



## Week 1 Quiz

TOTAL POINTS 8

1. What does flow\_from\_directory give you on the ImageGenerator? 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
2. If my image is sized 150x150, and I pass a 3x3 Convolution over it, what size is the resulting image? 1 point
  - ☐ 150x150
  - ☒ 148x148
  - ☐ 450x450
  - ☐ 153x153
3. If my data is sized 150x150, and I use Pooling of size 2x2, what size will the resulting image be? 1 point
  - ☐ 148x148
  - ☐ 149x149
  - ☒ 75x75
  - ☐ 300x300
4. If I want to view the history of my training, how can I access it? 1 point
  - ☐ Pass the parameter 'history=true' to the model.fit
  - ☐ Use a model.fit\_generator
  - ☐ Download the model and inspect it
  - ☒ Create a variable 'history' and assign it to the return of model.fit or model.fit\_generator
5. What's the name of the API that allows you to inspect the impact of convolutions on the images? 1 point
  - ☐ The model.pools API
  - ☐ The model.convolution API
  - ☐ The model.images API
  - ☒ The model.layers API
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 epochs. What's the significance of this? 1 point
  - ☐ 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
7. Why is the validation accuracy a better indicator of model performance than training accuracy? 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
8. Why is overfitting more likely to occur on smaller datasets? 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.

☒ I, **S. M. Sabul Hajjaj**, understand that submitting work that isn't my own may result in permanent failure of this course or deactivation of my Coursera account.

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