# Lecture slides

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# Lecture 1

# A general model

Consider the first order difference equation

$$N_{t+1} = N_t f(N_t) = H(N_t), \tag{1}$$

where $f(N_t)$ is a function that defines the per capita growth rate. The function $H(N_t)$ describes the total (net) growth rate.

# The Malthusian model

# The Ricker model

$$N_{t+1} = N_t e^{r(1-\frac{N_t}{K})}.$$