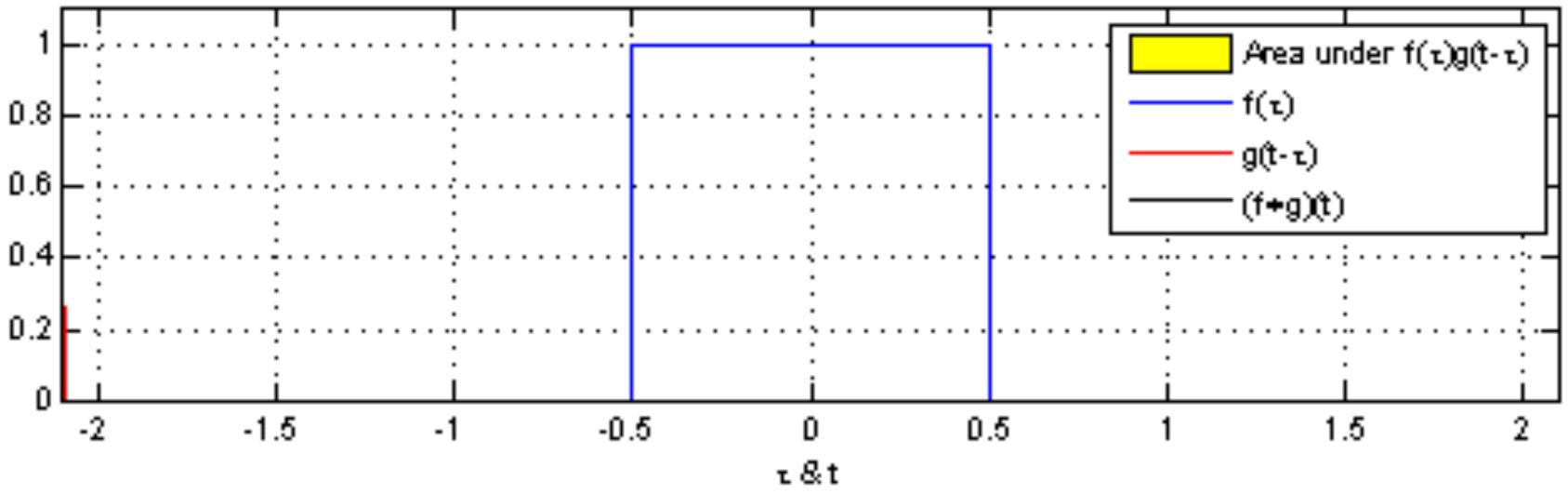
Convolution

$$\begin{cases} \sum_{j=-s}^{s} c_j h_{i-j}^r \\ j=-s \end{cases}$$

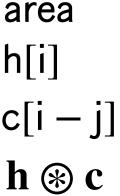
h:+1

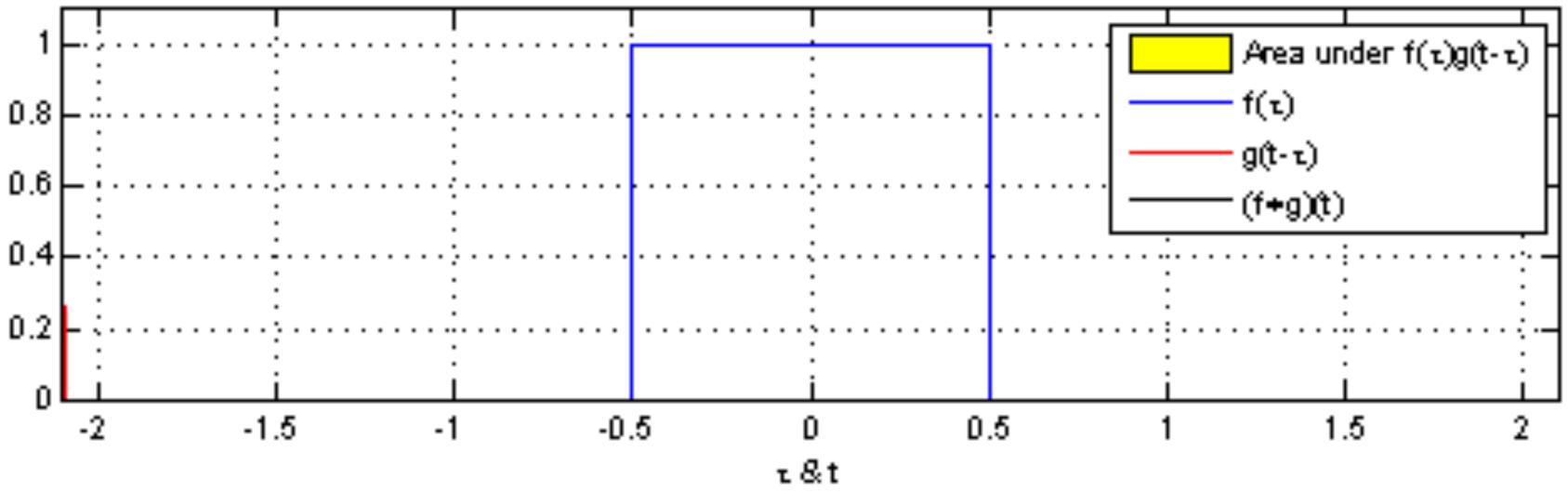
$$(\mathbf{c} \circledast \mathbf{h})_{i} = \sum_{i=-\infty}^{3} \mathbf{c}_{i} \, \mathbf{h}_{i-j}$$





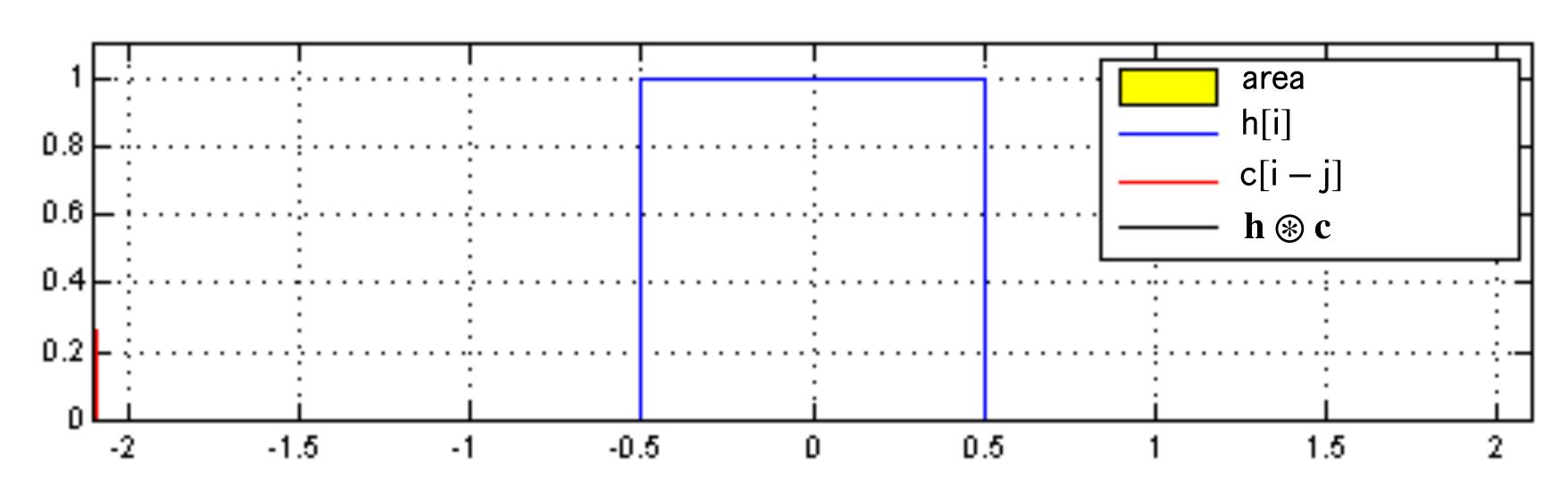






Convolution

$$h_i^{r+1} = \sigma \left(\sum_{j=-s}^{s} c_j h_{i-j}^r \right) \qquad (\mathbf{c} \circledast \mathbf{h})_i = \sum_{j=-s}^{s} c_j h_{i-j}$$



Boundary Conditions

For $i \leq s$ and i > r - s:

Convolution is not uniquely defined