

DarknetConv
(filters, size, strides=1, batch_norm=True)

$w \times h \times d$



Conv2D
(filters, size, strides)

stride=1
stride=2

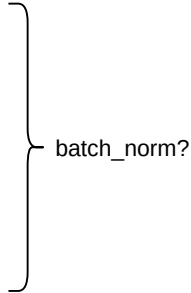
$w \times h \times f$
 $w/2 \times h/2 \times f$



BatchNorm



LeakyReLU



DarknetResidual

$w \times h \times d$



DarknetConv
(d/2, 1)

$w \times h \times d/2$



DarknetConv
(d, 3)

$w \times h \times d$



DarknetBlock
(filters, blocks).

$w \times h \times d$

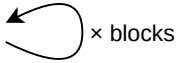


DarknetConv
(filters, 3, stride=2)

$w/2 \times h/2 \times f$



DarknetResidual



Darknet-53

$w \times h \times d$



DarknetConv
(32, 3)

$w \times h \times 32$



DarknetBlock
(64, 1)

$w/2 \times h/2 \times 64$



DarknetBlock
(128, 2)

$w/4 \times h/4 \times 128$



DarknetBlock
(256, 8)

$w/8 \times h/8 \times 256$



DarknetBlock
(512, 8)

$w/16 \times h/16 \times 512$



DarknetBlock
(1024, 8)

$w/32 \times h/32 \times 1024$



(0)

(1)

(2)