

Dsp hw1

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The environment is mac os. However, I also test it on the csie workstation so it should not have any problem.

The way to test it is like in the ppt by the ta.

```
./train iteration model_init.txt seq_model_01.txt model_01.txt  
./train iteration model_init.txt seq_model_02.txt model_02.txt  
./train iteration model_init.txt seq_model_03.txt model_03.txt  
./train iteration model_init.txt seq_model_04.txt model_04.txt  
./train iteration model_init.txt seq_model_05.txt model_05.txt  
./test modellist.txt testing_data1.txt result1.txt  
./test modellist.txt testing_data2.txt result2.txt
```

My iteration time is 150 times and I got 0.86 accuracy.

In addition, I did some further test.

When my iteration time is 10 times and I got 0.5408 accuracy.

When my iteration time is 20 times and I got 0.7912 accuracy.

When my iteration time is 50 times and I got 0.8228 accuracy.

When my iteration time is 100 times and I got 0.8100 accuracy.

When my iteration time is 250 times and I got 0.8480 accuracy.

When my iteration time is 500 times and I got 0.8560 accuracy.

When my iteration time is 1000 times and I got 0.8696 accuracy

When my iteration time is 2000 times and I got 0.8696 accuracy

We can find that it will converge.