

[1] -- Monday, October 31, 2022 -- 19:31:40

t tests – Linear multiple regression: Fixed model, single regression coefficient

Analysis: A priori: Compute required sample size
Input: Tail(s) = One
Effect size f^2 = 0.02
 α err prob = 0.05
Power (1- β err prob) = 0.8
Number of predictors = 10
Output: Noncentrality parameter δ = 2.4939928
Critical t = 1.6499487
Df = 300
Total sample size = 311
Actual power = 0.8005282

[2] -- Monday, October 31, 2022 -- 19:31:47

t tests – Linear multiple regression: Fixed model, single regression coefficient

Analysis: A priori: Compute required sample size
Input: Tail(s) = One
Effect size f^2 = 0.15
 α err prob = 0.05
Power (1- β err prob) = 0.8
Number of predictors = 10
Output: Noncentrality parameter δ = 2.5690465
Critical t = 1.6923603
Df = 33
Total sample size = 44
Actual power = 0.8081080

[3] -- Monday, October 31, 2022 -- 19:31:48

t tests – Linear multiple regression: Fixed model, single regression coefficient

Analysis: A priori: Compute required sample size
Input: Tail(s) = One
Effect size f^2 = 0.35
 α err prob = 0.05
Power (1- β err prob) = 0.8
Number of predictors = 10
Output: Noncentrality parameter δ = 2.7110883
Critical t = 1.8124611
Df = 10
Total sample size = 21
Actual power = 0.8095725

[4] -- Monday, October 31, 2022 -- 19:32:11

t tests – Linear multiple regression: Fixed model, single regression coefficient

Analysis: Sensitivity: Compute required effect size
Input: Tail(s) = One
 α err prob = 0.05
Power (1- β err prob) = 0.8
Total sample size = 82
Number of predictors = 10
Output: Noncentrality parameter δ = 2.5105145
Critical t = 1.6665997
Df = 71
Effect size f^2 = 0.0768620

[5] -- Monday, October 31, 2022 -- 19:33:19

t tests – Linear multiple regression: Fixed model, single regression coefficient

Analysis: Sensitivity: Compute required effect size
Input: Tail(s) = One
 α err prob = 0.05
Power (1- β err prob) = 0.8
Total sample size = 172
Number of predictors = 10
Output: Noncentrality parameter δ = 2.4969890
Critical t = 1.6543731
Df = 161
Effect size f^2 = 0.0362497