

Department of Electronic Engineering

## LAB2

國立雲林科技大學 王斯弘助理教授/前瞻學位學士學程 2021/11/25



# **Xavier NX** MNIST手寫測試



#### 到資料夾路徑

\$ cd Desktop/MNIST\_train\_test/

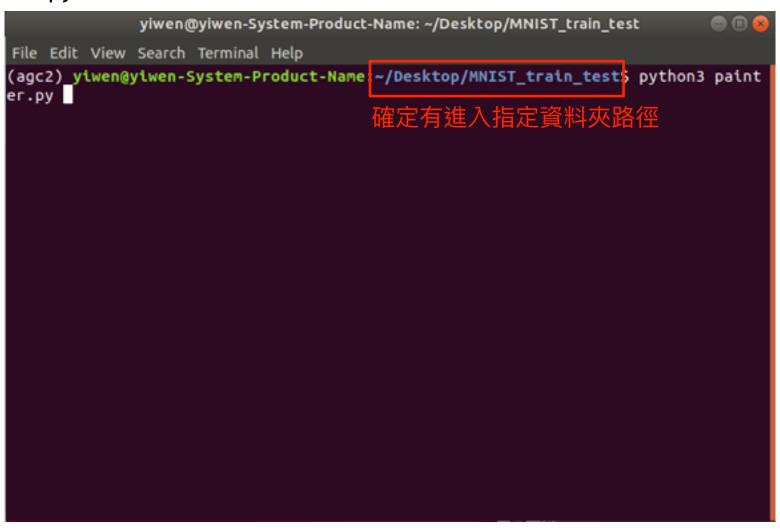
```
yiwen@yiwen-System-Product-Name: ~
File Edit View Search Terminal Help
(base) yiwen@yiwen-System-Product-Name:~$ cd Desktop/MNIST_train_test/
```





#### \$ python3 painter.py

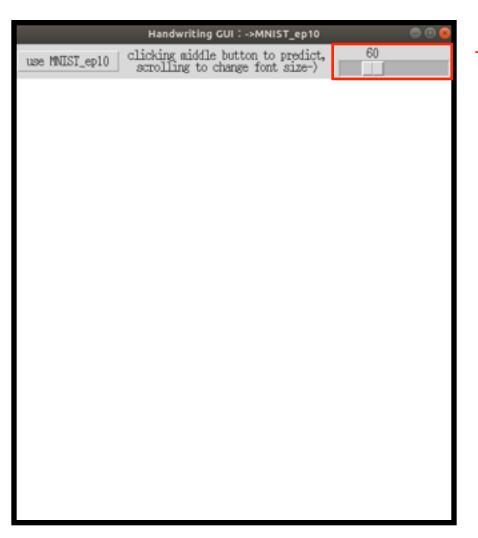
#### 開啟測試檔







### 測試檔開啟成功



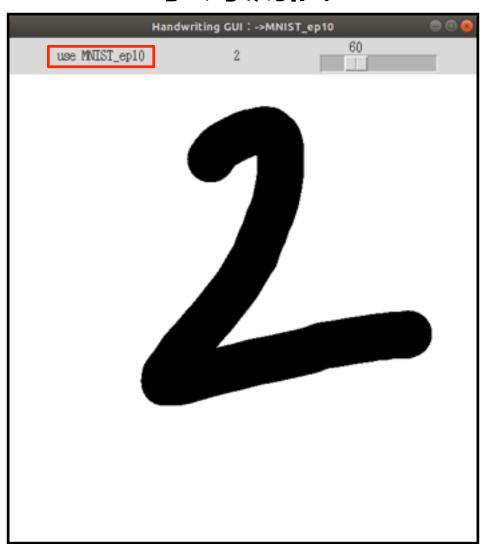
可調整筆的粗細





### 手寫測試

#### 手寫完按紅色框框





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#### 結果

```
yiwen@yiwen-System-Product-Name: ~/Desktop/MNIST_train_test
          File Edit View Search Terminal Help
         cc:981] successful NUMA node read from SysFS had negative value (-1), but there
         must be at least one NUMA node, so returning NUMA node zero
         2021-11-24 19:54:21.409725: I tensorflow/stream_executor/cuda/cuda_gpu_executor.
         cc:981] successful NUMA node read from SysFS had negative value (-1), but there
         must be at least one NUMA node, so returning NUMA node zero
         2021-11-24 19:54:21.410504: I tensorflow/core/common runtime/gpu/gpu device.cc:1
         247] Created TensorFlow device (/job:localhost/replica:0/task:0/device:GPU:0 wit
         h 6878 MB memory) -> physical GPU (device: 0, name: GeForce RTX 2060 SUPER, pci
         bus id: 0000:01:00.0, compute capability: 7.5)
         2021-11-24 19:54:23.866436: I tensorflow/stream executor/platform/default/dso lo
         ader.cc:44] Successfully opened dynamic library libcublas.so.10
         2021-11-24 19:54:24.272135: I tensorflow/stream executor/platform/default/dso lo
         ader.cc:44] Successfully opened dynamic library libcudnn.so.7
         2021-11-24 19:54:25.901612: W tensorflow/stream executor/gpu/asm compiler.cc:81]
          Running ptxas --version returned 256
         2021-11-24 19:54:25.929812: W tensorflow/stream executor/gpu/redzone allocator.c
         c:314] Internal: ptxas exited with non-zero error code 256, output:
         Relying on driver to perform ptx compilation.
         Modify $PATH to customize ptxas location.
         This message will be only logged once.
         Using {'en': 'MNIST ep10', 'zh': 'lenet'}
         Using {'en': 'MNIST_ep10', 'zh': 'lenet'}
         [0. 0. 1. 0. 0. 0. 0. 0. 0. 0.]
對應數字 0.1.2.3.4.5.6.7.8.9.
```