



















Nonlinear Regression

• We call our regression nonlinear if it is nonlinear in the coefficients

– Linear regression: $\hat{y} = \beta_0 + \beta_1 \ln(x) + \beta_2 x^3$ – Nonlinear regression: $\hat{y} = \beta_0 e^{\beta_1 x}$ • Linear regression is relatively easy

– Numerically stable with unique solution given a reasonable definition of "best" fit

• Nonlinear regression is relatively hard

