

class12: population scale analysis

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```
expr <- read.table("rs8067378_ENSG00000172057.6.txt")  
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

```
median(31.32628+34.11169+32.89721)
```

```
[1] 98.33518
```

```
median(28.96038+20.24449)
```

```
[1] 49.20487
```

```
median(18.25141)
```

```
[1] 18.25141
```

```
summary(expr)
```

sample	geno	exp
Length:462	Length:462	Min. : 6.675
Class :character	Class :character	1st Qu.:20.004
Mode :character	Mode :character	Median :25.116
		Mean :25.640
		3rd Qu.:30.779
		Max. :51.518

```
library(ggplot2)
```

```
ggplot(expr) + aes(x=geno,y=exp,fill=geno)+  
  geom_boxplot(notch=TRUE)
```

