

Frame title goes here

The Discrete Noiseless Channel

In the more general case with different length of symbols and constraints on the allowed sequences, we make the following definition:

The capacity C of a discrete channel is given by

$$C = \lim_{T \to \infty} \frac{\log N(T)}{T}$$

where N(T) is the number of allowed signals of duration T.

Theorem

$$C = \lim_{T \to \infty} \frac{LogAX_0^T}{T} = logX_0$$