

PROJECT

Finding Lane Lines on the Road

A part of the Self Driving Car Engineer Nanodegree Program

PROJECT REVIEW

NOTES

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Meets Specifications

I had a lot of joy reviewing your work :)

Hope to review some of your future works friend,

Farewell,

Sedar,

Twitter: @sedarolmez

Required Files

The project submission includes all required files

Lane Finding Pipeline

The output video is an annotated version of the input video.

`high_threshold = 150 not 200,`

Not many students are able to ensure that the hough lines for the videos "white.mp4" or "yellow.mp4", but you have, which is quite intriguing :) even though a few minor changes for your parameter values like your `threshold = 20`, `min_line_length = 60`, `max_line_gap = 35` has a inconsistency, i.e. how can you assume that the lane line will be a small threshold of 60? in length, a threshold would require you to test a set of values within a min and max threshold, so a more suitable value for these variables would be, say: `min_line_len = 100`, `max_line_gap = 160` and for threshold itself, which is the average length of the line, for this particular domain, you would need to `increase the value to roughly 30` because it is more suited for this domain and would ensure both left and right hough_lines are the same in length, plus for the extra task your lines wouldn't be centered and overlapping because threshold is used when calculating each frame milli second.

Overall, a really good solution and you have met the requirements for this specification!

In a rough sense, the left and right lane lines are accurately annotated throughout almost all of the video. Annotations can be segmented or solid lines

Congratulations, for your "white.mp4" and "yellow.mp4" you have conveyed a firm understanding of the OpenCV API, you have used various method presented in the API and lane lines are annotated, great work with the `challenge` video.

Visually, the left and right lane lines are accurately annotated by solid lines throughout most of the video.

Not much to say about your `draw_lines` algorithm it works efficiently and solid hough lines are produced, however, I'd like to point you towards some conventions:

I would definitely recommend reading the python programming conventions: <https://www.python.org/dev/peps/pep-0008/> just to understand the foundation of python programming, especially when it comes to repeating code when you could just make functions with various parameters and just call them assigning them to various types of the same objects,

Regarding parameter values and in the future, try to test various values within thresholds for the domain you're coding for to never miss out a particular optimal output.

Not much to say about this requirement, you have passed it with flying colours and also I have elaborated a little more on the comments above :)

Reflection

Reflection describes the current pipeline, identifies its potential shortcomings and suggests possible improvements. There is no minimum length. Writing in English is preferred but you may use any language.

I would like to focus on a particular point you've made: "Another white/yellow marks painted in the road like arrow, letters an signals." and you're right, we could use colour maps from the Open CV api which detects a change in colour within the region_of_interest and performs depending on the colour, for animals it can be heat, for snow also: <http://docs.opencv.org/2.4/modules/contrib/doc/facerec/colormaps.html>

Not much to say about this requirement, you have passed it with flying colours and also I have elaborated a little more on the comments above :)

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