



$$\tilde{y}_k \sim \text{normal}(\theta_k, \sigma)$$

$$\theta_k = \mu + \tau \cdot \eta_k$$

$$\eta_k \sim \text{normal}(0, 1)$$

$$\mu \sim \text{normal}(0, 5)$$

$$\tau \sim \text{half-normal}(0, 5)$$