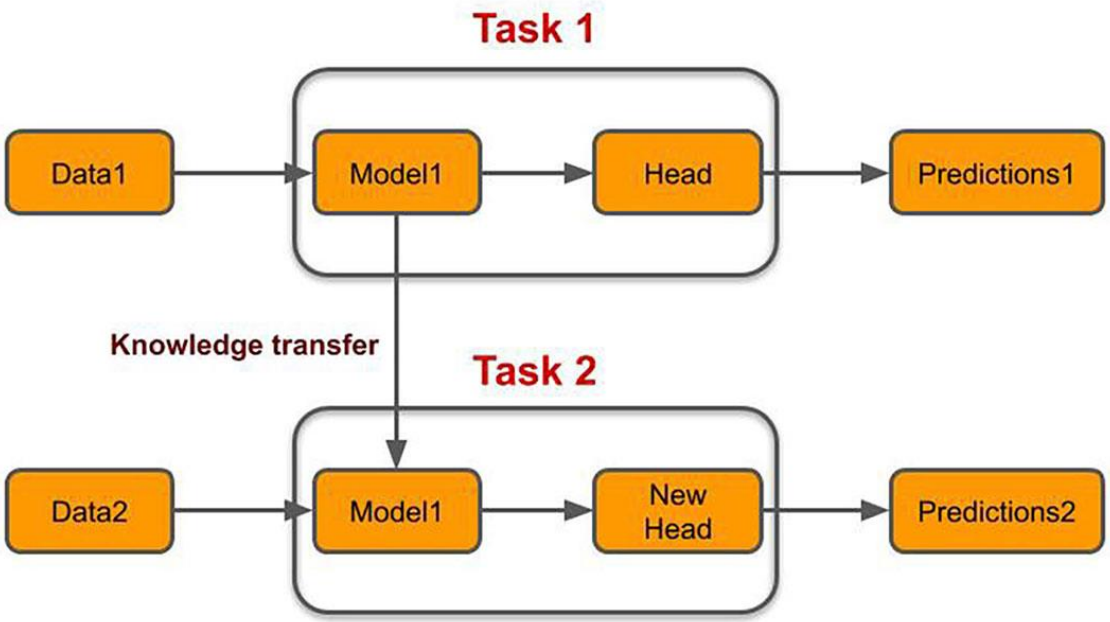
Transfer Learning



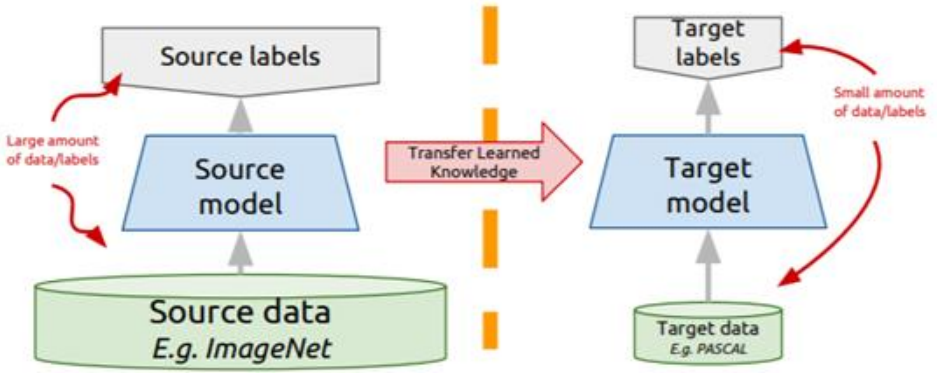
Transfer learning: idea

Instead of training a deep network from scratch for your task:

- Take a network trained on a different domain for a different **source task**
- Adapt it for your domain and your **target task**

Variations:

- Same domain, different task
- Different domain, same task



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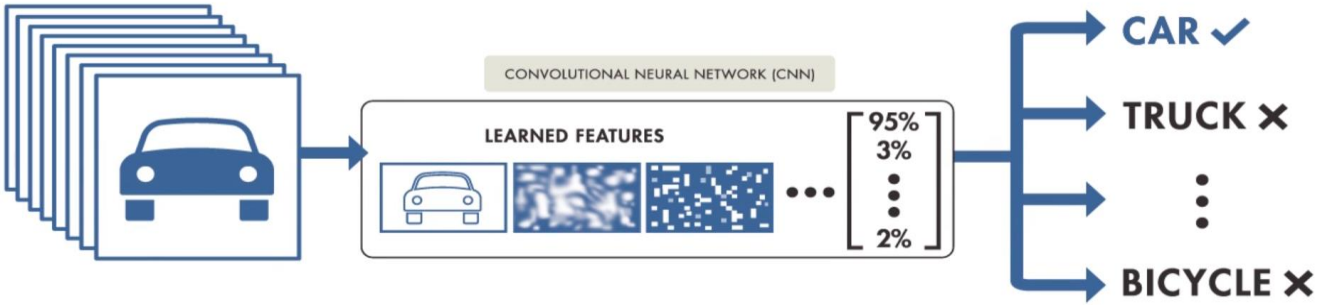
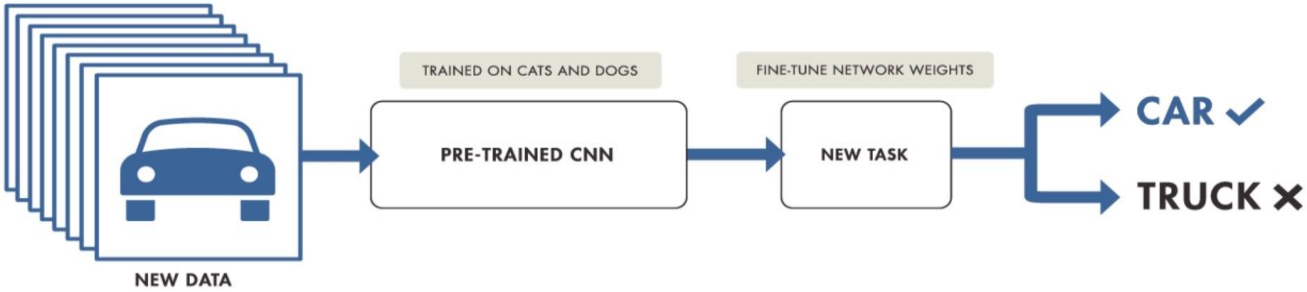
TRAINING FROM SCRATCH



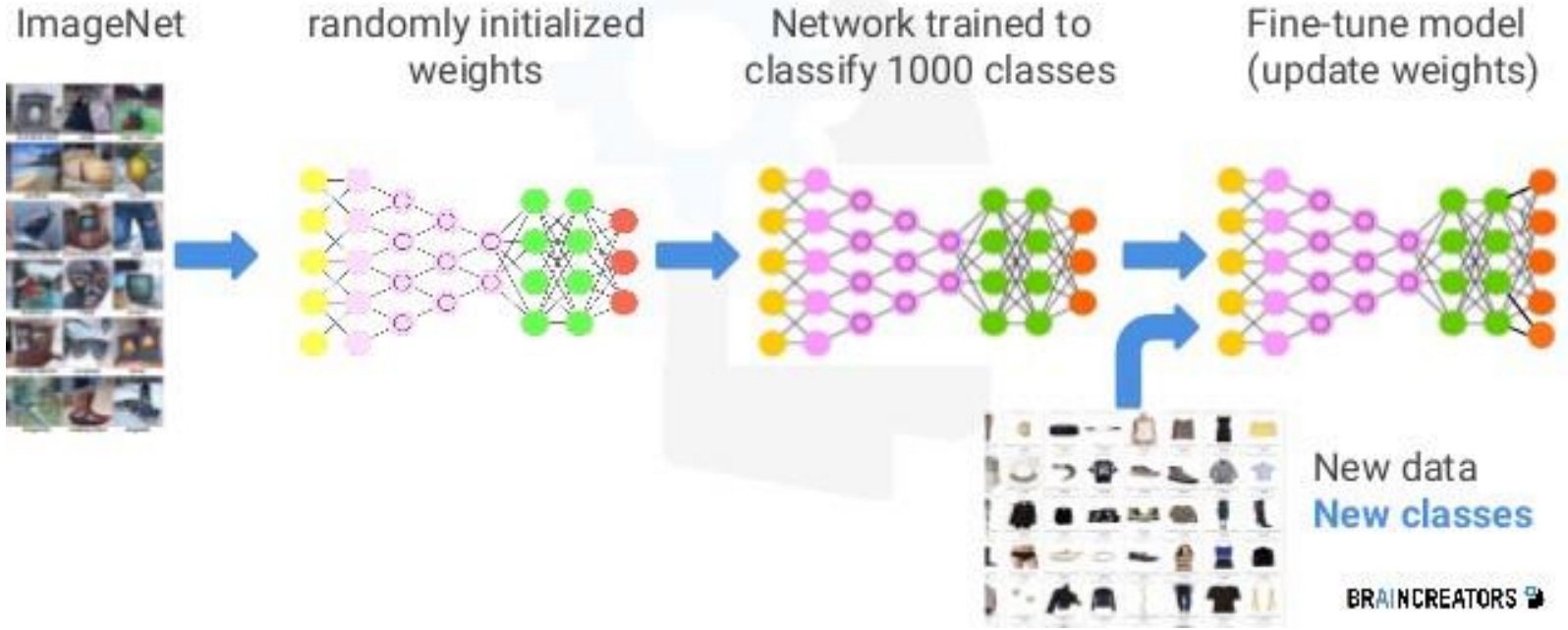
TRANSFER LEARNING



ImageNet Competition

https://gist.github.com/yrevar/942d3a0ac09ec9e5eb3a

Transfer Learning



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Keras Application for Pre-trained Model

Optical Character Recognition

https://miro.medium.com/max/866/1*CBkz7f_KjNh_wVuqLp-m0A.png

Installing Tesseract Software

Installing the software on Linux Machine

```
!sudo apt install tesseract-ocr
!pip install pytesseract --quiet
```

Installing the Python wrapper for Pytesseract

THANK YOU