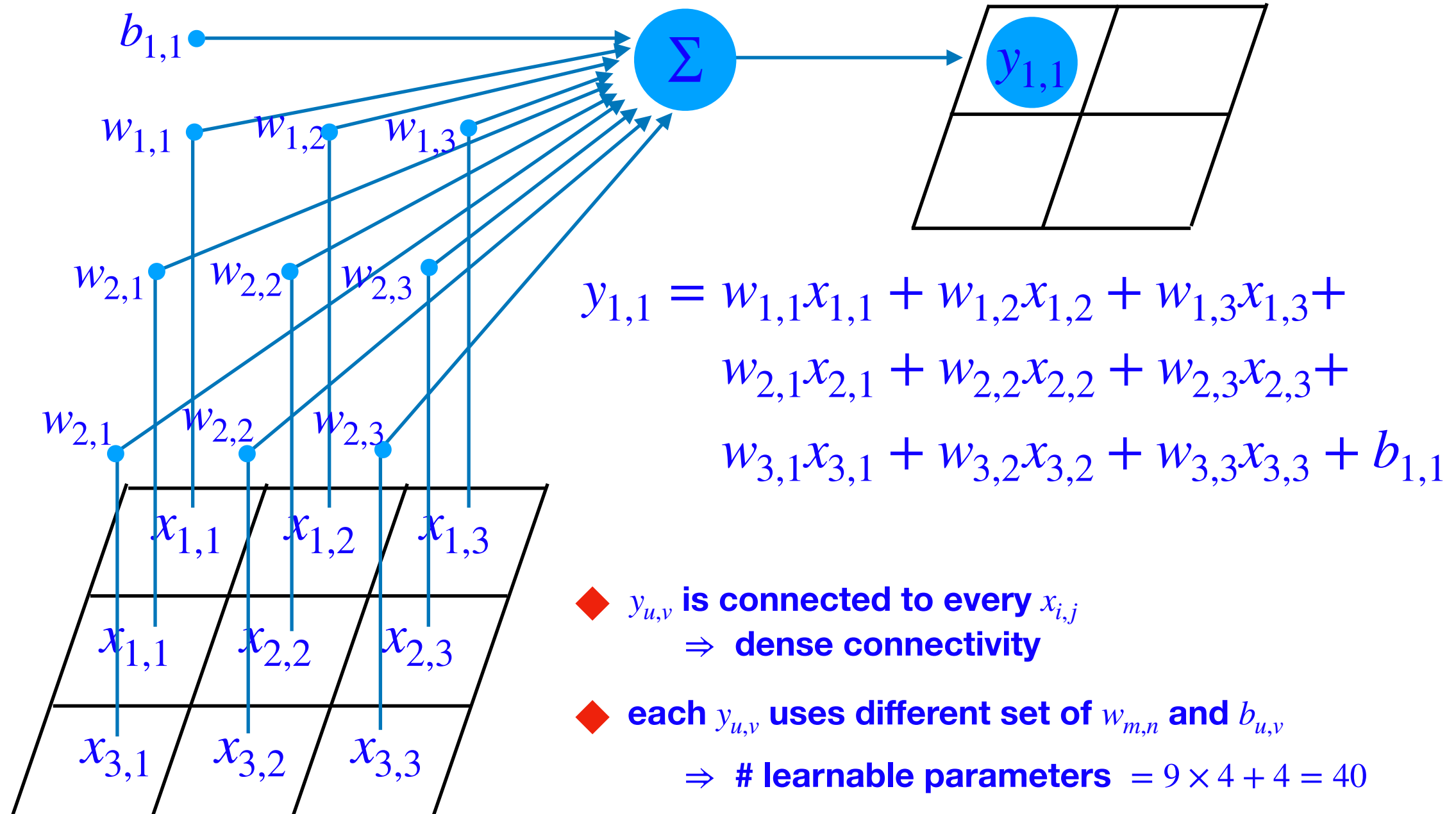
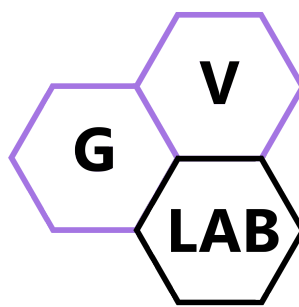
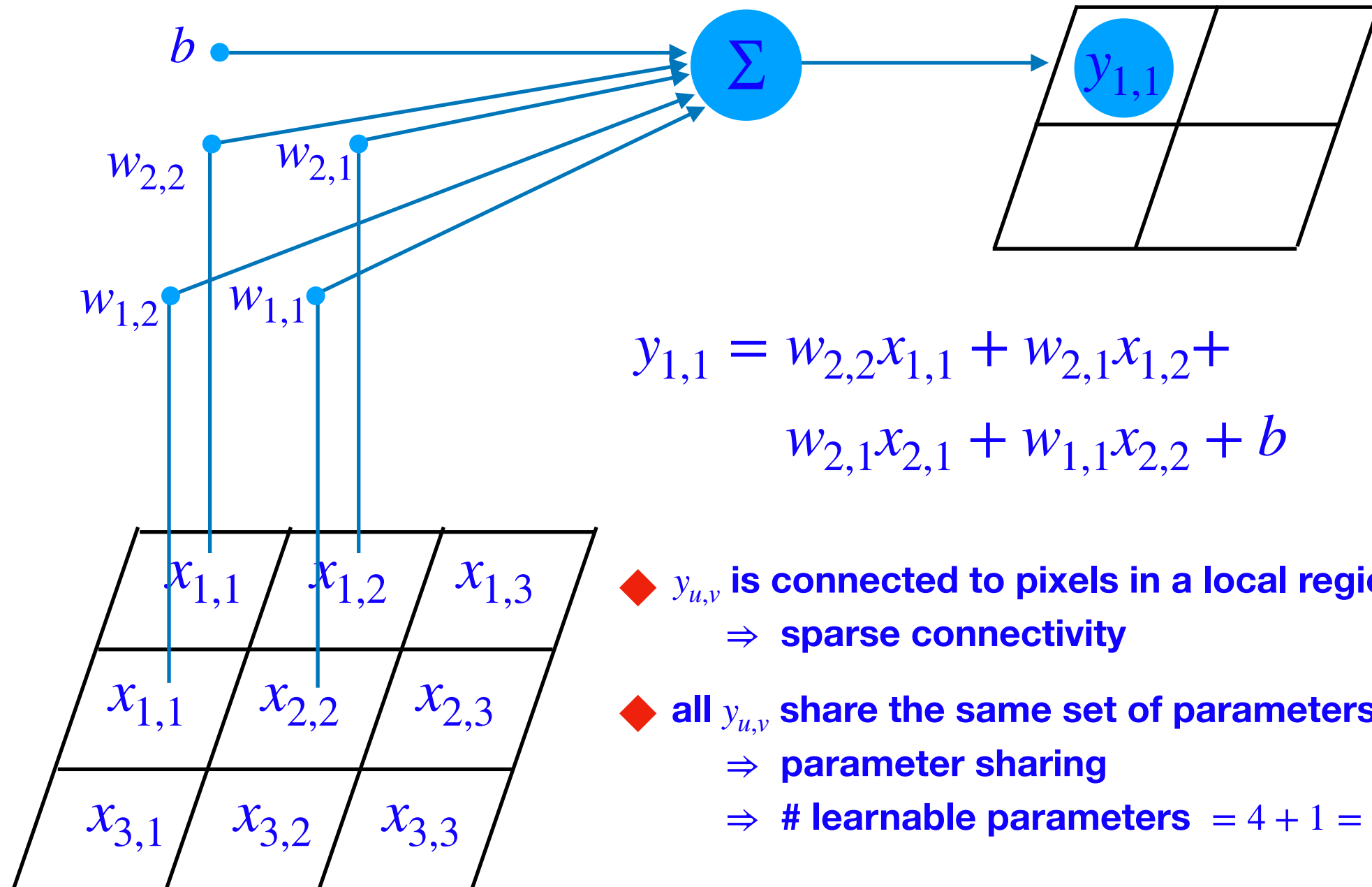
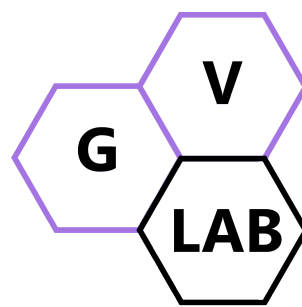


Fully-connected layer



Convolution layer



- ◆ $y_{u,v}$ is connected to pixels in a local region of X
 \Rightarrow sparse connectivity
- ◆ all $y_{u,v}$ share the same set of parameters: $w_{m,n}$ and b
 \Rightarrow parameter sharing
 \Rightarrow # learnable parameters = $4 + 1 = 5$