## MKT382 Project 1

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## **Descriptive Stats**

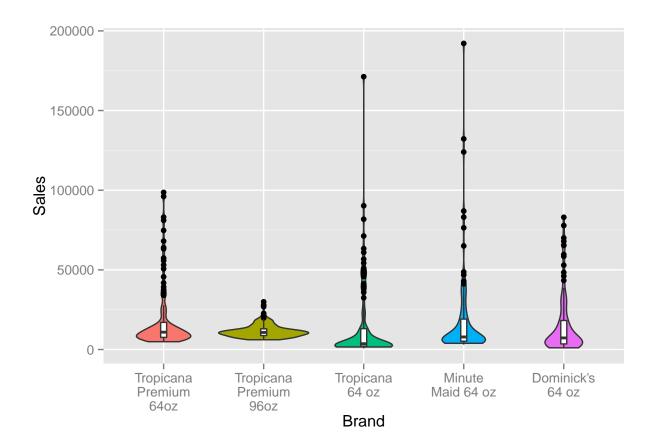
```
library(ggplot2)
library(reshape2)
library(stringr)

df = read.table(file='Dominicks_scanner_data-orange_juice.txt', header=TRUE, sep='\t')
summary(df[2:6])
```

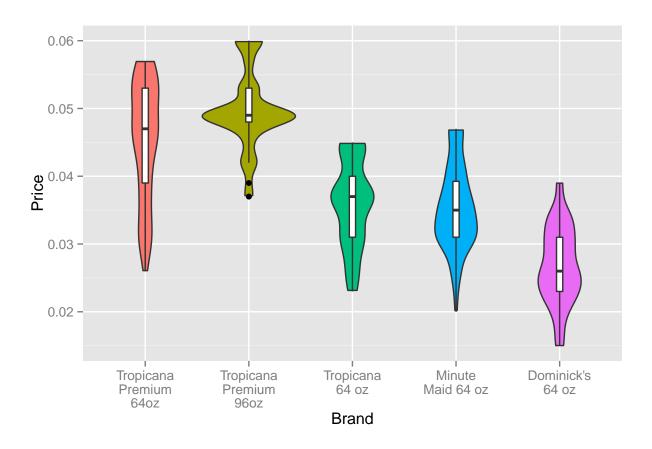
```
##
       sales1
                       sales2
                                                       sales4
                                      sales3
                   Min. : 6048
                                  Min. : 704
   Min. : 4608
                                                   Min. : 3072
##
   1st Qu.: 7600
                   1st Qu.: 8736
                                  1st Qu.: 2096
                                                   1st Qu.: 5184
   Median :10880
                   Median :10704
                                  Median: 3648
                                                   Median: 7872
##
   Mean
         :18879
                   Mean
                         :11763
                                  Mean : 14898
                                                   Mean
                                                          : 18481
   3rd Qu.:17040
                   3rd Qu.:12984
                                  3rd Qu.: 13088
                                                   3rd Qu.: 19088
##
##
   Max.
          :98624
                   Max.
                         :29952
                                        :171264
                                                        :192128
                                  Max.
                                                   Max.
##
       sales5
  Min.
         : 896
##
   1st Qu.: 3504
##
  Median : 7264
## Mean
         :15359
   3rd Qu.:18208
##
   Max.
          :83008
```

## summary(df[7:11])

```
##
       price1
                         price2
                                            price3
                                                              price4
                                        Min.
                                                          Min.
##
          :0.02600
                      Min. :0.03700
                                              :0.02300
                                                                 :0.02000
   Min.
   1st Qu.:0.03900
                      1st Qu.:0.04800
                                        1st Qu.:0.03100
                                                          1st Qu.:0.03100
##
   Median :0.04700
                      Median :0.04900
                                        Median :0.03700
                                                          Median :0.03500
   Mean
          :0.04534
                      Mean
                           :0.04984
                                        Mean
                                             :0.03588
                                                          Mean
                                                                 :0.03541
   3rd Qu.:0.05300
                                        3rd Qu.:0.04000
##
                      3rd Qu.:0.05300
                                                          3rd Qu.:0.03925
##
   Max.
          :0.05700
                      Max. :0.06000
                                        Max.
                                             :0.04500
                                                          Max.
                                                                 :0.04700
##
       price5
##
          :0.01500
   1st Qu.:0.02300
## Median :0.02600
## Mean
          :0.02681
## 3rd Qu.:0.03100
## Max.
          :0.03900
```



```
geom_boxplot(width=.08)
p2
```



```
ms1 = sum(df$sales1*df$price1)/sum(df[2:6]*df[7:11])
ms2 = sum(df$sales2*df$price2)/sum(df[2:6]*df[7:11])
ms3 = sum(df$sales3*df$price3)/sum(df[2:6]*df[7:11])
ms4 = sum(df$sales4*df$price4)/sum(df[2:6]*df[7:11])
ms5 = sum(df$sales5*df$price5)/sum(df[2:6]*df[7:11])
```