

# Deficiency of the Simple Mixture Model

- Adjacent words are sampled independently
- Cannot ensure passage cohesion
- Cannot capture the dependency between neighboring words

We apply the text mining algorithm to the **nutrition** data to find patterns ...

Topic 1= text mining  
 $p(w|\theta_1)$

Topic 2= health  
 $p(w|\theta_2)$

Topic 1= text mining  
 $p(w|\theta_1)$

Solution=?