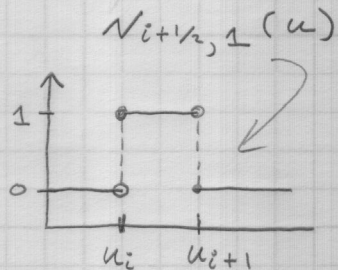


$$N_{i,1}(u) = \begin{cases} 1 & \text{if } u_{i-1/2} \leq u < u_{i+1/2} \\ 0 & \text{else} \end{cases}$$



$$N_{i,k}(u) = \frac{(u - u_{i-k/2}) N_{i-k/2, k-1}(u)}{u_{i+k/2-1} - u_{i-k/2}} \quad \leftarrow \text{"Term \#1"}$$

$k \geq 2$ ↗

$$+ \frac{(u_{i+k/2} - u) N_{i+1/2, k-1}(u)}{u_{i+k/2} - u_{i-k/2+1}} \quad \leftarrow \text{"Term \#2"}$$

recursive defn.