

$$N(\mu_\alpha, \sigma_\alpha)$$

$$N(\mu_\beta, \sigma_\beta)$$

$$N(\mu_\sigma, \sigma_\sigma)$$

normal distribution

normal distribution

normal distribution



$$N(\alpha_1 + \beta_1 \cdot x_{1,i}, \sigma_1)$$

$$N(\alpha_2 + \beta_2 \cdot x_{2,i}, \sigma_2)$$

$$N(\alpha_m + \beta_m \cdot x_{m,i}, \sigma_m)$$

linear normal model

linear normal model

linear normal model

$$y_{1,i} | x_{1,i}$$

$$y_{2,i} | x_{2,i}$$

$$y_{m,i} | x_{m,i}$$