

$$\hat{p}_{\text{MLE}}(e \mid \text{Haus}) = \begin{cases} 0.696 & \text{if } e = \text{house} \\ 0.279 & \text{if } e = \text{home} \\ 0.014 & \text{if } e = \text{shell} \\ 0.011 & \text{if } e = \text{household} \\ 0 & \text{otherwise} \end{cases}$$