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' File : README.txt +

' Date : Apr. 5, 2021 +

' Created by: YY +

' Purpose : To run Yolov4/TensorFlow +

' Note : HL 2021-4-5: updated the part on +

' yolo4.weights download information. +

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Refernece URL

https://github.com/theAIGuysCode/tensorflow-yolov4-tflite

Prerequisite:

1. Anaconda

2. Create a Anaconda virtual environment

2.1 Download all files from the reference URL

2.2 Open a terminal in the 2.1 directory

2.3 Perform the below command

(CPU) conda env create -f conda-cpu.yml

(GPU) conda env create -f conda-gpu.yml

To run the image processing program

1. Open a terminal in tensorflow-yolov4-tflite-master folder

2. Activate the Anaconda environment

conda activate yolov4-cpu

conda activate yolov4-gpu

Note (HL, 2021-4-5) before running to 3 below, you will need to

Download the yolo4.weights from this link

https://drive.google.com/u/1/uc?id=1cewMfusmPjYWbrnuJRuKhPMwRe\_b9PaT&export=download

(based on the github information of yolo4)

and place this file into the ./data folder of the yolo4 distribution code

3. Convert darknet weights to tensorflow

python save\_model.py --weights ./data/yolov4.weights --output ./checkpoints/yolov4-416 --input\_size 416 --model yolov4

4. Run Yolov4 on image

python detect.py --weights ./checkpoints/yolov4-416 --size 416 --model yolov4 --images ./data/images/kite.jpg

5. Run Yolov4 on video

python detect\_video.py --weights ./checkpoints/yolov4-416 --size 416 --model yolov4 --video ./data/video/video.mp4 --output ./detections/results.avi

NOTE: This example uses Yolov4/TensorFlow, Not Yolov4/Darknet