



Enhancing Vision with Convolutional Neural Networks

- ✓ **Video:** A conversation with Andrew Ng
1 min
- ✓ **Video:** What are convolutions and pooling?
2 min
- ✓ **Reading:** Coding convolutions and pooling layers
10 min
- ✓ **Video:** Implementing convolutional layers
1 min
- ✓ **Reading:** Learn more about convolutions
10 min
- ✓ **Video:** Implementing pooling layers
4 min
- ✓ **Reading:** Getting hands-on, your first ConvNet
10 min
- ✓ **Video:** Improving the Fashion classifier with convolutions
4 min
- ✓ **Reading:** Try it for yourself
1h
- ▶ **Video:** Walking through convolutions
3 min
- 📖 **Reading:** Experiment with filters and pools
1h
- 🔒 **Quiz:** Week 3 Quiz
6 questions

Weekly Exercise - Improving DNN Performance using Convolutions



Try it for yourself

Here's the notebook that Laurence was using in that screencast. To make it work quicker, go to the 'Runtime' menu, and select 'Change runtime type'. Then select GPU as the hardware accelerator!

Work through it, and try some of the exercises at the bottom! It's really worth spending a bit of time on these because, as before, they'll really help you by seeing the impact of small changes to various parameters in the code. You should spend at least 1 hour on this today!

Once you're done, go onto the next video and take a look at some code to build a convolution yourself to visualize how it works!

✓ Complete

Go to next item

