

Include also discrete variables as predictors

□ Example : - Breed as an influence on body weight.

- Breed is a discrete variable with fixed levels like
 $\{ \text{Angus, Simmental, Limousin} \}$

□ Data Set

Animal	Body Weight	Breed
1	471	1
2	.	1
⋮		
10	541	2

□ Expected body weight for animal i :
$$E(y_i) = b_0 + b_1 \cdot x_i$$

intercept regression coefficient

breed code

Eg. Animal 1: $E(y_1) = b_0 + b_1 \cdot 1$
Animal 10: $E(y_{10}) = b_0 + b_1 \cdot 2$