

Input Volume (+pad 1) (7x7x3)

 $x[:, :, 0]$

0	0	0	0	0	0	0
0	1	2	1	1	1	0
0	1	0	2	0	2	0

0	1	0	2	0	1	0
0	2	2	0	2	0	0
0	2	2	1	1	0	0
0	0	0	0	0	0	0

 $x[:, :, 1]$

0	0	0	0	0	0	0
0	0	2	1	0	1	0
0	2	2	2	2	1	0

0	0	1	1	1	1	0
0	1	1	0	0	0	0
0	0	0	2	2	2	0
0	0	0	0	0	0	0

 $x[:, :, 2]$

0	0	0	0	0	0	0
0	0	1	2	2	1	0
0	2	0	0	2	1	0
0	2	2	2	0	0	0

Filter W0 (3x3x3)

 $w0[:, :, 0]$

0	0	-1
1	0	0
0	0	1

 $w0[:, :, 1]$

0	1	-1
-1	1	-1
0	-1	0

 $w0[:, :, 2]$

0	1	-1
1	-1	0
0	0	-1

Bias $b0$ (1x1x1) $b0[:, :, 0]$

1

Filter W1 (3x3x3)

 $w1[:, :, 0]$

0	1	0
0	0	1
0	0	0

 $w1[:, :, 1]$

0	-1	-1
-1	0	0
-1	0	0

 $w1[:, :, 2]$

0	0	-1
1	-1	0
1	-1	0

Bias $b1$ (1x1x1) $b1[:, :, 0]$

0

Output Volume (3x3x2)

 $o[:, :, 0]$

-3	-3	3
0	-2	3
-2	2	3

 $o[:, :, 1]$

0	-4	0
-5	-6	0
1	1	-3

toggle movement