

User Documentation

Installation

1. Download the appropriate build for CARLA 0.9.11 (Windows zip or Ubuntu tar.gz) from <https://github.com/carla-simulator/carla/releases>.
2. After downloading, navigate to the PythonAPI subdirectory and clone the following repo: https://cseegit.essex.ac.uk/2020_ce903/ce903_team06.git
3. Prepare the Python dependencies by creating a conda virtual env for Python 3.7
4. Install the appropriate libraries by running: `pip install -r requirements.txt`

How to run

To run Automata:

1. Run the CARLA server by executing `CarlaUE4.sh` or `CarlaEU4.exe` (depending on the OS build), located at the topmost level of the `WindowsNoEditor` folder.
2. On a separate terminal, navigate to `WindowsNoEditor/PythonAPI/ce903_team06/automata`
3. Run the `Main.py` script with: `python Main.py`
 - `-model (-m)`: To select model number (1-6)
 - `-spawn (-s)`: To select spawn point (0-255)

To collect more data for training:

1. Run the CARLA server by executing `CarlaUE4.sh` or `CarlaEU4.exe` (depending on the OS build), located at the topmost level of the `WindowsNoEditor` folder.
2. On a separate terminal, navigate to `WindowsNoEditor/PythonAPI/ce903_team06/automata`
3. Run the `Autopilot.py` script with: `python Autopilot.py`