## Data Mining Cup: Iowa State University Team

basePrice Over price

Spring 2015, Feature Matrix Creation

```
email: imouzon@iastate.edu
I am using the following packages:
   library(ggplot2)
   library(lubridate)
   library(xtable)
   library(foreach)
   library(rCharts)
   library(magrittr)
   library(tidyr)
   library(dplyr)
   library(reshape2)
   library(gtools)
   library(sqldf)
   library(missForest)
   source("./R/renm.R")
and our working directory is set to dmc2015/ian.
Getting the Data and Manipulations
I am using our new clean data - so should you
   d = readRDS("~/dmc2015/data/clean_data/universalCleanData.rds")
I can melt the columns by coupon using the following:
source("~/dmc2015/ian/r/stackCoupons2.R")
dm = stackCoupons2(d, idcols = c(1:4, 32:49))
I and can split the columns of product group using:
source("~/dmc2015/ian/r/splitColumn.R")
dmc = splitColumn(dm, "categoryIDs", "orderID", splitby = ":")
```

Name: Ian Mouzon

## 0.1 A few simple statistics

## Loading required package: tcltk

The ratio of price to basePrice