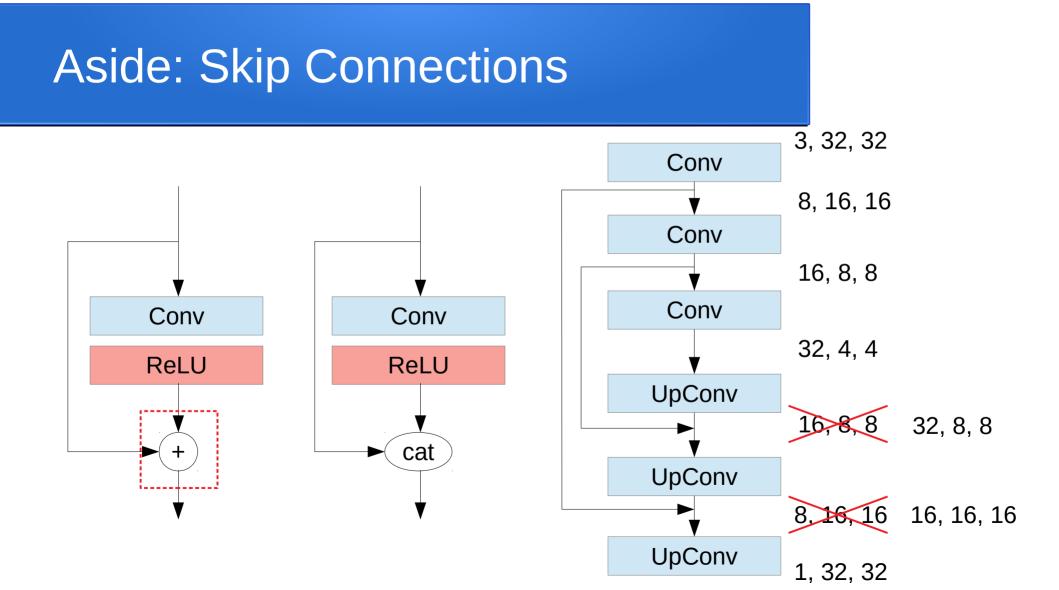
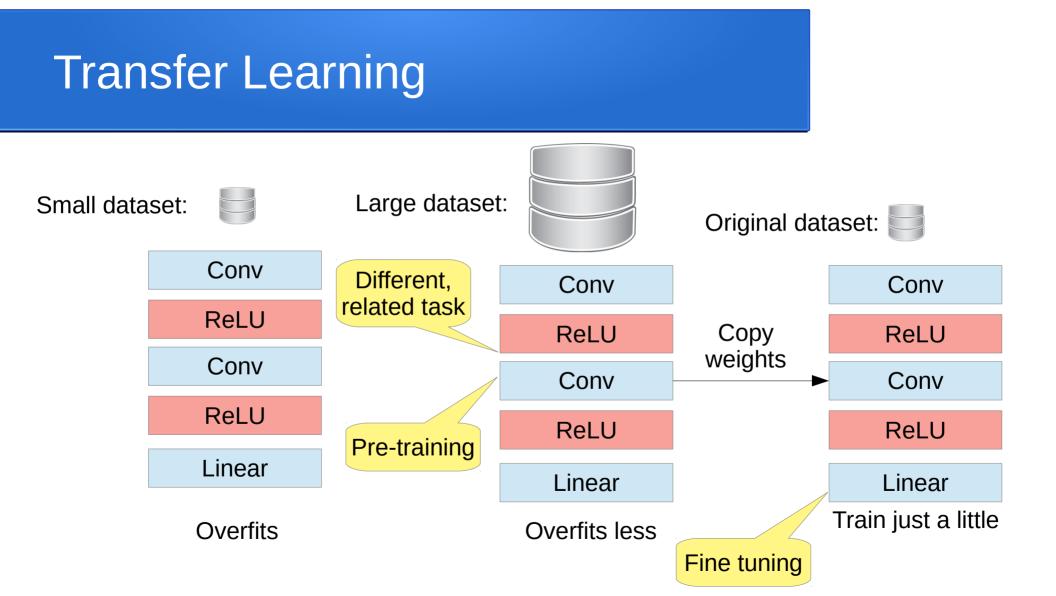


Transfer Learning





Why does Transfer Learning Work?

Similar datasets – similar features



- Edges
- Colors
- Basic shapes
- Textures

```
• Edges
```

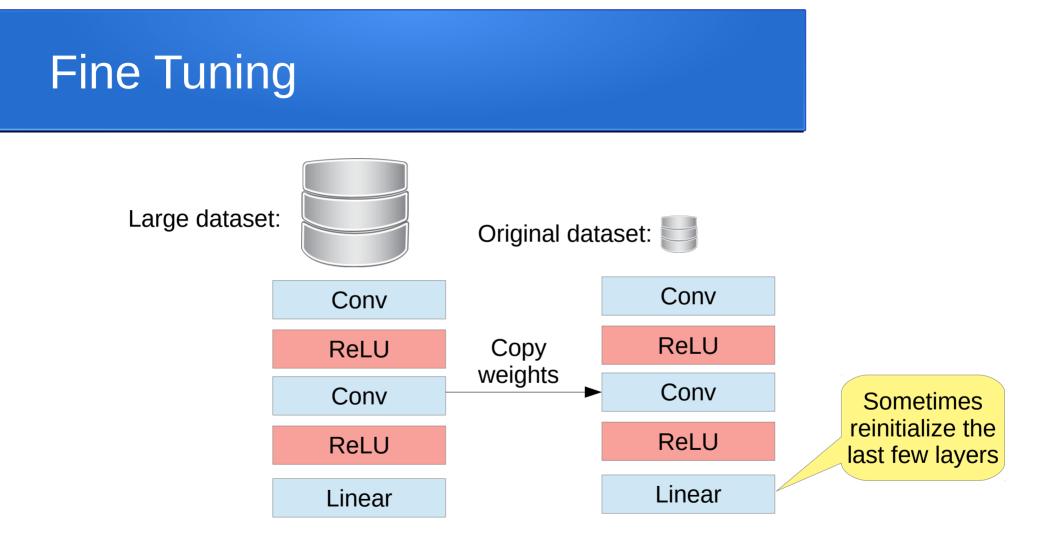
- Colors
- Basic shapes
- Textures
- ...

Pre-training

- Vision: ImageNet
- Natural Language Processing
 - Self-Supervision
 - GPT3
- Model zoo
 - torch.utils.model_zoo

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When to use Transfer Learning

- Whenever you can
 - If a pre-trained model exists
 - Especially in early experiments
- In this class: don't use pretrained models
 - You can look at them for early experiments if you want
 - Your final models should be trained from scratch