

Name of declaration

declaration\_4.1 <-

Number of units

Variable in the model (U represents unknown heterogeneity)

declare\_model(N = 100, U = rnorm(N),

Declaration of a  
research design element

potential\_outcomes(Y ~ 0.25 \* Z + U)) +

declare\_inquiry(PATE = mean(Y\_Z\_1 - Y\_Z\_0)) +

declare\_sampling(S = complete\_rs(N, n = 50)) +

declare\_assignment(Z = complete\_ra(N, prob = 0.5)) +

declare\_measurement(Y = reveal\_outcomes(Y ~ Z)) +

declare\_estimator(Y ~ Z, model = difference\_in\_means, inquiry = "PATE")

Statistical model

Links estimates to estimands  
by name

Model

Inquiry

Data  
strategy

Answer  
strategy