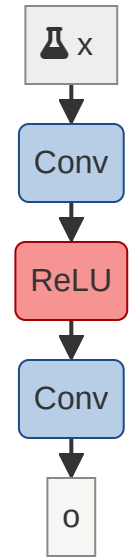
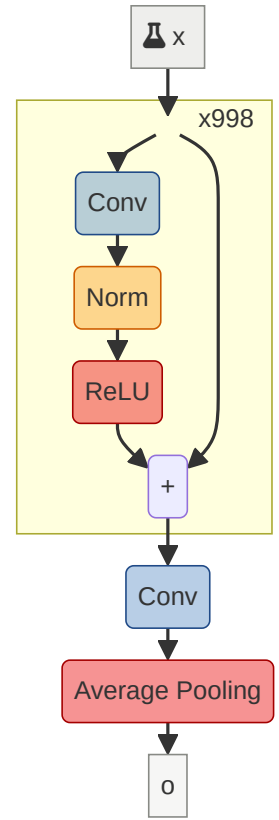
Convolution

Convolutional Networks (ConvNets)

Convolutional Networks

- Non-linearities (ReLU, ELU, GELU, ...)
- Normalization, residual connections
- Learned components = conv layers
  - (local) matrix multiplication
  - Keep spatial structure ($C \times H \times W$)
  - Strided to change output resolutions





Advantages

- Computationally efficient
- Memory efficient
- Data efficient