

LDA Model

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

$$p(\theta_d) \sim \text{Dir}(\alpha)$$

$$p(z_{dn} | \theta_d) = \theta_{dz_{dn}}$$

