Use CNNs to classify objects [Day 13 of 17]

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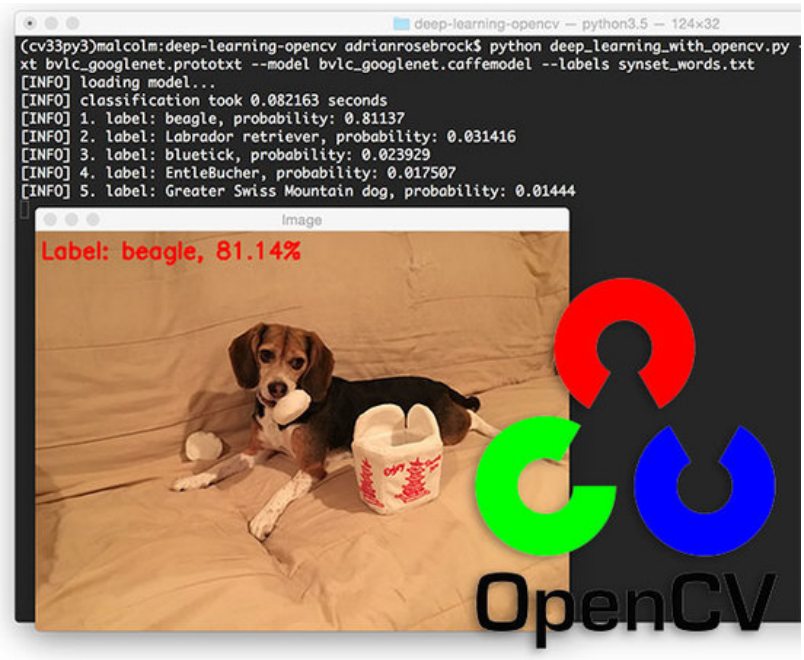
附　件:

Hi,

Now that you've built your first neural network, let's try something cool.

We'll take a (pre-trained) deep neural network and see how to use it to recognize thousands of everyday objects.



The CNNs we're using here today *have already been trained*. We don't need to invest hours in "teaching" them to recognize objects. Instead, we'll just leap straight to the fun part, where we tap into the pre-trained network and use it to classify our images.

The *minor* downside to using these pre-trained models is that you can't modify them to include your own labels and classes — at least not easily.

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Side note: You *can* actually apply a technique called transfer learning/fine-tuning to a pre-trained model, enabling it to recognize new classes — that's an advanced technique
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you can learn in the Practitioner Bundle and ImageNet Bundle of *Deep Learning for Computer Vision with Python.*

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For now, you'll start by applying pre-trained networks to your own input images.

And if you're itching for the next step, no worries. Tomorrow, you'll learn how to create *your very own image dataset for deep learning* — so don't miss it!

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