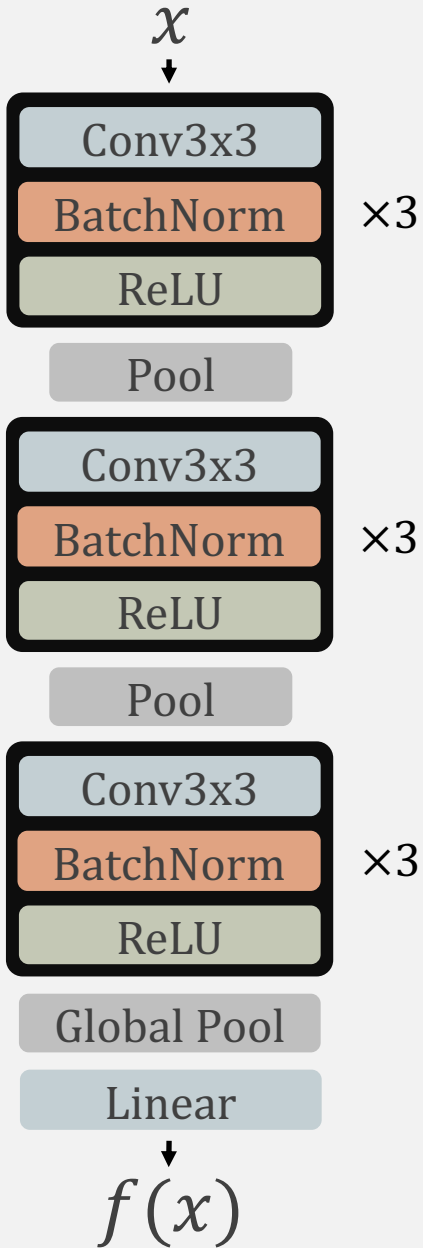


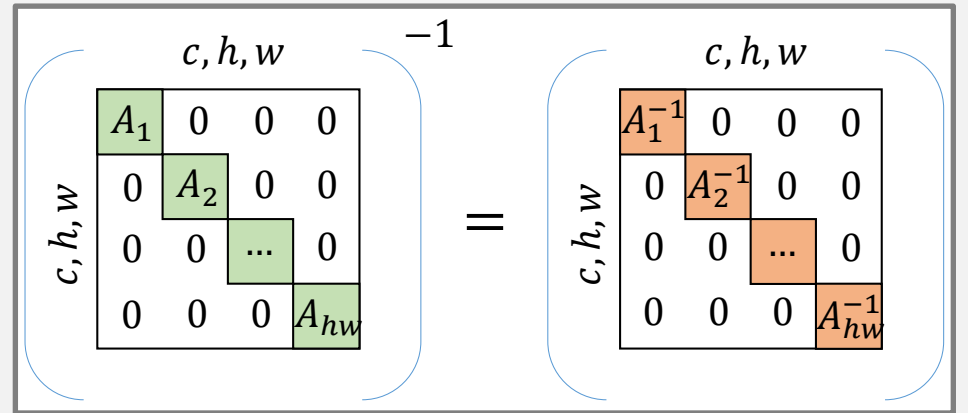
# INVERTIBLE CONVNETS



$f^{-1} ?$

Conv3x3

$-1$



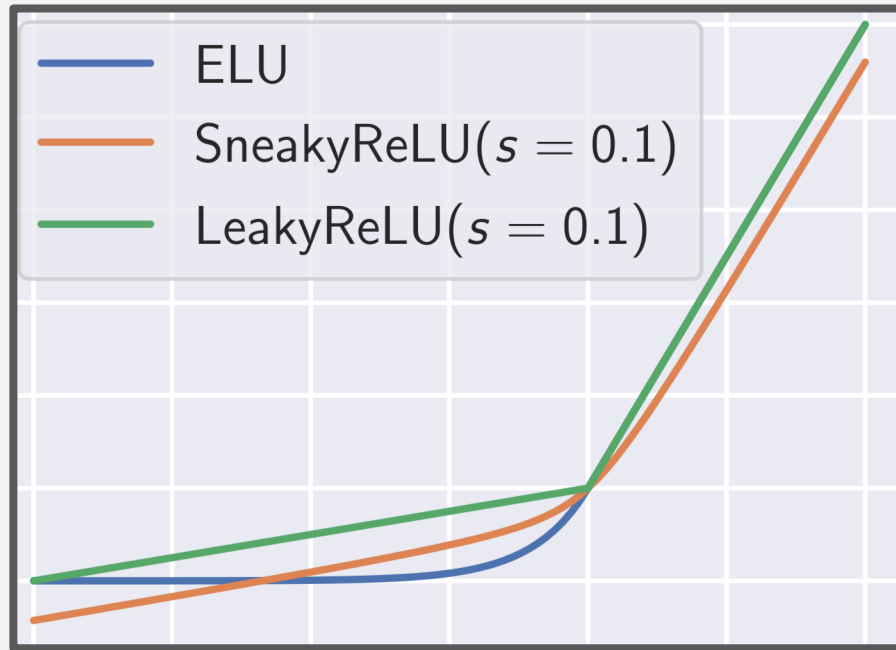
$$\text{Conv}_W(x)_k = \sum_i F^{-1}(F(W)_{ki}^* \circ F(x_i))$$

$$\text{Conv}_W^{-1}(y)_k = \sum_i F^{-1}\left(\left(F(W)^*\right)_{ki}^{-1} \circ F(y_i)\right)$$

$$\log|\det(\text{Conv}_W)| = \sum_{h,w} \log|\det(F(W)_{::,h,w}^*)|$$

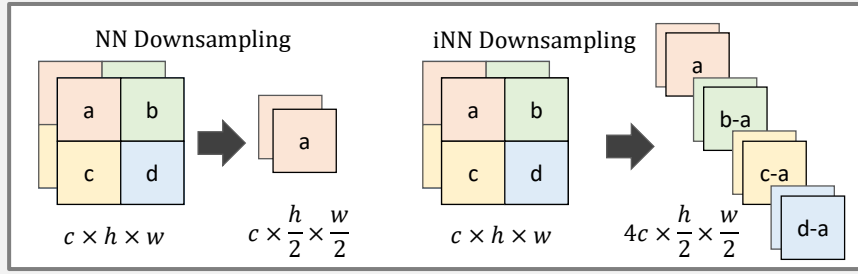
ReLU → SneakyReLU

$$\sigma(x) = \left( x + \alpha \left( \sqrt{1 + x^2} - 1 \right) \right) / (1 + \alpha)$$



+ Bijective  
+ Smooth

Pool → iDS



## Fully Convolutional Flow

