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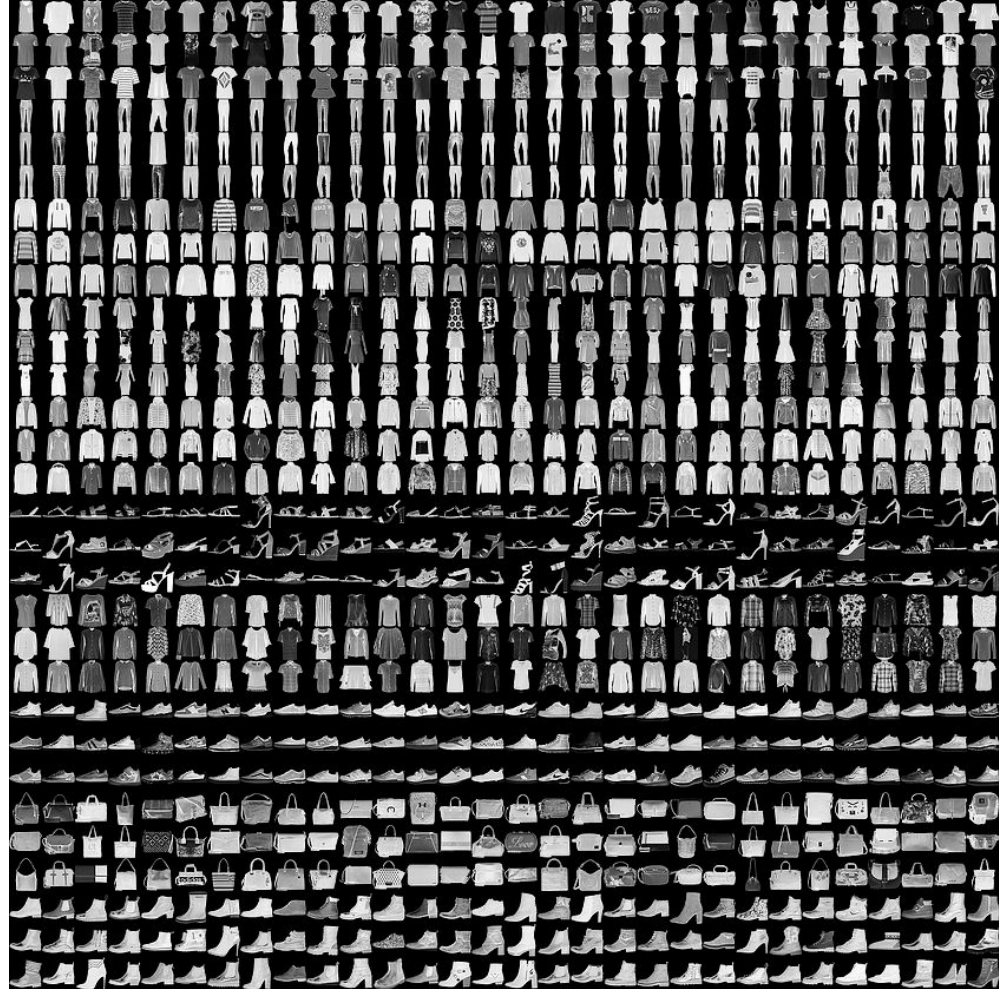
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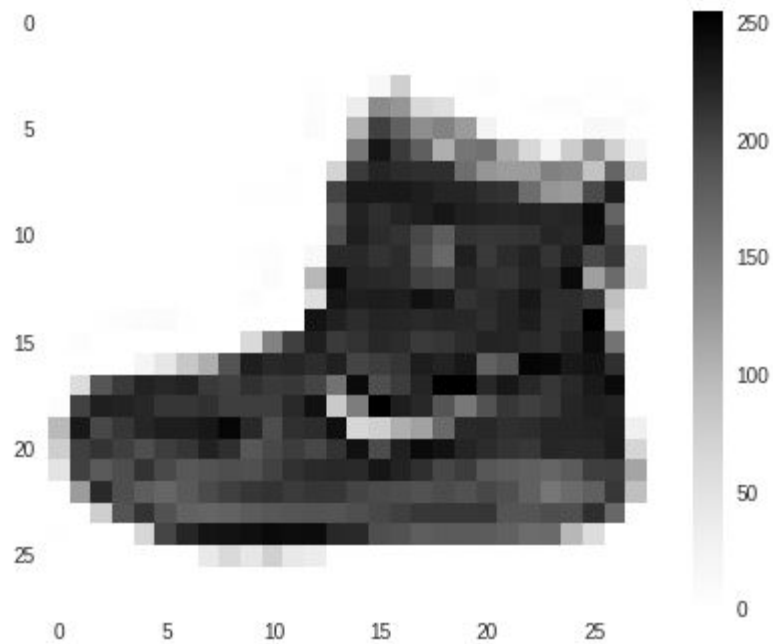
# Fashion MNIST

- 70k Images
- 10 Categories
- Images are 28x28
- Can train a neural net!



# Fashion MNIST

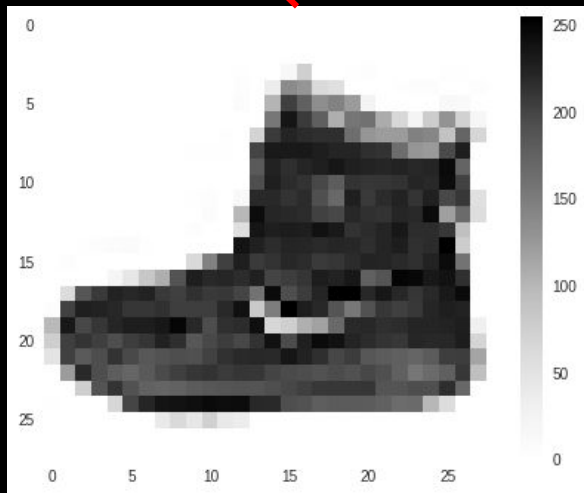
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(train_images, train_labels), (test_images, test_labels) = fashion_mnist.load_data()
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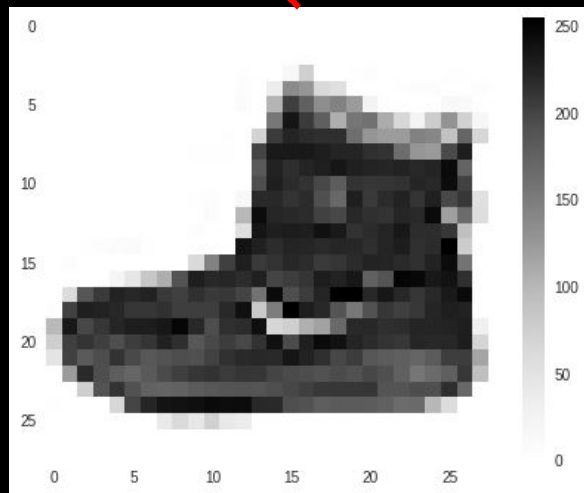


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09

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```



09

09 = ankle boot;  
踝靴;  
アンクルブーツ;  
Bróg rúitín

```
model = tf.keras.Sequential([
    tf.keras.Input(shape=(28, 28)),
    tf.keras.layers.Flatten(),
    tf.keras.layers.Dense(128, activation=tf.nn.relu),
    tf.keras.layers.Dense(10, activation=tf.nn.softmax)
])
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```

Input



$w_0$

$w_1$

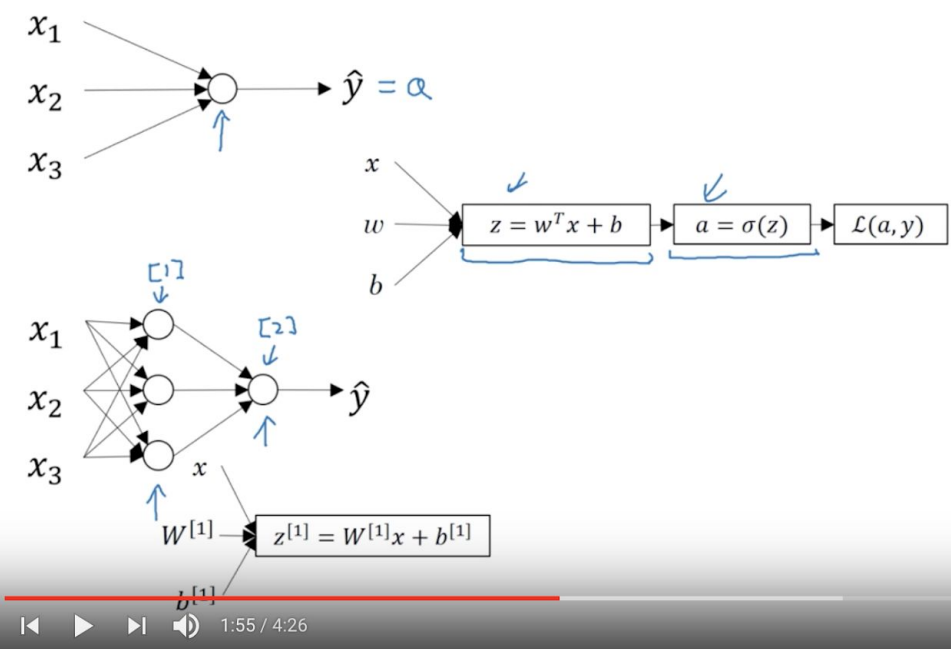
$w_2$

$$w_0x_0 + w_1x_1 + w_2x_2 \dots w_Nx_N = 9$$

Output



# What is a Neural Network?







Neural Network Overview (C1W3L01)

11,067 views


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≡

- ▶  **Neural Network Overview (C1W3L01)**  
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- 26  **Neural Network Representations (C1W3L02)**  
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- 27  **Computing Neural Network Output (C1W3L03)**  
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- 28  **Vectorizing Across Multiple Examples (C1W3L04)**  
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9:06
- 29  **Explanation For Vectorized Implementation (C1W3L05)**  
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7:38
- 30  **Activation Functions (C1W3L06)**  
Deeplearning.ai  
10:57

Why Non-linear Activation Functions



Complete User Registration system using PHP and MySQL...

Awa Melvine  
5.7M views

32:43

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model.fit(training_images, training_labels, epochs=5)
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class myCallback(tf.keras.callbacks.Callback):  
    def on_epoch_end(self, epoch, logs=None):  
        if logs['loss'] < 0.4:  
            print('Loss is low so cancelling training!')  
            self.model.stop_training = True
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```

