

$$D_{KL}(Q||P) = \sum_{\chi} Q(\chi) \log \frac{Q(\chi)}{P(\chi)}$$

$$P = \begin{cases} 0.16 \\ 0.16 \end{cases}$$

$$Q = \begin{cases} \frac{1}{2} & \frac{1}{3} & \frac{1}{3} \\ 0 & \frac{1}{2} \end{cases}$$

$$\int_{\mathcal{K}} \left( Q \| P \right) = \frac{1}{3} \left| 69 \left( \frac{0.3}{0.36} \right) + \frac{1}{3} \log \left( \frac{0.23}{0.48} \right) + \frac{1}{3} \log \left( \frac{0.33}{0.16} \right) \right|$$

= 0.69637 nats

Output = imput - Kernel + 
$$(2 \times padd.ng)$$
 + 1

Stride

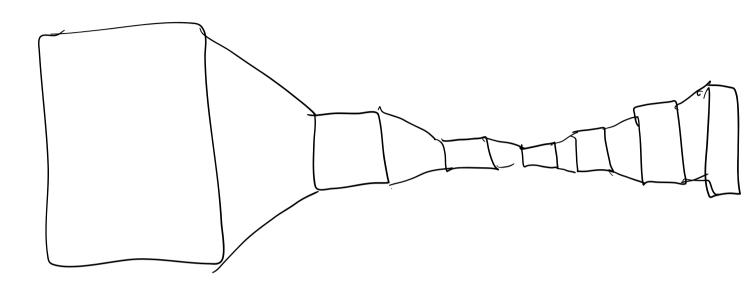
=  $\frac{28 - 3 + (2 \times 1)}{2}$  + 1

=  $\frac{16,28,28}{32,14,14}$ 

=  $\frac{14-3(2 \times 1)}{4}$  + 1

 $\frac{32,14,14}{64,7,7}$ 

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Output - (input - 1) x Stride - (2xpalding)
out = (7-1) x 1 - (2x1) + 3+0

+ Kernel + padding
= 7

32,7,7

$$g_{W} = (7-1) \times 2 - (2\times1) + 3 + 1$$

$$= |4$$

$$g_{W} = (|4-1|) \times 2 - (1\times1) + 3 + 1$$

$$20$$

= 28