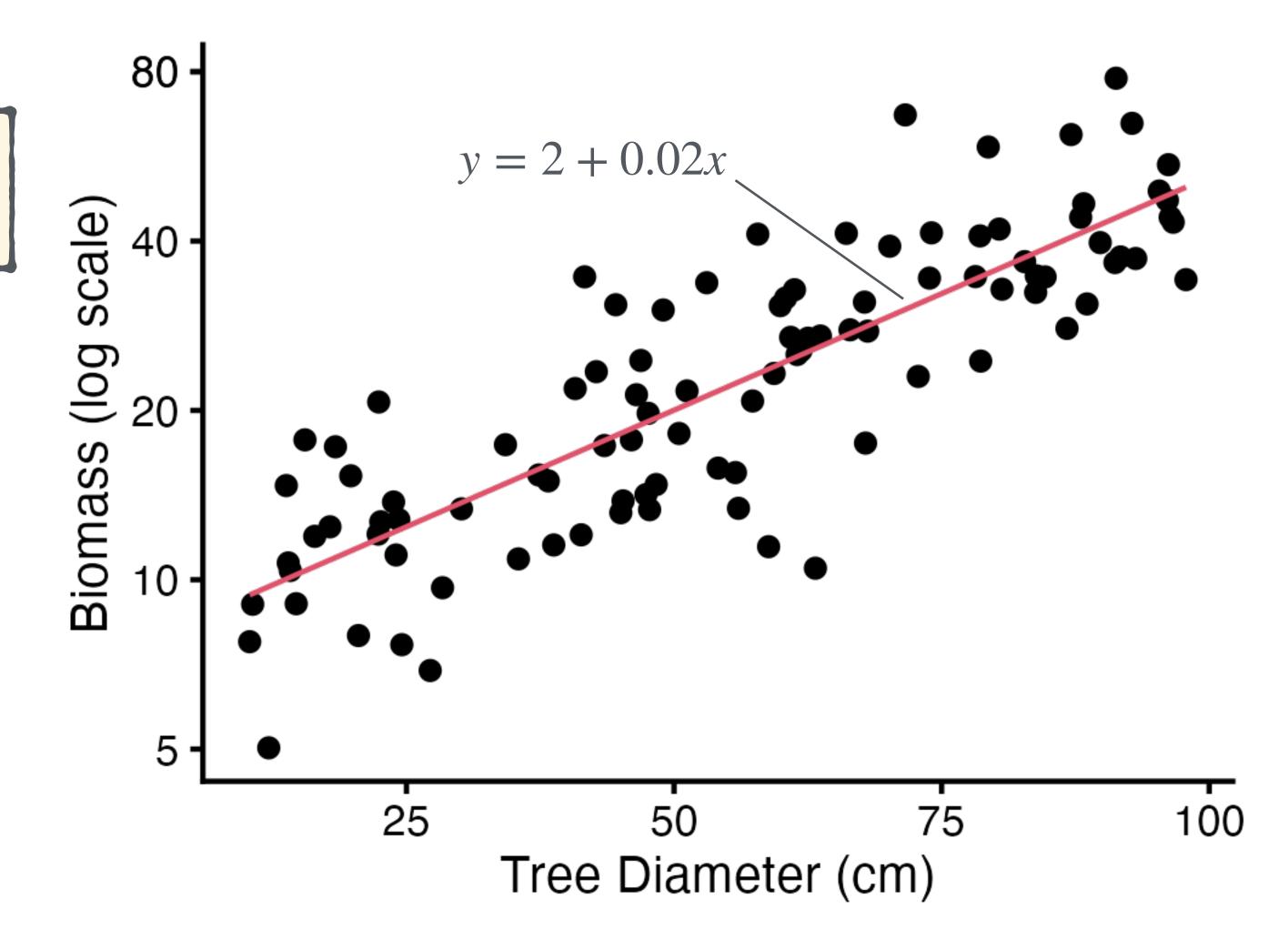
Biomass by diameter

Example of non-linear relation

Option 1: log-transform y

Option A: Assign y a log-normal likelihood



Power-law relations.

Log-log regressions

 Several biological relations take the form of power-law relations

$$y \propto ax^b$$

- These appear for different reasons:
 - West et al. (1997) attempt to link scaling laws to fractal relations at different scales
 - Every time a proportional increase leads to a consistent proportional change (like in species-area relations)

