

```
conv = mx.gluon.nn.Conv1D(channels=1, kernel_size=3)
```

Input

Kernel

Output

1	3	3	0	1	2			2	0	1			5	6	7	2
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conv = mx.gluon.nn.Conv1D(channels=1, kernel_size=3, padding=1, st																
<u>Input</u>								<u>Kernel</u>			<u>Intermediate Output</u>				<u>Output</u>	
0	1	3	3	0	1	2	0	2	0	1	3	6	2	3	6	2

```
conv = mx.gluon.nn.Conv1D(channels=1, kernel_size=3)
```

Shape inference will be used to determine `in_channels=4` automatically.

Input

Kernel

Output

1	3	3	0	1	2
0	2	1	1	2	0
3	2	2	3	1	1
2	1	2	0	0	1

2	0	1
1	1	2
3	0	1
1	2	0

24	25	22	15
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```
conv = mx.gluon.nn.Conv1D(channels=4, kernel_size=3)
```

Input

Kernel

Output

1 3 3 0 1 2

2 0 1

5 6 7 2

0 2 0

6 6 0 2

3 1 1

9 12 10 3

1 1 2

10 6 5 5

```
conv = mx.gluon.nn.Conv1D(channels=2, kernel_size=3)
```

Shape inference will be used to determine `in_channels=4` automatically.

Input

1	3	3	0	1	2
0	2	1	1	2	0
3	2	2	3	1	1
2	1	2	0	0	1

Kernel

2	0	1
1	1	2
3	0	1
1	2	0

Output

24	25	22	15
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19	24	14	6
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