

Can Machine Learning be used to quantify severity of foliar infection of maize caused by tar spot?

Methods:

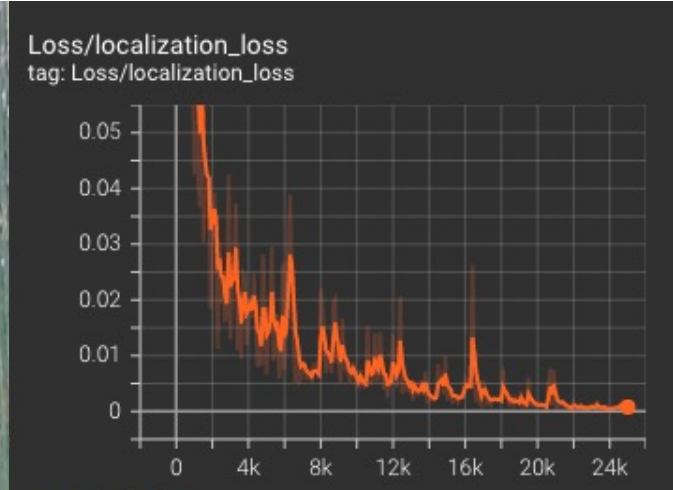
- TensorFlow v.2 + TensorBoard
- SSD_ResNet50 Architecture
- Dataset of >4,000 images & annotations

Goal:

- Input – single image or continuous capture
- Output – % leaf surface infected and qualifier (mild, moderate, severe)



Example image in dataset



TensorBoard measuring localization loss over course of model training

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