

Input Volume (+pad 1) (7x7x3)

$$x[:, :, 0]$$

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

$$x[:, :, 1]$$

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

$$x[:, :, 2]$$

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

Filter W0 (3x3x3)

$$w0[:, :, 0]$$

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

$$w0[:, :, 1]$$

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

$$w0[:, :, 2]$$

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

Bias b0 (1x1x1)

$$b0[:, :, 0]$$

1

Filter W1 (3x3x3)

$$w1[:, :, 0]$$

1	-1	-1
-1	-1	1
-1	-1	1

$$w1[:, :, 1]$$

1	0	0
0	1	0
-1	0	0

$$w1[:, :, 2]$$

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

Bias b1 (1x1x1)

$$b1[:, :, 0]$$

0

Output Volume (3x3x2)

$$o[:, :, 0]$$

4	2	-2
4	0	-4
3	-9	-1

$$o[:, :, 1]$$

-2	-2	-3
-4	-4	-1
-4	2	0