## Digital sound waves

- Problem: Computers deal with discrete data (zeros and ones)
  - We need to convert (sample) the continuous signal into digital presentation
    - Sampling converts a time-varying voltage signal into a discrete-time signal, a sequence of real numbers.
    - Quantization replaces each real number with an approximation from a finite set of discrete values.

## Analog signal to digital signal: Sampling

Sampling period = 1/sampling rate (seconds)

