Exercise 2 - Cats vs. Dogs using augmentation

This is the same exercise and notebook as provided here. This button below will take you to the Google Colaboratory environment, in case you would like to use it to follow along with the course videos. In order to pass the graded item, you will still need to submit your work via the Coursera-hosted Jupyter Notebook.

Now that you've seen Image Augmentation in action, it's time to go back to the Cats v Dogs full Kaggle Challenge exercise. Last week you built a classifier for Cats v Dogs and trained it for a few epochs. This week I want you to add Augmentation to it, and experiment with different parameters to avoid overfitting. This will likely take a lot of time -- as it requires using the full dataset along with augmentation code to edit the data on-the-fly. So be sure to use the GPU option if you are training with colab. The opportunity here is to try hard to get into State-of-the-Art type classification with 99% or greater accuracy on training and validation. Experiment with different images it hasn't before seen, and see if you can get it to correctly classify them! For a particularly challenging image, see if you can get it to classify this one correctly: https://pixabay.com/photos/bed-dog-animals-dogs-pets-relax-1284238/

Lets now build the Cats vs. Dogs classifier using augmentation!