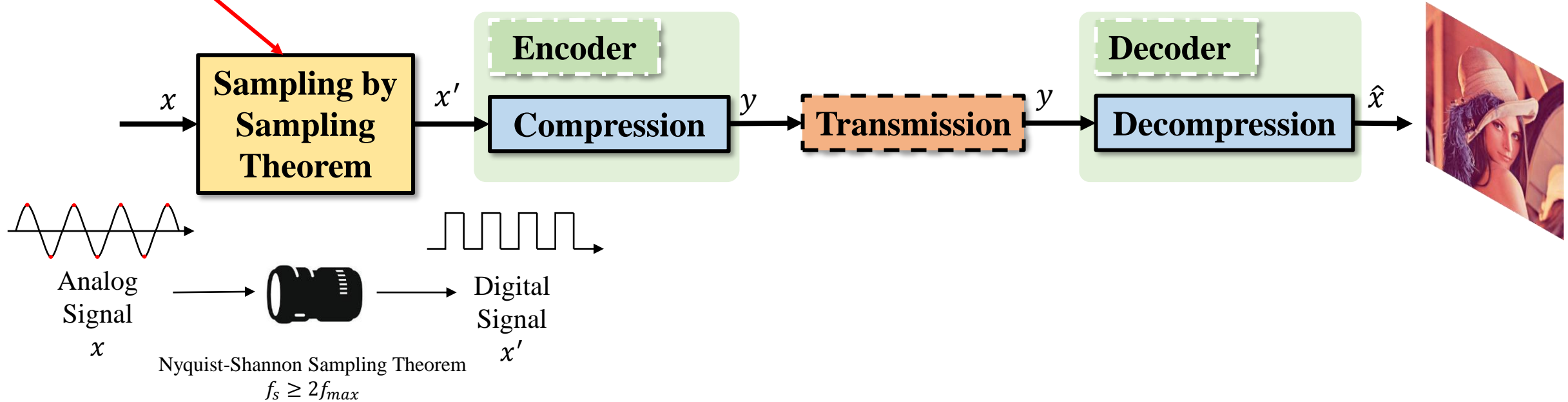The convolutional codecs include HEVC[1], MPEG[2], JPEG[3], etc.

More hardware resources are required for sampling

Sampling by Sampling Theorem

Encoder

Compression

Transmission

Decoder

Decompression

x x' y y $\hat{x}$

Analog Signal x

Digital Signal x'

Nyquist-Shannon Sampling Theorem
$f_s \geq 2f_{max}$

[1] Sze, Vivienne, Madhukar Budagavi, and Gary J. Sullivan. "High efficiency video coding (HEVC)." Integrated circuit and systems, algorithms and architectures. Vol. 39. Berlin, Germany: Springer, 2014. 40.
[2] Le Gall, Didier. "MPEG: A video compression standard for multimedia applications." Communications of the ACM 34.4 (1991): 46-58.
[3] Wallace, Gregory K. "The JPEG still picture compression standard." IEEE transactions on consumer electronics 38.1 (1992): xviii-xxxiv.