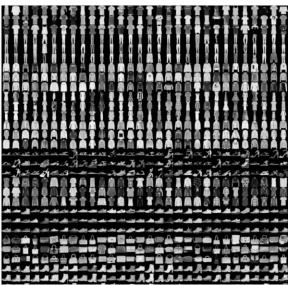


Fashion MNIST

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

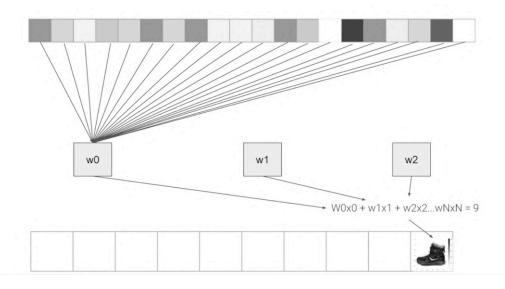


Fashion MNIST

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https://github.com/zalandoresearch/fashion-mnist





```
mnist = tf.keras.datasets.fashion_mnist
  (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(),
    tf.keras.layers.Dense(512, activation=tf.nn.relu),
    tf.keras.layers.Dense(10, activation=tf.nn.softmax)
])
model.compile(optimizer='adam', loss='sparse_categorical_crossentropy')
model.fit(training_images, training_labels, epochs=5)
```

```
The training loop does support callbacks. So in every epoch, you can callback to a code function, having checked the metrics. If they're what you want to say, then you can cancel the training at that point.

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

When

Contains a print a
```

```
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>
```

```
callbacks = myCallback()
mnist = tf.keras.datasets.fashion_mnist
(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(),
    tf.keras.layers.Dense(512, activation=tf.nn.relu),
    tf.keras.layers.Dense(10, activation=tf.nn.softmax)
])
model.compile(optimizer='adam', loss='sparse_categorical_crossentropy')
model.fit(training_images, training_labels, epochs=5, callbacks=[callbacks])
```