Recap: Prediction of Breeding Values

- Own performance

Animal	Phenotype Weight
1	275 kg
⋮	⋮
N	312 kg

- Predicted breeding value $\hat{u}_i$ for animal i

$$\hat{u}_i = h^2 (y_i - \mu)$$

h^2: heritability; y_i: measurement; μ: population mean

- Accuracy:

$$r(u_i, y_i) = \frac{cov(u_i, y_i)}{\sqrt{var(u_i) \cdot var(y_i)}} = h$$

Genauigkeit

Reliability: $r^2(u_i, y_i) = h^2$

(Bestimmtheitsmaß)