

(4)

### Example

$$y_i = \underbrace{b_0}_{\text{Intercept}} + \underbrace{b_2}_{+e_i} \cdot \text{HEI}_i + \underbrace{b_3}_{\text{BC}_i} \cdot \text{BC}_i + \underbrace{b_4}_{b_4 = -0.084} \cdot \text{HEI}_i \times \text{BC}_i$$

### Model Selection

□ Goal :

Given a response variable <sup>BW</sup> and more than one predictor variables <sup>BC, HEI, Breed, BCS</sup>

Find the set of predictors that give you the "best" model

In R: MASS::stepAIC(...)