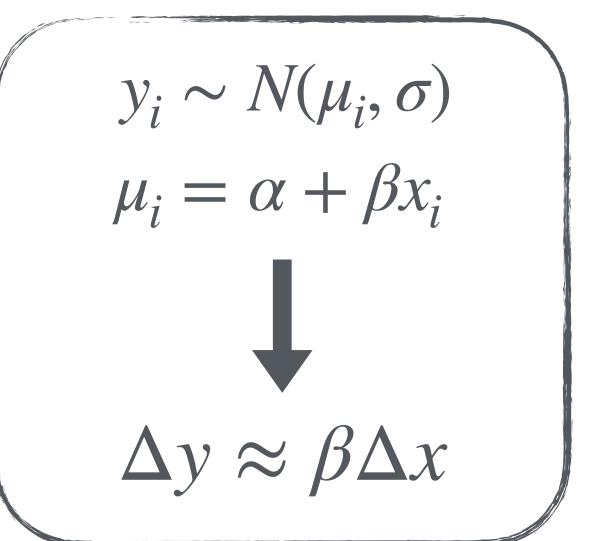
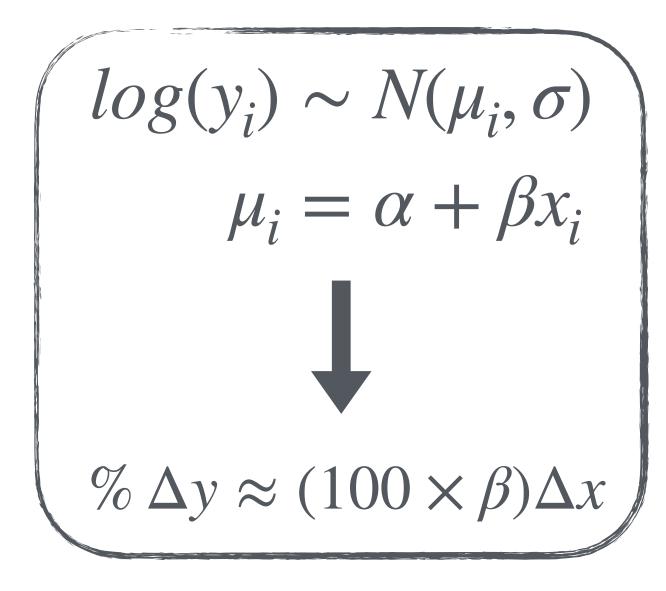
Log transforming the response

Multiplicative increments

- The **logarithmic transformation** of the response is a common transformation when the effect of the predictor on the response is thought to be multiplicative
 - A change of a unit in x is associated with a constant percentage change in y
- Many processes benefit from log transformation:
 - Growth is proportional do previous size
 - Any multiplicative process





Biomass by diameter

Example of non-linear relation

Option 1: log-transform y

Option A: Assign y a log-normal likelihood

