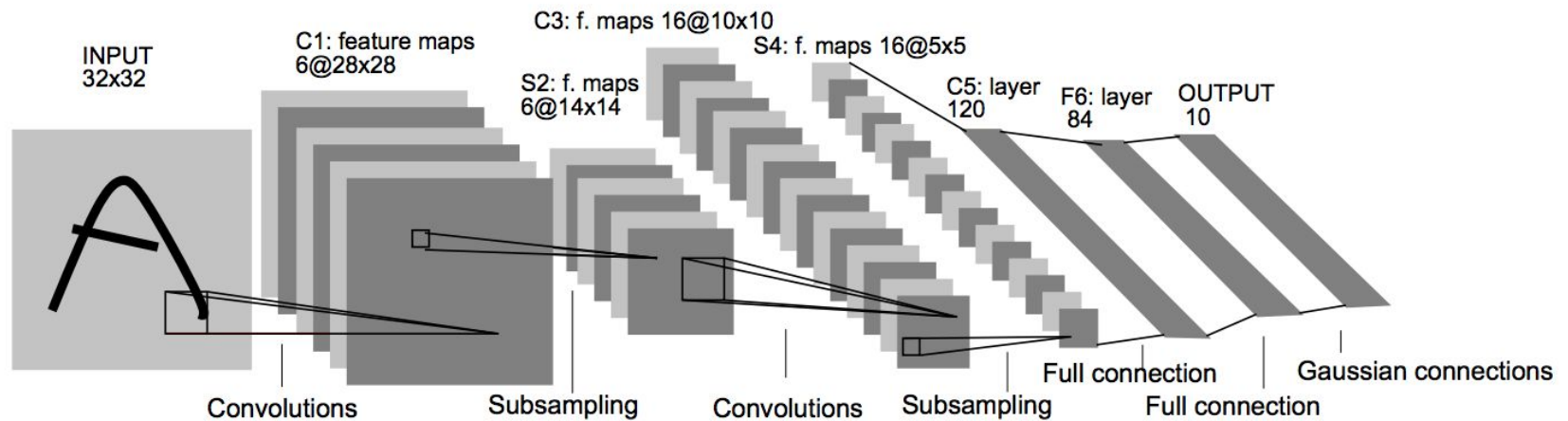


# Архитектуры нейросетей

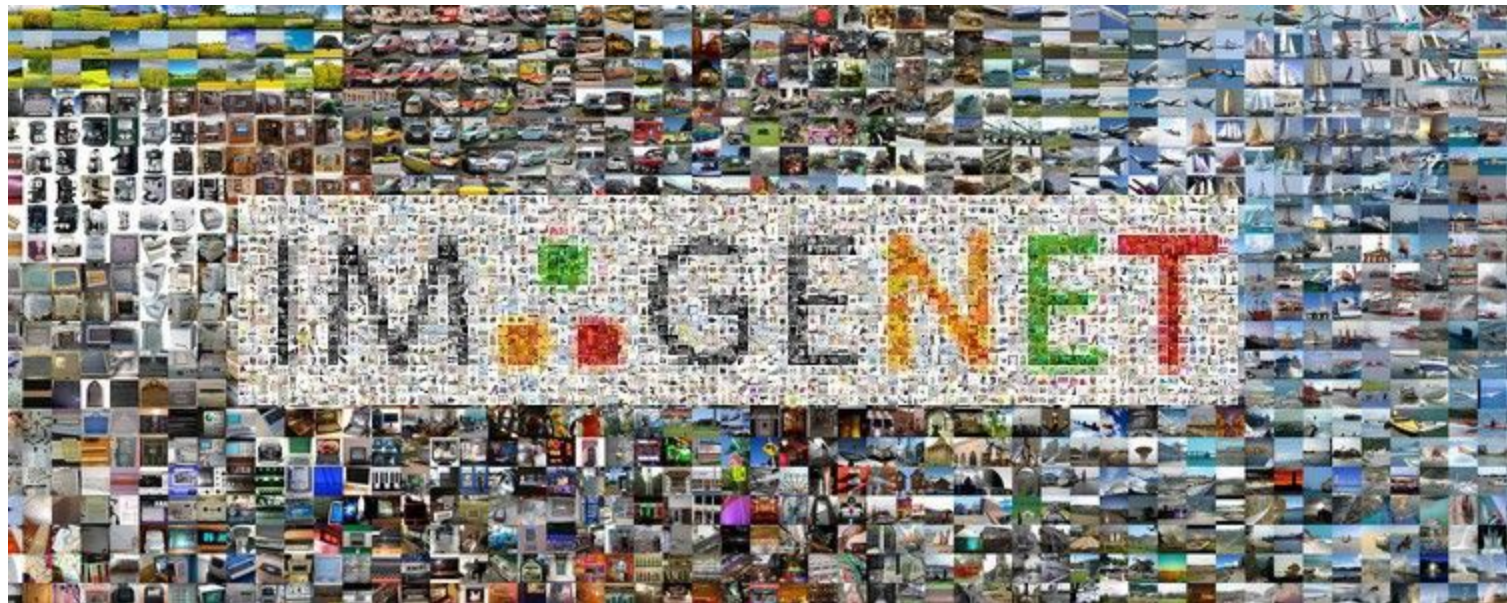
Свёрточные нейросети

# LeNet



<http://yann.lecun.com/exdb/publis/pdf/lecun-98.pdf>

# ImageNet



<http://www.image-net.org>

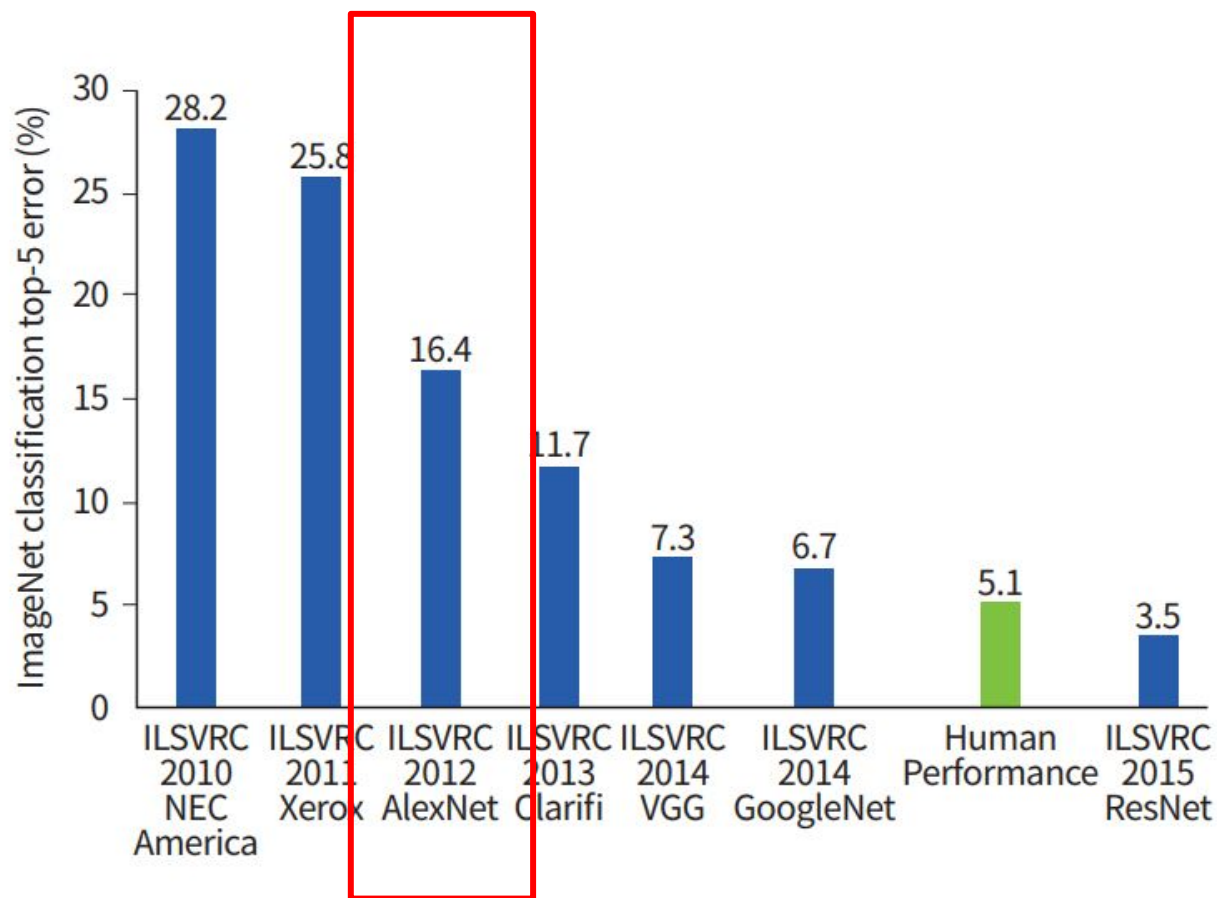
# ILSVRC



<http://www.image-net.org/challenges/LSVRC/>

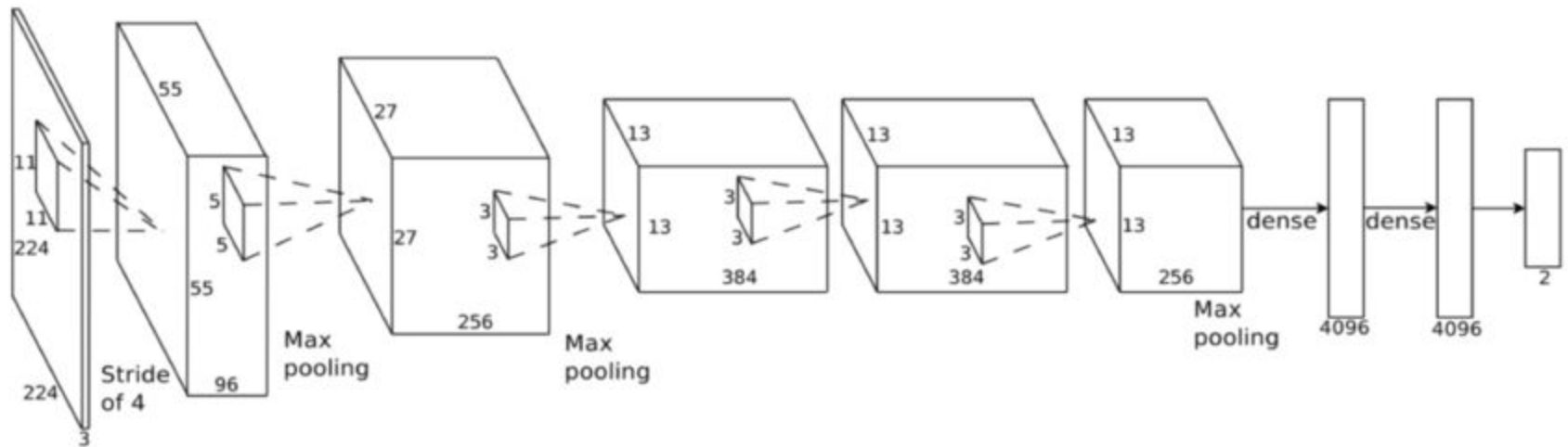


# ILSVRC



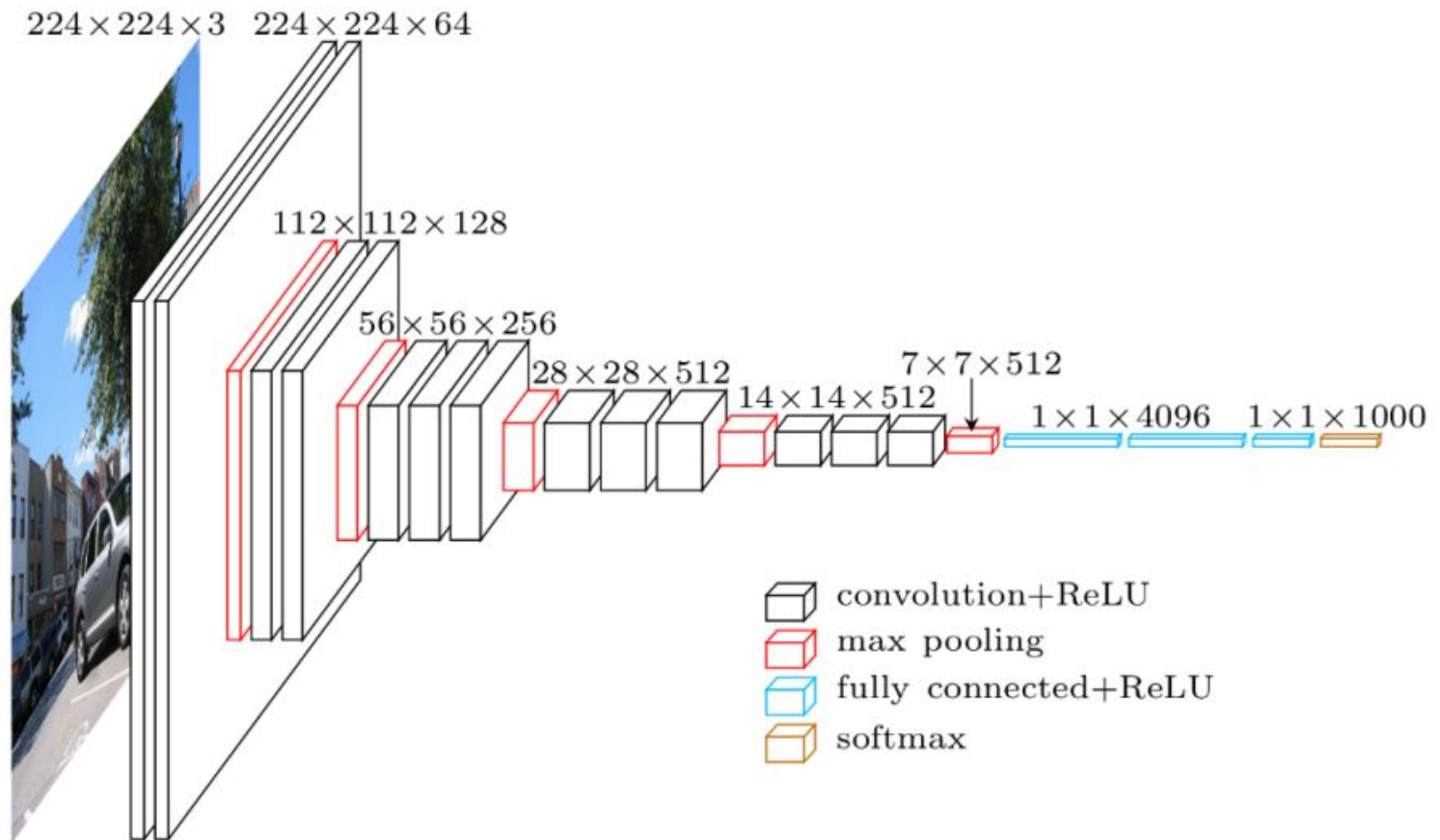
<http://www.image-net.org/challenges/LSVRC/>

# AlexNet



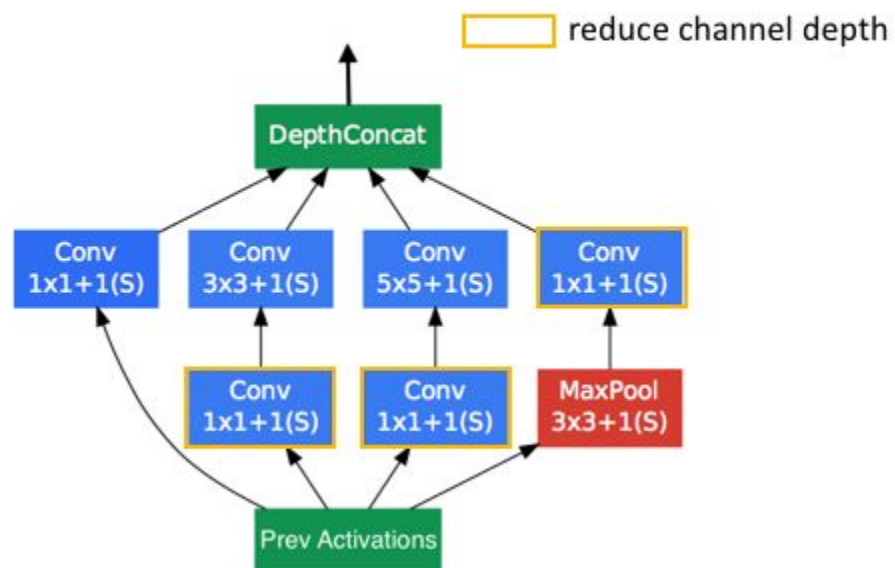
<http://papers.nips.cc/paper/4824-imagenet-classification-with-deep-convolutional-neural-networks.pdf>

# VGG



<https://arxiv.org/pdf/1409.1556.pdf>

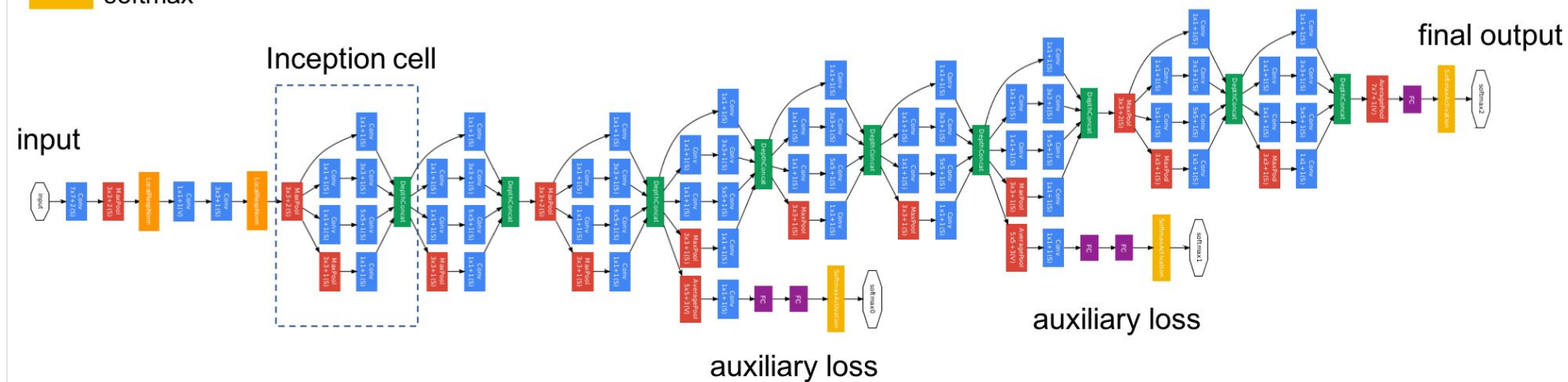
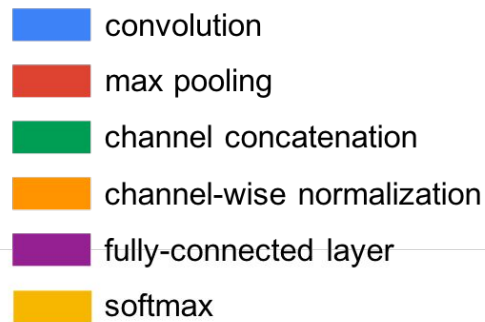
# Inception-v1 (GoogLeNet)



<https://arxiv.org/abs/1409.4842>

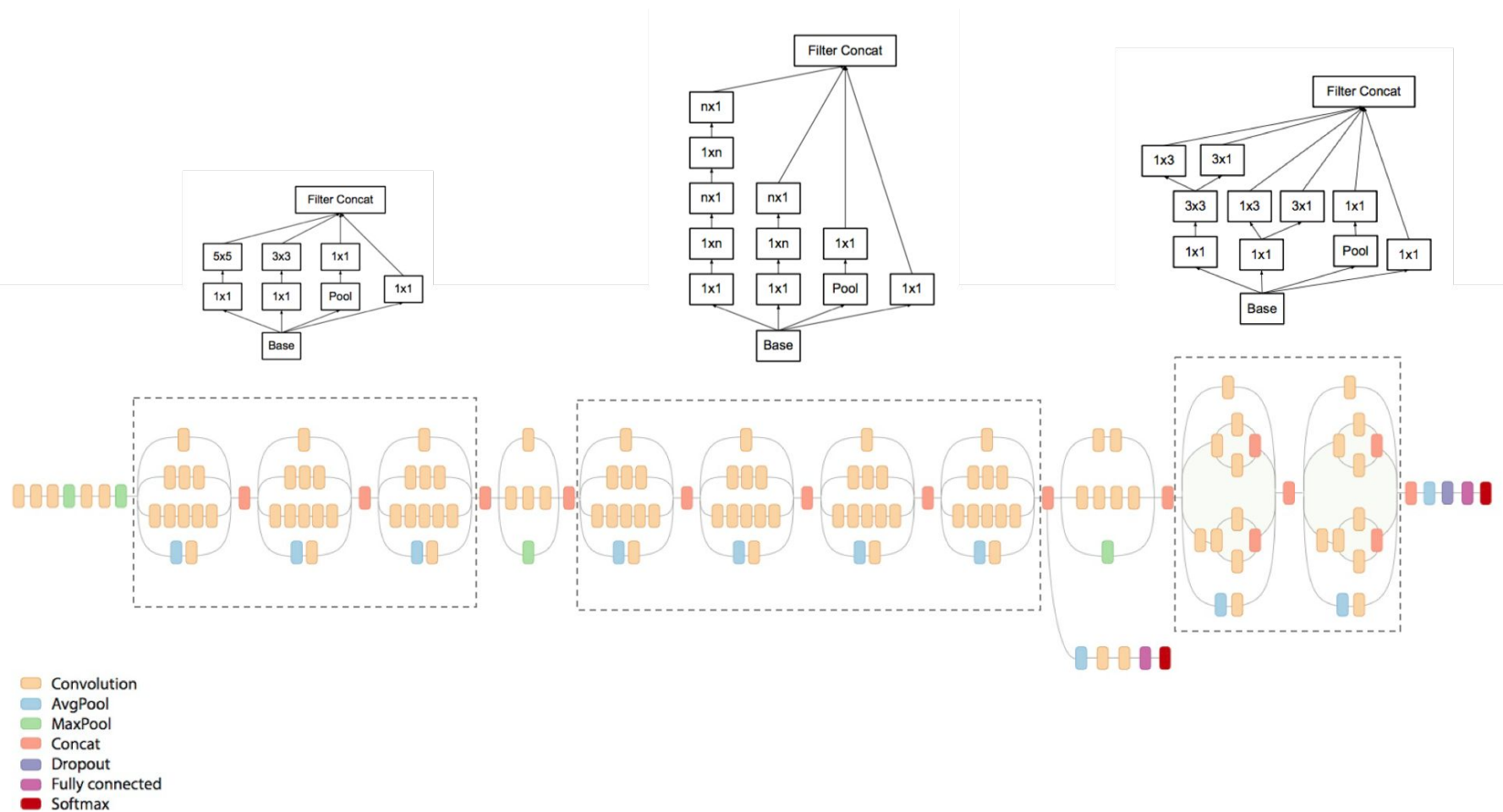


# Inception-v1 (GoogLeNet)



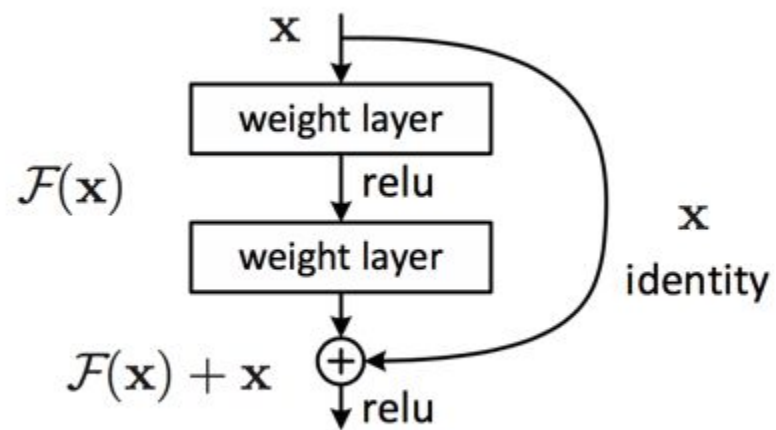
<https://arxiv.org/abs/1409.4842>

# Inception-v2



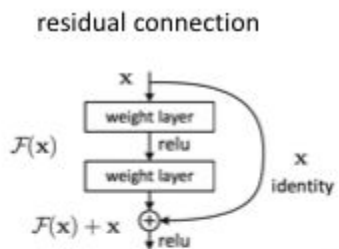
<https://arxiv.org/pdf/1512.00567.pdf>

# ResNet

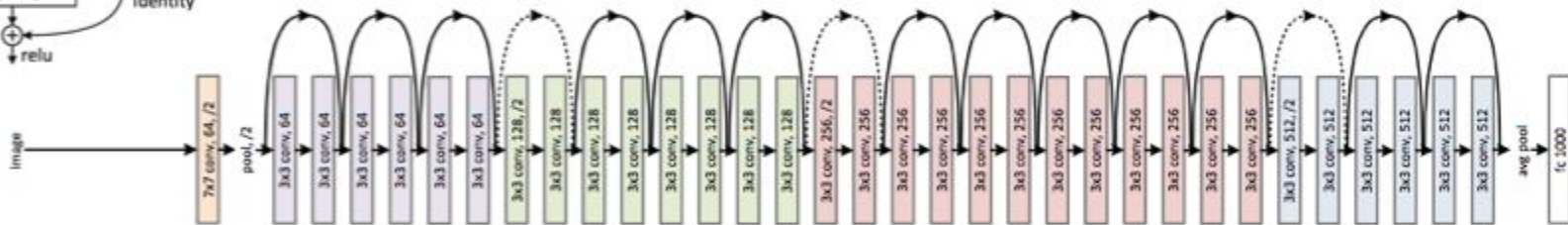


<https://arxiv.org/abs/1512.03385>

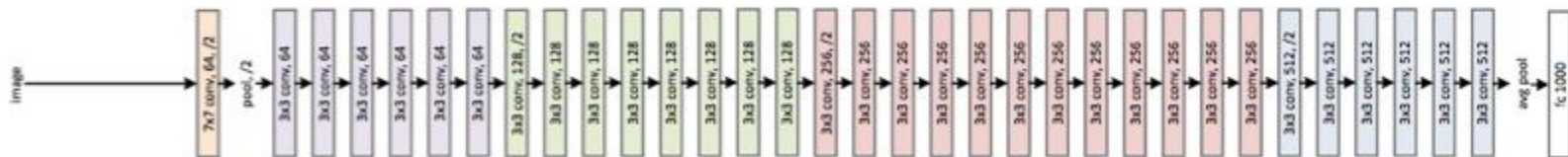
# ResNet



## Residual Network

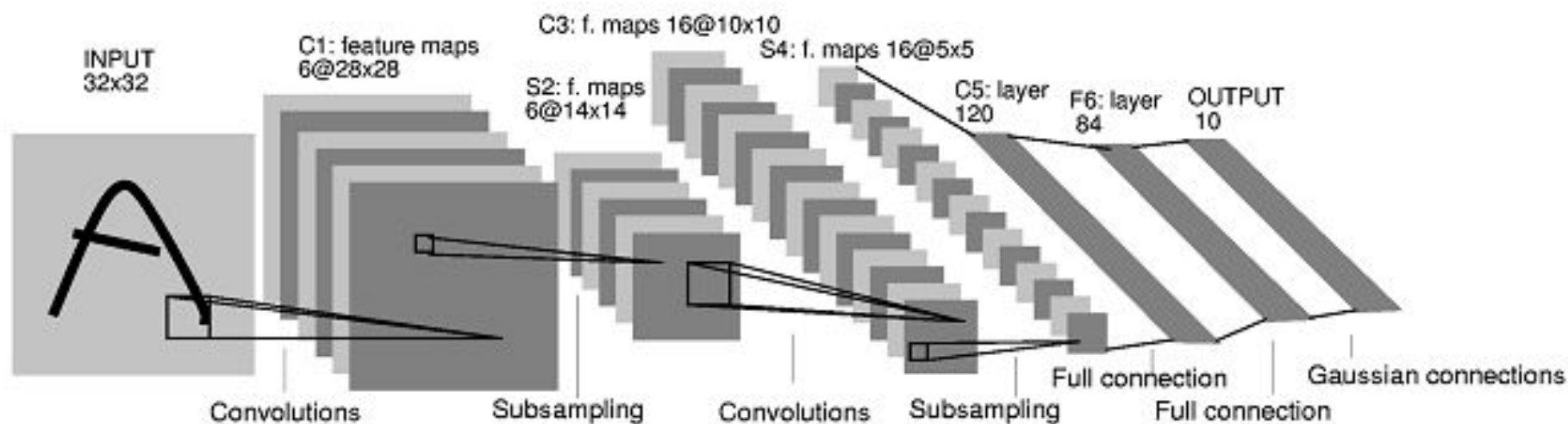


## Plain Network



<https://arxiv.org/abs/1512.03385>

# Feature maps



количество карт признаков

# More architectures

Модели для классификации на ImageNet:

- ResNeXt (<https://arxiv.org/abs/1611.05431>)
- SENet (<https://arxiv.org/abs/1709.01507>)
- DenseNet (<https://arxiv.org/abs/1608.06993>)
- Inception-ResNet-V2 (<https://arxiv.org/abs/1602.07261>)
- Inception-V4 (<https://arxiv.org/abs/1602.07261>)
- Xception (<https://arxiv.org/abs/1610.02357>)

Легковесные модели (для мобильных устройств):

- NASNet (<https://arxiv.org/abs/1707.07012>)
- MobileNetV2 (<https://arxiv.org/abs/1801.04381>)
- ShuffleNet (<https://arxiv.org/abs/1707.01083>)
- SqueezeNet (<https://arxiv.org/abs/1602.07360>)