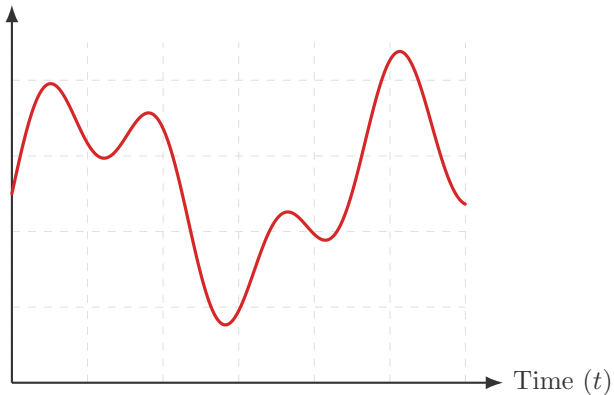## Analog Signal
(Continuous Time & Amplitude)

Amplitude ($A(t)$)
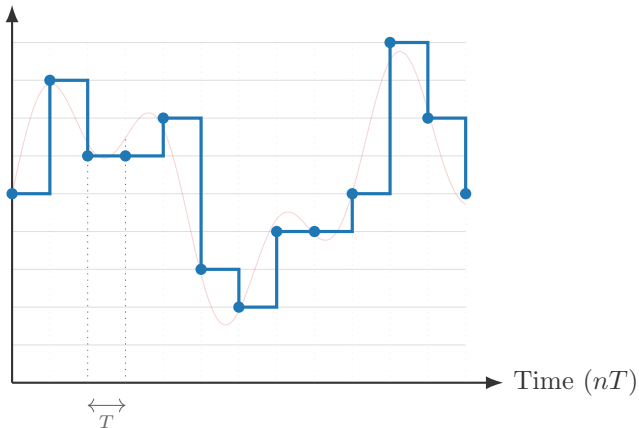

Time (t)

Signal changes smoothly over time.
Can take any value within a range.

Digital Signal
(Discrete Time & Amplitude)

Amplitude ($D[n]$)

T

Time (nT)

Signal represented by discrete steps.
Sampled at specific times ($T = 0.5$).