Augmentation

- Video: A conversation with Andrew Ng 2 min
- Reading: Image
 Augmentation
 10 min
- Video: Introducing augmentation 2 min
- Reading: Start Coding...
 10 min
- Video: Coding augmentation with ImageDataGenerator 3 min
- Reading: Looking at the notebook

 10 min
- Video: Demonstrating overfitting in cats vs. dogs 1 min
- Reading: The impact of augmentation on Cats vs.

 Dogs

 10 min
- Video: Adding augmentation to cats vs. dogs
 1 min
- Reading: Try it for yourself!

 10 min
- Video: Exploring augmentation with horses vs. humans
 1 min
- Reading: What have we seen so far?

 10 min
- Quiz: Week 2 Quiz 8 questions
- Video: Week 2 Wrap up 37 sec

Weekly Exercise- Full cats vs. dogs using augmentation

Optional: Ungraded Google Colaboratory environment

Congratulations! You passed!

TO PASS 80% or Aligner 30 MIN

Keep Learning

Keep Learning

100%

Week 2 Quiz	1	
Week 2 Quiz		
LATEST SUBMISSION GRADE		
100%		
DUE DATE Aug 10, 12:29 PM IST ATTEMPTS 3 every 8 hours 1. How do you use Image Augmentation in TensorFLow		Try again
	1 / 1 point	
 Using parameters to the ImageDataGenerator Receive grade 	Grade	View Feedback
With the tf.augment And or higher	100%	We keep your highest score
You have to write a plugin to extend tf.layers		
With the keras.augment API		6 F
✓ Correct		
2. If my training data only has people facing left, but I want to classify people facing right, how would I avoid	1 / 1 point	
overfitting?		
Use the 'flip_vertical' parameter around the Y axis		
Use the 'horizontal_flip' parameter Use the 'structure of the structure		
Use the 'flip' parameter		
Use the 'flip' parameter and set 'horizontal'		
✓ Correct		
3. When training with augmentation, you noticed that the training is a little slower. Why?	1 / 1 point	
Because there is more data to train on		
Because the training is making more mistakes		
Because the augmented data is bigger		
Because the image processing takes cycles		
✓ Correct		
4. What does the fill_mode parameter do?	1 / 1 point	
There is no fill_mode parameter		
It creates random noise in the image		
It attempts to recreate lost information after a transformation like a shear It attempts to recreate lost information after a transformation like a shear		
It masks the background of an image		
✓ Correct		
5. When using Image Augmentation with the ImageDataGenerator, what happens to your raw image data on-disk.	1 / 1 point	
It gets overwritten, so be sure to make a backup		
A copy is made and the augmentation is done on the copy		
Nothing, all augmentation is done in-memory		
O It gets deleted		
✓ Correct		
6. How does Image Augmentation help solve overfitting?	1 / 1 point	
It slows down the training process		

It manipulates the training set to generate more scenarios for features in the images

O It manipulates the validation set to generate more scenarios for features in the images

It automatically fits features to images by finding them through image processing techniques