

Convolutional Neutral Network

CNN MLP 3x3

- CNNNeutralReceptive field
- (CNN)(filter)

Fully Connected Layer

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Receptive field

- CNN
- channel
-
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Typical Setting

Description of Receptive field

- **kernel size**
 - 3x3
- **stride**
 - 12
- **padding**
- $\$ = (\text{kernel size} - 1) / \text{stride} + 1$

Parameter Sharing

- OverFitting

Typical Setting

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Tensor

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- -

- Channels RGB

Convolutional Layer

- **Filtering**
 - **Filtering**
 - **Filtering**
 - **Feature Map**
 - **Feature Map**

Pooling——MaxpPooling

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- **Convolution**
- **Pooling**

Flatten

- 00000000
- 0000000000000000
- 00000000**CNN**000000**FC**000000

The Whole CNN



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