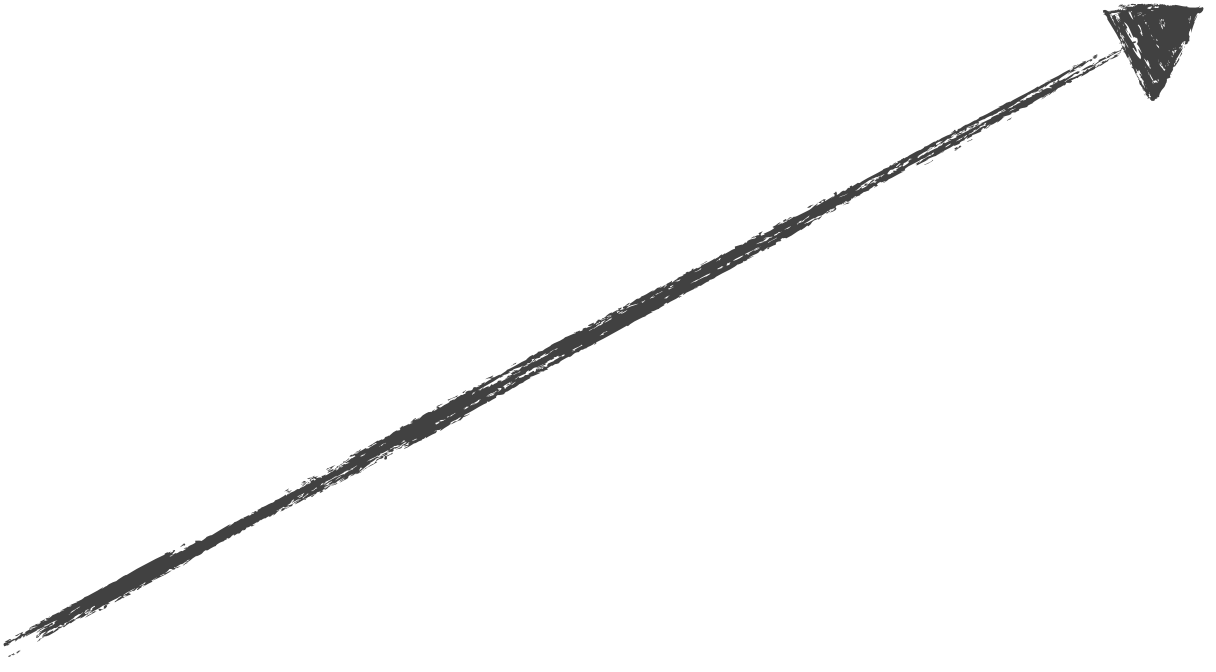
MODEL WITH BLOCK EFFECTS

Outcome: L_i = pulled left

$$L_i \sim Bernoulli(p_i)$$

$$logit(p_i) = \alpha_{actor[i]} + \gamma_{block[i]} + \beta_{treatment[i]}$$



Accounts systematic differences across blocks.

Next step is to add priors that introduce dependencies across coefficients.

MODEL WITH BLOCK EFFECTS

Outcome: L_i = pulled left

$$L_i \sim Bernoulli(p_i)$$

$$logit(p_i) = \alpha_{actor[i]} + \gamma_{block[i]} + \beta_{treatment[i]}$$

Accounts systematic differences across blocks.

Next step is to add priors that introduce dependencies across coefficients.

ADDING REGULARIZING PRIORS FOR BLOCK

Outcome: L_i = pulled left

$$L_i \sim Bernoulli(p_i)$$

$$logit(p_i) = \alpha_{actor[i]} + \gamma_{block[i]} + \beta_{treatment[i]}$$

$$\gamma_j \sim Normal(0, \sigma_\gamma), \text{for } j = 1..6$$