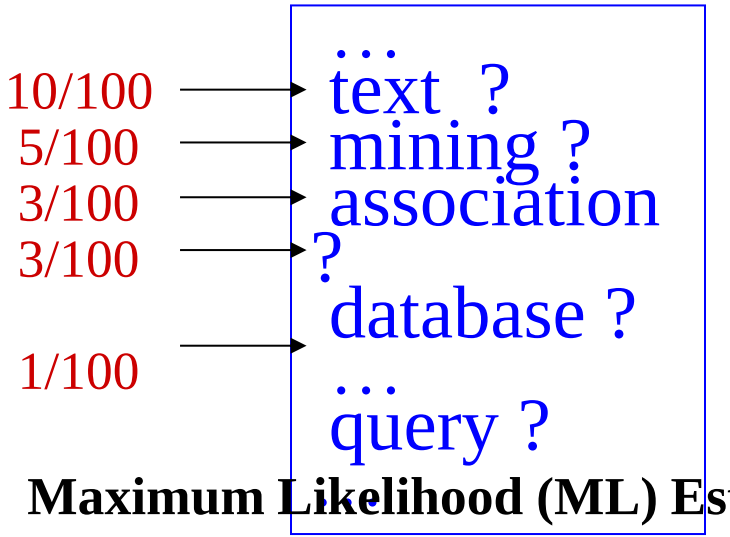
Estimation of Unigram LM

Unigram LM p(w|θ)=?

Estimation

Text Mining Paper d

Total #words=**100**



text 10
mining 5
association 3
database 3
algorithm 2
…
query 1
efficient 1

Maximum Likelihood (ML) Estimator:

$$p(w \mid \theta) = p(w \mid d) = \frac{c(w,d)}{|d|}$$

Is this the best estimate?