

LogLinear2 model equation is:

$$\log_{10}(N_t) = \log_{10}(N_0) - (t \times (k_{max} / \ln(10)))$$

where t is time, \log_{10} is base 10 logarithm, \ln is natural logarithm. The parameters to estimate are k_{max} and $\log_{10}(N_0)$.

The noisy output is defined as:

$$\log_{10}(N_t) = \mathcal{N}(\log_{10}(N_t), \%noise)$$

i.e random number from the normal distribution with mean parameter $\log_{10}(N_t)$ and standard deviation parameter $\%noise$.

Example of LogLinear2 curve

Time unit is mn. Maximal time is 100mn. $k_{max} = 0.1$ and $\log_{10}(N_0) = 3$

