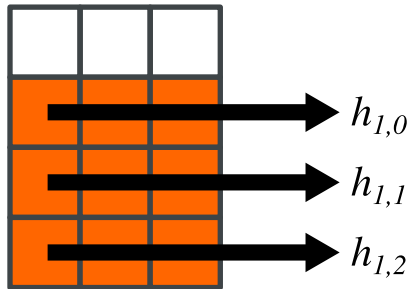
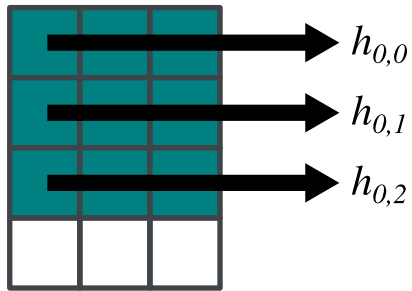


$$h_{i,j} = k_0 \cdot I_{i,j-1} + k_1 \cdot h_{i,j} + k_2 \cdot h_{i,j+1}$$



$$v_o = q_0 \cdot h_{0,0} + q_1 \cdot h_{0,1} + q_2 \cdot h_{0,2}$$

$$v_x = q_0 \cdot h_{1,0} + q_1 \cdot h_{1,1} + q_2 \cdot h_{1,2}$$



$$h_{1,0} = h_{0,1}$$

$$h_{1,1} = h_{0,2}$$

Shared between pixels **o** and **x**



$$v_x = q_0 \cdot h_{0,1} + q_1 \cdot h_{0,2} + q_2 \cdot h_{1,2}$$