

Instruction

Feel free to contact me if you have any questions.

1. NeuroSim

We suppose you have got NeuroSim on your pc or you can execute the following cmd.

```
1 git clone https://github.com/neurosim/MLP_NeuroSim_V3.0.git
```

Please read the readme in this project. And you can get detailed information from the documents folder, you will find [NeuroSimV3.0_user_mannual.pdf](#) helps a lot.

2. Your Job

- **Task 1:** In the simulator, we provide several types of synaptic devices, which can be analog or digital. Please choose **more than three types(deault realDevice and IdealDevice is recommended)**, compile and run the main.cpp. What conclusion can you get from the output?

You can find code in main.cpp and please set the total epochs to 64.

- **Task 2 (Optional)** : Modify the network structure. Compile and run the main.cpp, get familiar with the neural network.

You can find code in Param.cpp and Train.cpp.

3. Hints

- Get familiar with neural networks. This website may help a lot.

<https://playground.tensorflow.org/>

Tensorflow — Neural Network Playground

Tinker with a real neural network right here in your browser.

