

Report

Model: fcos_R_50_FPN_1x_v01

Dataset: test

Introduction

Dataset description

This is the test dataset. This is the test dataset.

Extra information

This is extra optional introduction. This is extra optional introduction.

Train plots

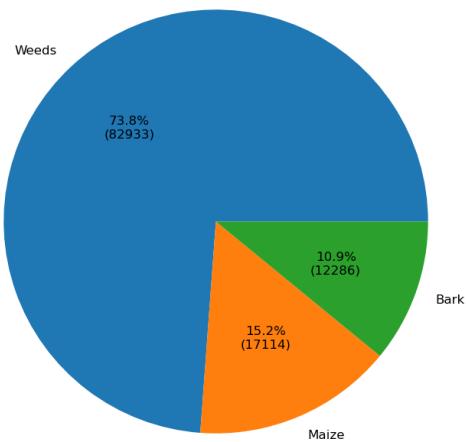


Figure 1. Class distribution for validation dataset

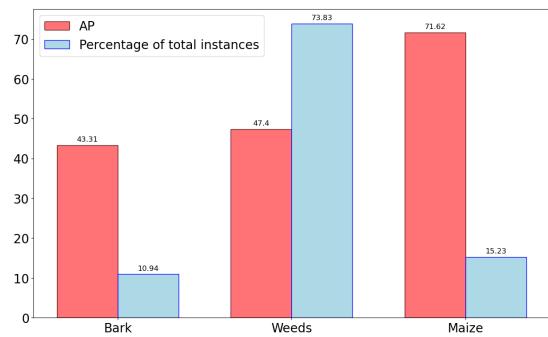


Figure 2. AP and percentage distribution per class

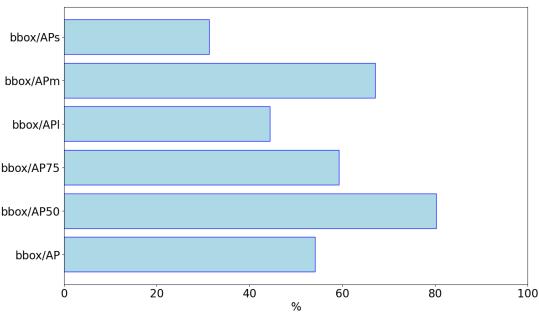


Figure 3. General AP metrics

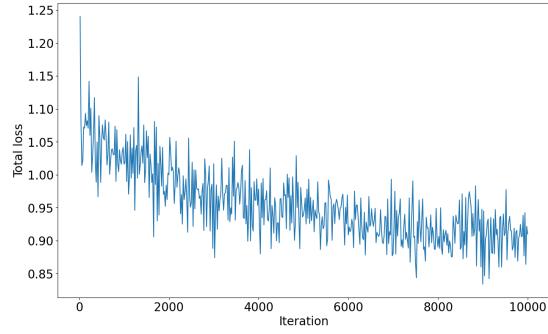


Figure 4. Training total loss per iteration

Dataset plots [test]

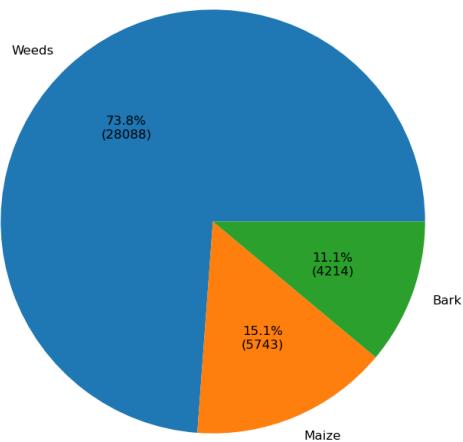


Figure 5. Class distribution for test dataset

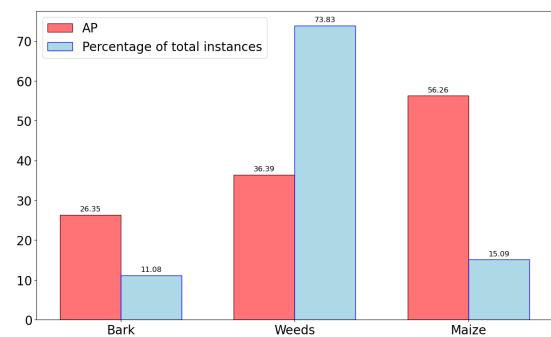


Figure 6. AP and percentage distribution per class

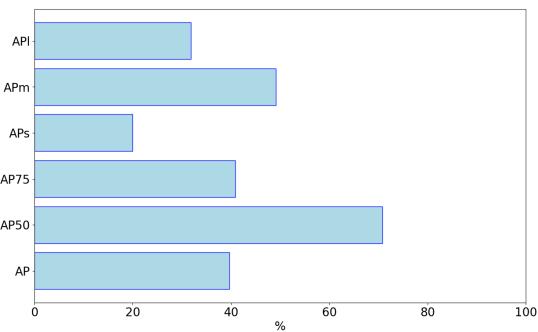


Figure 7. General AP metrics

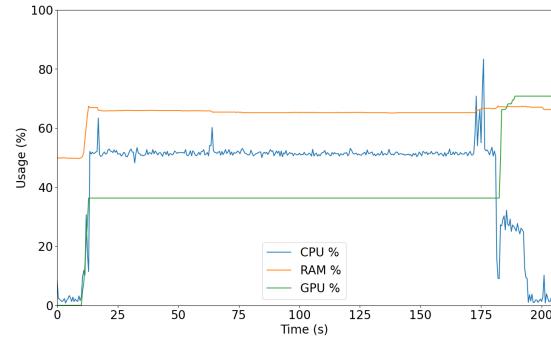


Figure 8. Consumption percentages

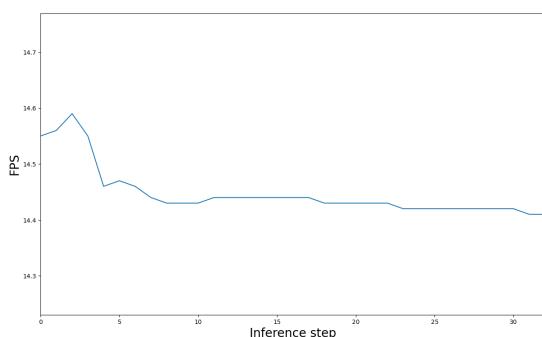


Figure 9. Inference speed

More dataset [test] metrics

Average Precision (AP) @[IoU=0.50:0.95 | area= all | maxDets=100] = 0.397

Average Precision (AP) @[IoU=0.50 | area= all | maxDets=100] = 0.708

Average Precision (AP) @[IoU=0.75 | area= all | maxDets=100] = 0.409

Average Precision (AP) @[IoU=0.50:0.95 | area= small | maxDets=100] = 0.200

Average Precision (AP) @[IoU=0.50:0.95 | area=medium | maxDets=100] = 0.491

Average Precision (AP) @[IoU=0.50:0.95 | area= large | maxDets=100] = 0.318

Average Recall (AR) @[IoU=0.50:0.95 | area= all | maxDets= 1] = 0.095

Average Recall (AR) @[IoU=0.50:0.95 | area= all | maxDets= 10] = 0.393

Average Recall (AR) @[IoU=0.50:0.95 | area= all | maxDets=100] = 0.473

Average Recall (AR) @[IoU=0.50:0.95 | area= small | maxDets=100] = 0.273

Average Recall (AR) @[IoU=0.50:0.95 | area=medium | maxDets=100] = 0.599

Average Recall (AR) @[IoU=0.50:0.95 | area= large | maxDets=100] = 0.382

Evaluating hardware specs

CPU

Model: AMD Ryzen 5 5600H with Radeon Graphics

Total nº of logical cores: 12

Speed: 3.3 GHz

RAM

Total memory: 15.41 GB

GPU

Models: NVIDIA GeForce RTX 3050 Laptop GPU

Images

Predictions for every class

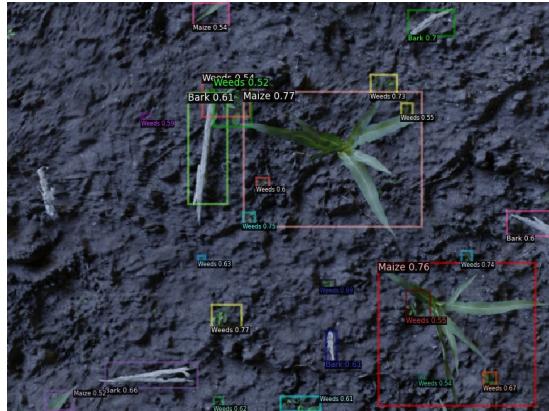


Figure 10. Predictions for every class [image9.jpg]

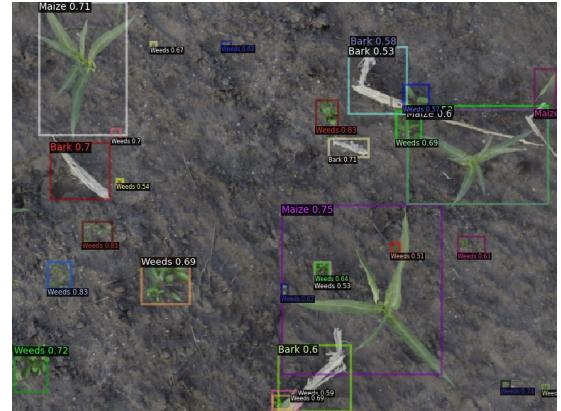


Figure 11. Predictions for every class [image19.jpg]

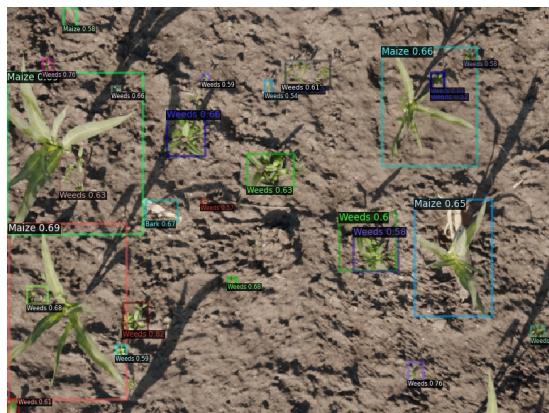


Figure 12. Predictions for every class [image11.jpg]



Figure 13. Predictions for every class [image3.jpg]

Bark



Figure 14. Predictions for Bark [image12.jpg]



Figure 15. Predictions for Bark [image6.jpg]



Figure 16. Predictions for Bark [image18.jpg]

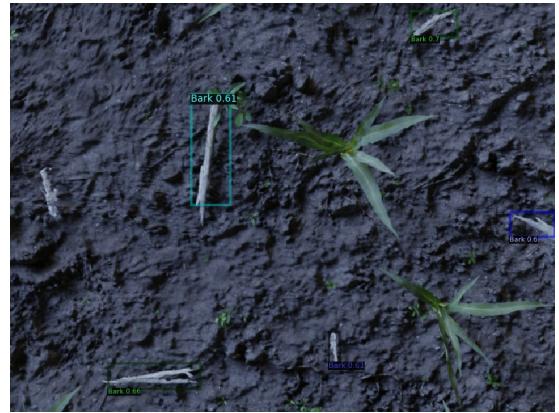


Figure 17. Predictions for Bark [image9.jpg]

Maize



Figure 18. Predictions for Maize [image19.jpg]



Figure 19. Predictions for Maize [image10.jpg]

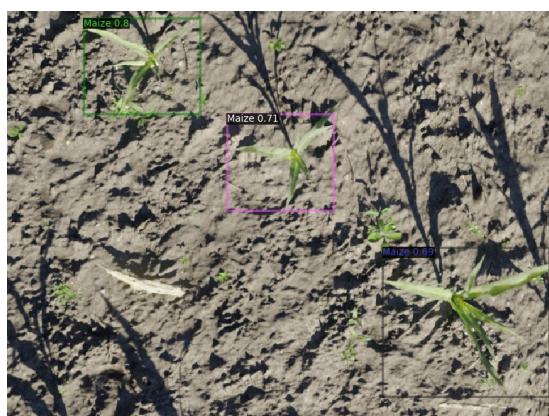


Figure 20. Predictions for Maize [image7.jpg]



Figure 21. Predictions for Maize [image8.jpg]

Weeds

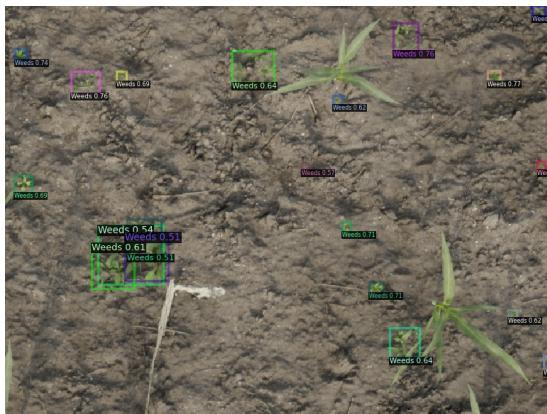


Figure 22. Predictions for Weeds [image0.jpg]



Figure 23. Predictions for Weeds [image12.jpg]

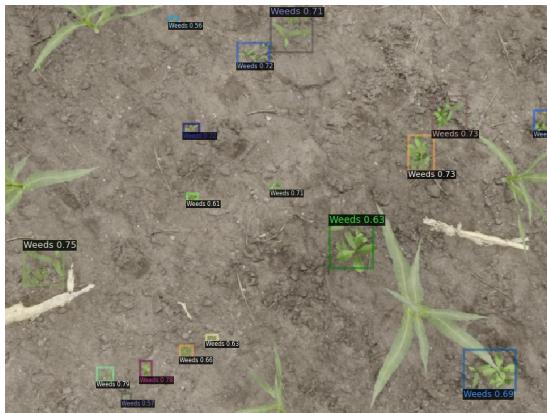


Figure 24. Predictions for Weeds [image5.jpg]

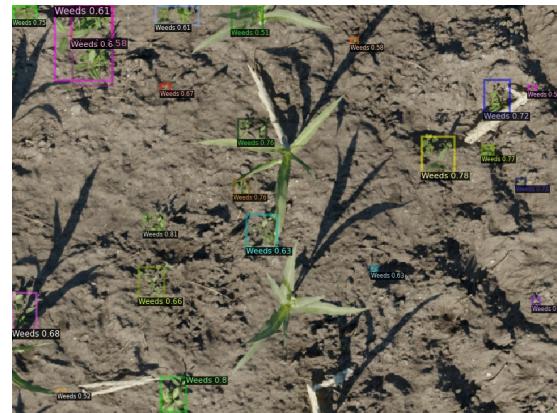


Figure 25. Predictions for Weeds [image10.jpg]