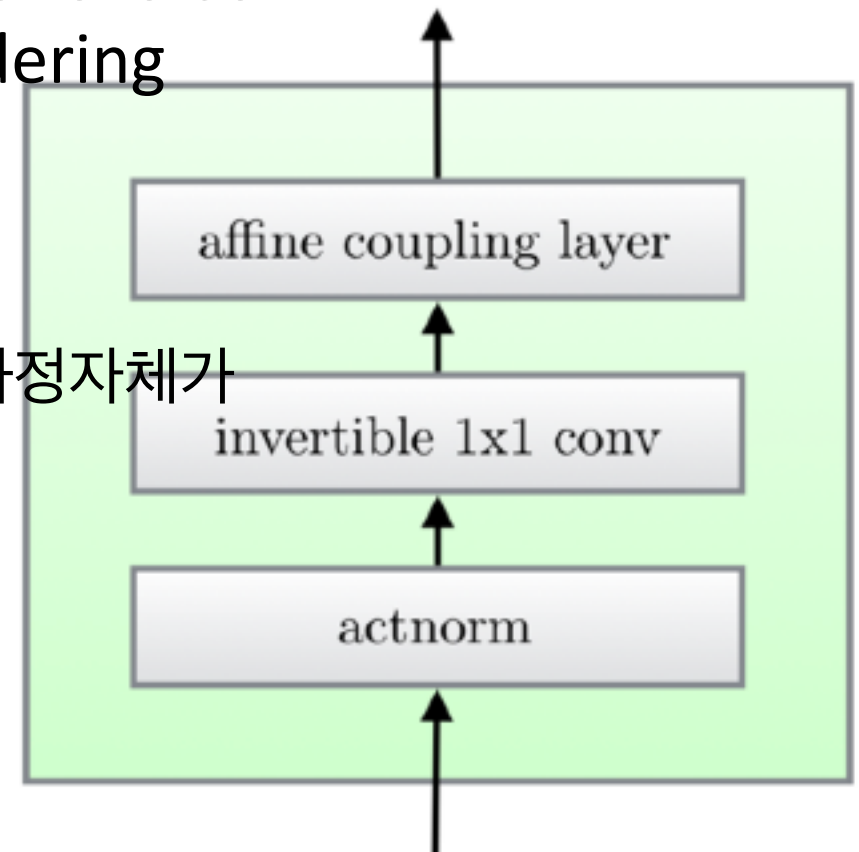


# Models with NF : GLOW

Glow ([Kingma and Dhariwal, 2018](#))

- simplifies the architecture by replacing the reverse permutation operation on the channel ordering with invertible 1x1 convolutions.
- RealNVP의 단점
  - 각 레이어의 반전은 변하지 않아 뒤바꿔 주는 과정자체가 모델설계자가 지정하는 것.  
=> 모델이 스스로 못함.  
=> 그 과정을 1x1 convolution으로 대체.

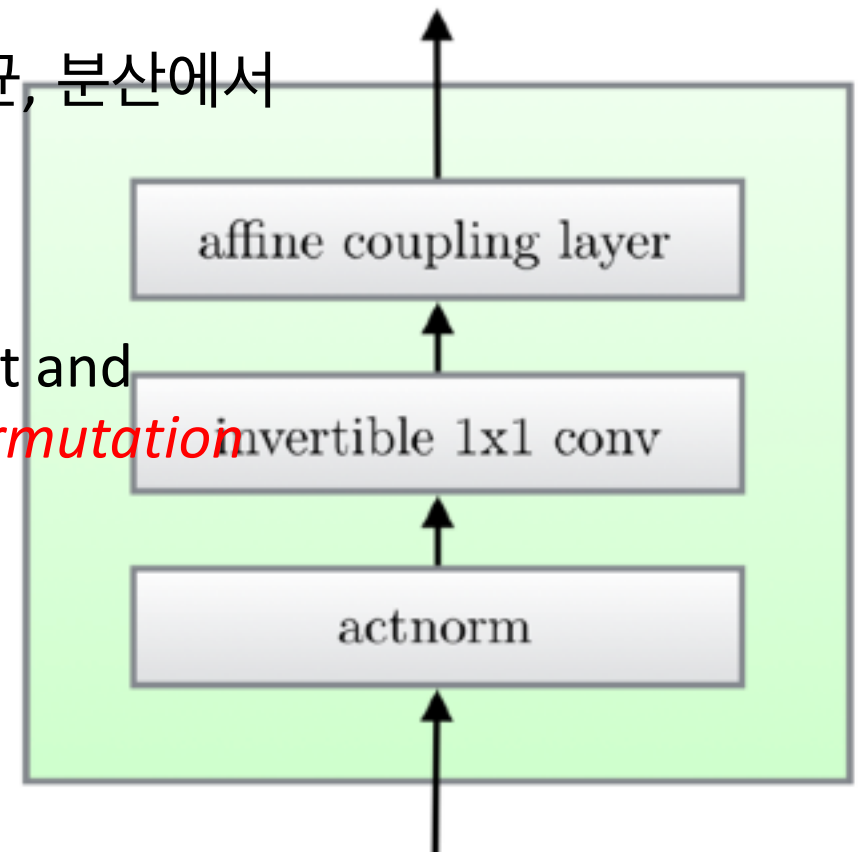


One step of flow in the Glow model.

# Models with NF : GLOW

Glow ([Kingma and Dhariwal, 2018](#))

- Actnorm : Activation normalization
  - Batch normalization과 같은 역할로 잘못된 평균, 분산에서 벗어나게 하거나 큰 이미지에서 성능향상한다.
- Invertible 1x1 convolution
  - A 1x1 convolution with equal number of input and output channels is a *generalization of any permutation* of the channel ordering.
- Affine coupling layer
  - Same as in RealNVP



One step of flow in the Glow model.