1) Receptive Field +> Local +> Y Ylobal

$$= ((m \times n \times d) + 1) \times K$$

$$= (3 \times 3 \times 3) + 1) \times 16$$

$$= 28 \times 16$$

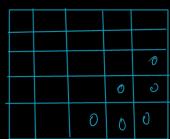
$$= 284 \times 16$$

$$= (9 \times 32) + 1) \times 64$$

$$= (9 \times 32) + 10 \times 64$$

$$n_{in} = \frac{12p - k}{s} + 1$$

$$= n_{in} + 2p - k + 1$$



				5×5
			0	
		0	೦	
	0	0	U	

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	0	\bigcirc	\mathcal{O}	0
\bigcirc	0			-]

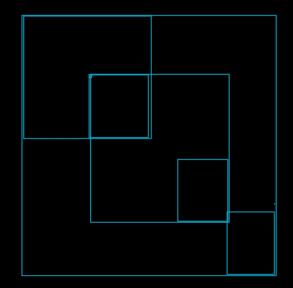


Image (lassification

2) Object Delection

3) Segmentation

H) Trucking

3 x 3 x 64

3×3 × 158

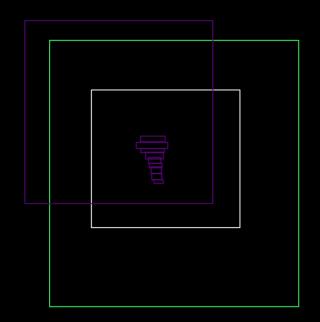
= 32-16 × 16 x 64 x 32 (1X1) -> pointwise convolution CNN dimensionality PCA, LDA TSNE 3 X 3 768 Pouanitus (alc = ((mxnxd)+1)K C1 3 X3 (2 3×3 × 16 C3 3 X 3 X 32 1×1×128 (5 3 × 3 (MPU 128 2

100°0 3-4 30°0 141 p 122 120

Affait My Neighbourhood 2 154 1 1957 120

Lateral Thibition Within a channel induce your Intra Channel major righbours. The Channel major righbours.

Receptive field RF = at least close to the input image mesolution RF = at least close to the input image RF = RF RF = at least close to the input image RF = RF RF = at least close to the input image RF = RF RF = at least close to the input image RF = RF RF = at least close to the input image RF = RF RF = at least close to the input image RF = RF RF = at least close to the input image RF = RF RF = at least close to the input image RF = RF RF = at least close to the input image RF = RF RF = at least close to the imput image RF = RF RF = at least close to the imput image RF = RF RF = at least close to the imput image RF = RF RF = RF RF = at least close to the imput image RF = RF RF = RF



ConvI LRW Relu Conv Z (onv) Relu LRW