



$$\mathbf{x}_n \sim \mathcal{N}_d(0, I)$$

$$y_n \sim \text{Be}(\text{logits} = \mathbf{w}_0 + \mathbf{x}_n \mathbf{w}^T)$$

$$\mathbf{w}_k \sim \mathcal{N}_d(0, I)$$

$$\mathbf{w}_0 \sim \mathcal{N}_K(0, I)$$