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Week 4 Quiz

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Due Jun 30, 11:59 PM CST **Attempts** 3 every 8 hours

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1. Using Image Generator, how do you label images? **1 / 1 point**

○ TensorFlow figures it out from the contents

● It's based on the directory the image is contained in

○ It's based on the file name

○ You have to manually do it

Correct
That's right! The directory of the image is the label.

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2. What method on the Image Generator is used to normalize the image? **1 / 1 point**

○ Rescale_image

○ normalize_image

● rescale

○ normalize

Correct
You've got it! This is the correct method for normalizing images.

3. How did we specify the training size for the images? **0 / 1 point**

○ The target_size parameter on the training generator

○ The target_size parameter on the validation generator

● The training_size parameter on the training generator

○ The training_size parameter on the validation generator

Incorrect
It seems like the obvious answer, but unfortunately this is incorrect.

4. When we specify the input_shape to be (300, 300, 3), what does that mean? **1 / 1 point**

○ Every Image will be 300x300 pixels, and there should be 3 Convolutional Layers

○ There will be 300 images, each size 300, loaded in batches of 3

● Every Image will be 300x300 pixels, with 3 bytes to define color

○ There will be 300 horses and 300 humans, loaded in batches of 3

Correct
Nailed it! input_shape specifies image resolution.

5. If your training data is close to 1.000 accuracy, but your validation data isn't, what's the risk here? **1 / 1 point**

○ No risk, that's a great result

○ You're underfitting on your validation data

○ You're overfitting on your validation data

● You're overfitting on your training data

Correct
Great job! The analysis corresponds too closely to the training data, and may therefore fail to fit additional data.

6. Convolutional Neural Networks are better for classifying images like horses and humans because: **1 / 1 point**

☑ There's a wide variety of horses

Correct
Way to go! CNNs are better in this case as they are independent from prior knowledge and human intervention in feature extraction.

☑ There's a wide variety of humans

Correct
You've got it! CNNs are better in this case as they are independent from prior knowledge and human