

## Quiz for CNN Tutorial

*Hint: For each question, one or two options can be correct.*

1. What are the two classes of images used in the classification task in the tutorial?
  - a) CNN vs. BBC
  - b) Xinhua vs. CNN
  - c) Xinhua vs. NYT/BBC
  - d) NYT vs. BBC
2. In the preprocessing step, if an image was not square, what technique was used to adjust it?
  - a) Stretching the image
  - b) Adding white margins
  - c) Random cropping
  - d) Applying filters
3. For images smaller than 224x224 pixels, what preprocessing step was applied before resizing or cropping?
  - a) They were stretched to 224x224
  - b) They were padded with black pixels
  - c) They were converted to grayscale
  - d) They were duplicated to meet the size requirement
4. What was the purpose of setting the layers of the base ResNet50 model to non-trainable?
  - a) To reduce the training time
  - b) To prevent overfitting
  - c) To retain the pre-trained weights from ImageNet
  - d) To ensure that only the added dense layer is trainable
5. How could reducing the number of dense layers added on top of the base ResNet50 model affect the training?
  - a) It would make the model more prone to overfitting
  - b) It would increase the training time significantly
  - c) It could help in reducing overfitting and computational cost
  - d) It would make the model unable to learn from the data
6. What does the “50” in ResNet50 signify?
  - a) The number of images it can process at once
  - b) The number of layers with trainable weights
  - c) The version of the ResNet architecture
  - d) The percentage of accuracy it can achieve