



deeplearning.ai

# Practical advice for using ConvNets

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## Data augmentation

# Common augmentation method

Mirroring



Random Cropping



Rotation

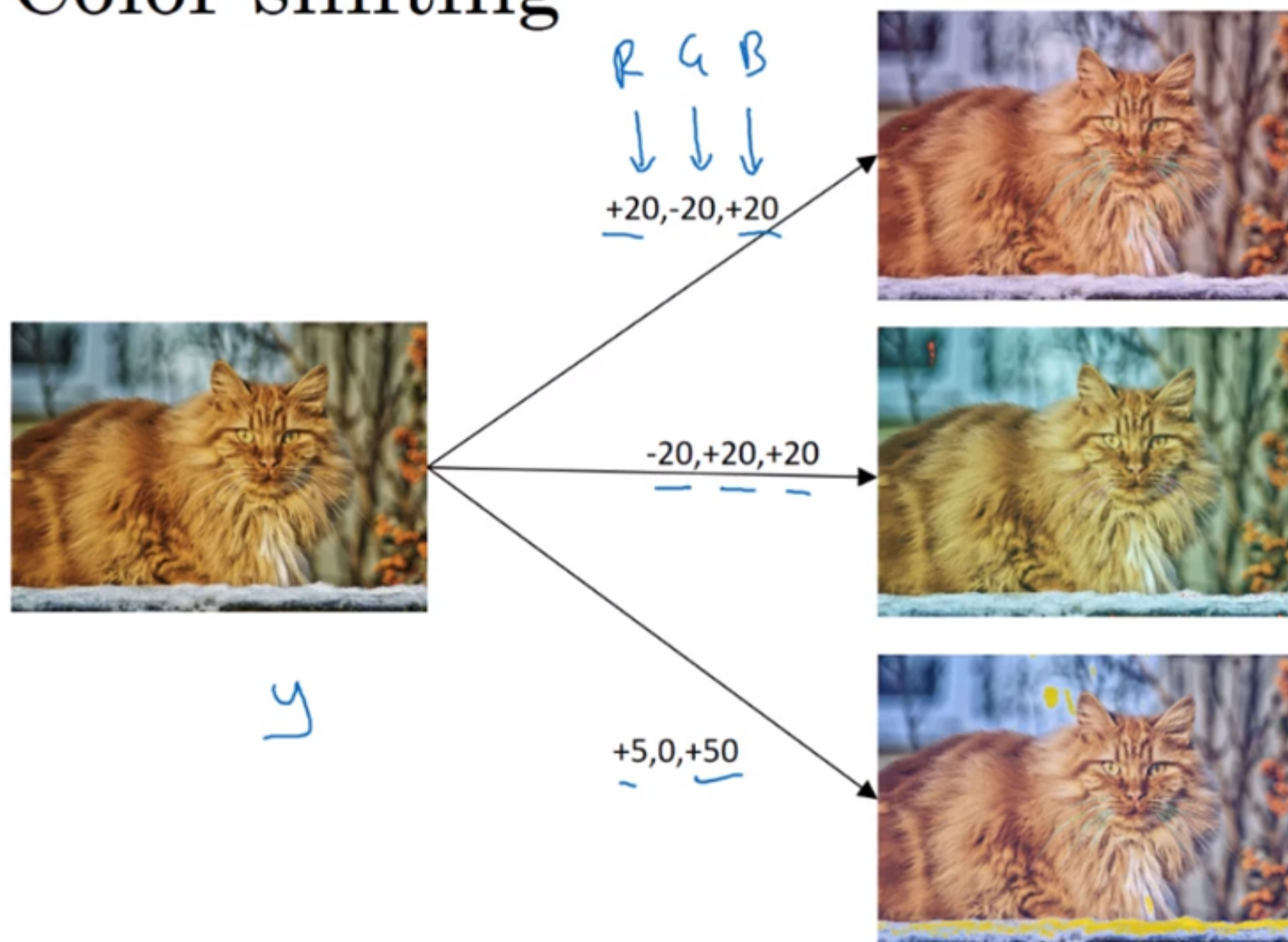
Shearing

Local warping

...



# Color shifting



Advanced:

PCA

[ml-class.org](http://ml-class.org)

[ AlexNet paper

[ "PCA color augmentation."

R B

G

# Implementing distortions during training

