

$$\begin{aligned}\mu_{ij} &= \beta_0 + \beta_1 x_{ij} + \alpha_j \\ y_{ij} &\sim \text{normal}(\mu_{ij}, \sigma^2) \\ \alpha_j &\sim \text{normal}(0, \varsigma^2)\end{aligned}$$

is identical to:

$$\begin{aligned}\mu_{ij} &= \alpha_j + \beta_1 x_{ij} \\ y_{ij} &\sim \text{normal}(\mu_{ij}, \sigma^2) \\ \alpha_j &\sim (\mu_\alpha, \varsigma^2)\end{aligned}$$