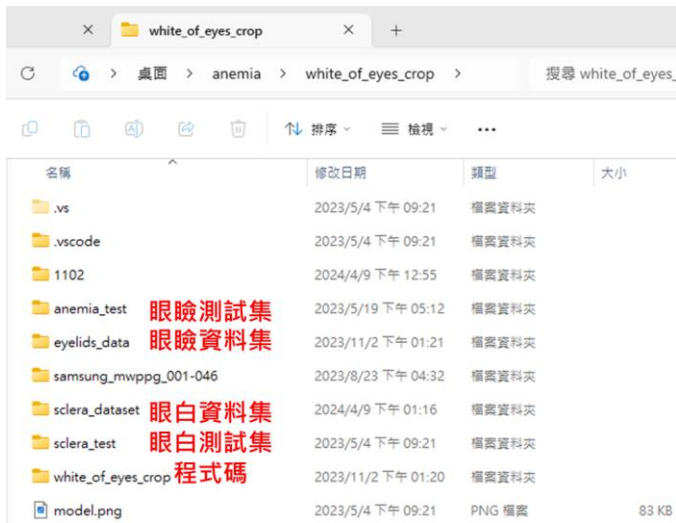


Unet Training SOP

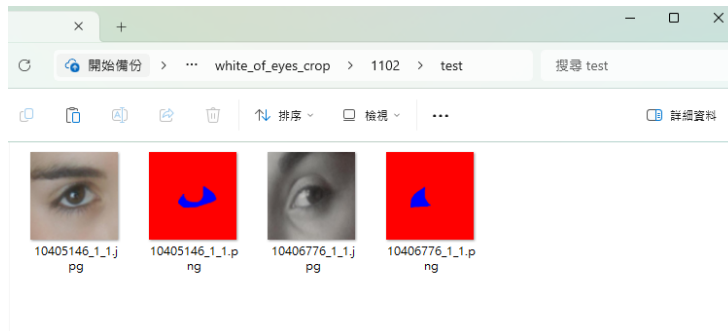
Path: (Lab321 電腦)C:\Users\user\Desktop\anemia\white_of_eyes_crop



1. 新增資料集圖片

1. 修改副檔名(.jpg/.png)

確認原圖片為.jpg，標註圖片為.png，但檔名要一樣!



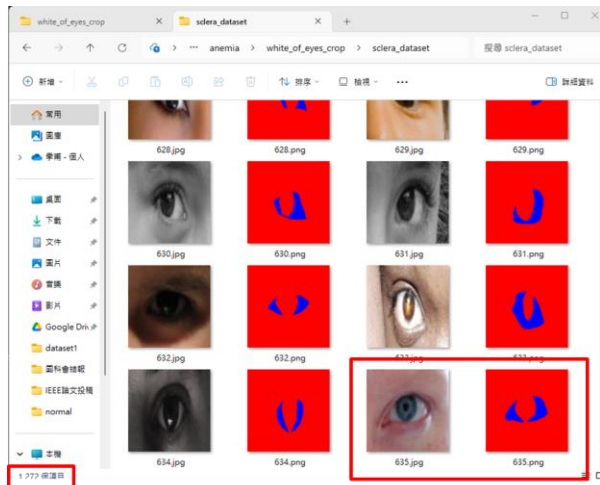
如果不是把原圖和標註圖分成兩個資料夾，在各自資料夾 shift+右鍵->powershell

```
Dir *.jpg | Rename-Item -NewName { [io.path]::ChangeExtension($_.name, "jpeg") }
```

*.jpg, "jpeg"依照實際情形修改

2. 檔名改成編號

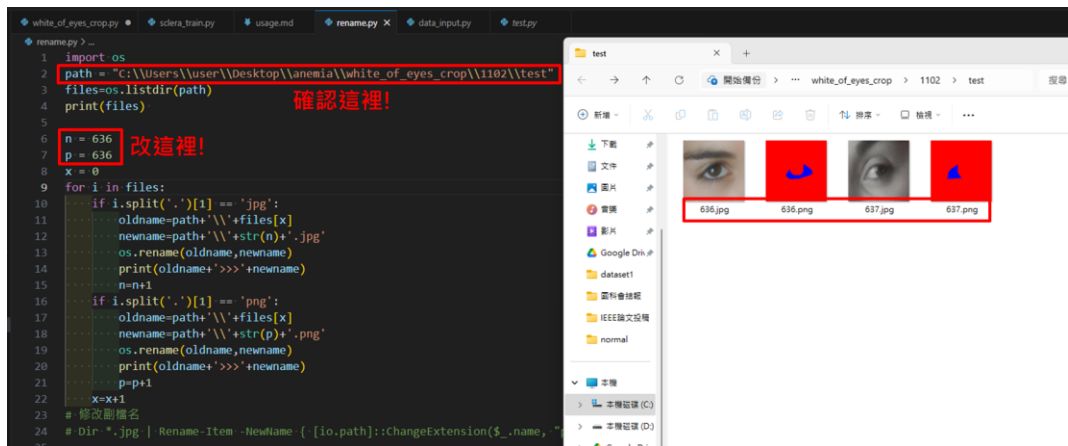
a. 先確認資料及共有多少圖片



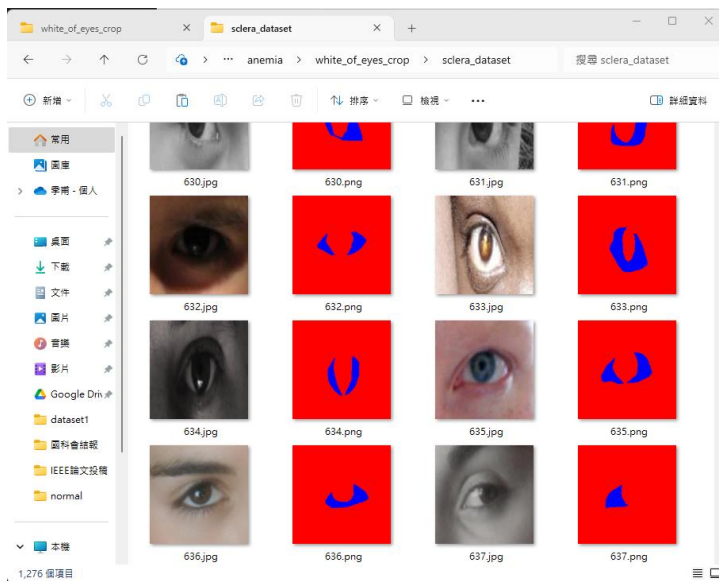
注意是從第零張開始(0.jpg)

b. python rename.py (要改數量)

接續先前資料新增數量



改完即可加到資料集



2. train 流程

0. cd 到 white_of_eyes_crop 資料夾，要進行眼瞼(eyelid)切割打開

white_of_eyes_crop.py，要進行眼白(sclera)切割打開 sclera_train.py，以下用

sclera_train.py 舉例(流程一樣)

1. 改 data_num(有多少原圖片就改多少，檔名是從 0 開始，所以要+1)

```
# 改data_num
data_num = 638
dataset = Data_input(data_num, "../sclera_dataset", "../sclera_test")
# "../sclera_dataset", "../t" training dataset and test dataset
```

2. 確認 dataset path

3. save model 改 model name(model_date)

```
176 show_predictions()
177 model.save('./sclera_model/model_0409.h5')
```

4. python ./white_of_eyes_crop.py

```
Epoch 1/100
Sample Prediction after epoch 1
14/14 [=====] - 8s 488ms/step - loss: 0.4372 - accuracy: 0.8199 - val_loss: 0.3054 - val_accuracy: 0.8984
Epoch 2/100
Sample Prediction after epoch 2
14/14 [=====] - 6s 460ms/step - loss: 0.1568 - accuracy: 0.9514 - val_loss: 0.2823 - val_accuracy: 0.9030
Epoch 3/100
Sample Prediction after epoch 3
14/14 [=====] - 6s 435ms/step - loss: 0.0998 - accuracy: 0.9632 - val_loss: 0.4367 - val_accuracy: 0.8451
```

3. Train 結果

