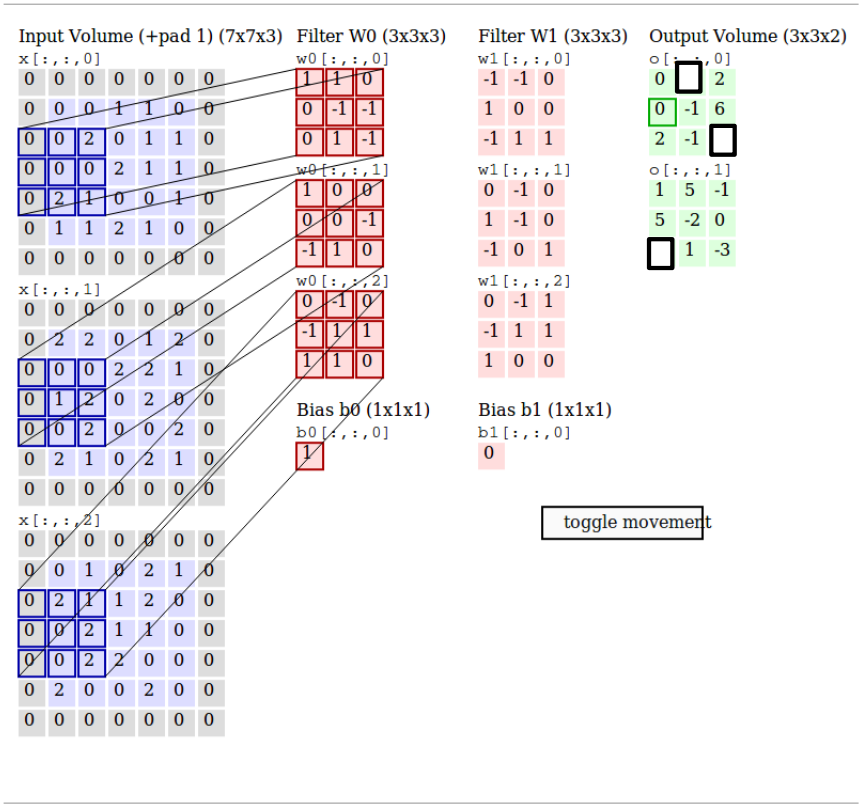
Lesson 20 (Tensors and Convolution) Consider the input tensor, **X**, weight tensor, **W**, bias vector, **b**, output tensor, **Y** and the convolution operation shown below. Each element in the output tensor is computed by computing a "local" **X** and **W** tensor dot product plus a bias.



http://cs231n.github.io/convolutional-networks/

1. Fill in the table below for the tensors shown above.

tensor	dimension	shape	data type
X			
W			
b			
Y			

2. Fill in the blank spots in output tensor **Y** shown above.
3. Write numpy code for computing the output tensor **Y** shown above. Use the skeleton code contained in the file

`TensorsAndConvolution-skeleton.ipynb`