✓ **Congratulations! You passed!**
TO PASS 80% or higher

Keep Learning

GRADE
100%

Week 1 Quiz

LATEST SUBMISSION GRADE

100%

1. What does flow_from_directory give you on the ImageGenerator? `1 / 1 point`

   ○ The ability to easily load images for training

   ○ The ability to pick the size of training images

   ○ The ability to automatically label images based on their directory name

   ⦿ All of the above

   ✓ **Correct**

2. If my Image is sized 150x150, and I pass a 3x3 Convolution over it, what size is the resulting image? `1 / 1 point`

   ○ 150x150

   ⦿ 148x148

   ○ 153x153

   ○ 450x450

   ✓ **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`

   ○ 148x148

   ○ 149x149

   ⦿ 75x75

   ○ 300x300

   ✓ **Correct**

4. If I want to view the history of my training, how can I access it? `1 / 1 point`

   ○ 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.pools API

   ⦿ The model.layers API

   ○ The model.images 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

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

   ○ A bigger training set would give us better validation accuracy

   ○ A bigger validation set would give us better training accuracy

   ✓ **Correct**

7. Why is the validation accuracy a better indicator of model performance than training accuracy?   1 / 1 point

○ It isn't, they're equally valuable

○ There's no relationship between them

◉ The validation accuracy is based on images that the model hasn't been trained with, and thus a better indicator of how the model will perform with new images.

○ The validation dataset is smaller, and thus less accurate at measuring accuracy, so its performance isn't as important

✓ Correct

8. Why is overfitting more likely to occur on smaller datasets?   1 / 1 point

○ Because in a smaller dataset, your validation data is more likely to look like your training data

○ Because there isn't enough data to activate all the convolutions or neurons

○ Because with less data, the training will take place more quickly, and some features may be missed

◉ Because there's less likelihood of all possible features being encountered in the training process.

✓ Correct