Transposed Convolution

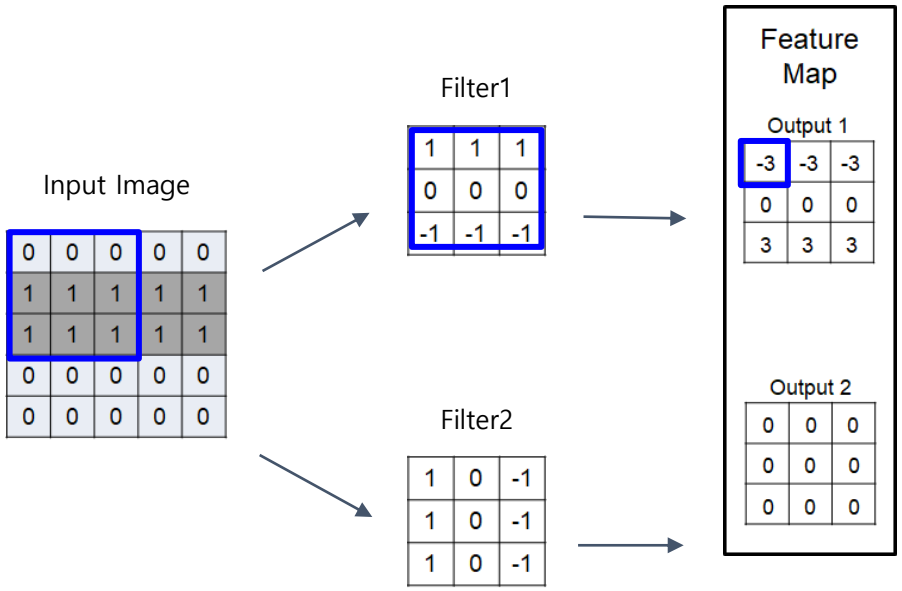
AILAB
Hanyang Univ.

1. Transposed Convolution 원리
2. 다양한 형태의 Transposed Convolution

Transposed Convolution 원리

Convolution?

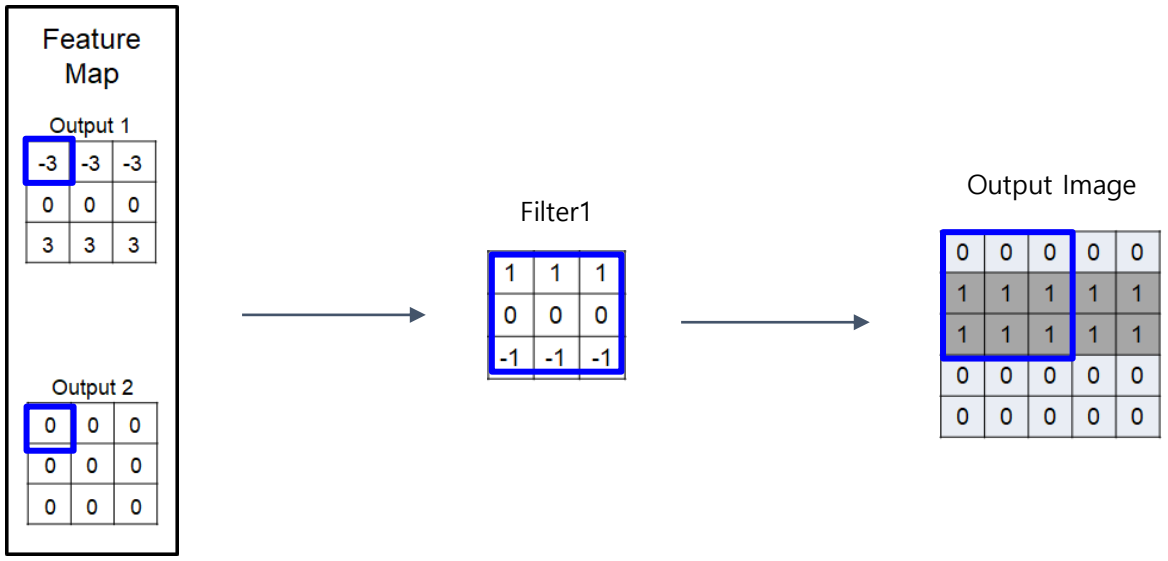
: Convolution(합성곱)은 하나의 함수와 또 다른 함수를 반전 이동한 값을 곱한 다음, 구간에 대해 적분하여 새로운 함수를 구하는 수학 연산자이다.



Transposed Convolution 원리

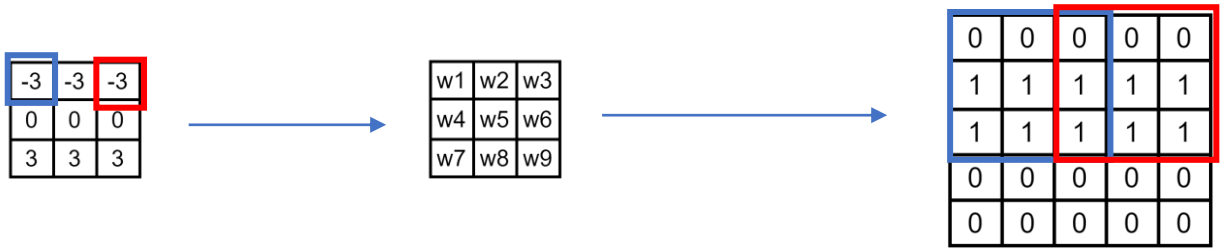
Transposed Convolution?

: Convolution(합성곱)의 역순으로 feature로부터 이미지를 계산하는 방법



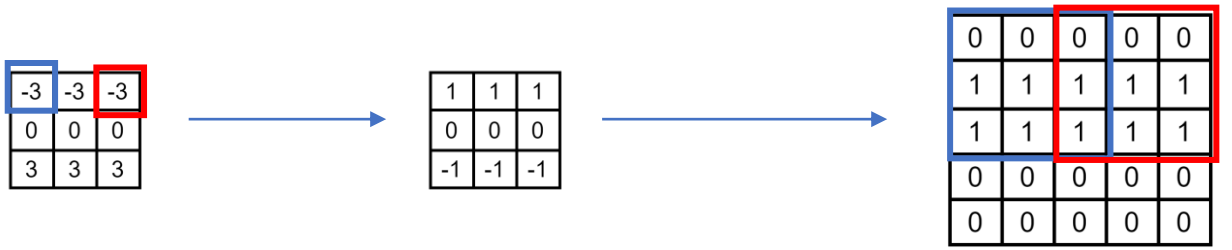
Transposed Convolution 원리

Transposed Convolution vs Deconvolution



Transposed Convolution

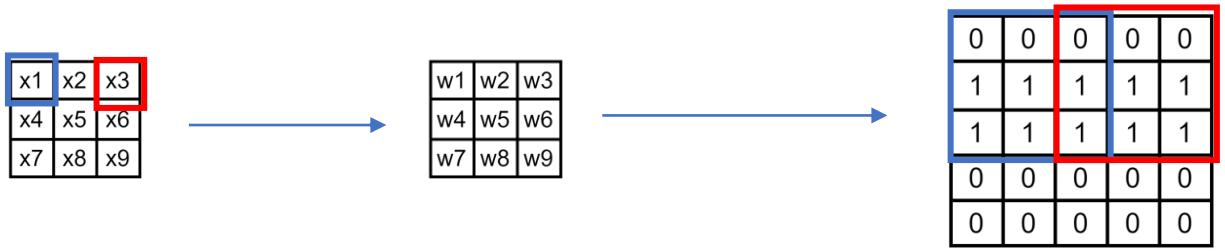
Transposed convolution : Convolution 연산으로 결과값을 추론함

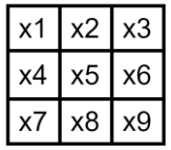


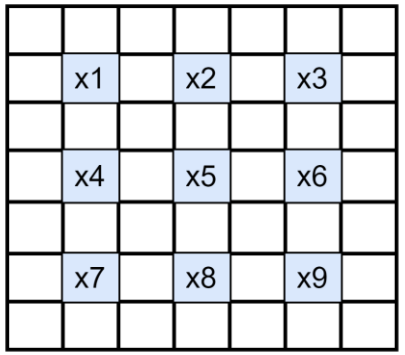
DeConvolution

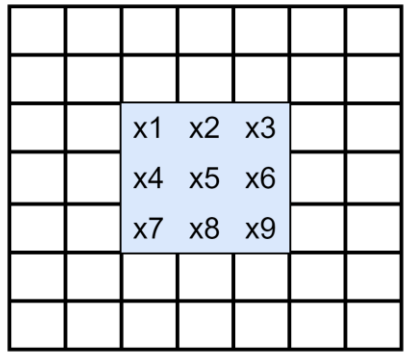
Deconvolution : Weight 값을 고정해둔 상태에서 이전값을 근사함

다양한 형태의 Transposed Convolution







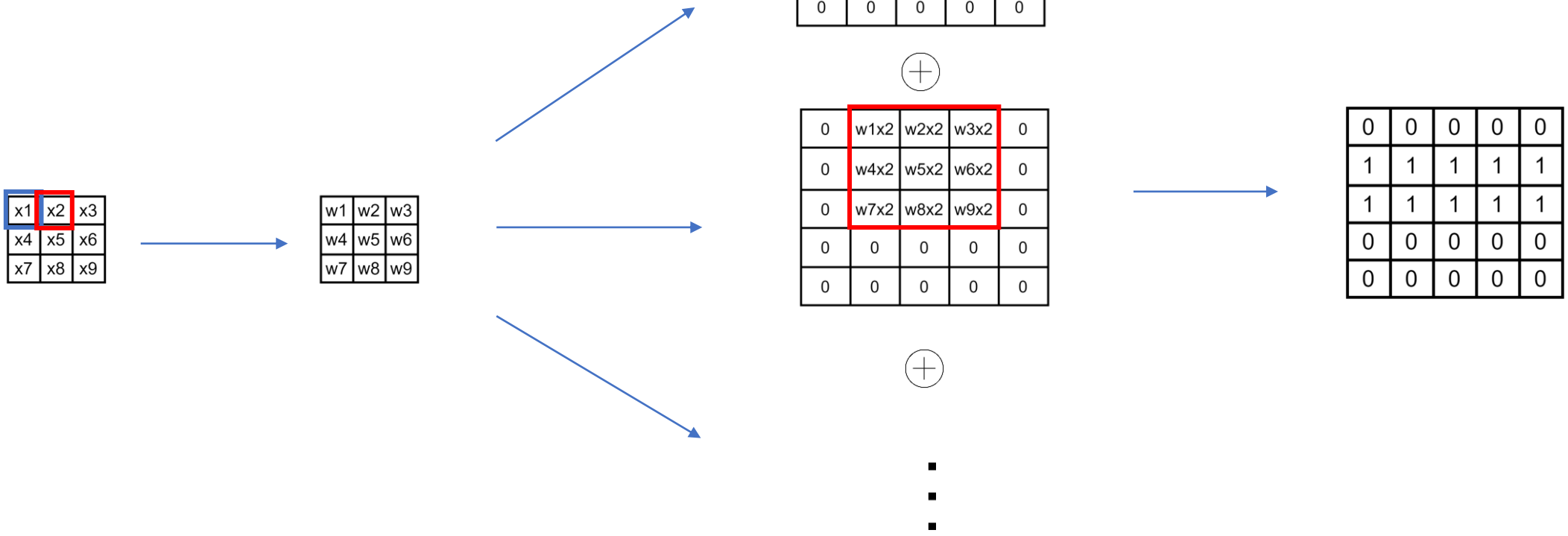


1. Zero padding X

2. Zero padding O

다양한 형태의 Transposed Convolution

1) Zero padding X



다양한 형태의 Transposed Convolution

2) Zero padding O