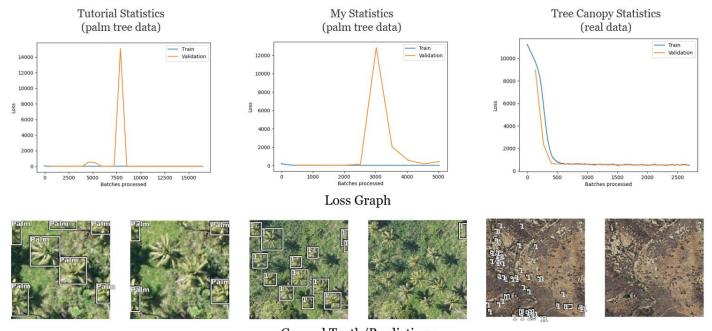
TCP ArcGIS Process

Self-trained model via Image Classification / Detect Objects Using Deep Learning (SingleShotDetector)

Follow tutorial: https://learn.arcgis.com/en/projects/use-deep-learning-to-assess-palm-tree-health/



Ground Truth/Predictions

The real data seems not applicable in this model.

Possible solutions (cr. winter cohort presentation):

- Change the SSD model to new object detection model, called YOLOv3.
- Adjust the parameters: SSD w/ PASCAL VOC + 0.5 overlap (0.6 now) + batch size 64 (1 now).

Pre-trained model Land Cover Classification (Landsat 8) / Classify Pixels Using Deep Learning

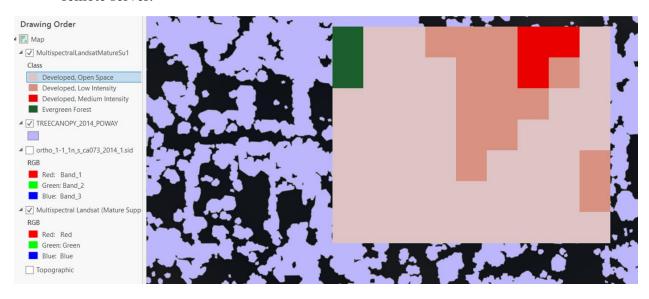
Follow tutorial: https://www.esri.com/videos/watch?videoid=SylmnD8fHU4

1. Training data: Multispectral Landsat (Mature Support), provided by Esri.

Result: Only upper left corner is detected as "evergreen forest," shown as green block. The purple layer below is the real tree canopy distribution, only overlap around 3.7%.

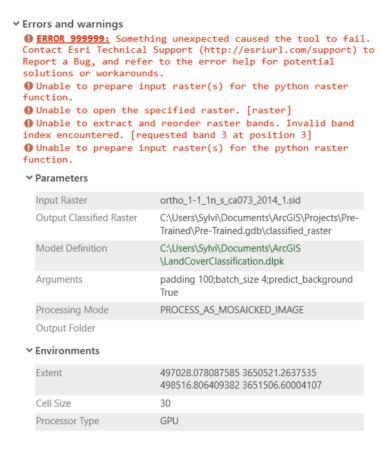
Possible reason: The standard display setting for Multispectral Landsat is the 2021 data, which might not be compatible with 2014 data. The function of adjusting the timeline is

included in this dataset. However, after selecting the year 2014 as the end date to fit the real 2014 satellite data, the map can't zoom in. It requires running the model for the whole map. It is impossible for a local computer but might be workable on a larger remote server.



2. Training data: NAIP County Mosaic, Poway 2014, provided by USDA.

#1 Training fails



#2 Conversion to Landsat 8 mosaic dataset fails

→ Error: 8004205f: No new mosaic dataset item was added. → No training results.

Possible reasons:

• The Raster Type Properties have been edited.

Important Q: What is raster type of the NAIP dataset is?

• Background processing is enabled.

Can't find the updated tutorial to unable it.