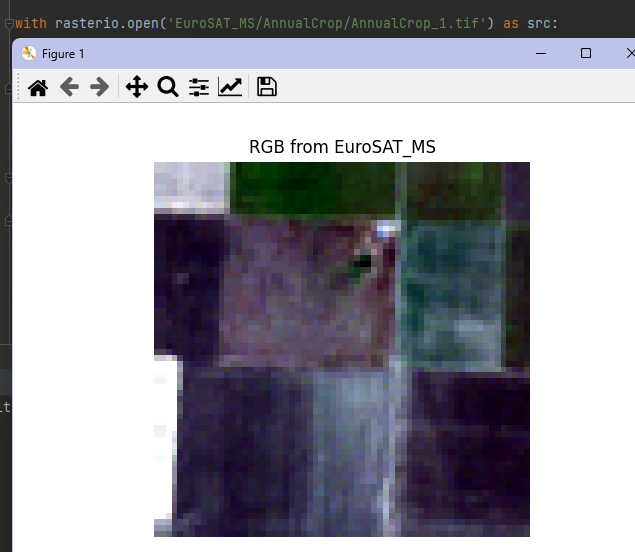
Dataset:

[EuroSAT：一种用于土地利用和土地覆盖分类的新型数据集和深度学习基准 --- EuroSAT: A Novel Dataset and Deep Learning Benchmark for Land Use and Land Cover Classification](https://zenodo.org/records/7711810#.ZAm3k-zMKEA)

EuroSAT\_MS.zip contains the multi-spectral version of the EuroSAT dataset, which includes all 13 Sentinel-2 bands in the original value range.

Tif file (shown in RGB)



Train : Test=0.8 : 0.2

Network:

**resnet18**, modified to support input of 13\*32\*32

resnet50, for distillation

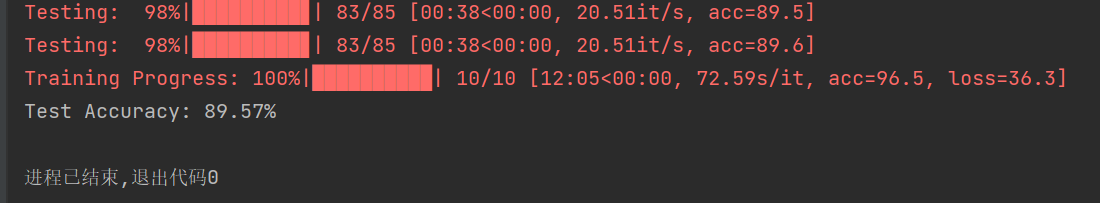
Output

net.py

resnet18\_10classes\_10epoch\_standard.pth

Train with resnet18, with **no** data argumentation and distillation

Resnet18 epoch 10, test accuracy: **89.57%**



teacher.py, net\_pro.py

resnet50\_teacher\_10classes\_20epoch\_epoch20.pth

resnet18\_10classes\_10epoch\_student\_epoch10.pth

Train with teacher resnet50(teacher Test Accuracy: 93.09%) and resnet18, with data **argumentation** and **distillation**

Resnet18 epoch 10, test accuracy: **96.65%**

