

jk-means

1 Generative Model

For $i = 1 \dots n$,

$$\begin{aligned}(w_1, \dots, w_K) &\sim Dir(\alpha, \dots, \alpha) \\ Pr(u_{i1}, \dots, u_{iK}) &= \frac{1}{\binom{K}{J}} \\ m_i &\sim Multi(w_1 u_{i1}, \dots, w_K u_{iK}) \\ y_i &\sim G(\theta_{m_i})\end{aligned}\tag{1}$$

where (u_{i1}, \dots, u_{iK}) is a random sample vector with J 1's and $(K - J)$ 0's.