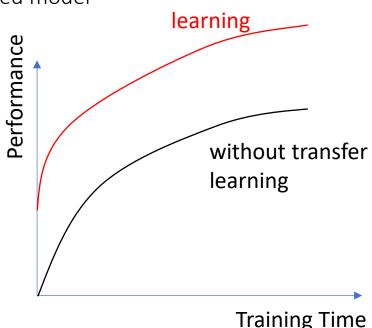
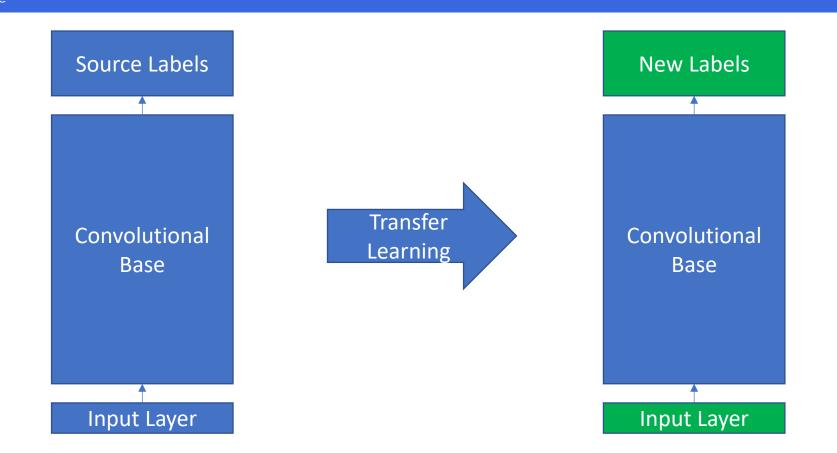
Introduction

- Problem: only small number of images for training
- Solution: don't train yourself, but use an already trained model
- Why?
 - Existing weights can be used
 - Use existing features for other classes
 - Better performance
 - Save time
 - Tested architecture

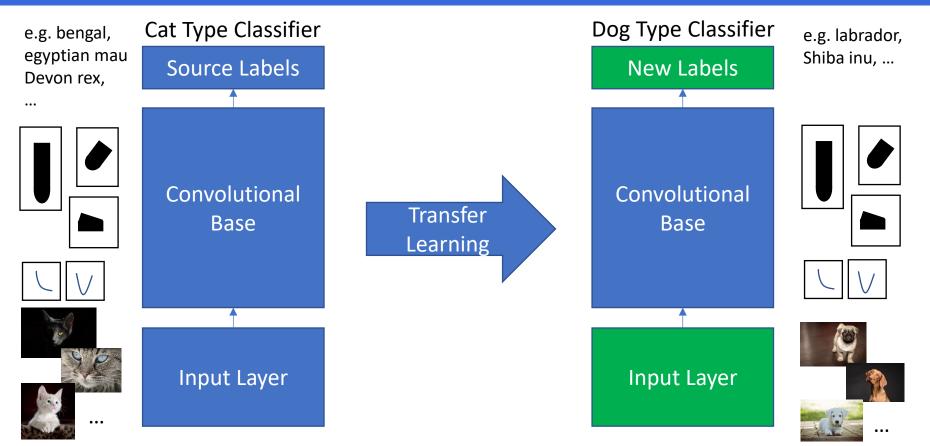


with transfer

Usage



Example



Imagenet

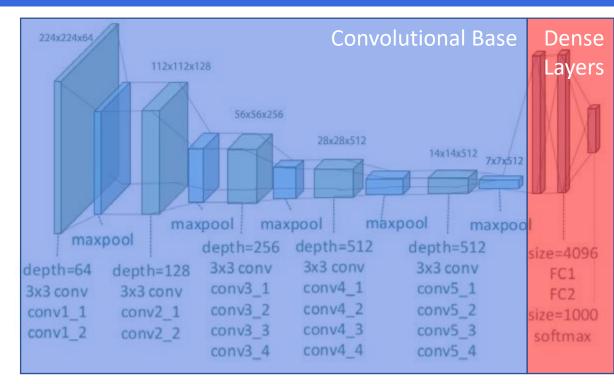
- Imagenet challenge for Large Scale Recognition
 - Available since 2010
 - updated every year
 - 1000 categories
 - > 1 million images



Source: https://www.researchgate.net/figure/Examples-in-the-ImageNe t-dataset fig7 314646236

VGG19

- Deep Convolutional Network for large-scale image recognition
- Developed for ImageNet challenge



Model Architecture

Source: https://www.researchgate.net/figure/llustration-of-the-network-architecture-of-VGG-19-model-conv-means-convolution-FC-means fig2 325137356