

Return to "Intro to Self-Driving Cars" in the classroom

Implement Route Planner

REVIEW	
	CODE REVIEW 7
	HISTORY
Лeets	Specifications
orrect	ness
	test.py shows "all tests pass".
Running	, teetipy sine no sam teets pass .
	o, your code passed all tests.
Good jok	

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.

Well done, the euclidean distance is an admissible heuristic.

Student answered all question correctly.

Very good, please note when thinking about the differences between the search algorithm you may think in the way they guide its search, in the case of the UCS it uses only the cost of the path, in the case of BFS it uses only the heuristic and in the case of the A* it uses both, the cost of the path and the heuristic.

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.

You used sets and dictionaries for the key data structures of the algorithm, nice.

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

Please keep up the good work!

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7 CODE REVIEW COMMENTS

RETURN TO PATH