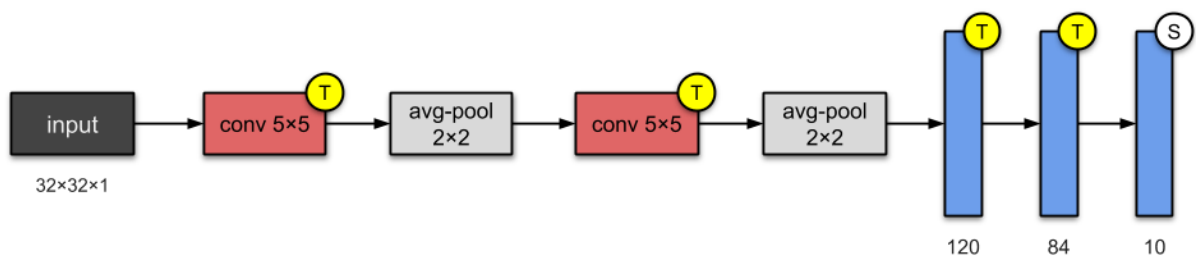
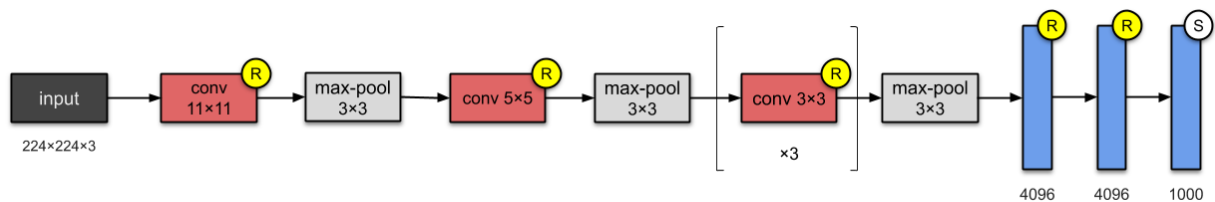


Contents

1. LeNet-5
2. AlexNet
3. VGG-16
4. Inception-v3
5. ResNet-50

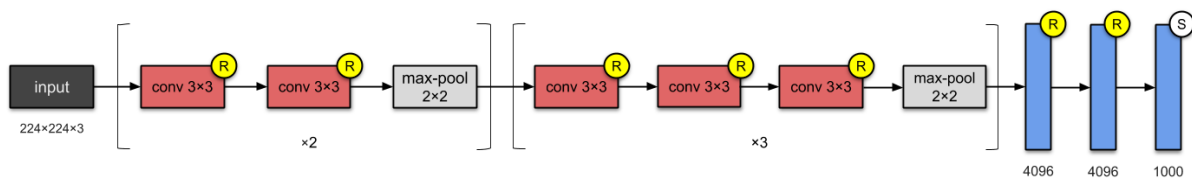


Layer 5(2 convolutional and 3 fully-connected layers)



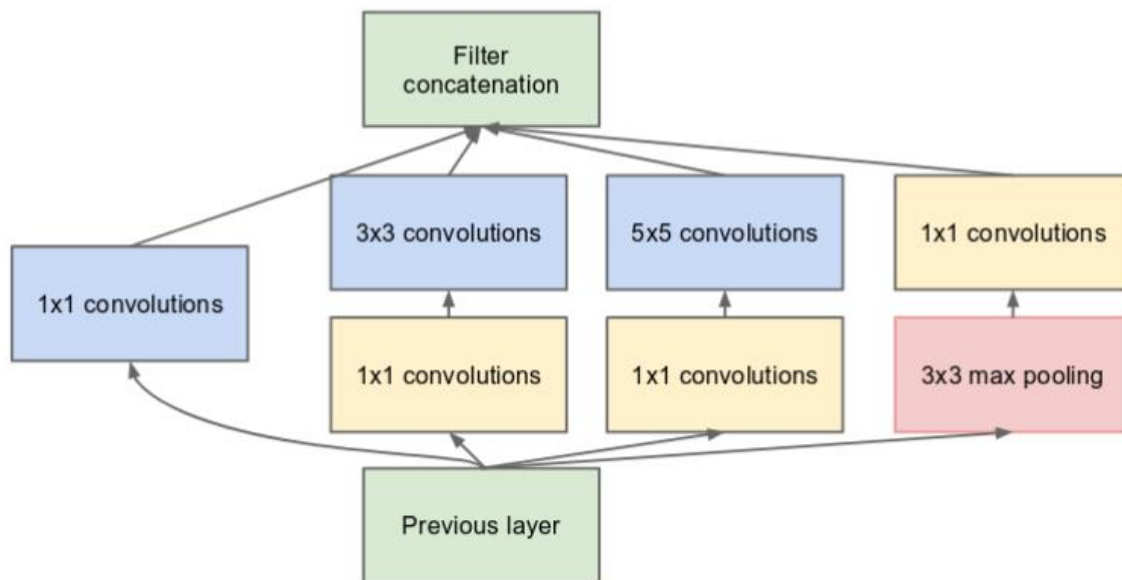
AlexNet has 8 layers — 5 convolutional and 3 fully-connected.

Activation function : ReLU on hidden layers

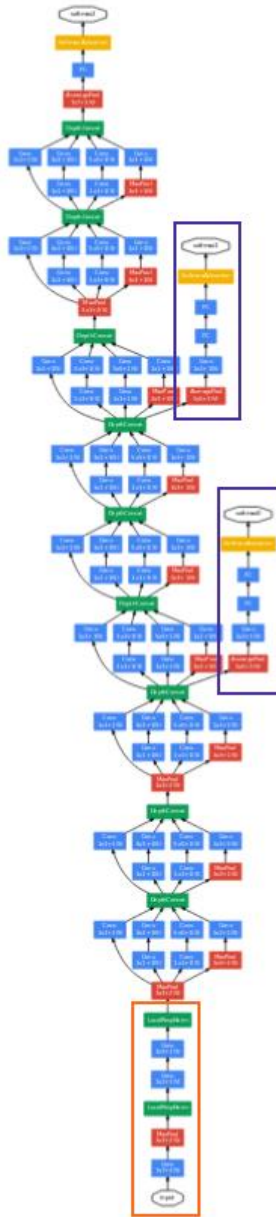


VGG-16 has 13 convolutional and 3 fully-connected layers

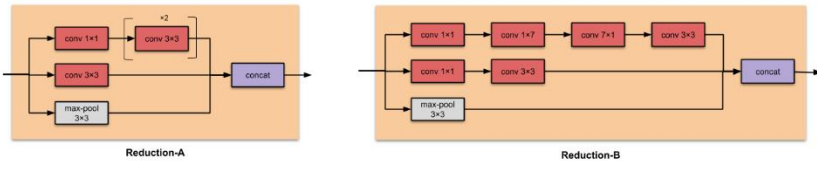
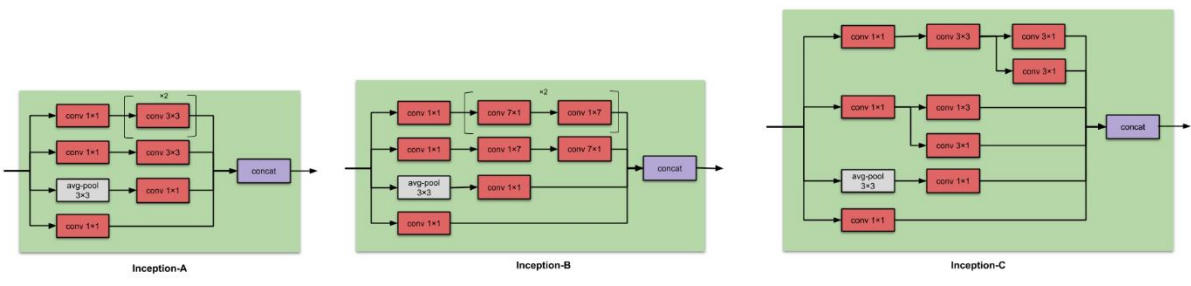
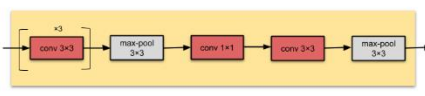
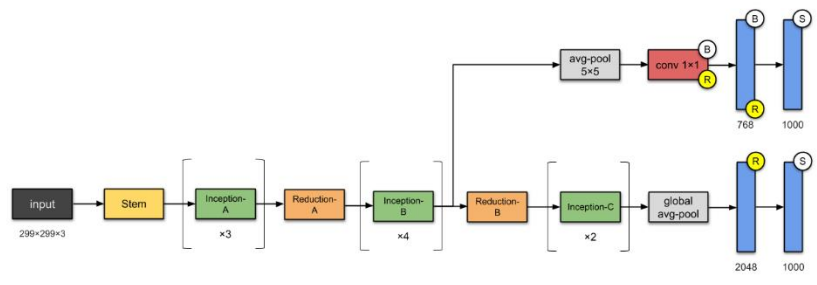
Fixed conv,max,stride (move forward with uniformly)

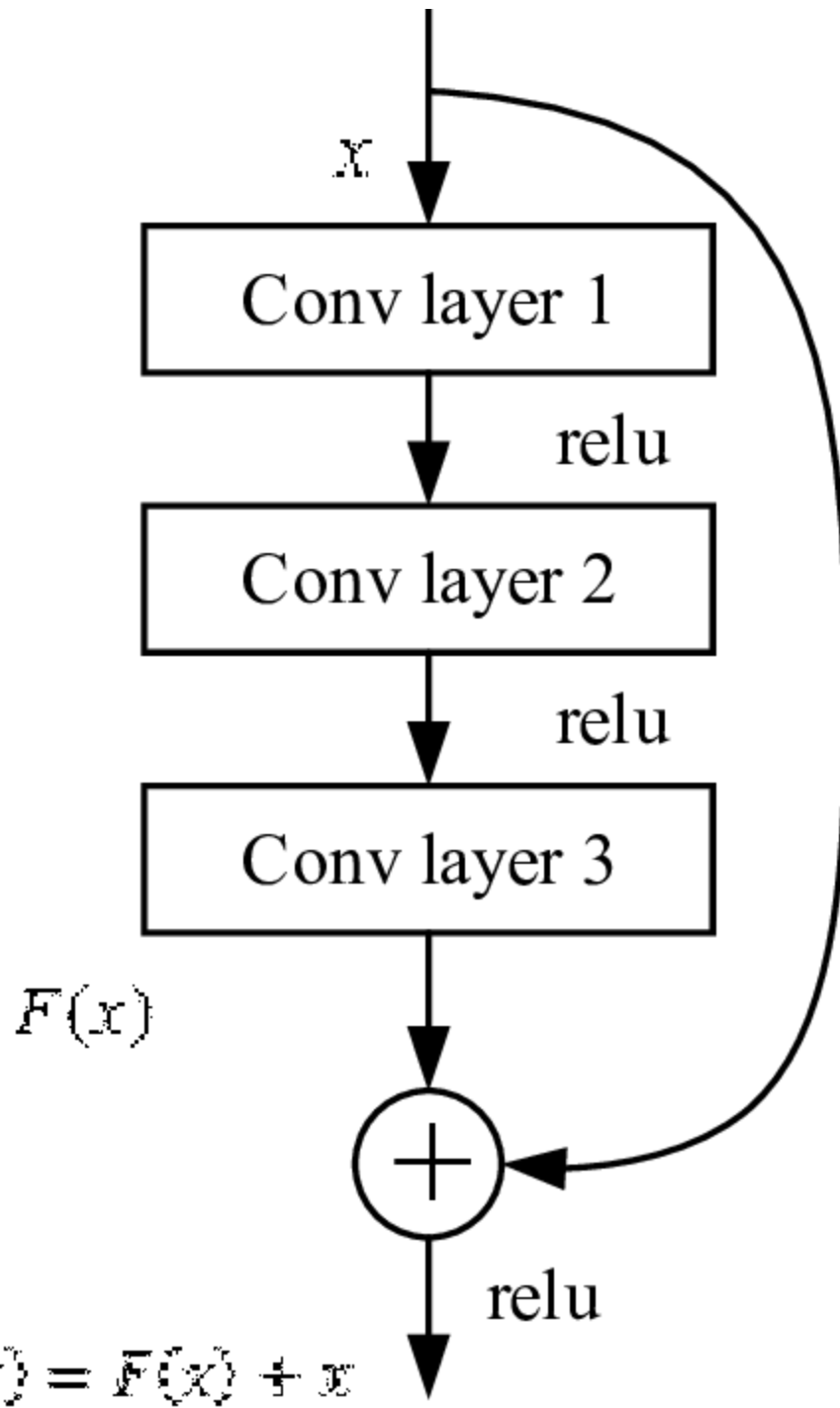


(b) Inception module with dimension reductions



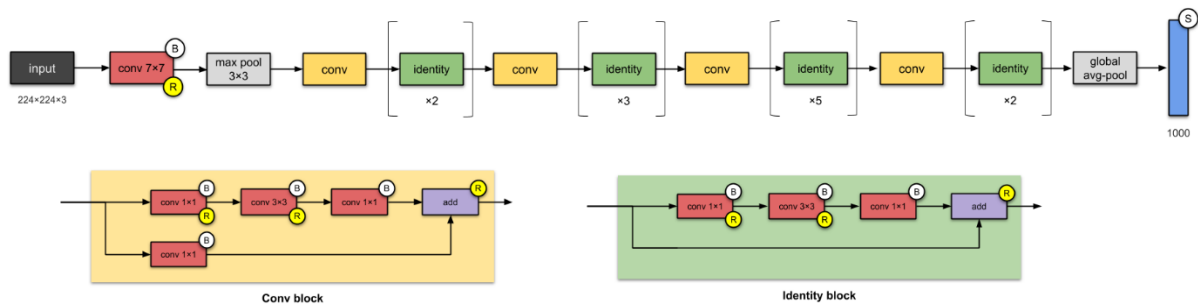
- After certain layers, it takes the summary of layers
- Simple conv performance better
- Total no. of parameter is small
- Side branches ensure that it computes and not too bad for predicting.
- Confusion for no. of filter size is left on concat .concat takes best decision.**





Jumping steps

depth increasing, accuracy gets saturated



Questions:

1. No of layers(deep layers gets more complexity)
2. Image size (120*250)(256*256)
3. Conv size(1*1,3*3,5*5)
4. No of filters(2,64,128,512)
5. Pool (max,avg,size of pooling)
6. Hidden layer----->(no. of layer ,nodes)
7. Stride & padding size
8. Epochs , batch size , iteration
9. Learn rate(.0001,.005,.001)