## **LDA Model**

$$\theta \longrightarrow z \longrightarrow w$$
 $D$ 

$$p(W,Z,\Theta) = \prod_{d=1}^{D} p(\theta_d) \prod_{n=1}^{N_d} p(z_{dn}|\theta_d) p(w_{dn}|z_{dn})$$
 for each document

