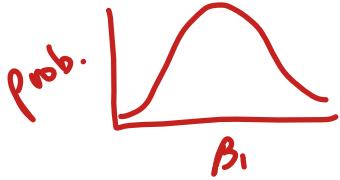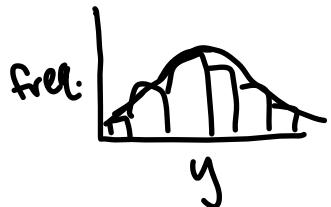prob.

β_1

distribution = effect + uncertainty

priors

MCMC

hypothesis about effect of x on y →

data on predictor (x) and response(y) →

build model with predictor and response →

Point estimate = effect
CI = uncertainty

$\beta_1 = 0.5 \pm 0.2$

frel.

y

$y \sim Normal(\mu, \sigma)$

$\mu = \beta_0 + \beta_1 X$

$lmer(y \sim X, data = d)$