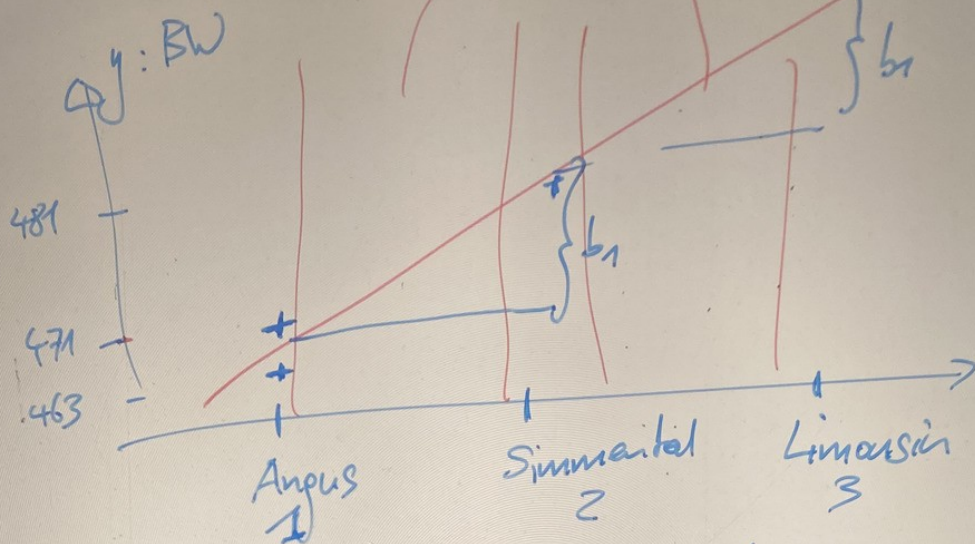


# Factor



"x"  
Breed  
(not consid  
crosses)  
only pure-bred)

- Breed is discrete valued
- To make linear model work, replace breed names by numbers

□ "Linear Model":  $y = X \cdot b + e$   
with  $y$ : vector of body weights  
 $b$ : breed-coeff  
 $e$ : residuals

$$X = \begin{bmatrix} 1 & 1 \\ 1 & 1 \\ 1 & 3 \\ \vdots & \vdots \end{bmatrix}; b = \begin{bmatrix} b_0 \\ b_1 \end{bmatrix}$$