

Classification with Measurement Error

Sarah Shy, Jonathan Hehir

April 21, 2020

(this slide is blank)

Introduction

What is measurement error?

In many statistical scenarios, we assume that our variables are exact measurements from some sample.

What is measurement error?

In many statistical scenarios, we assume that our variables are exact measurements from some sample.

This is often **false**.

(An example citation: Ogden et al. (2014).)

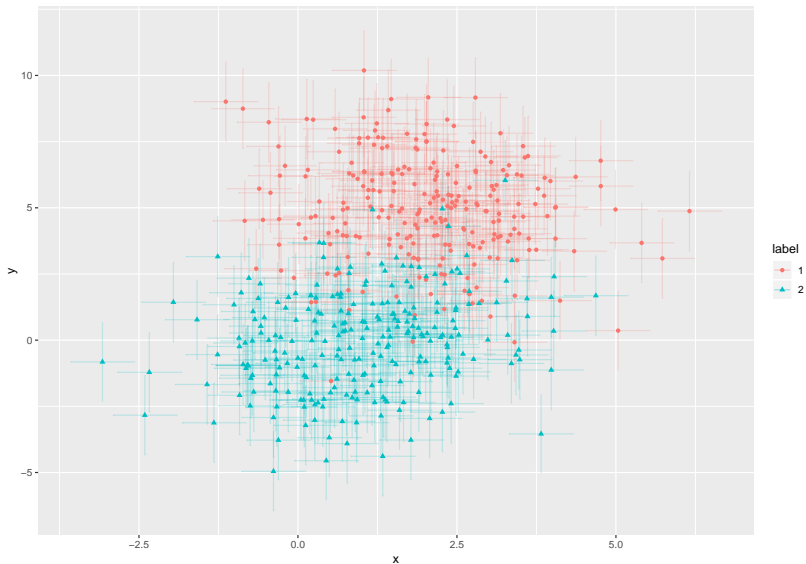
Example: A Clean Sample

This is an example of a nice sample.



Example: Noisy Sample

This is the exact same sample, but with some error added to each point.



What happens now?

blah blah

The End

Bibliography

Ogden, C. L., Carroll, M. D., Kit, B. K., and Flegal, K. M. (2014), "Prevalence of childhood and adult obesity in the united states, 2011-2012," *Jama*, American Medical Association, 311, 806–814.