

Reference Population

Observations



Animal 1



Animal 2



⋮

Animal N



y1

y2

yN

SNP1

SNP2

...

SNPk

SNP1

SNP2

...

SNPk

SNP1

SNP2

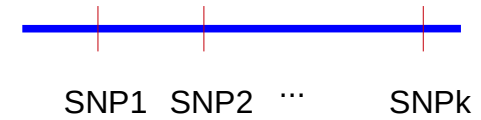
...

SNPk

Animal N+1

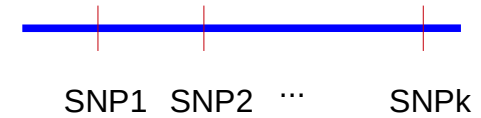


Animal N+2



⋮

Animal N+M



SNP1

SNP2

...

SNPk

Estimate Marker Effects

q1

q2

...

qk

Genomic Breeding Values