

# CSE 455 Homework 5

Yoshihiro Kumazawa

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## 1 Installing PyTorch

Done!

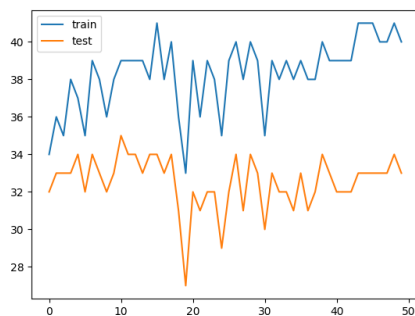
## 2 Find the best network

### 2.1 Training a classifier using only one fully connected Layer

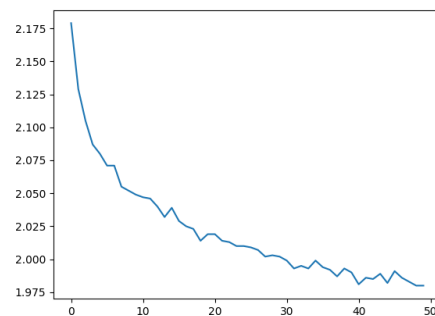
See Figure 1. We can say that the the model successfully trained since the loss is decreasing throughout the training process and there is a healthy gap between the training accuracy and testing accuracy.

### 2.2 Training a classifier using multiple fully connected Layers

See Figure 2. The training is not successful because the testing accuracy plateaus whereas the training keeps increasing.

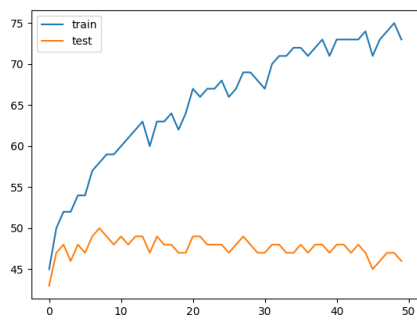


(a) Accuracy

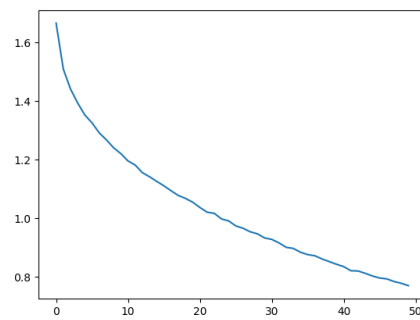


(b) Training loss

Figure 1: Training result of LazyNet



(a) Accuracy



(b) Training loss

Figure 2: Training result of BoringNet

### 2.2.1 Question

## 2.3 Training a classifier using convolutions

### 2.3.1 Question

## 3 How does learning rate work?

## 4 Data Augmentation

## 5 Change the loss function