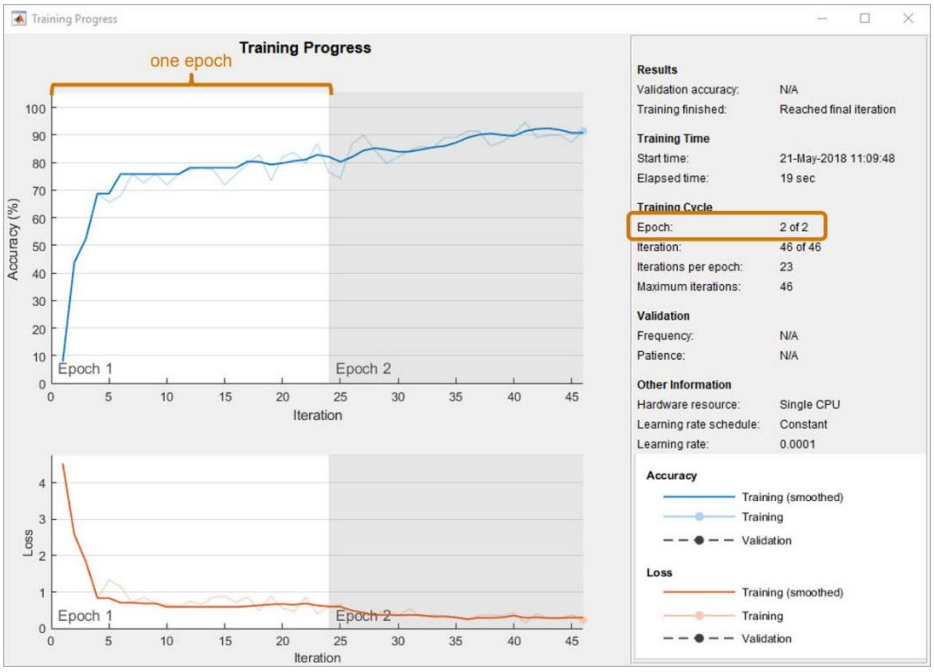
Training Progress Plot

You can set the training options to display a plot of the training progress. This plot shows the accuracy and loss at every iteration.

1.

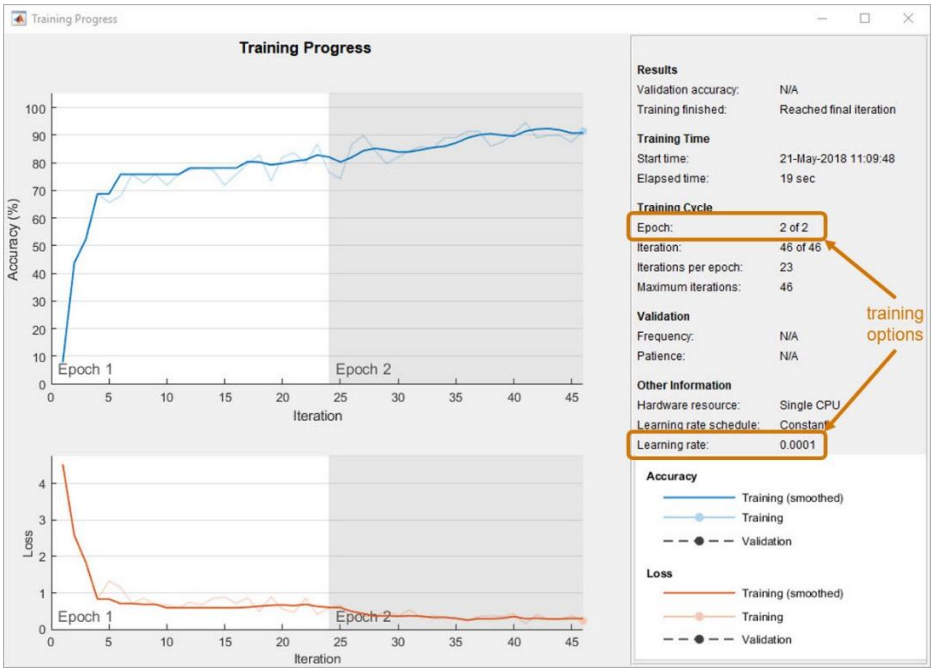
One mini-batch is trained in each iteration. In the plot above, the default mini-batch size of 128 was used. Every point displays the accuracy of classifying 128 different images.

2.



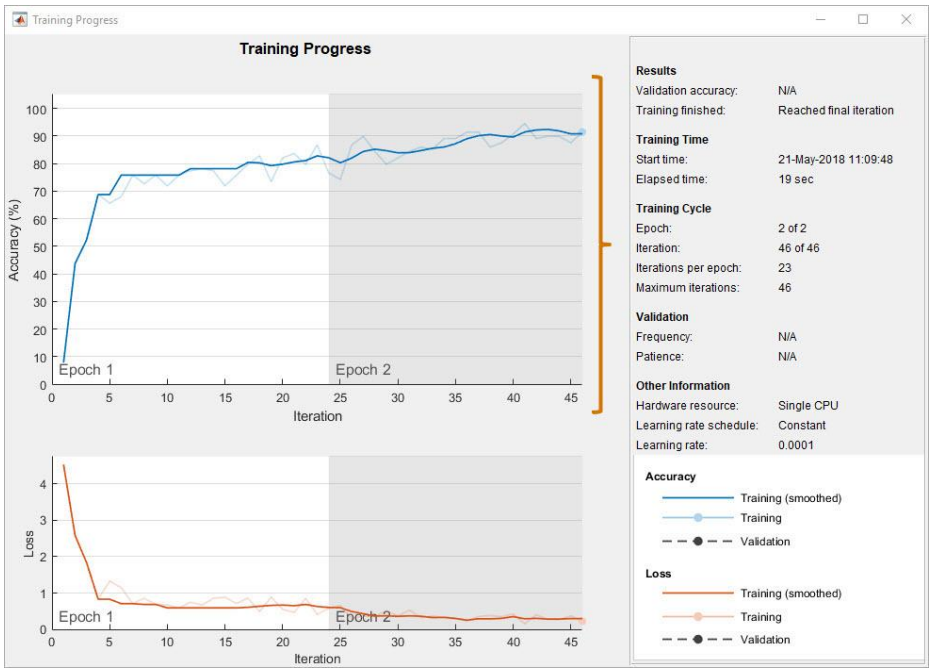
This was trained for two epochs. This means that the network saw the entire data set twice.

3.



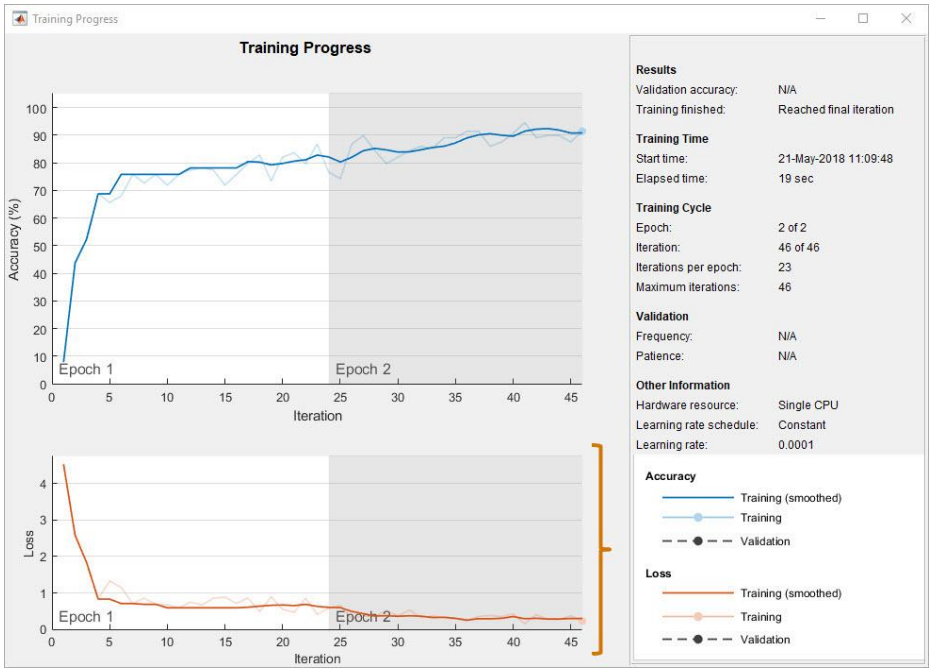
Common training options are also shown, like the maximum number of epochs and the learning rate.

4.



Notice that there are two plots to show how your network is performing. The top plot shows the accuracy. Accuracy is the percentage of training images that the network classified correctly during an iteration.

5.



The bottom plot shows the loss. Accuracy does not measure how confident the network is about each prediction. It is better if the network predicts the correct class with 90% confidence than 52% confidence.

Loss is a measure of how far from a perfect prediction the network was, totalled over the set of training images.