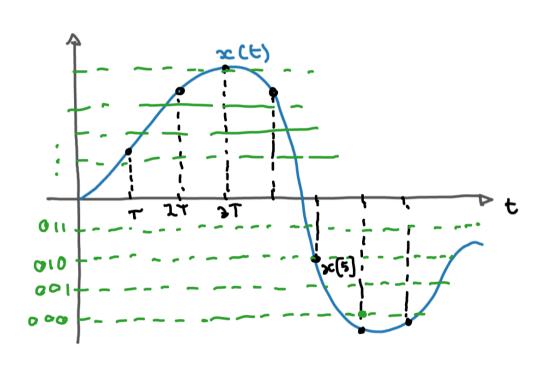
Analog-to-digital conversion

Quantisation and sampling

Herman Kamper

Analog-to-digital conversion



$$\propto [n] = \propto (nT)$$

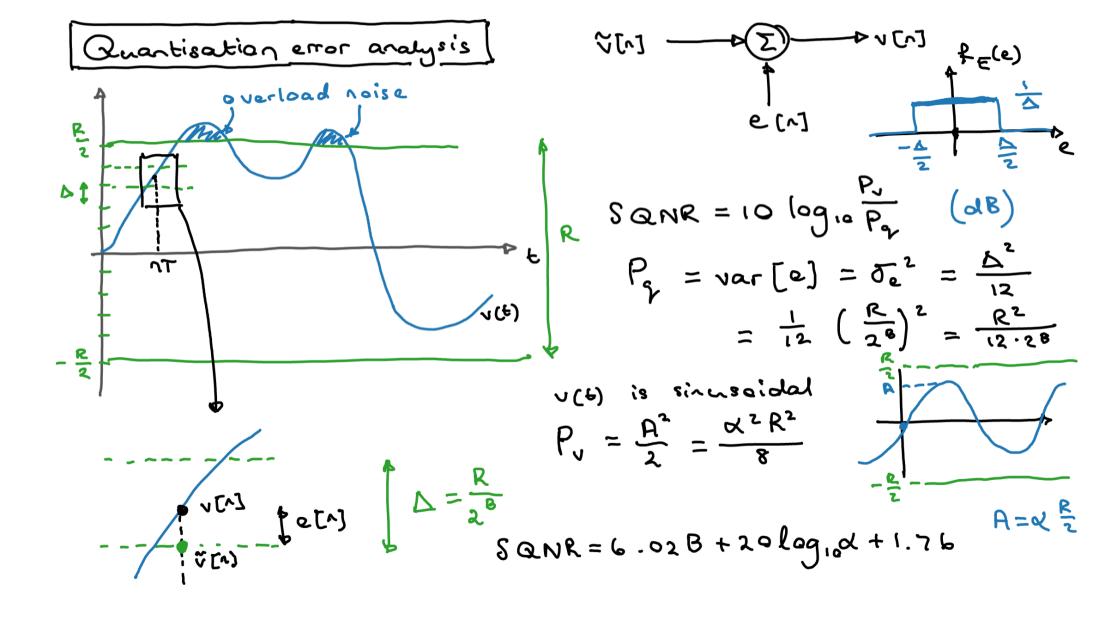
$$= \propto (nT)$$

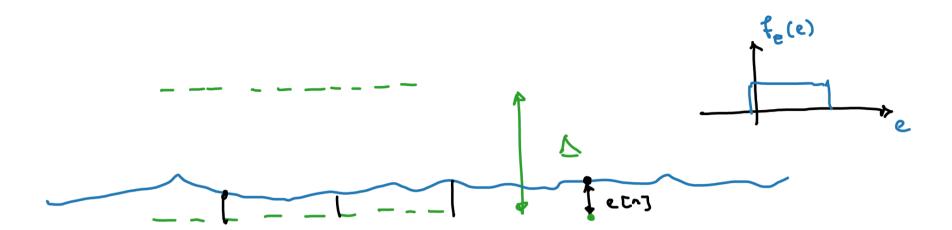
$$= \propto (nT)$$

Two ways things get mapped:

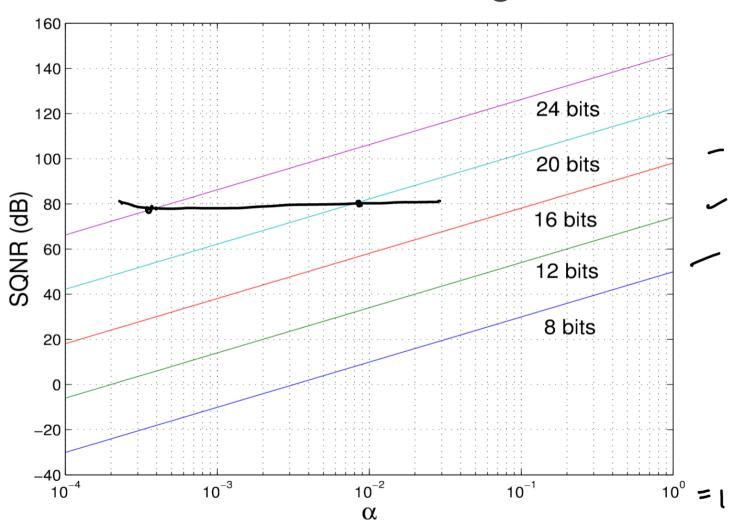
(i) Discrete in time

- 2) Discrete amplitude

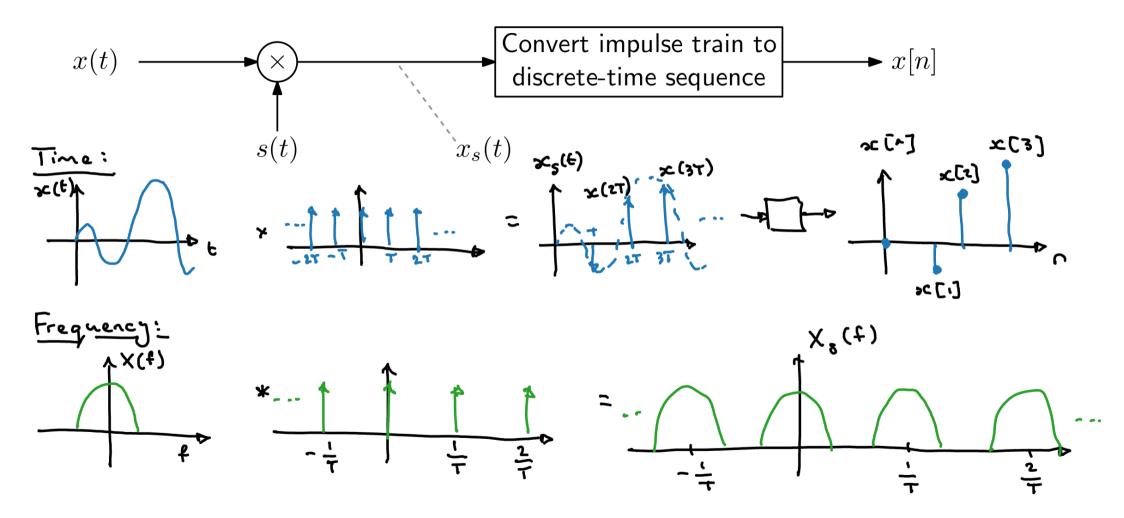


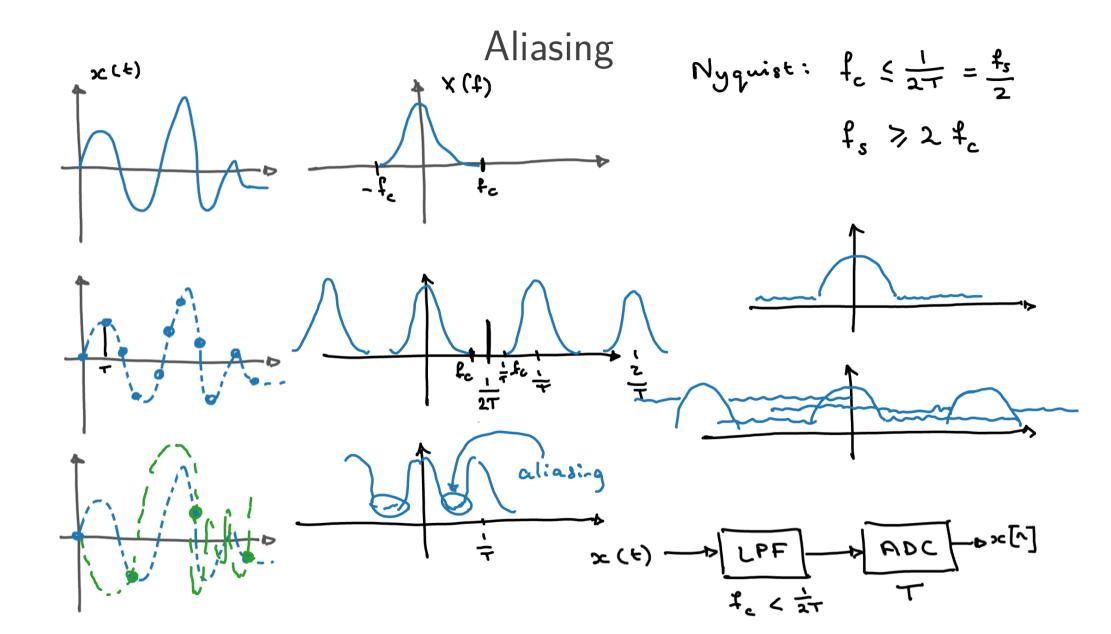


SQNR for sinusoidal signals



Discretising in time





FT -> DTFT --- DFT