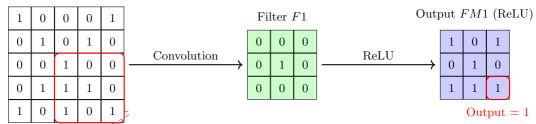
Filter F1 (Identity Filter)



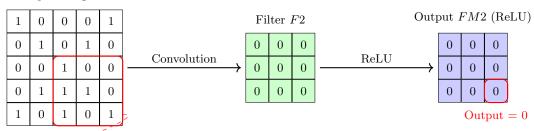


Input Region for Output (3,3)

Calculation for Output (3,3): 
$$(1 \cdot 0) + (0 \cdot 0) + (0 \cdot 0) + (1 \cdot 0) + (1 \cdot 0) + (0 \cdot 0) + (1 \cdot$$

Filter F2 (Zero Filter)

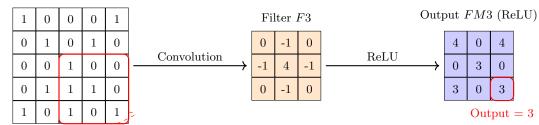




Calculation for Output (3,3): 
$$(1 \cdot 0) + (0 \cdot 0) + (0 \cdot 0) + (1 \cdot 0) + (0 \cdot 0) + (1 \cdot 0) + (0 \cdot 0) + (1 \cdot 0) = 0$$

Filter F3 (Edge Detector)





Calculation for Output (3,3): 
$$(1 \cdot 0) + (0 \cdot -1) + (0 \cdot 0) + (1 \cdot -1) + (1 \cdot 4) + (0 \cdot -1) + (1 \cdot 0) + (0 \cdot -1) + (1 \cdot 0) = 3$$