Quick setup procedure to run the dnn module example scenes (Use downloader script) :

- Run the “download_dnn_models.py” in “Assets/StreamingAssets/dnn/” folder.
  - Download the models for all dnn examples:

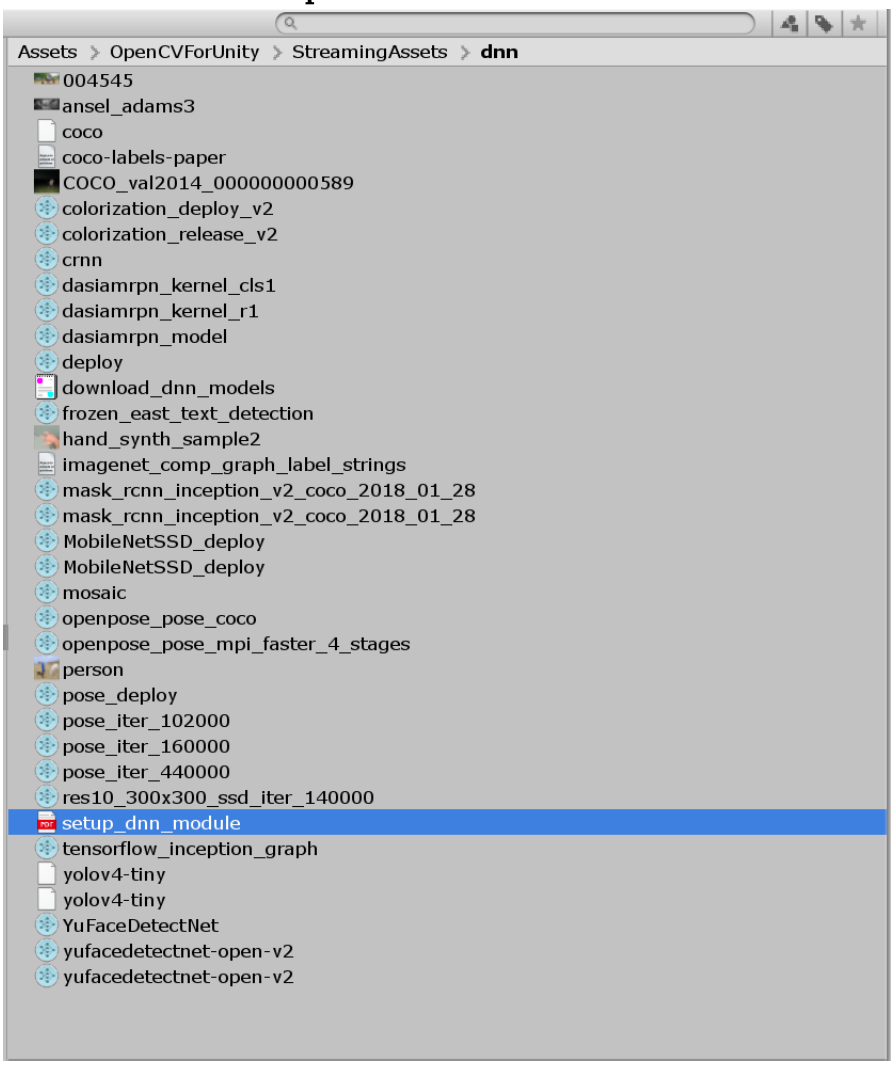
    ```
    python download_dnn_models.py
    ```

  - Or download the models for each individual dnn example:

    ```
    python download_dnn_models.py DaSiamRPNTrackerExample
    ```

- Additional Setup for **TextOCRExample** :
  - Generate “crnn.onnx” according to the instructions in “TextOCRExample\Readme_how_to_export_onnx_model.txt”.
  - Copy “crnn.onnx” to “Assets/StreamingAssets/dnn/” folder.

Screenshot after the setup



Quick setup procedure to run the dnn module example scenes (Manually) :

- Setup for **ColorizationExample** :
  - Download "https://github.com/richzhang/colorization/raw/caffe/demo/imgs/ansel_adams3.jpg".
  - Copy "ansel_adams3.jpg" to "Assets/StreamingAssets/dnn/" folder.
  - Download "http://eecs.berkeley.edu/~rich.zhang/projects/2016_colorization/files/demo_v2/colorization_release_v2.caffemodel".
  - Copy "colorization_release_v2.caffemodel" to "Assets/StreamingAssets/dnn/" folder.
  - Download "https://github.com/richzhang/colorization/raw/caffe/models/colorization_deploy_v2.prototxt".
  - Copy "colorization_deploy_v2.prototxt" to "Assets/StreamingAssets/dnn/" folder.

- Setup for **DaSiamRPNTrackerExample** :
  - Download "https://www.dropbox.com/s/rr1lk9355vzolqv/dasiamrpn_model.onnx?dl=1". Copy "dasiamrpn_model.onnx" to "Assets/StreamingAssets/dnn/" folder.
  - Download "https://www.dropbox.com/s/999cqx5zrfi7w4p/dasiamrpn_kernel_r1.onnx?dl=1". Copy "dasiamrpn_kernel_r1.onnx" to "Assets/StreamingAssets/dnn/" folder.
  - Download "https://www.dropbox.com/s/qvmtszx5h339a0w/dasiamrpn_kernel_cls1.onnx?dl=1".
  - Copy "dasiamrpn_kernel_cls1.onnx" to "Assets/StreamingAssets/dnn/" folder.

- Setup for **FastNeuralStyleTransferExample** :
  - Download "https://cs.stanford.edu/people/jcjohns/fast-neural-style/models/instance_norm/mosaic.t7".
  - Copy "mosaic.t7" to "Assets/StreamingAssets/dnn/" folder.

- Setup for **LibFaceDetectionV2Example** :
  - Download "https://github.com/ShiqiYu/libfacedetection/raw/master/models/caffe/yufacedetectnet-open-v2.caffemodel".
  - Copy "yufacedetectnet-open-v2.caffemodel" to "Assets/StreamingAssets/dnn/" folder.
  - Download "https://github.com/ShiqiYu/libfacedetection/raw/master/models/caffe/yufacedetectnet-open-v2.prototxt".
  - Copy "yufacedetectnet-open-v2.prototxt" to "Assets/StreamingAssets/dnn/" folder.

- Setup for **LibFaceDetectionV3Example** :
  - Download

"https://github.com/ShiqiYu/libfacedetection.train/raw/master/tasks/task1/onnx/YuFaceDetectNet.onnx".
    - Copy "YuFaceDetectNet.onnx" to "Assets/StreamingAssets/dnn/" folder.

- Setup for **MaskRCNNExample** :
    - Download "https://github.com/chuanqi305/MobileNet-SSD/raw/master/images/004545.jpg" .
    - Copy "004545.jpg" to "Assets/StreamingAssets/dnn/" folder.
    - Download and unzip "http://download.tensorflow.org/models/object_detection/mask_rcnn_inception_v2_coco_2018_01_28.tar.gz".
    - Rename "mask_rcnn_inception_v2_coco_2018_01_28/frozen_inference_graph.pb" to "mask_rcnn_inception_v2_coco_2018_01_28.pb".
    - Copy "mask_rcnn_inception_v2_coco_2018_01_28.pb" to "Assets/StreamingAssets/dnn/" folder.
    - Delete "mask_rcnn_inception_v2_coco_2018_01_28.tar.gz" and "mask_rcnn_inception_v2_coco_2018_01_28" folder.
    - Download "https://github.com/opencv/opencv_extra/raw/master/testdata/dnn/mask_rcnn_inception_v2_coco_2018_01_28.pbtxt".
    - Copy "mask_rcnn_inception_v2_coco_2018_01_28.pbtxt" to "Assets/StreamingAssets/dnn/" folder.
    - Download "https://github.com/amikelive/coco-labels/raw/master/coco-labels-paper.txt".
    - Copy "mscoco_labels.names" to "Assets/StreamingAssets/dnn/" folder.

- Setup for **MobileNetSSDExample** :
    - Download "https://github.com/chuanqi305/MobileNet-SSD/raw/master/images/004545.jpg" .
    - Copy "004545.jpg" to "Assets/StreamingAssets/dnn/" folder.
    - Download "https://drive.google.com/uc?export=dowload&id=0B3gersZ2cHIxRm5PMWRoTkdHdHc".
    - Copy "MobileNetSSD_deploy.caffemodel" to "Assets/StreamingAssets/dnn/" folder.
    - Download "https://github.com/chuanqi305/MobileNet-SSD/raw/f5d072ccc7e3dcddaa830e9805da4bf1000b2836/MobileNetSSD_deploy.prototxt".
    - Copy "MobileNetSSD_deploy.prototxt" to "Assets/StreamingAssets/dnn/" folder.

- Setup for **OpenPoseExample** :
    - MPI
        - Download "https://github.com/CMU-Perceptual-Computing-Lab/openpose/raw/master/examples/media/COCO_val2014_000000000589.jpg".
        - Copy "COCO_val2014_000000000589.jpg" to "Assets/StreamingAssets/dnn/" folder.

        - Download "http://posefs1.perception.cs.cmu.edu/OpenPose/models/pose/mpi/pose_iter_160000.caffemodel".
        - Copy "pose_iter_160000.caffemodel" to "Assets/StreamingAssets/dnn/" folder.
        - Download "https://github.com/opencv/opencv_extra/raw/master/testdata/dnn/openpose_pose_mpi_faster_4_stages.prototxt".
        - Copy "openpose_pose_mpi_faster_4_stages.prototxt" to "Assets/StreamingAssets/dnn/" folder.
    - COCO
        - Download "http://posefs1.perception.cs.cmu.edu/OpenPose/models/pose/coco/pose_iter_440000.caffemodel".
        - Copy "pose_iter_440000.caffemodel" to "Assets/StreamingAssets/dnn/" folder.
        - Download "https://github.com/opencv/opencv_extra/raw/master/testdata/dnn/openpose_pose_coco.prototxt".
        - Copy "openpose_pose_coco.prototxt" to "Assets/StreamingAssets/dnn/" folder.
    - HAND
        - Download "https://github.com/ortegatron/hand_detector_train/raw/master/images/hand_synth_sample2.jpg".
        - Copy "hand_synth_sample2.jpg" to "Assets/StreamingAssets/dnn/" folder.
        - Download "http://posefs1.perception.cs.cmu.edu/OpenPose/models/hand/pose_iter_102000.caffemodel".
        - Copy "pose_iter_102000.caffemodel" to "Assets/StreamingAssets/dnn/" folder.
        - Download "https://github.com/CMU-Perceptual-Computing-Lab/openpose/raw/master/models/hand/pose_deploy.prototxt".
        - Copy "pose_deploy.prototxt" to "Assets/StreamingAssets/dnn/" folder.

- Setup for **ResnetSSDFaceDetectionExample** :
    - Download "https://github.com/opencv/opencv_3rdparty/raw/dnn_samples_face_detector_20170830/res10_300x300_ssd_iter_140000.caffemodel".
    - Copy "res10_300x300_ssd_iter_140000.caffemodel" to "Assets/StreamingAssets/dnn/" folder.
    - Download "https://github.com/opencv/opencv/raw/master/samples/dnn/face_detector/deploy.prototxt".
    - Copy "deploy.prototxt" to "Assets/StreamingAssets/dnn/" folder.

- Setup for **TensorflowInceptionExample** :
    - Download and unzip

"https://storage.googleapis.com/download.tensorflow.org/models/inception5h.zip"
    - Copy "inception5h/tensorflow_inception_graph.pb" and "inception5h/imagenet_comp_graph_label_strings.txt" to "Assets/StreamingAssets/dnn/" folder.
    - Delete "inception5h.zip" and "inception5h" folder.

- Setup for **TextOCRExample** :
    - Download and unzip "https://www.dropbox.com/s/r2ingd0l3zt8hxs/frozen_east_text_detection.tar.gz?dl=1".
    - Copy "frozen_east_text_detection/frozen_east_text_detection.pb" to "Assets/StreamingAssets/dnn/" folder.
    - Delete "frozen_east_text_detection.tar.gz" and "frozen_east_text_detection" folder.
    - Generate "crnn.onnx" according to the instructions in "TextOCRExample\Readme_how_to_export_onnx_model.txt".
    - Copy "crnn.onnx" to "Assets/StreamingAssets/dnn/" folder.

- Setup for **YoloObjectDetectionExample** :
    - Download "https://github.com/pjreddie/darknet/raw/master/data/person.jpg".
    - Copy "person.jpg" to "Assets/StreamingAssets/dnn/" folder.
    - Download "https://github.com/AlexeyAB/darknet/raw/master/cfg/yolov4-tiny.cfg".
    - Copy "yolov4-tiny.cfg" to "Assets/StreamingAssets/dnn/" folder.
    - Download "https://github.com/AlexeyAB/darknet/releases/download/darknet_yolo_v4_pre/yolov4-tiny.weights".
    - Copy "yolov4-tiny.weights" to "Assets/StreamingAssets/dnn/" folder.
    - Download "https://github.com/pjreddie/darknet/raw/master/data/coco.names".
    - Copy "coco.names" to "Assets/StreamingAssets/dnn/" folder.