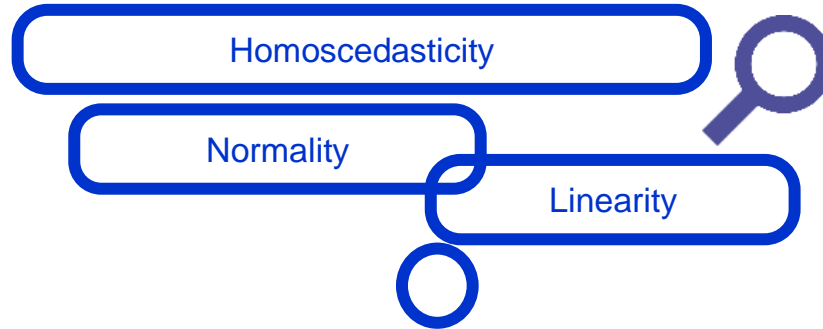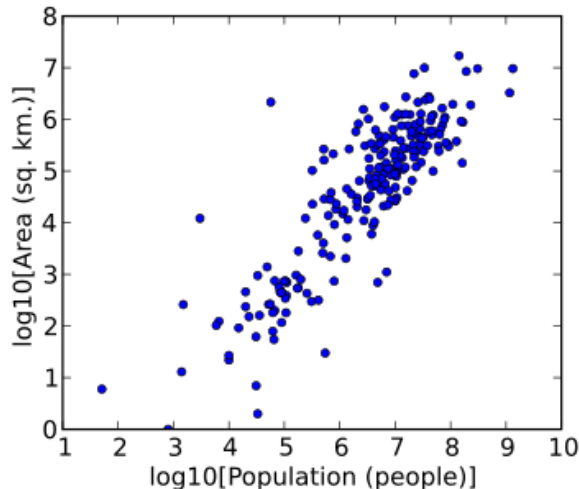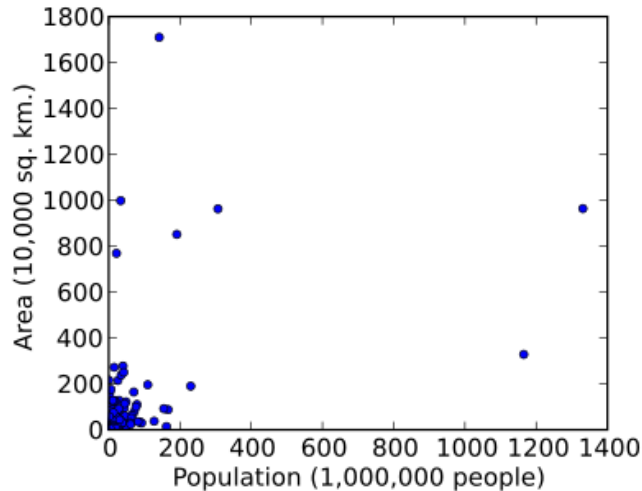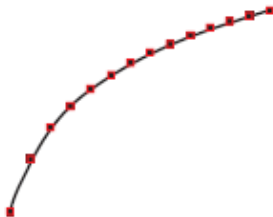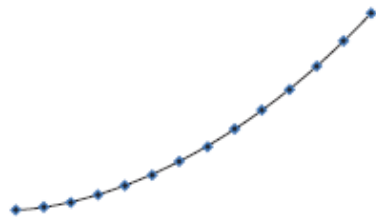# Transformations

Transformation

- The transformed data must comply with the conditions
- Then we fit a new model on the transformed data.

$$(\log y) = \beta_0 + \beta_1 \cdot (\log x)$$
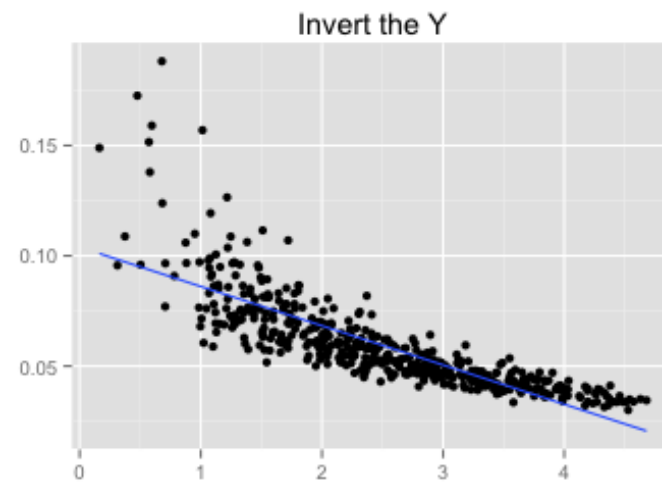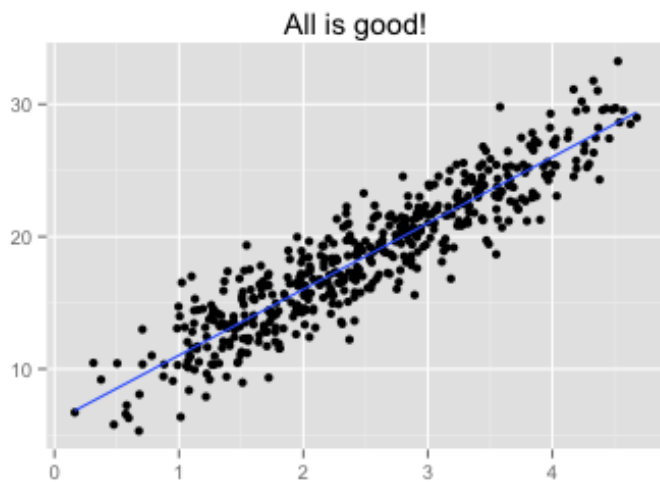
$$y = \beta_0 + \beta_1 \cdot (\log x)$$

$$(\log y) = \beta_0 + \beta_1 \cdot x$$

Most common transformations

Exponential	Logarithmic	Power
$y = a * b^x$	$y = a + (b * \log(x))$	$y = a * x^b$

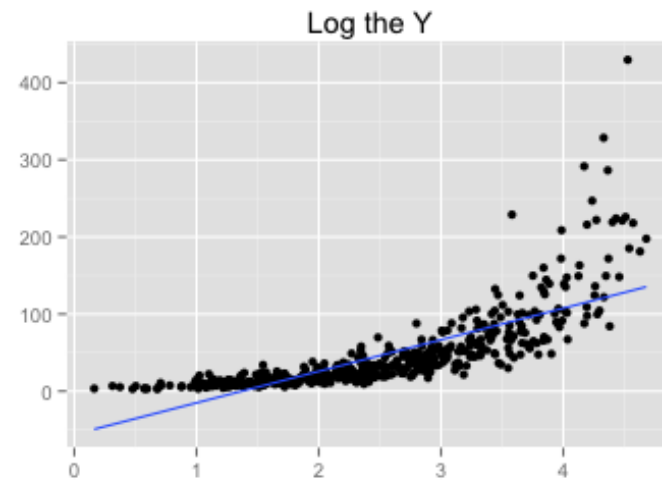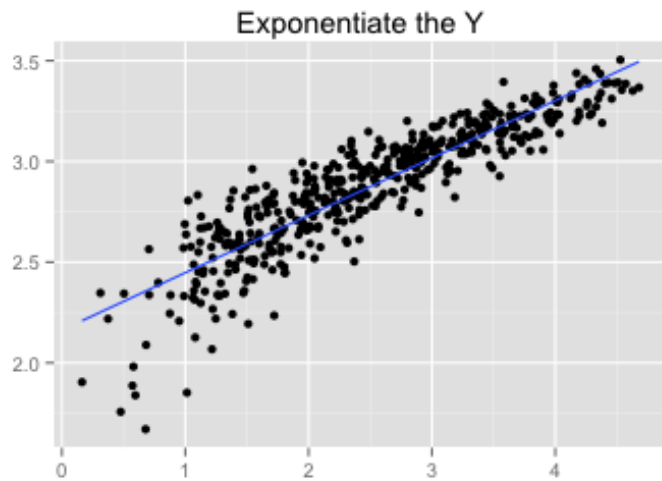Plot from STATISTICS FROM A TO Z. Confusing Concepts Clarified

Typical transformations

Plot by William Chen

Typical transformations

Typical transformations