

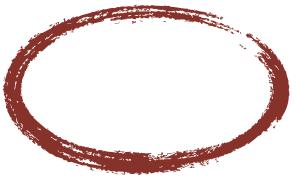


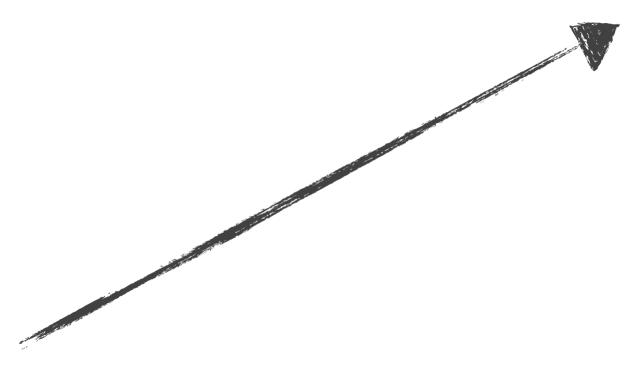
## WITH BLOCK MODEL



Outcome:  $L_i$  = pulled left

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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  $L_i \sim Bernoulli(p_i)$   $logit(p_i) = \alpha_{actor[i]} + \gamma_{block[i]} + \beta_{treatment[i]}$   $\gamma_i \sim Normal(0, \ \sigma_{\gamma}), \text{for } j = 1..6$