

Class12: Genome informatics

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Download a csv file from ensemble

We will read this file to determine frequency

```
mxl <- read.csv("373531-SampleGenotypes-Homo_sapiens_Variation_Sample_rs8067378.csv")
head(mxl)
```

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

Get to the column of Genotype

```
table(mx1$Genotype..forward.strand.)
```

A A	A G	G A	G G
22	21	12	9

How much each genotype makes of the total

```
table(mx1$Genotype..forward.strand.)/nrow(mx1)*100
```

A A	A G	G A	G G
34.3750	32.8125	18.7500	14.0625

Lets look at different Population. I am using GBR.