UDACITY

PROJECT

Implement Route Planner

A part of the Intro to Self-Driving Cars Program

PROJECT REVIEW

CODE REVIEW 5

NOTES

SHARE YOUR ACCOMPLISHMENT!

Meets Specifications

Great job! Your code is very clear and easy to read. Also evidences a good understanding of the A* search algorithm.

Correctness

Running test.py shows "all tests pass".

Your code passes all tests!

Student's `shortest_path` method implements A* search.

Your code evidences a good understanding of the A* search algorithm!

The heuristic function used to estimate the distance between two intersections is guaranteed to return a distance which is less than or equal to the true path length between the intersections.

Good call choosing the straight line euclidean distance for the heuristic function.

Choice and Usage of Data Structures

Code avoids obvious inappropriate use of lists and takes advantage of the performance improvement afforded by sets / dictionaries where appropriate. For example, a data structure like the "open_set" on which membership checks are frequently performed (e.g. `if node in open_set`) should not be a list.

Great choice of data structures!

This item is a judgement call. Student code doesn't need to be perfect but it should avoid big performance degrading issues like...

...unnecessary duplication of lists
...looping through a large set or dictionary when a single constant-time lookup is possible

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5 CODE REVIEW COMMENTS ›

RETURN TO PATH

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Student FAQ