Dirichlet distribution

$$\operatorname{Dir}(\boldsymbol{\theta}|\alpha) = \frac{1}{B(\alpha)} \prod_{k=1}^{K} \theta_k^{\alpha_k - 1}$$

$$\sum_k \theta_k = 1$$

$$(0, 0, 1)$$

$$\theta_k \ge 0$$

$$(1, 0, 0)$$

$$(0, 1, 0)$$

