UDACITY

PROJECT

Kidnapped Vehicle

A part of the Self-Driving Car Program

PROJECT REVIEW

CODE REVIEW 8

NOTES

SHARE YOUR ACCOMPLISHMENT!

Meets Specifications

Congratulations on completing this C++ project! You should be satisfied with what you have achieved.

Best of luck with the PID project and the rest of Term 2!

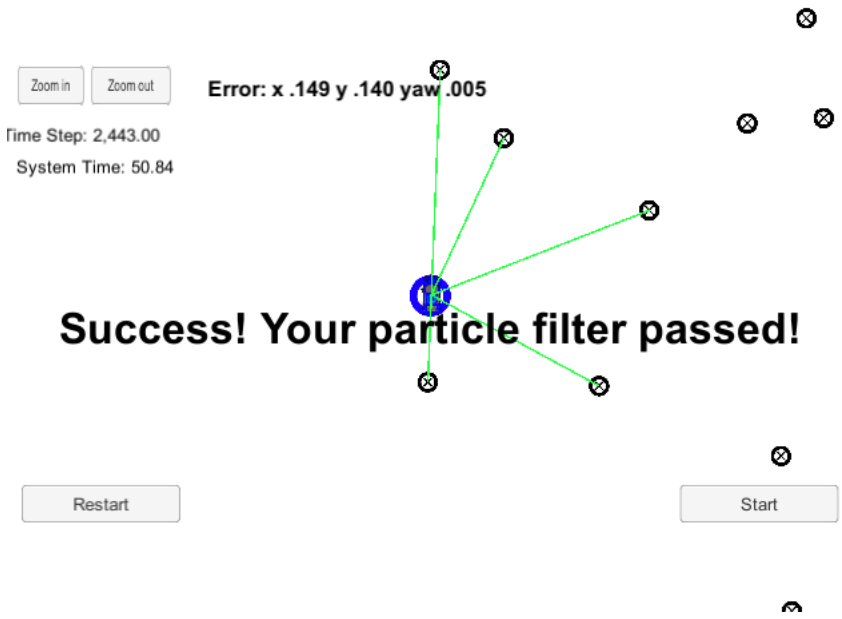
In case you are interested, this is a paper Sebastian Thrun authored on particle filters and how they could be used to perform robot localisation.

NB: *The nature of this project and rubric means that elements of this review will be similar or identical to the reviews for other students. Please rest assured that I have looked through all of the code you have written and submitted looking for issues with your implementation and places where I could suggest improvements.*

Accuracy

This criteria is checked automatically when you do ./run.sh in the terminal. If the output says "Success! Your particle filter passed!" then it means you've met this criteria.

Your particle filter completes a successful run in the simulator. Nicely one!



Performance

This criteria is checked automatically when you do ./run.sh in the terminal. If the output says "Success! Your particle filter passed!" then it means you've met this criteria.

Your particle filter completes a successful run in the simulator. Nicely done!

General

There may be ways to "beat" the automatic grader without actually implementing the full particle filter. You will meet this criteria if the methods you write in particle_filter.cpp behave as expected.

Your project is very nicely done. I've made a few suggestions and comments in the code review but it was hard for me to find room for improvement. I hope you find the code review helpful and constructive.

To make your code even more efficient, when defining variables that remain unchanged throughout the execution of the code, it is best to declare them using the `const` keyword. This allows the compiler to optimise memory allocation when compiling the code. The first answer from this stack overflow question goes into greater detail.

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8 CODE REVIEW COMMENTS ›

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Student FAQ