

# Evaluate PQ README

## General Panoptic Quality evaluation script

Find the panoptic quality match PQ between predicted and GT mask for vessels. The script can run as-is with the example folders supplied.

The script has a few modes class agnostic that will evaluate the PQ value ignoring classification errors.

## Main Input Parameters

**GTDDir:** contains the path to the LabPics evaluation set that is used as ground truth

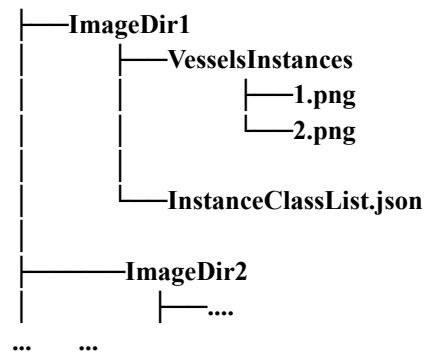
**PredDir:** Contain the link to the predicted instances of the vessels (See Subfolder **ExampleData/Predict/** for example in this folder).

### Prediction folder strucutre:

See Subfolder **ExampleData/Predict/** for example prediction folder.

The structure of the predicted dir should be as follows:

#### PredDir



**ImageDir:** Should have the same name as the image folder in LabPics evaluation set for every image folder in the GT dir there should be a similar folder in the predicted folder.

**ImageDir1\VesselsInstances:** Mask of Vessels instances.

**ImageDir1\Vessels\1.png:** Binary mask for vessel instance 1.

**ImageDir1\Vessels\1.png:** Binary mask for vessel instance 2.

**ImageDir1\InstanceClassList.json:** Contain classes for material instances in vessel 1. For example: {"1": ["Pippete", "Transparent"], "2": [ "Transparent", "Tube"] } means instance 1 is transparent tube and instance 2 is transparent pippete.

## Additional parameters

**ClassToUse:** classes that will be used for the evaluation.

**LimitToVessel:** only this vessel types if "" check all.

**IgnoreVesselsThatAreParts:** ignore connectors condensers and stuff.

**MinPixelsInInstace:** Ignore smaller instances (In pixels).

**MatchThresh:** IOU threshold for matching instances.

**ClassAgnostic:** Ignore misclassification errors only use IOU.