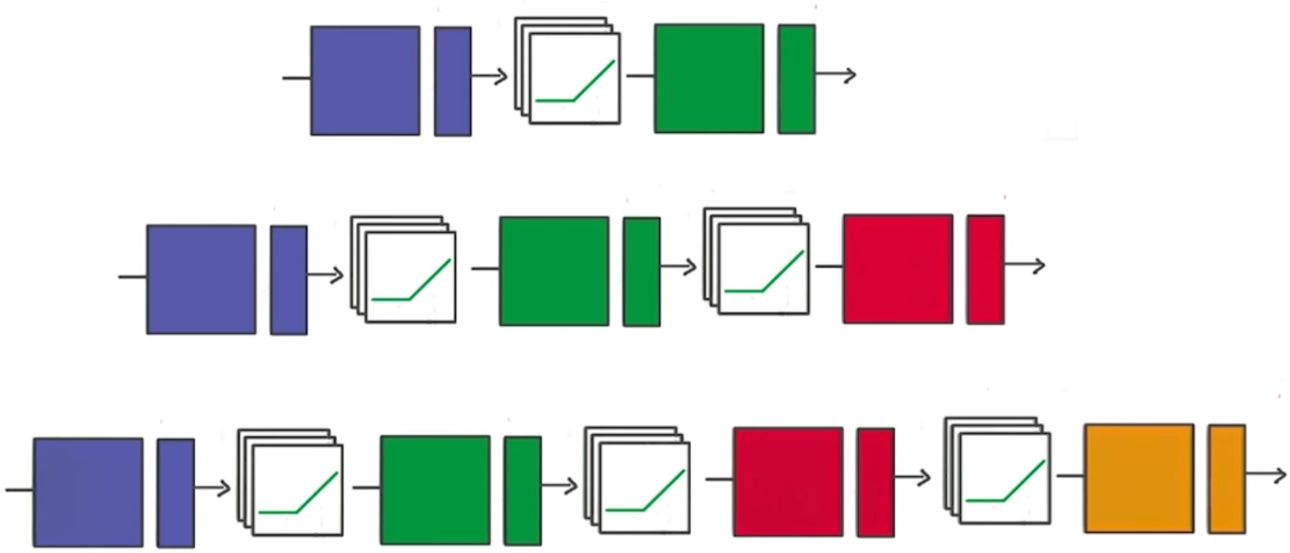
```
    # Training cycle
    for epoch in range(training_epochs):
        total_batch = int(mnist.train.num_examples/batch_size)
        # Loop over all batches
        for i in range(total_batch):
            batch_x, batch_y = mnist.train.next_batch(batch_size)
            # Run optimization op (backprop) and cost op (to get loss value)
            sess.run(optimizer, feed_dict={x: batch_x, y: batch_y})
```

The MNIST library in TensorFlow provides the ability to receive the dataset in batches. Calling the `mnist.train.next_batch()` function returns a subset of the training data.

Deeper Neural Network



That's it! Going from one layer to two is easy. Adding more layers to the network allows you to solve more complicated problems.

Search or ask questions in Knowledge.

Ask peers or mentors for help in Student Hub.

NEXT