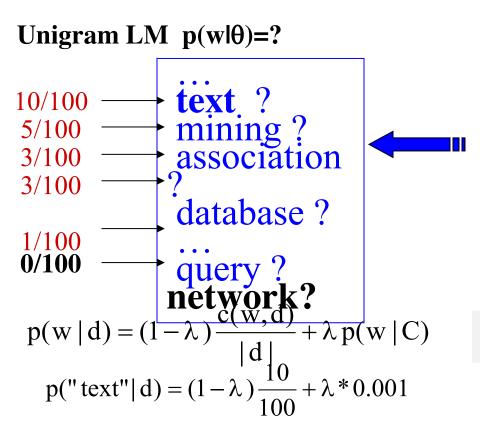
## Linear Interpolation (Jelinek-Mercer) Smoothing



## **Document d**Total #words=**100**

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

## Collection LM **P(w|C)**

the 0.1 a 0.08 ... computer 0.02 database 0.01 ..... text 0.001 network 0.001 mining 0.0009

$$\lambda \in [0,1]$$

 $p("network" | d) = \lambda * 0.001$ 

