HW 4B README: Faster RCNN

**model\_4B\_v2\_epoch36.pth** - This is our final model that has been trained for 51 epochs. It was initially trained for 15 epochs and then trained for 36 more, hence the naming.

**models/checkpoint680.pth -** The RPN model should be in a folder called ‘models’ in the same directory.

**train.ipynb** - This notebook will train a model.

**q1\_create\_ground\_truth.ipynb** - This notebook will generate the images for question 1 (ground truth with proposals).

**q2\_loss\_curves.ipynb** - This notebook will generate the loss curves for the training and validation sets.

**q3\_top20\_from\_boxhead.ipynb** - This notebook will plot the top 20 boxes from the model on the original image. It takes in the location of a trained model for testing.

**q4\_map.ipynb** - This notebook will calculate the AP and mAPs of a model. It takes in the location of a trained model for testing.

**q5\_postprocessing.ipynb** - This notebook will plot the post processed boxes on the image. It takes in the location of a trained model for testing.

**utils.py, BoxHead.py, and dataset.py** must be in the same directory.