**Choosing Models**

I chose the following models for the three tasks:

* Human Pose Estimation: [**human-pose-estimation-0001**](https://docs.openvinotoolkit.org/latest/_models_intel_human_pose_estimation_0001_description_human_pose_estimation_0001.html)
* Text Detection: [**text-detection-0004**](http://docs.openvinotoolkit.org/latest/_models_intel_text_detection_0004_description_text_detection_0004.html)
* Determining Car Type & Color: [**vehicle-attributes-recognition-barrier-0039**](https://docs.openvinotoolkit.org/latest/_models_intel_vehicle_attributes_recognition_barrier_0039_description_vehicle_attributes_recognition_barrier_0039.html)

**Downloading Models**

To navigate to the directory containing the Model Downloader:

cd /opt/intel/openvino/deployment\_tools/open\_model\_zoo/tools/downloader

Within there, you'll notice a downloader.py file, and can use the -h argument with it to see available arguments. For this exercise, --name for model name, and --precisions, used when only certain precisions are desired, are the important arguments. Note that running downloader.py without these will download **all** available pre-trained models, which will be multiple gigabytes. You can do this on your local machine, if desired, but the workspace will not allow you to store that much information.

**Note**: In the classroom workspace, you will not be able to write to the /opt/intel directory, so you should also use the -o argument to specify your output directory as /home/workspace (which will download into a created intel folder therein).

**Downloading Human Pose Model**

sudo ./downloader.py --name human-pose-estimation-0001 -o /home/workspace

**Downloading Text Detection Model**

sudo ./downloader.py --name text-detection-0004 --precisions FP16 -o /home/workspace

**Downloading Car Metadata Model**

sudo ./downloader.py --name vehicle-attributes-recognition-barrier-0039 --precisions INT8 -o /home/workspace

**Verifying Downloads**

The downloader itself will tell you the directories these get saved into, but to verify yourself, first start in the /home/workspace directory (or the same directory as the Model Downloader if on your local machine without the -o argument). From there, you can cd intel, and then you should see three directories - one for each downloaded model. Within those directories, there should be separate subdirectories for the precisions that were downloaded, and then .xml and .bin files within those subdirectories, that make up the model.