Predict 498 - Team Nile

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```r
require(knitr)
```

```
## Loading required package: knitr
```

```
## Warning: package 'knitr' was built under R version 3.2.5
```

```r
# Set working directory -- you'll need to change this on your machine
setwd('C:/Users/Scott Layton/Documents/Predict498_Nile')

#pull in training data
training_dta = read.csv('Training_set_values.csv')

#pull in training data labels -- This is the classification mapping
training_labels = read.csv('Training_set_labels.csv')

# join status group into main dataframe
training_dta <- merge(training_dta,training_labels,by="id")
```

Create a couple of frequency tables.

```r
kable(t(as.matrix(table(training_dta$status_group))))
```

functional	functional needs repair	non functional
32259	4317	22824

```r
kable(t(as.matrix(table(training_dta$waterpoint_type_group, training_dta$status_group))))
```

	cattle trough	communal standpipe	dam	hand pump	improved spring	other
functional	84	19961	6	10805	563	840
functional needs repair	2	2908	0	1029	85	293
non functional	30	11756	1	5654	136	5247