

[Last update: January 11, 2022]

Pre-requisites:

- Ubuntu 20.04
- Python 3.8
- CARLA 0.9.11: <https://github.com/carla-simulator/carla/releases/tag/0.9.11>
 - [Ubuntu] [CARLA_0.9.11.tar.gz](#)
- ROS: <http://wiki.ros.org/noetic/Installation/Ubuntu>

Instructions:

1. Install individual repositories (each repo has its own instruction)

** NOTE: install carla-setup at last

** NOTE: instruction on setting CARLA included in carla-setup

- [honda-research-institute/decision-governor \(github.com\)](#) branch: master
- [honda-research-institute/nnmpc \(github.com\)](#) branch: 0.9.11
- [honda-research-institute/external_lib_AI4AD \(github.com\)](#) branch: 0.9.11
- [honda-research-institute/Interactive_Decision_Making_v2.0: Game Tree method turned modular for the T intersection \(github.com\)](#) branch: master
- [honda-research-institute/mpqp_speed_planner \(github.com\)](#) branch: devel
- [honda-research-institute/gatekeeper \(github.com\)](#) branch: master
- [honda-research-institute/spiral_planner \(github.com\)](#) branch: master
- [honda-research-institute/escape_safety \(github.com\)](#) branch: master
- <https://github.com/honda-research-institute/traffic-rule-stop-predictor> branch: master
- https://github.com/honda-research-institute/scenario_runner branch: 0.9.11 (or 0.9.11-ss-4way)
- [honda-research-institute/carla-setup: Set up the testing scenario in Carla simulator. \(github.com\)](#) branch: 0.9.11

To run:

1. In the terminal: \$ rosrun demo_entrance scenario_loader_4way_intersection.launch
2. In new terminal: \$ rosrun demo_entrance run_full_system.launch
3. In new terminal: \$ python ~scenario_runner/scenario_runner.py --scenario HRI4WayIntersection_4 --waitForEgo --repetitions 10