Class12

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Proportion of G/G in MXL Population

```
Sample..Male.Female.Unknown. Genotype..forward.strand. Population.s. Father
1
                   NA19648 (F)
                                                      A|A ALL, AMR, MXL
2
                                                      G|G ALL, AMR, MXL
                   NA19649 (M)
                                                      A|A ALL, AMR, MXL
3
                   NA19651 (F)
                                                      G|G ALL, AMR, MXL
4
                   NA19652 (M)
5
                   NA19654 (F)
                                                      G|G ALL, AMR, MXL
                                                      A|G ALL, AMR, MXL
6
                   NA19655 (M)
 Mother
1
2
3
4
5
```

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

```
A|A A|G G|A G|G
34.3750 32.8125 18.7500 14.0625
```

Section 4

How many Samples do we Have

```
expr <- read.table("rs8067378_ENSG00000172057.6.txt")</pre>
head(expr)
   sample geno
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
Boxplot
library(ggplot2)
ggplot(expr) + aes(x=geno, y=exp, fill=geno) +
  geom_boxplot(notch=T)
```

