## BIMM143class12

## Section 1 Proportion of G/G in a population

Here we read this CSV file

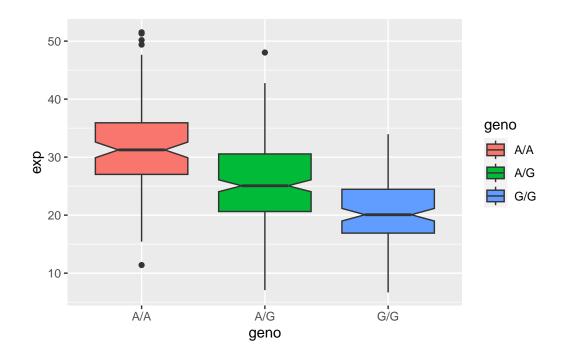
```
mxl<-read.csv("class12.csv")</pre>
  head(mxl)
  Sample..Male.Female.Unknown. Genotype..forward.strand. Population.s. Father
                                                       A|A ALL, AMR, MXL
1
                   NA19648 (F)
2
                   NA19649 (M)
                                                       G|G ALL, AMR, MXL
3
                   NA19651 (F)
                                                      A|A ALL, AMR, MXL
                                                      G|G ALL, AMR, MXL
4
                   NA19652 (M)
5
                   NA19654 (F)
                                                      G|G ALL, AMR, MXL
                   NA19655 (M)
                                                      A|G ALL, AMR, MXL
6
  Mother
1
2
3
4
5
  table(mxl$Genotype..forward.strand.)
A|A A|G G|A G|G
 22 21 12
```

```
A|G
                    G|A
                             G|G
    A \mid A
34.3750 32.8125 18.7500 14.0625
##Section 4 Population Scale Analysis
##How many samples do we have?
  expr<-read.table("BIMM143class12optional.txt")</pre>
  head(expr)
   sample geno
                     exp
1 HG00367 A/G 28.96038
2 NA20768 A/G 20.24449
3 HG00361 A/A 31.32628
4 HG00135 A/A 34.11169
5 NA18870 G/G 18.25141
6 NA11993 A/A 32.89721
  nrow(expr)
[1] 462
  table(expr$geno)
A/A A/G G/G
108 233 121
  library(ggplot2)
  ##Lets make a boxplot
  ##you do not even need x=, y=
```

ggplot(expr) +

aes(geno, exp, fill=geno) +
geom\_boxplot(notch=TRUE)

table(mxl\$Genotype..forward.strand.)/nrow(mxl)\*100



##notch adds "belt" in the midle