

Introduction

Larger Dataset

- Video: A conversation with Andrew Ng 1 min
- **Reading:** The cats vs dogs dataset 10 min
- **Video:** Training with the cats vs. dogs dataset 2 min
- **Reading:** Looking at the notebook 10 min
- **Video:** Working through the notebook 4 min
- Reading: What you'll see next 10 min
- **Video:** Fixing through cropping 49 sec
- **Video:** Visualizing the effect of the convolutions 1 min
- Video: Looking at accuracy and loss 1 min
- Reading: What have we seen so far? 10 min
- Quiz: Week 1 Quiz 8 questions
- Video: Week 1 Wrap up 33 sec

Weekly Exercise- Attempt the cats vs. dogs Kaggle challenge!

Optional: Ungraded Google Colaboratory environment **Congratulations! You passed!** TO PASS 80% or QUIZ • 30 MIN

Keep Learning

GRADE 100%



Week 1 Quiz

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Get closer to your goal You are **85%** more likely to complete the course if you

100%	finish the assignment	
I. What does flow from directory give you on the ImageGenerator?	1 / 1 point	Try again
The ability to easily load images for training ATTEMPTS 3 every 8 hours		
The ability to pick the size of training images	Grade	
Receive grade The ability to automatically label images based on their directory name TO PASS 80% or higher	100%	View Feedback
All of the above		We keep your highest scor
Correct		3 P F
2. If my Image is sized 150x150, and I pass a 3x3 Convolution over it, what size is the resulting image?	1 / 1 point	
O 150x150		
O 153x153		
○ 450x450		
148x148		
✓ Correct		
3. If my data is sized 150x150, and I use Pooling of size 2x2, what size will the resulting image be?	1 / 1 point	
O 149x149		
O 148x148		
O 300x300		
Correct		
4. If I want to view the history of my training, how can I access it?	1 / 1 point	
O Download the model and inspect it		
Create a variable 'history' and assign it to the return of model.fit or model.fit_generator		
Pass the parameter 'history=true' to the model.fit		
Use a model.fit_generator		
Correct		
5. What's the name of the API that allows you to inspect the impact of convolutions on the images?	1 / 1 point	
The model.layers API		
The model.images API		
The model.pools API		
The model.convolutions API		
✓ Correct		

6. When exploring the graphs, the loss levelled out at about .75 after 2 epochs, but the accuracy climbed close to 1.0 after 15 1/1 point

epochs. What's the significance of this?

There was no point training after 2 epochs, as we overfit to the validation data

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A bigger training set would give us better validation accuracy

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