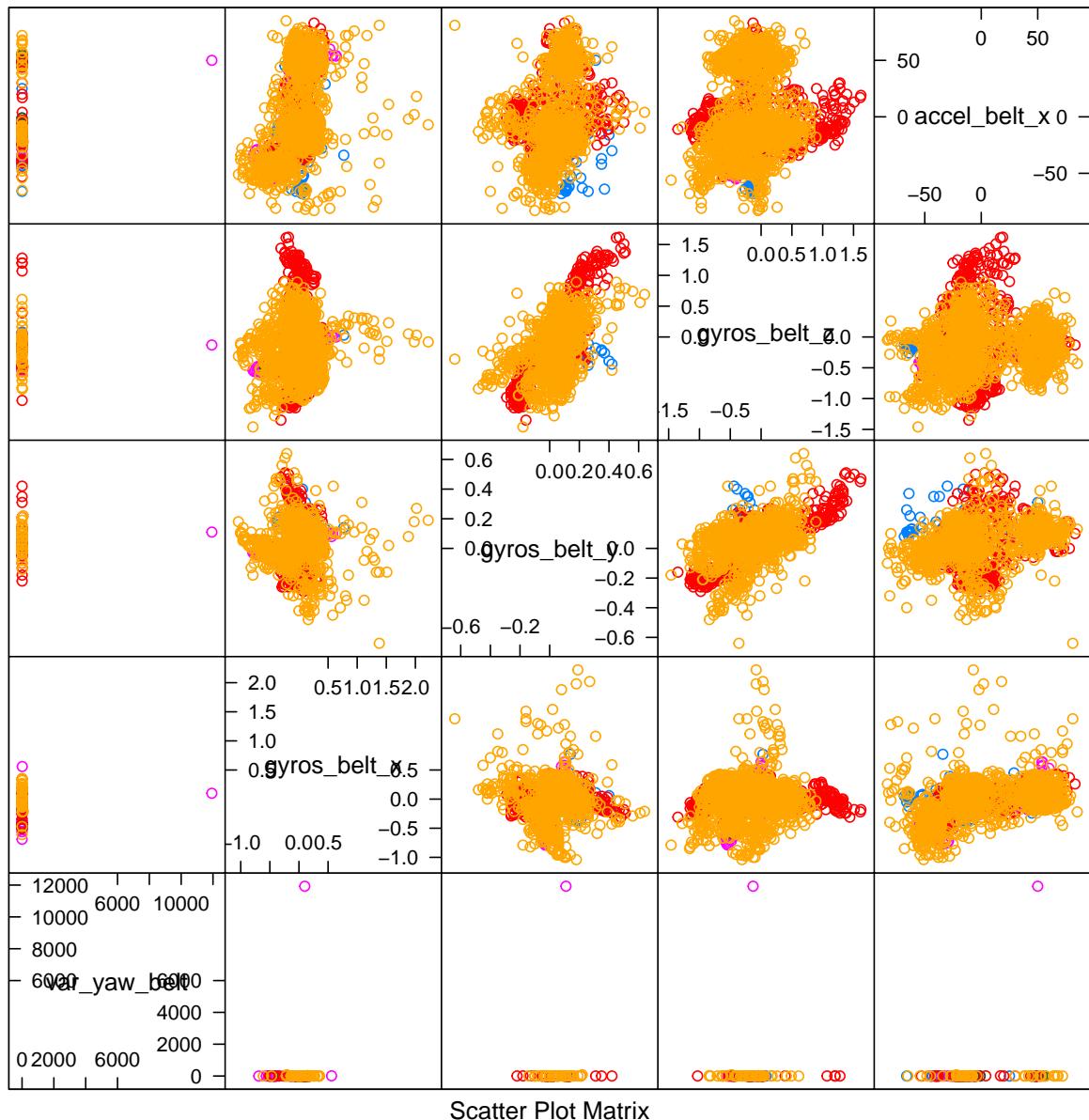
```
featurePlot(x = modelTrain[, 16:20], y = modelTrain$classe, plot = "pairs")
```



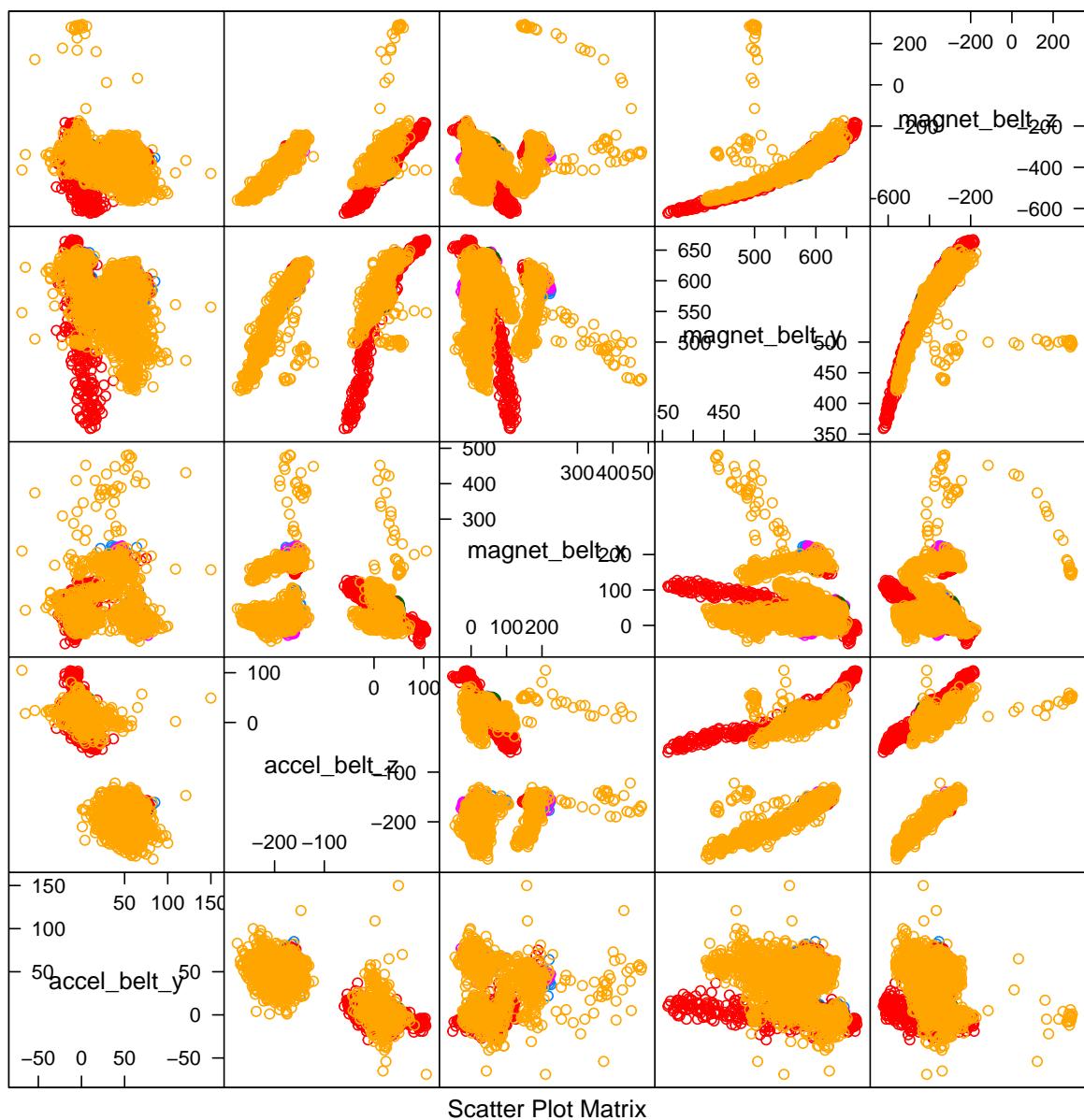
```
featurePlot(x = modelTrain[, 21:25], y = modelTrain$classe, plot = "pairs")
```



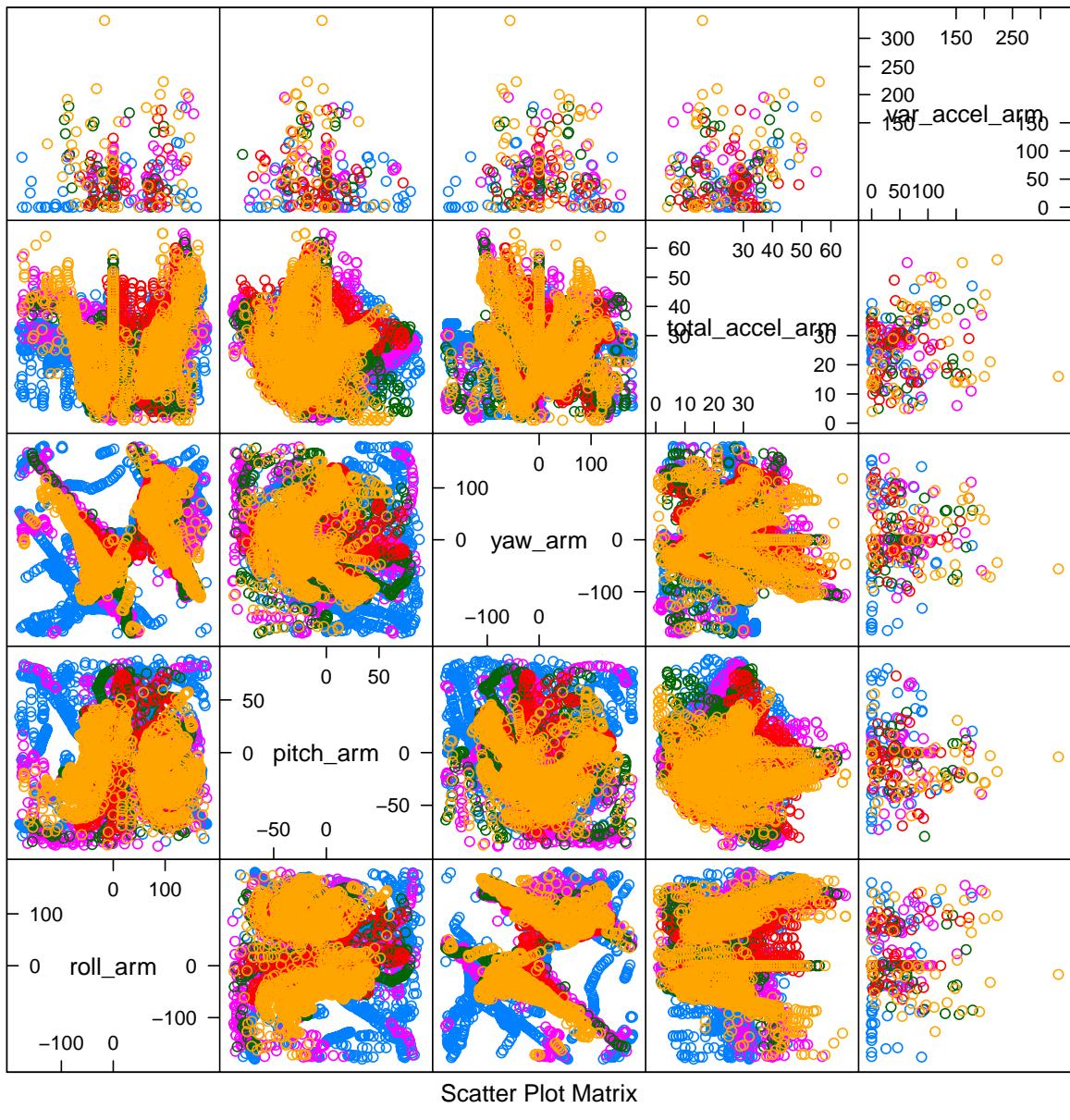
```
featurePlot(x = modelTrain[, 26:30], y = modelTrain$classe, plot = "pairs")
```



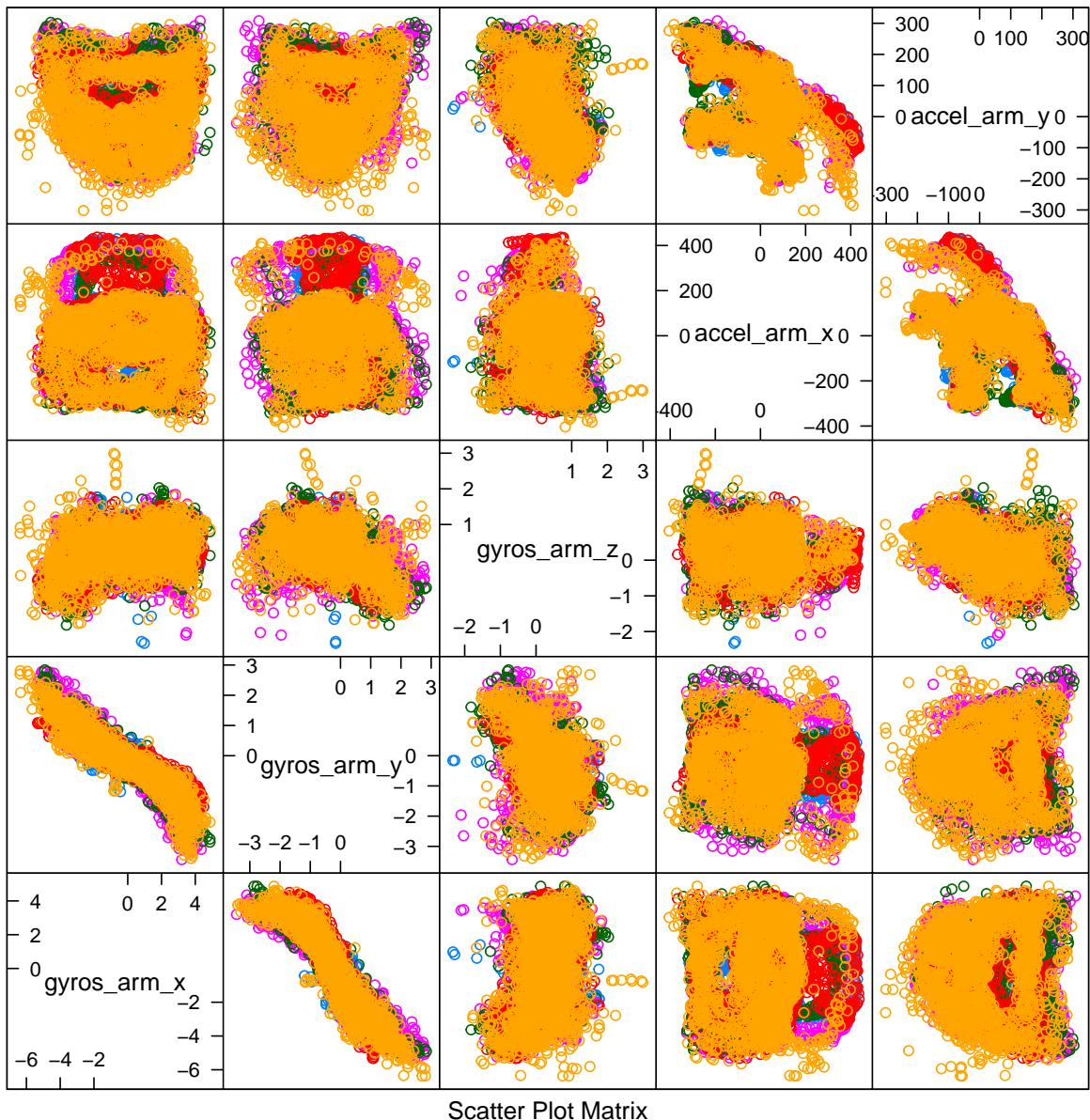
```
featurePlot(x = modelTrain[, 31:35], y = modelTrain$classe, plot = "pairs")
```



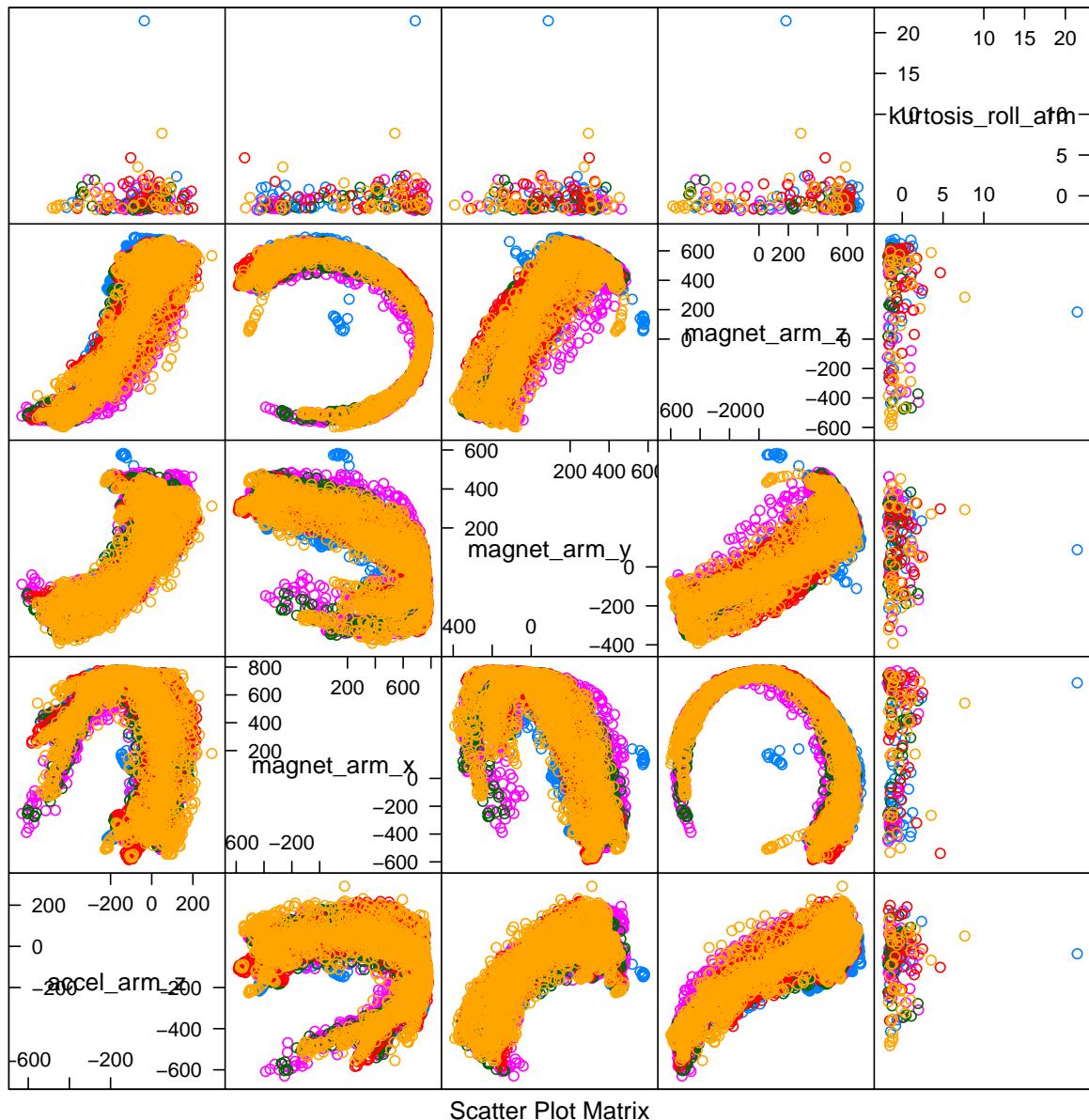
```
featurePlot(x = modelTrain[, 36:40], y = modelTrain$classe, plot = "pairs")
```



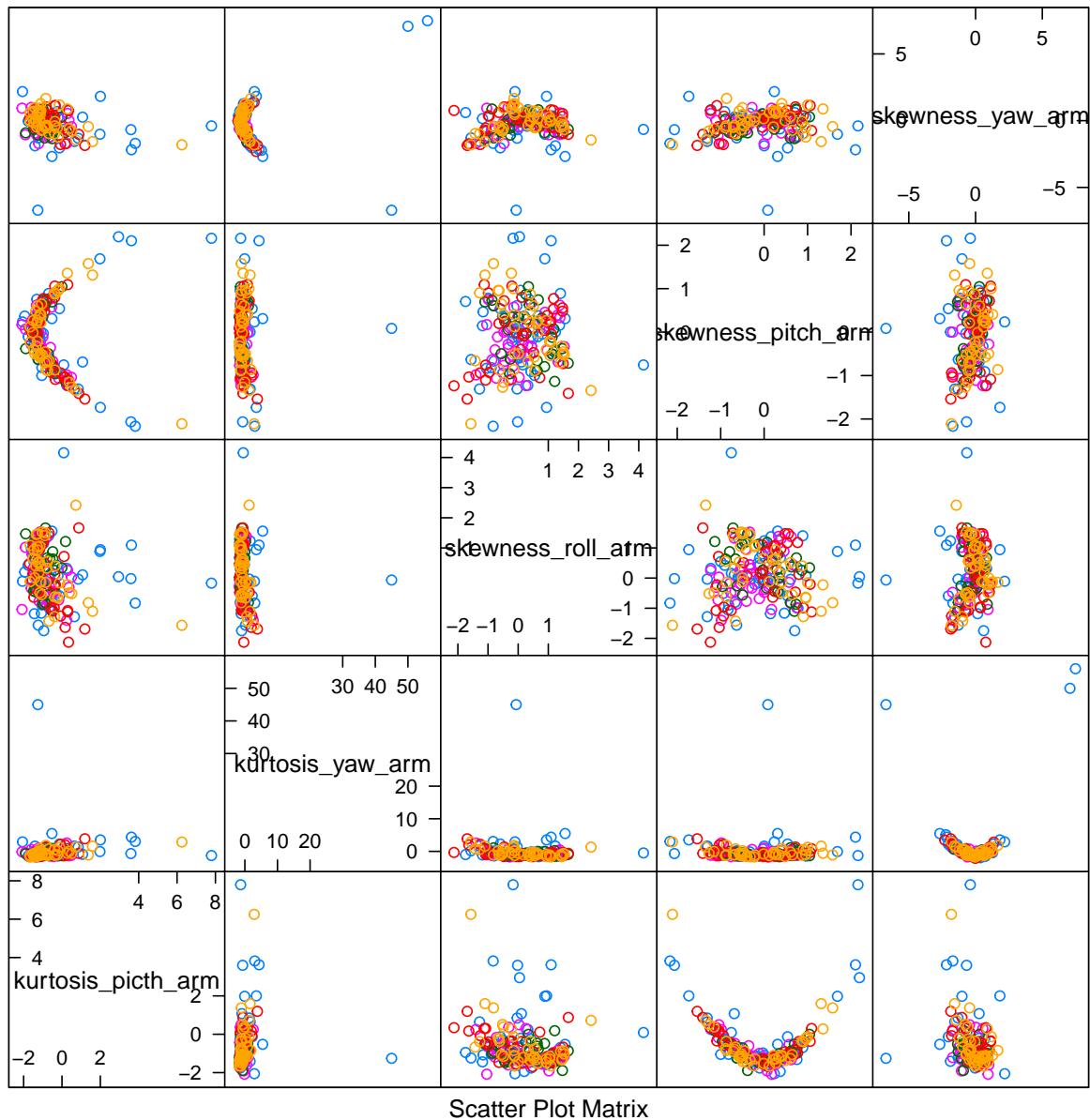
```
featurePlot(x = modelTrain[, 41:45], y = modelTrain$classe, plot = "pairs")
```



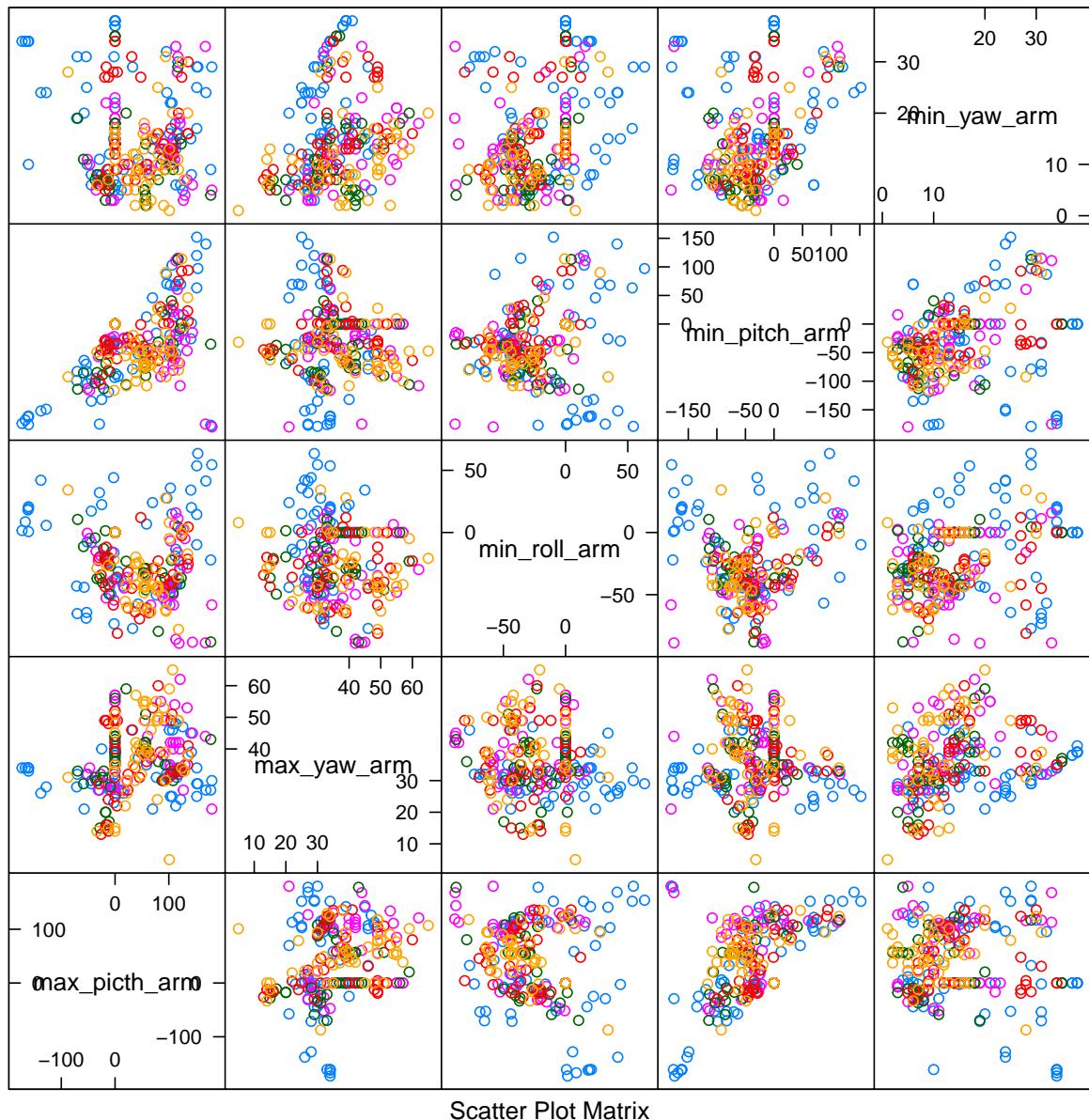
```
featurePlot(x = modelTrain[, 46:50], y = modelTrain$classe, plot = "pairs")
```



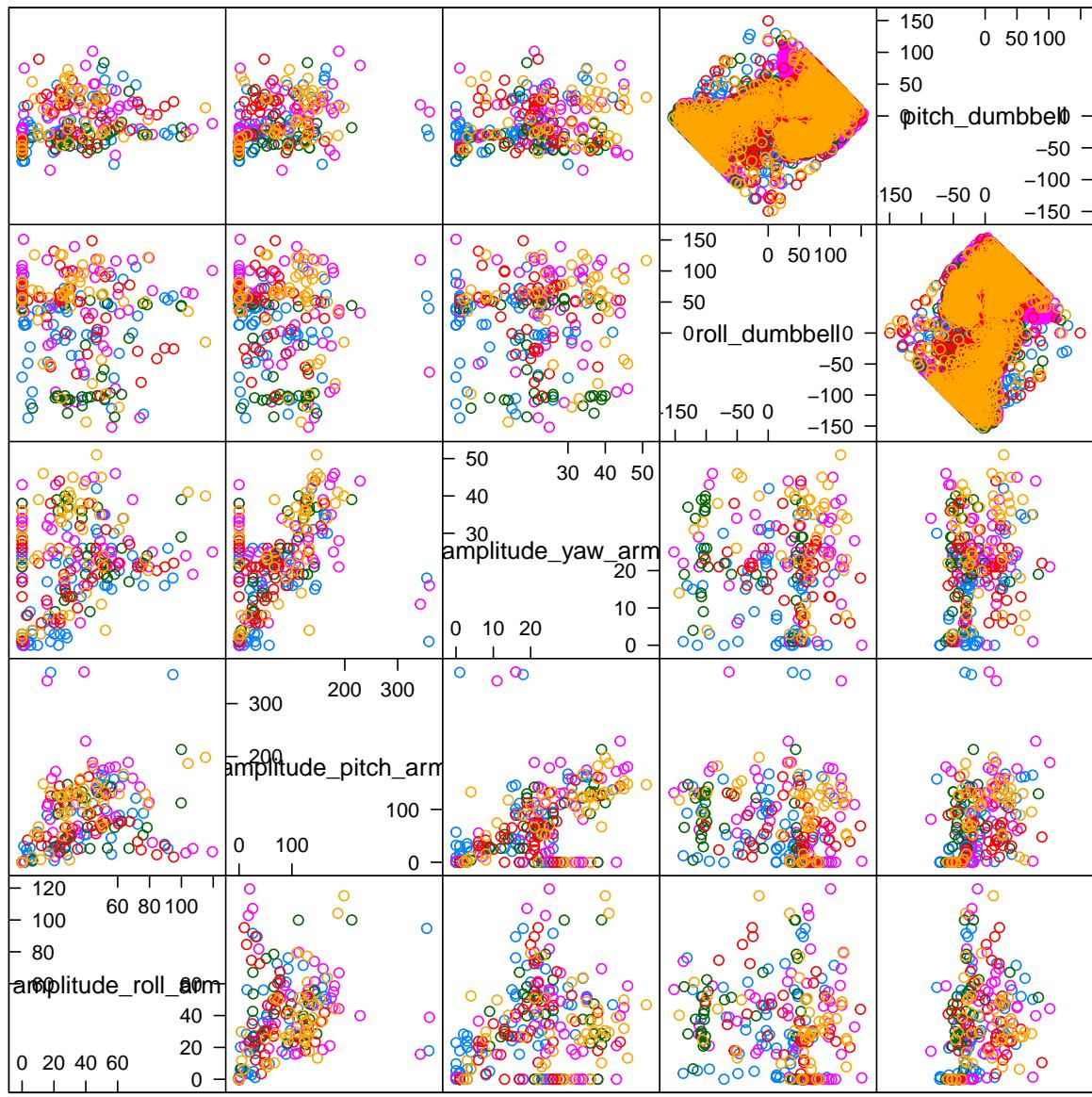
```
featurePlot(x = modelTrain[, 51:55], y = modelTrain$classe, plot = "pairs")
```



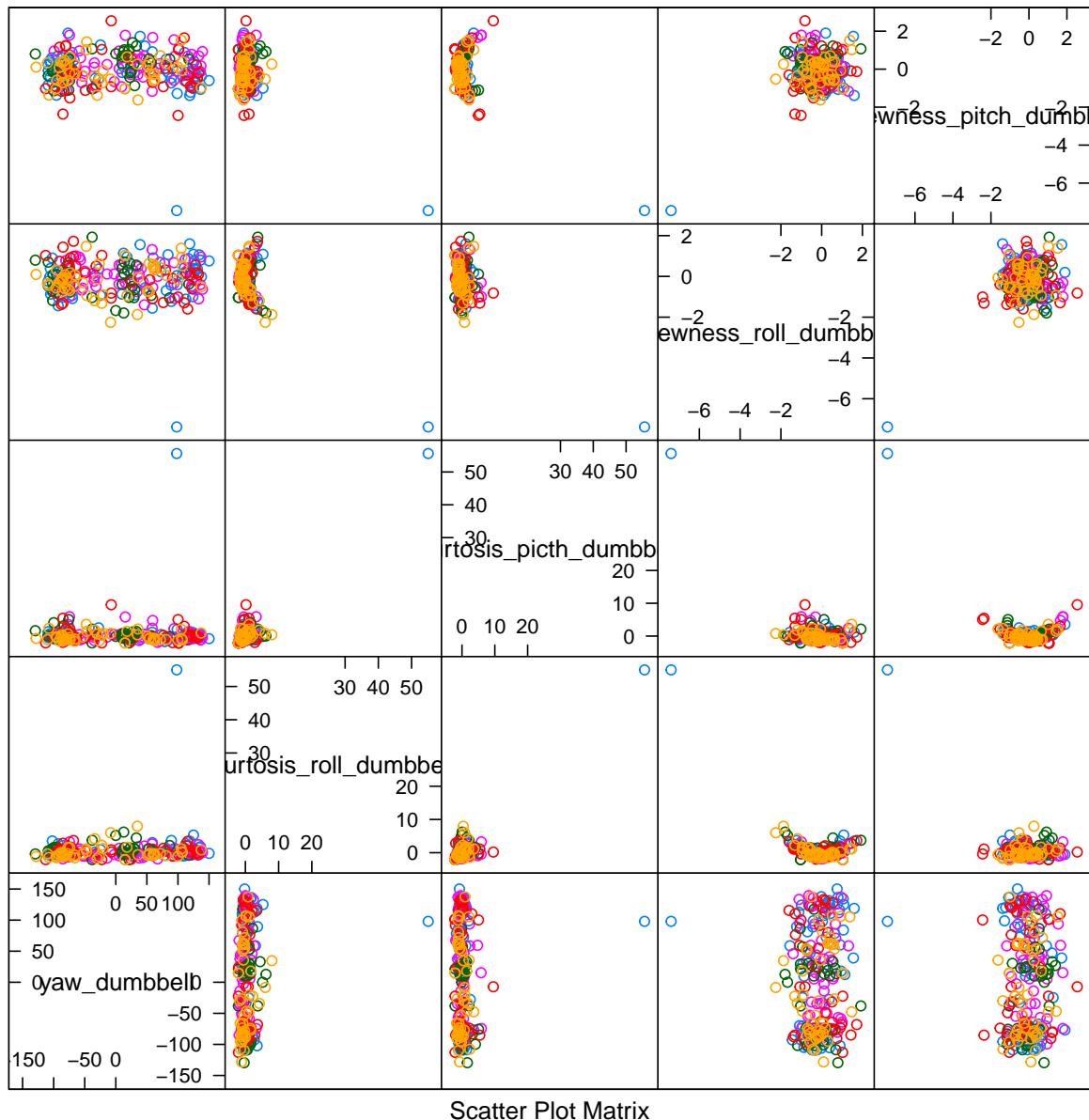
```
featurePlot(x = modelTrain[, 56:60], y = modelTrain$classe, plot = "pairs")
```



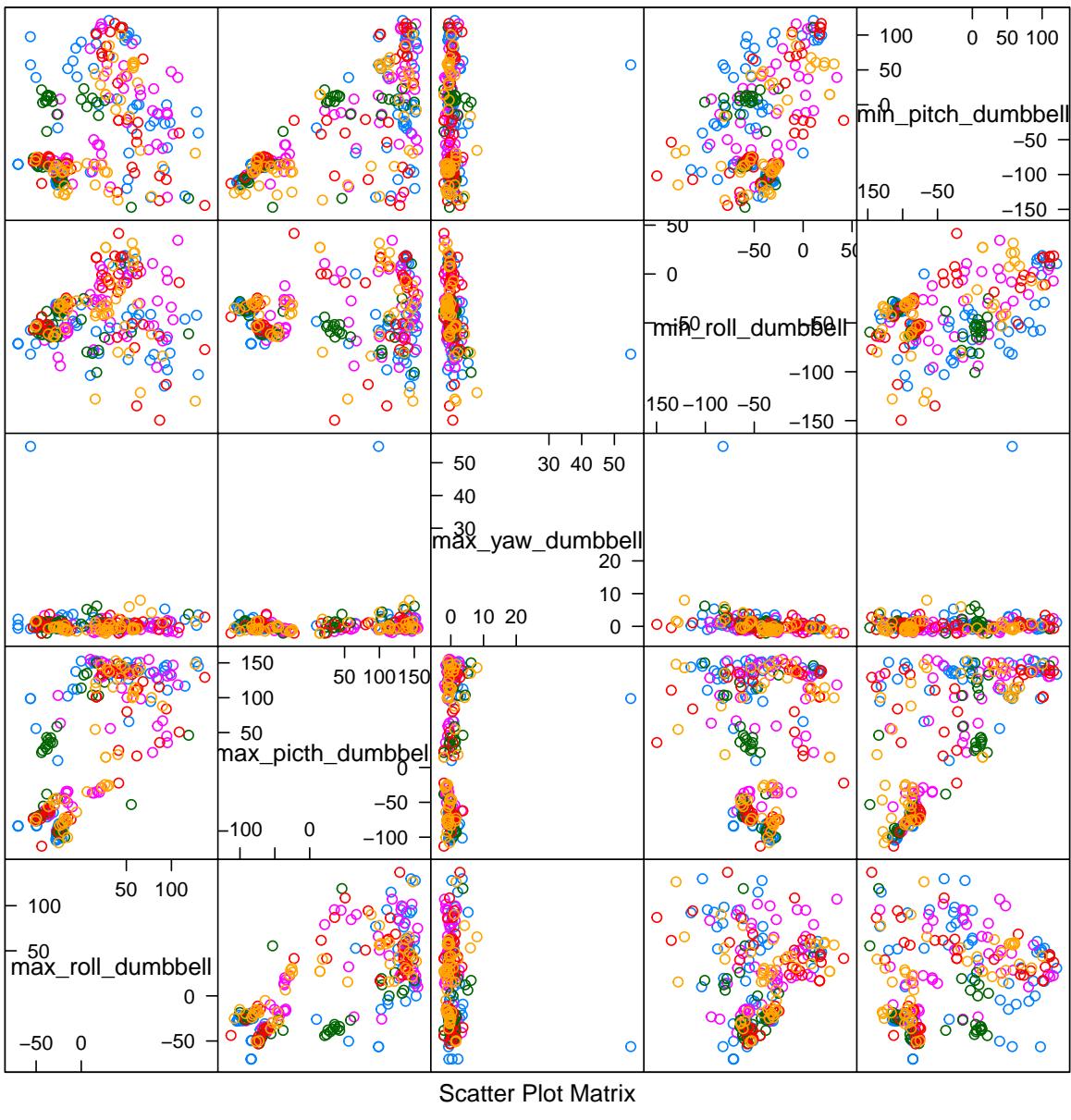
```
featurePlot(x = modelTrain[, 61:65], y = modelTrain$classe, plot = "pairs")
```



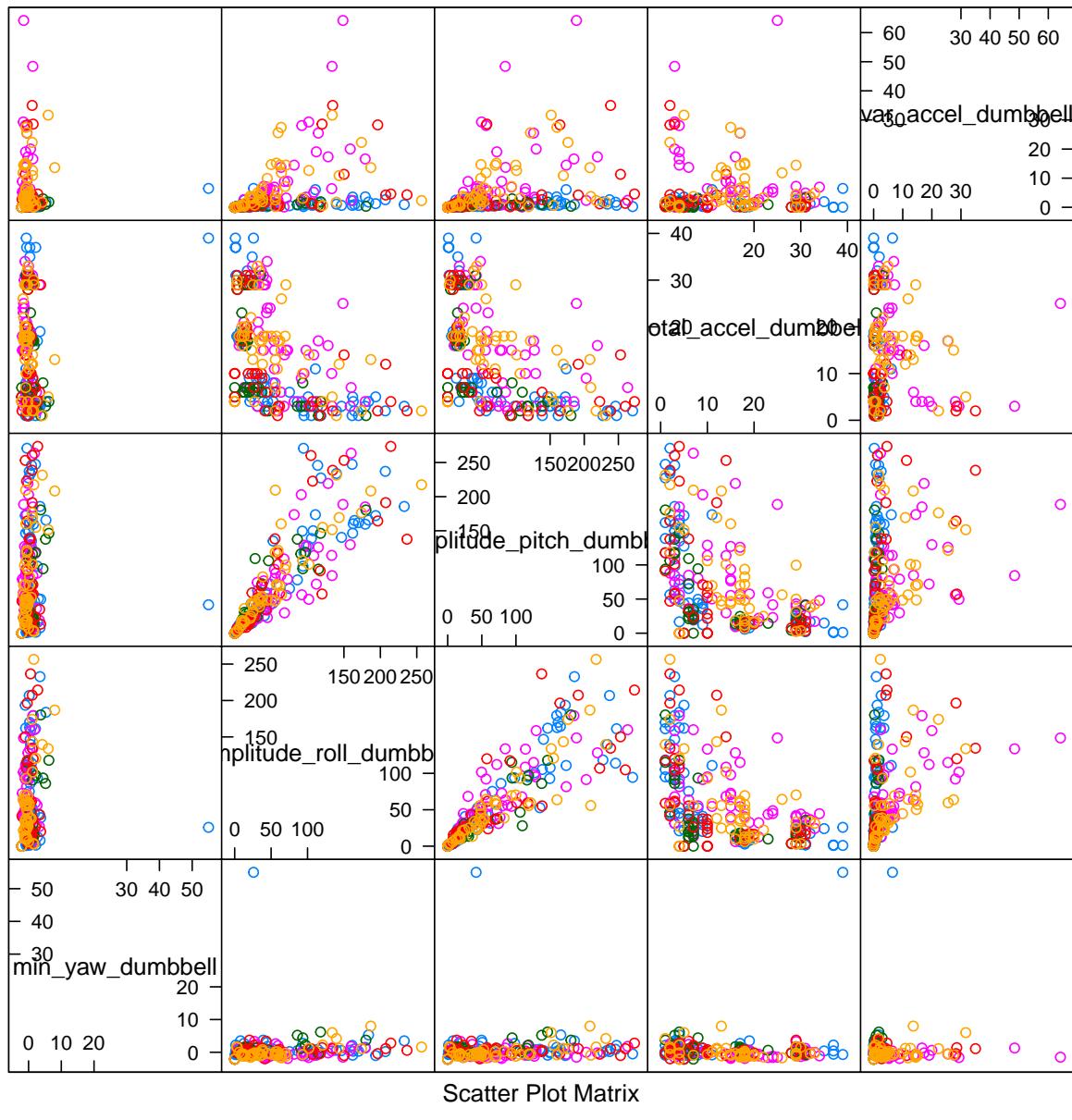
```
featurePlot(x = modelTrain[, 66:70], y = modelTrain$classe, plot = "pairs")
```



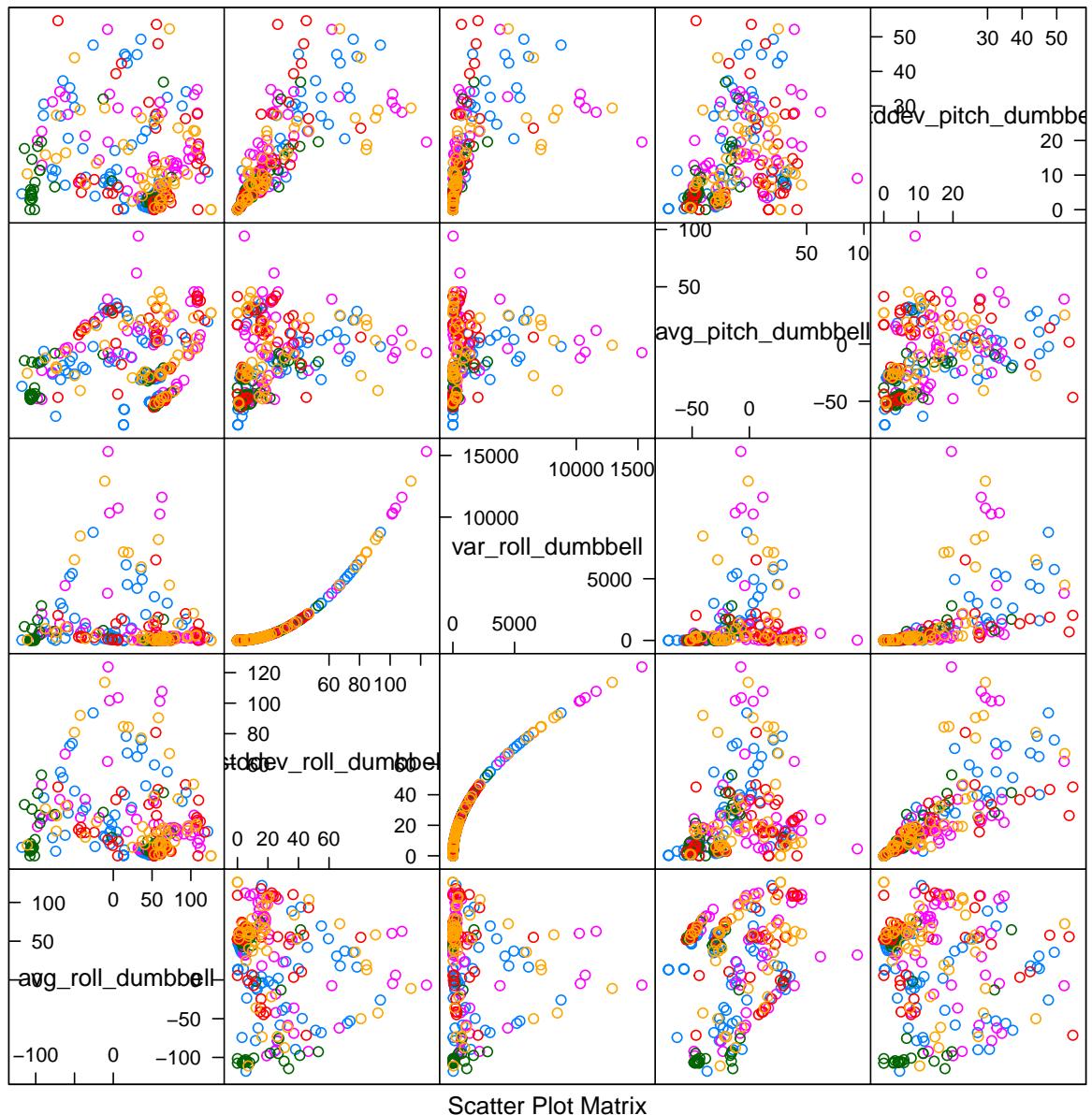
```
featurePlot(x = modelTrain[, 71:75], y = modelTrain$classe, plot = "pairs")
```



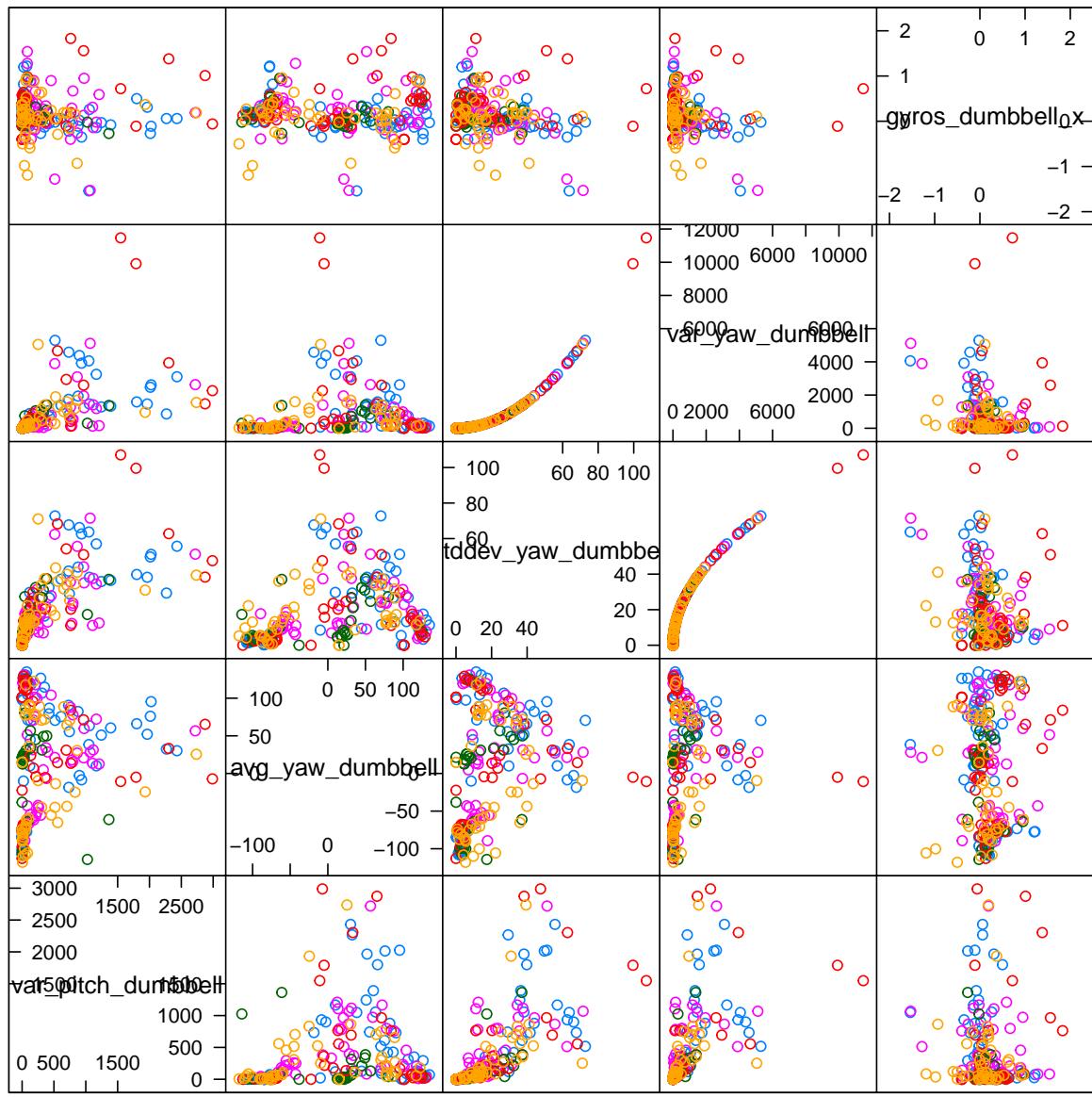
```
featurePlot(x = modelTrain[, 76:80], y = modelTrain$classe, plot = "pairs")
```



```
featurePlot(x = modelTrain[, 81:85], y = modelTrain$classe, plot = "pairs")
```

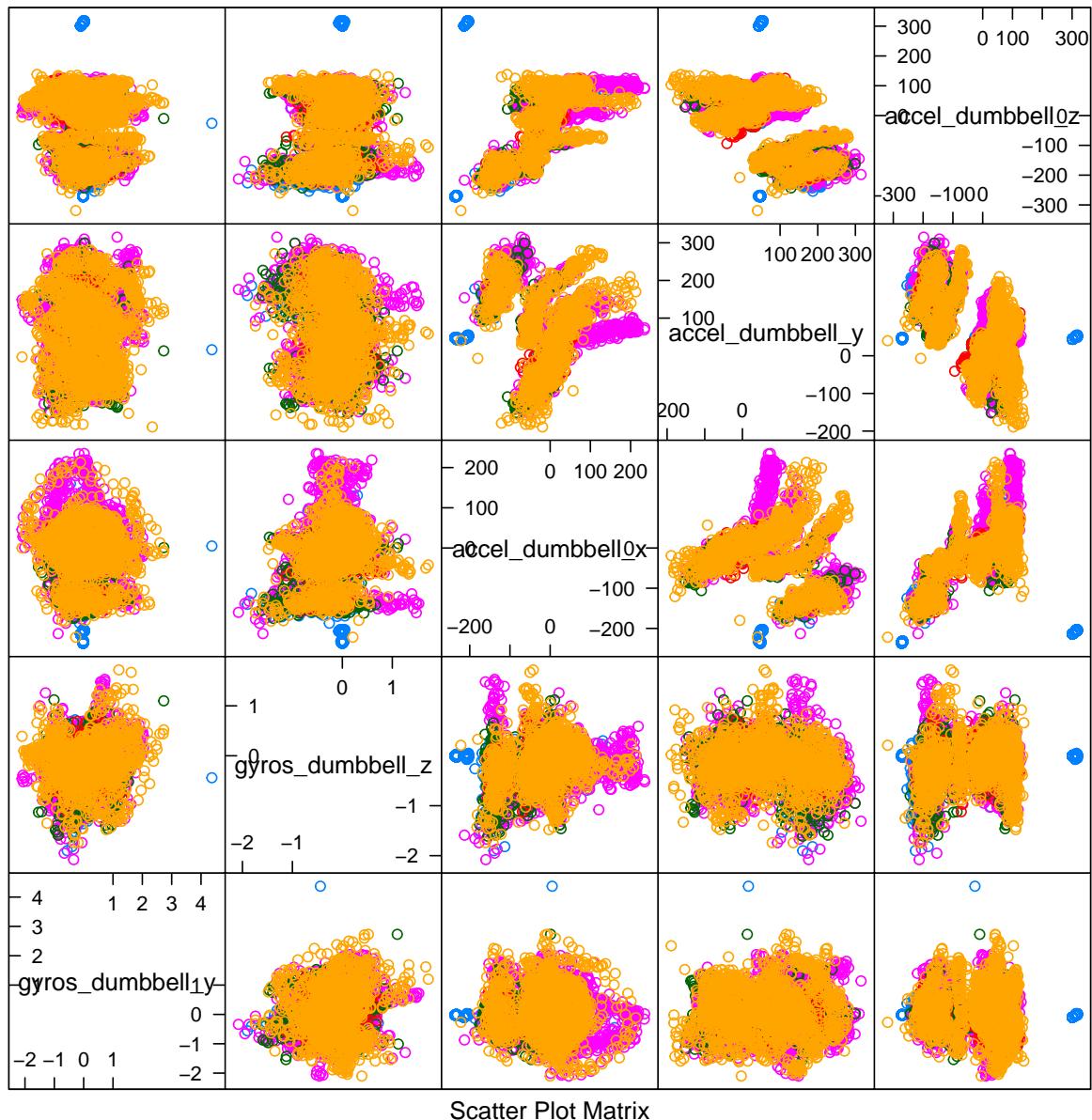


```
featurePlot(x = modelTrain[, 86:90], y = modelTrain$classe, plot = "pairs")
```

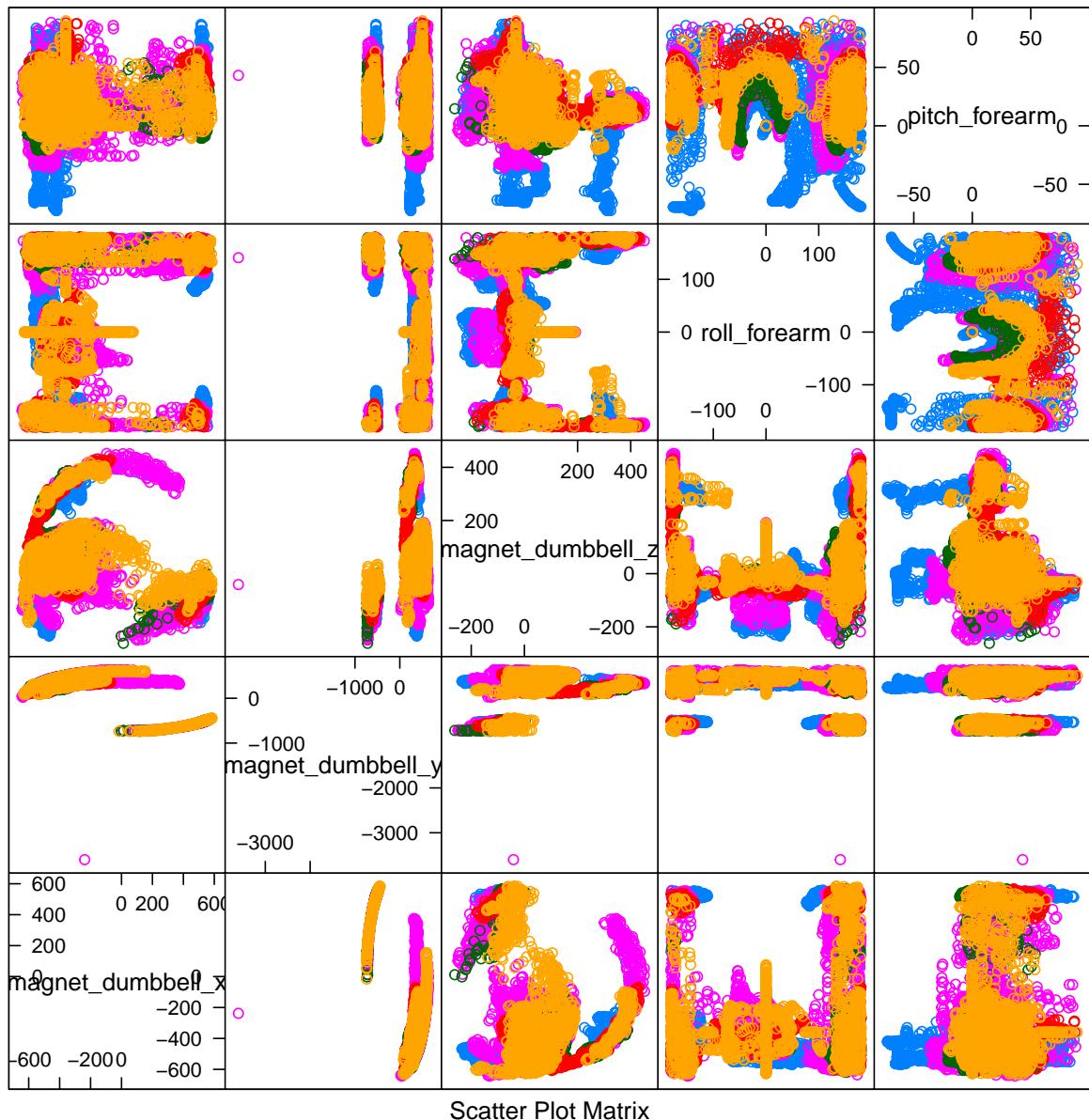


Scatter Plot Matrix

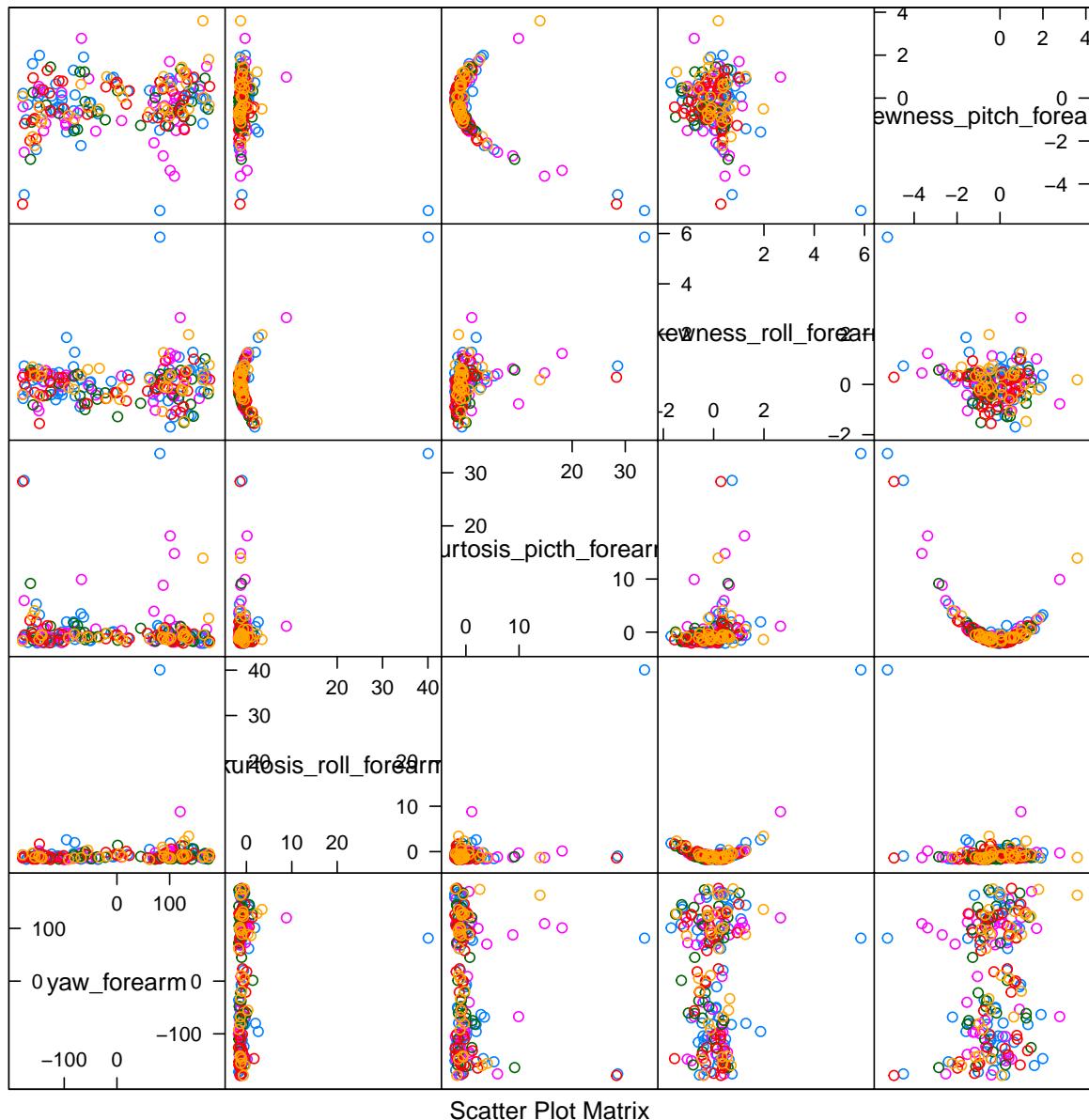
```
featurePlot(x = modelTrain[, 91:95], y = modelTrain$classe, plot = "pairs")
```



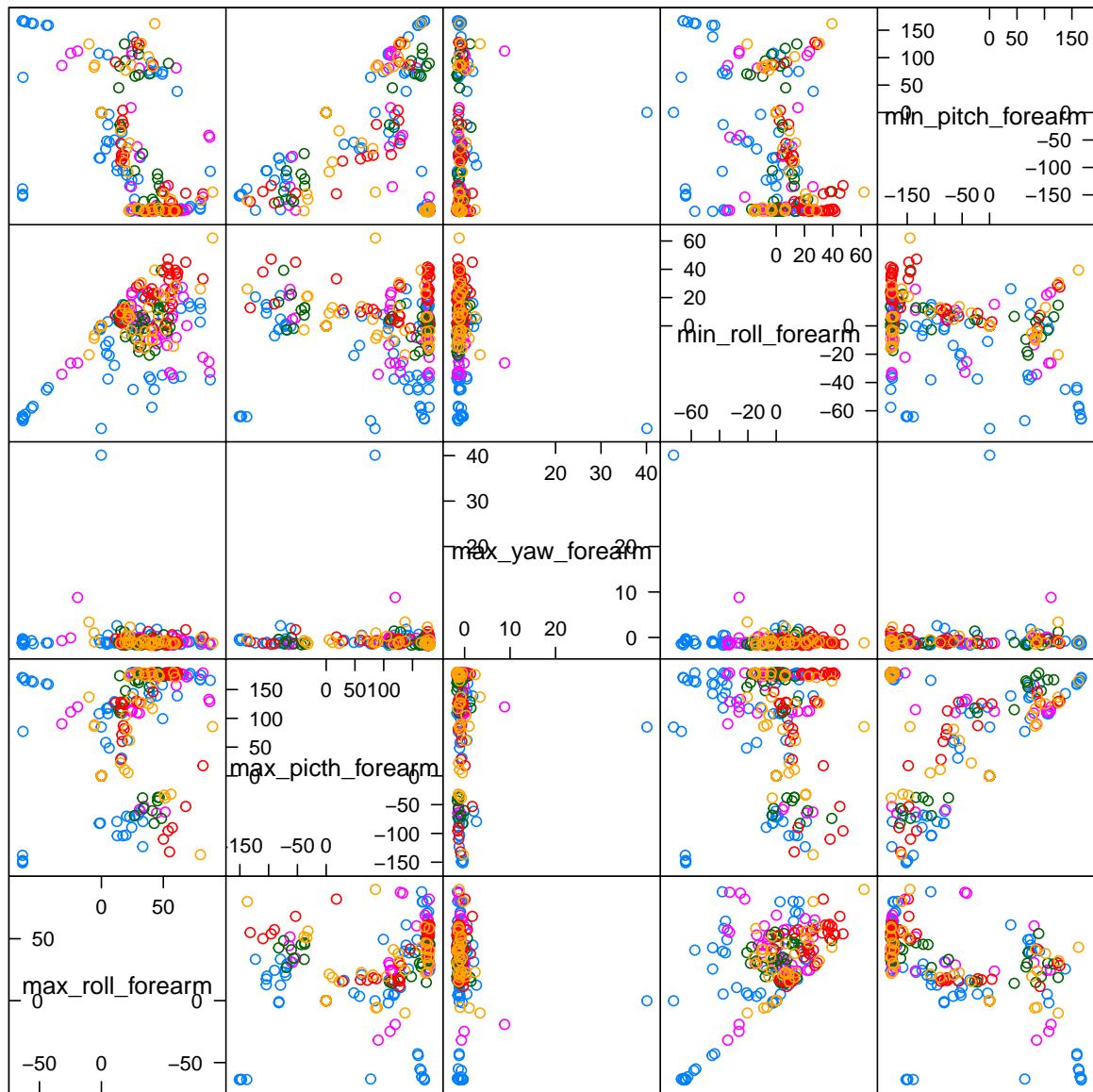
```
featurePlot(x = modelTrain[, 96:100], y = modelTrain$classe, plot = "pairs")
```



```
featurePlot(x = modelTrain[, 101:105], y = modelTrain$classe, plot = "pairs")
```

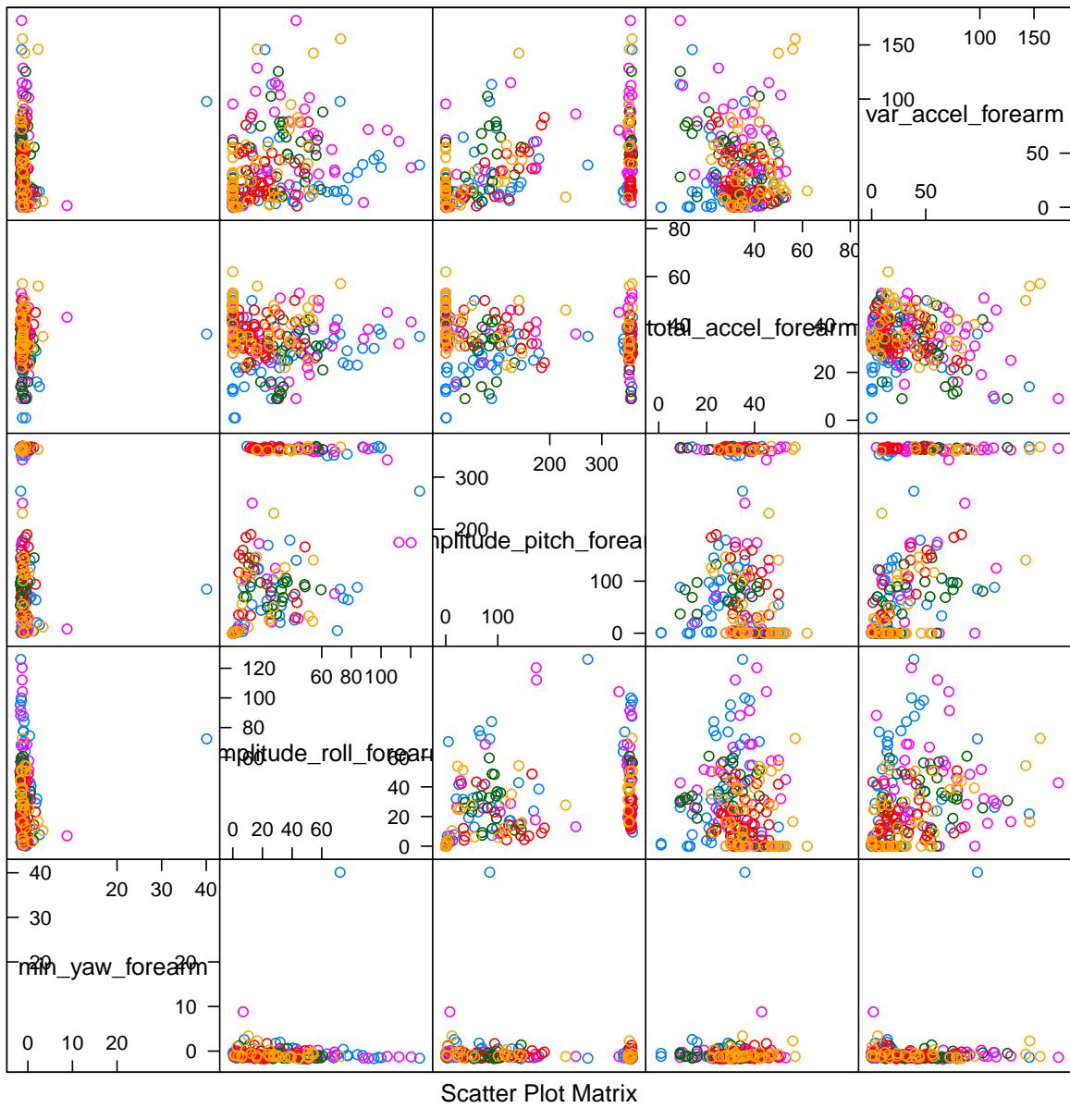


```
featurePlot(x = modelTrain[, 106:110], y = modelTrain$classe, plot = "pairs")
```

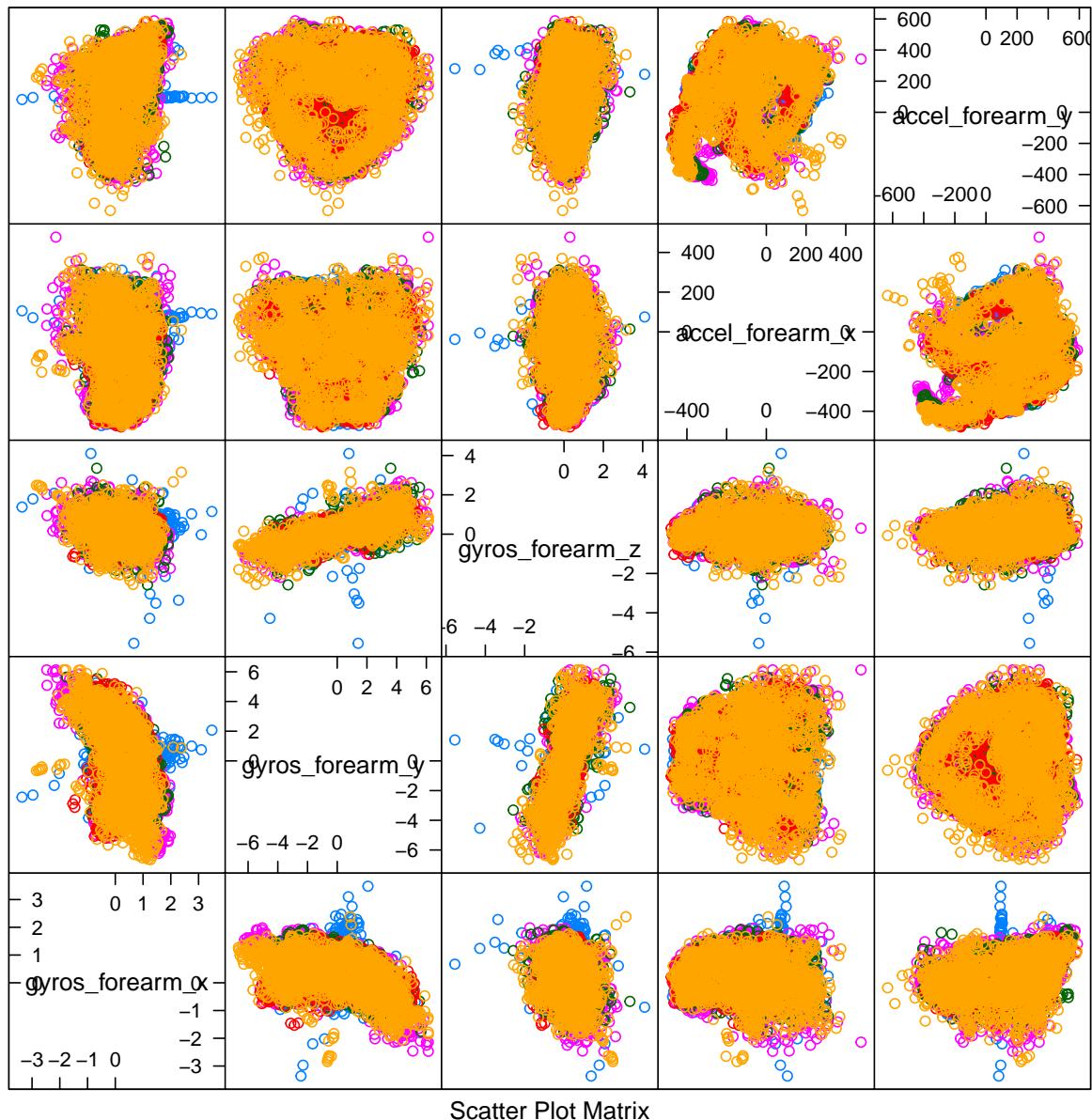


Scatter Plot Matrix

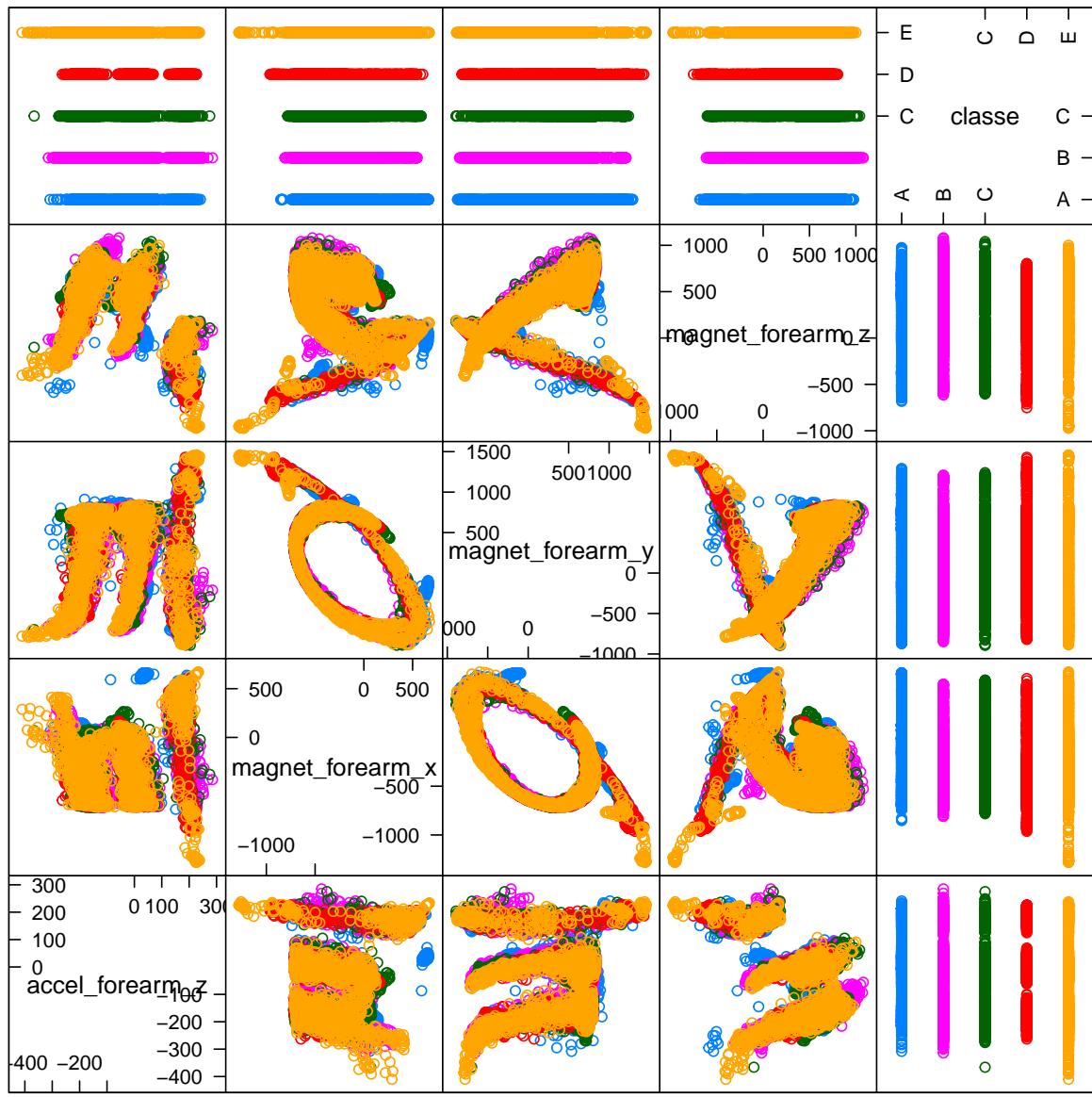
```
featurePlot(x = modelTrain[, 111:115], y = modelTrain$classe, plot = "pairs")
```



```
featurePlot(x = modelTrain[, 116:120], y = modelTrain$classe, plot = "pairs")
```



```
featurePlot(x = modelTrain[, 121:125], y = modelTrain$classe, plot = "pairs")
```



Scatter Plot Matrix