Estimation of One Topic: $P(w|\theta_d)$

Adjust θ_d to maximize p(d|Λ)
(all other parameters are known)

Would the ML estimate <u>demote</u> background words in θ_d ?

d

… text mining… is… clustering… we…. Text.. the

text ?
mining ?
association ?
clustering ?
…
the ?

θ_d

$p(\theta_d)+(\theta_B)=1$

$P(\theta_d)=0.5$

Topic Choice

the 0.03
a 0.02
is 0.015
we 0.01
food 0.003
…
text 0.000006

θ_B

$P(\theta_B)=0.5$