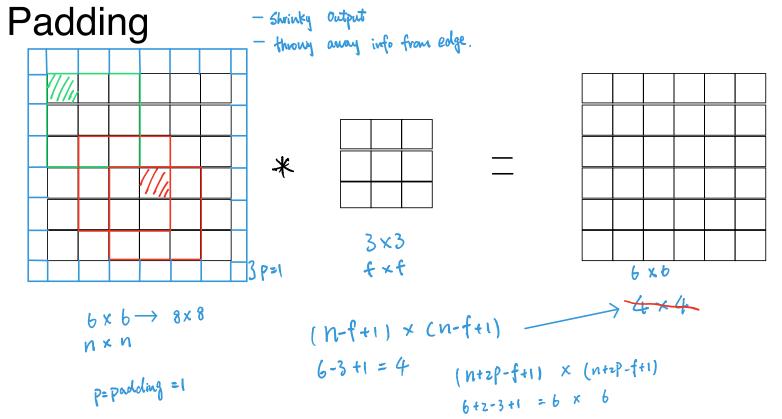


## Convolutional Neural Networks

**Padding** 



Andrew Ng

## Valid and Same convolutions

"Valid": 
$$n \times n \longrightarrow n \cdot f + 1 \times n \cdot f + 1 \longrightarrow n \cdot f + 1 \times n \cdot f + 1 \longrightarrow n \cdot f + 1 \longrightarrow$$

"Same": Pad so that output size is the same as the input size.

Andrew Ng