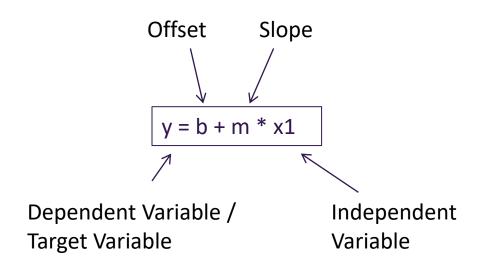
Introduction



m

- -slope parameter
- -impact of change for one unit change of x1 on y

b

- -offset parameter
- -constant bias

Example: Housing-Market

Price = b + m * Size

Best Fit

What is the best fit / trend line describing the points?



Price = b + m * Size

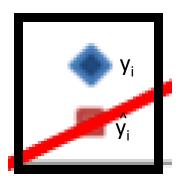
Best Fit

What is the best fit / trend line describing the points?

 $m = \Delta Price / \Delta Size$ = (310k€-216k€) / (150-50) m^2

 $= 0.94 \text{ k} \cdot \text{/ m}^2$





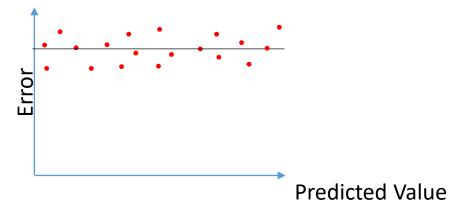
$$\min \sum_{i=1}^{N} (y_i - \widehat{y_i})^2$$

Price = b + m * Size

Model Assumptions

Model-Assumptions

- Linearity
- Homoscedasticity (errors show no pattern)



Interactive

