## Class11

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## Question 13

read in the document:

```
expr <- read.table("https://bioboot.github.io/bggn213_W19/class-material/rs8067378_ENSGOOG head(expr)

sample geno exp
1 HG00367 A/G 28.96038
2 NA20768 A/G 20.24449
3 HG00135 A/A 31.32628
4 HG00135 A/A 34.11169
5 NA18870 G/G 18.25141
6 NA11993 A/A 32.89721

nrow(expr)

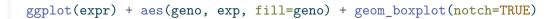
[1] 462

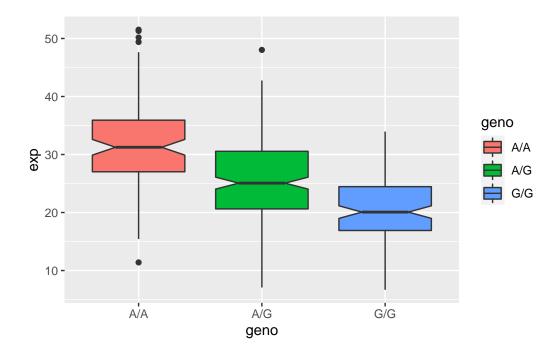
table(expr$geno)

A/A A/G G/G
108 233 121
```

let's make a boxplot to display our data

library(ggplot2)





## Q14

The median expression of A/A is elevated compared to G/G. The A/A SNP increases the expression of ORMDL3 more than the G/G variant!