

H
impulse response $h(n)$

$$x(n) \rightarrow \boxed{H} \rightarrow y(n)$$

$$y(n) = \sum_k h(k) x(n-k)$$

Convolution

$$y = h * x = \sum_k h(k) x(n-k)$$

$$y(n) = h(n) * x(n)$$