

# Factoring out Background Words

d

Text mining  
paper

$p(w | \theta)$

the 0.031  
a 0.018  
...  
**text 0.04**  
**mining 0.035**  
**association 0.03**  
**clustering 0.005**  
**computer 0.0009**  
...  
**food 0.000001**  
...

How can we get rid of  
these common words?