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Practical Machine Learning - Week 4 Assignment

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Executive Summary

The goal of this project is to predict the manner in which they did the exercise. This is the "classe" variable in the training set. I will create a report describing how I have built my model, how I have used cross validation, what I think the expected out of sample error is, and why I have made the choices I did. I will also use your prediction model to predict 20 different test cases.

Data Description

The training data for this project are available here:

https://d396qusza40orc.cloudfront.net/predmachlearn/pml-training.csv (https://d396qusza40orc.cloudfront.net/predmachlearn/pml-training.csv)

The test data are available here:

https://d396qusza40orc.cloudfront.net/predmachlearn/pml-testing.csv (https://d396qusza40orc.cloudfront.net/predmachlearn/pml-testing.csv)

The data for this project come from this source:
http://web.archive.org/web/20161224072740/http:/groupware.les.inf.puc-rio.br/har (http://web.archive.org/web/20161224072740/http:/groupware.les.inf.puc-rio.br/har).

Step 1: Loading the data and libraries

```
library(knitr)
library(caret)
```

```
## Loading required package: lattice
```

```
## Loading required package: ggplot2
```

```
library(rpart)
library(rpart.plot)
```