

**conv2d**

kernel: (filter-height, filter-width, in-channels, out-channels)

stride: (batch-shape, filter-height, filter-width, channels)

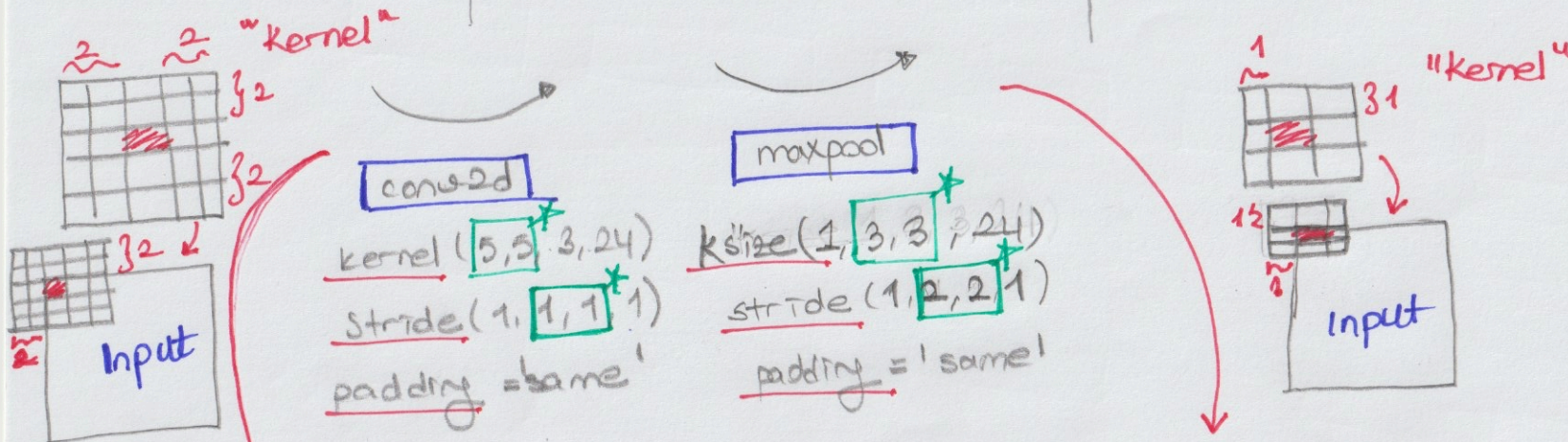
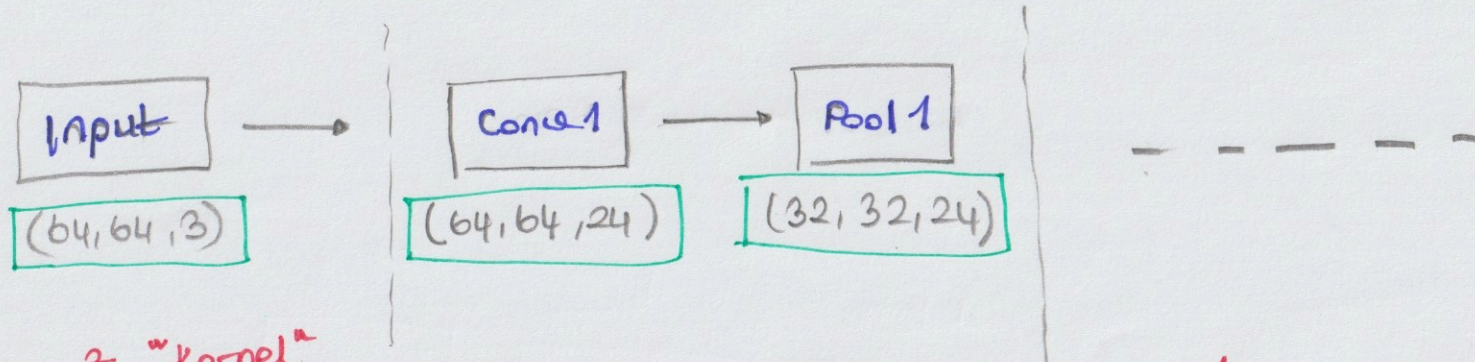
**max-pool**

ksize: (batch-shape, filter-height, filter-width, channels)

stride: (batch-shape, filter-height, filter-width, channels)







$$n_{out} = \left\lfloor \frac{n \cdot m + 2p - k}{s} + 1 \right\rfloor$$

$$n_{out} = \left\lfloor \frac{64 + 2 \cdot 1 - 3}{2} + 1 \right\rfloor$$

$$= \left\lfloor \frac{64 + 2 \cdot 2 - 5}{1} + 1 \right\rfloor$$

$$= \lfloor 63 \rfloor + 1 = 63 + 1 = 64 //$$

$$= \lfloor 31.5 \rfloor + 1$$

$$= 31 + 1 = 32 //$$

