prediction_assignment.Rmd

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Function to read data:

Function to clean data:

```
cleanData <- function(df) {
    #df <- df[complete.cases(df),]
    df <- df[,-1]
    df <- df[sapply(df, function(df) !any(is.na(df)))]
    df
}</pre>
```

Function to create features:

```
creatFeatures <- function(df) {
    df$cvtd_timestamp <- strptime(df$cvtd_timestamp, "%m/%d/%Y %H:%M")
    df$weekday <- weekdays(df$cvtd_timestamp)
    df$month <- months(df$cvtd_timestamp)
    df$time <- format.Date(df$cvtd_timestamp, format="%H")
    df$ampm <- format.Date(df$cvtd_timestamp, format="%p")
    df
}</pre>
```

Read training data:

```
training <- readData("./data/training.csv")
dim(training)

## [1] 19622 160

Clean data:

training <- cleanData(training)
training <- creatFeatures(training)
dim(training)</pre>
```

```
## [1] 19622 63
```

library(caret) ## Warning: package 'caret' was built under R version 3.1.1 ## Loading required package: lattice ## Loading required package: ggplot2

 $\#fit \leftarrow train(classe \sim ., method="rpart", data=training) \ \#fit$