

The diagram for traditional programming had Rules and Data In, but what came out?

- **Answers**
- Binary
- Machine Learning
- Bugs

Why does the DNN for Fashion MNIST have 10 output neurons?

- To make it train 10x faster
- To make it classify 10x faster
- Purely Arbitrary
- **The dataset has 10 classes**

What is a Convolution?

- A technique to make images smaller
- A technique to make images larger
- **A technique to extract features from an image**
- A technique to remove unwanted images

Applying Convolutions on top of a DNN will have an impact on training?

- It will be slower
- It will be faster
- There will be no impact
- **It depends on many factors. It might make your training faster or slower, and a poorly designed Convolutional layer may even be less efficient than a plain DNN!**

What method on an ImageGenerator is used to normalize the image?

- normalize
- flatten
- resize()
- **rescale**

When using Image Augmentation with the ImageDataGenerator, what happens to your raw image data on-disk.

- A copy will be made, and the copies are augmented
- A copy will be made, and the originals will be augmented
- **Nothing**
- The images will be edited on disk, so be sure to have a backup

**Can you use Image augmentation with Transfer Learning?**

- No - because the layers are frozen so they can't be augmented
- **Yes. It's pre-trained layers that are frozen. So you can augment your images as you train the bottom layers of the DNN with them**

**When training for multiple classes what is the Class Mode for Image Augmentation?**

- `class_mode='multiple'`
- `class_mode='non_binary'`
- **`class_mode='categorical'`**
- `class_mode='all'`