$$\mathbf{y}_{overall} = \mathbb{1}_{\hat{y} \geq 4}, \quad \mathbf{y}_{satisfied} = \mathbb{1}_{\hat{y}=5}, \quad \mathbf{y}_{dissatisfied} = \mathbb{1}_{\hat{y}=1}$$

(w/o intent)
$$logit(\mathbf{y}) = ln\left(\frac{\mathbf{y}}{1-\mathbf{y}}\right) = \beta_0 + \sum_j \beta_j \mathbf{b}_j$$

(w intent)
$$logit(\mathbf{y}) = \beta_0 + \sum_j \beta_j \mathbf{b}_j + \sum_k \delta_k \mathbf{d}_k$$

(catch-up, ...)
$$logit(\mathbf{y}^d) = \beta_0^d + \sum_j \beta_j^d \mathbf{b}_j^d$$

$$logit(\mathbf{y}) = \delta_k + \sum_j \beta_j \mathbf{b}_j$$

(multiLevel)
$$\delta_k \sim N(\mu_\delta, \sigma_\delta^2)$$