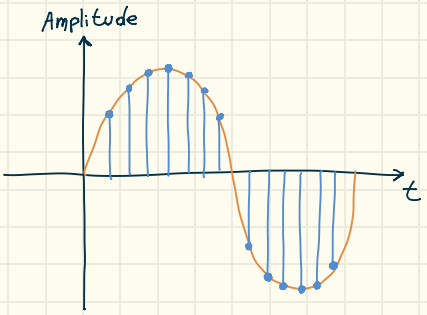
PCM - PULSE CODE MODULATION

Analog -> Digital

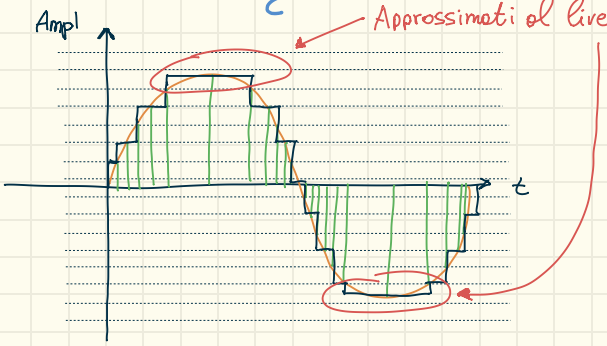
Sampling (1) -> Quantizing (2) -> Encoding (3)

1) SAMPLING



Telefono	8 KHz	8×10^3/s
VoIP	16 KHz	16×10^3/s
Audio - mp3	44 KHz	44×10^3/s
Blue Ray	1 MHz	1×10^6/s

2) Quantizing



Bit depth: Il numero di bit per ogni campione. Comuni AD: 8 / 16 / 24 bit

8 bit -> 2^8 = 256 livelli

⋮

24 bit -> 2^{24} = 16.777.216 livelli (16 milioni)

Più varietà di valori

3) CODIFICA

Convertiamo i livelli ottenuti in word di bit 01...00101