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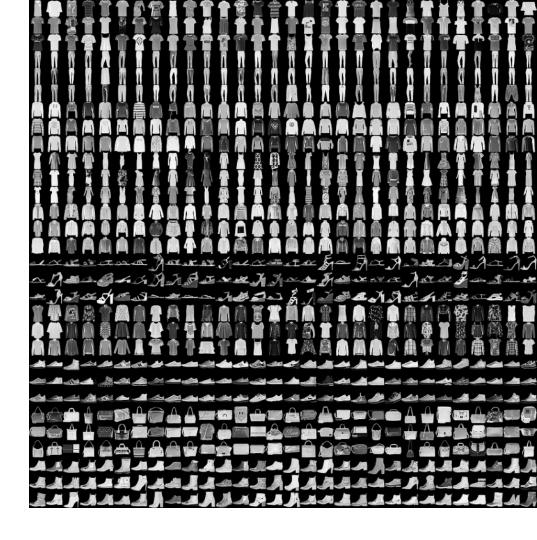






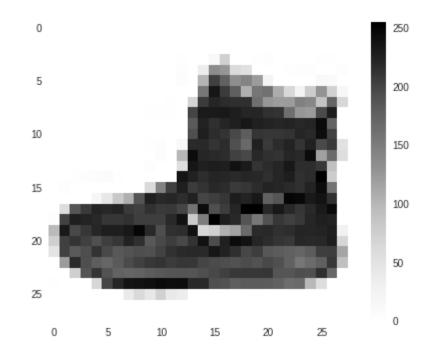
Fashion MNIST

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



Fashion MNIST

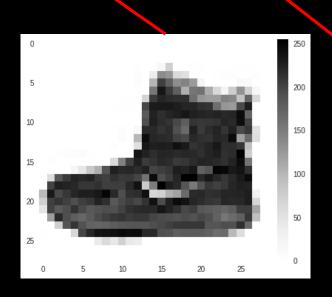
- 70k Images
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fashion_mnist = tf.keras.datasets.fashion_mnist	
(train_images, train_labels), (test_images, test_labels) = fashion_mnist.load_data(

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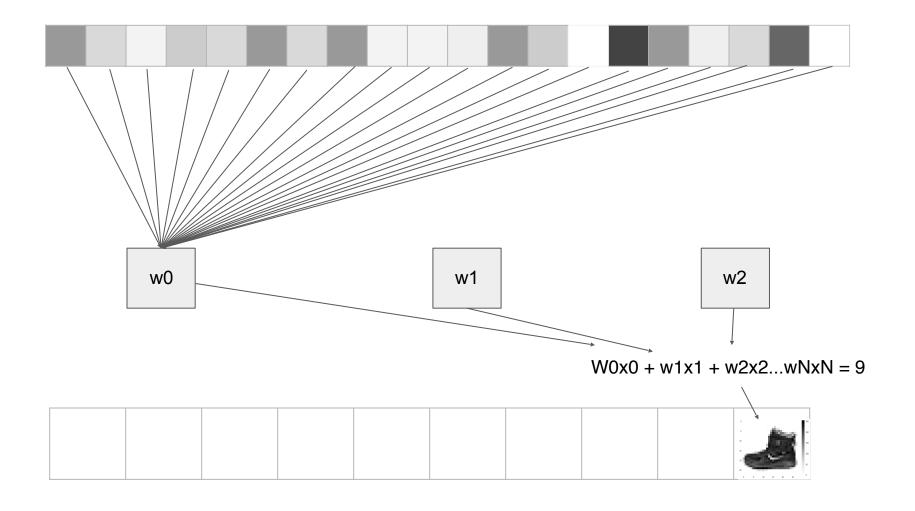
09

```
import tensorflow as tf
from tensorflow import keras
```

```
mnist = tf.keras.datasets.fashion_mnist
(train_images, train_labels), (test_images, test_labels) = mnist.load_data()
                                              09 = ankle boot;
                                                      踝靴;
                                                      アンクルブーツ;
                                                      Bróg rúitín
```

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

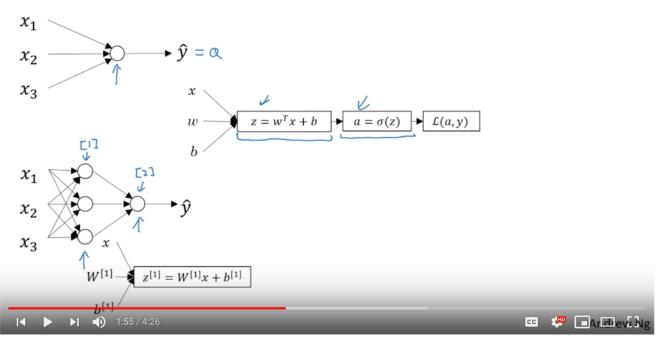
```
model = keras.Sequential([
    keras.layers.Flatten(input_shape=(28, 28)),
    keras.layers.Dense(128, activation=tf.nn.relu),
    keras.layers.Dense(10, activation=tf.nn.softmax)
])
```





https://youtu.be/fXOsFF95ifk

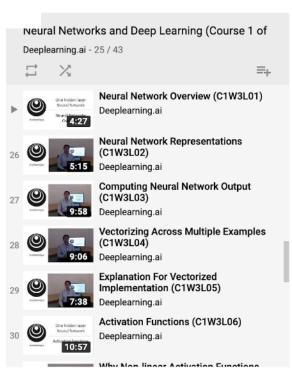
What is a Neural Network?



Neural Network Overview (C1W3L01)

11,067 views





Complete User Registration system using PHP and MySQL...

Awa Melvine

5.7M views

32:43

```
(training_images, training_labels), (test_images, test_labels) = mnist.load_data()
training_images=training_images/255.0
test_images=test_images/255.0
model = tf.keras.models.Sequential([
    tf.keras.layers.Flatten(),
```

model.compile(optimizer=tf.optimizers.Adam(), loss='sparse_categorical_crossentropy')

mnist = tf.keras.datasets.fashion_mnist

tf.keras.layers.Dense(512, activation=tf.nn.relu), tf.keras.layers.Dense(10, activation=tf.nn.softmax)

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={}):
        if(logs.get('loss')<0.4):
        print("\nLoss is low so cancelling training!")
        self.model.stop_training = True</pre>
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model.fit(training_images, training_labels, epochs=5, callbacks=[callbacks]
```