

## Concept of Values

Given phenotypic observations:  $Y$

Animal	Locus $G$	$Y$
1	1	$Y_1 = 307$
2	$\emptyset$	$Y_2 = 251$
$\vdots$	2	
$N$	$\vdots$	$Y_N = \dots$

Genetic Model for animal  $i$

$$Y_i = V_i + E_i$$

where:  $Y_i$  is the phenotypic observation of animal  $i$

$V_i$  is the genotypic value of animal  $i$

$E_i$  is the non-genetic deviation, environment