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Abstract

This report is the set up guide for using carla. I had trouble setting up CARLA on my PC so I hope this guide can be of help to anyone in the future.

Using CARLA

Installation and Building CARLA

Note: this will be for window users.

CARLA gives two options to build CARLA on a Windows setup. The first is directly downloading CARLA files from its repository. And, second is using Docker. For the Docker installation, it seems like one would need a CUDA capable GPU. And, even after that, I faced a lot of issues using DOCKER. Thus, I would instead suggest the following steps:

1. Installing Anaconda Navigator from:
2. Installing visual studio c++ runtime.
3. Installing DirectX 11.
4. Creating a conda environment with:
 1. Python version 3.7
 2. Numpy latest version
 3. Add the rest of the Python packages you might find relevant. I would suggest:
 1. Open CV
 2. Gym
 3. Tensorflow
 4. Pillow
 5. Matplotlib
 6. Pytorch
 7. Stable-Baselines3
5. Download CARLA packages from its repository. I would suggest installing CARLA version ≥ 12 . Note: Use the documentation of whatever version of CARLA you are using.
6. Open the terminal of the conda environment. Go to the directory `../PythonAPI/CARLA/Dist`. There you will find a `<filename>.whl` file. Run the code:

```
pip install <filename>.whl
```

Now you can directly import CARLA in any Python script. Otherwise, you would've had to use the following method:

```
sys.path.append(glob.glob('C:/CARLA/WindowsNoEditor/PythonAPI/carla/dist/carla-*%d.%d-%s.egg' % (
    sys.version_info.major,
    sys.version_info.minor,
    'win-amd64' if os.name == 'nt' else 'linux-x86_64')))[0])
import carla
```

7. Now before running any script. You must start a local instance of CARLA running on your computer, or a remote server that you can connect to. For that:
 1. Activate the conda environment in the Terminal.
 2. Navigate to a folder named WindowsNoEditor. (In the downloaded files).
 3. Run the following `.\CarlaUE4 -dx11`
8. Now you can run a Python script.