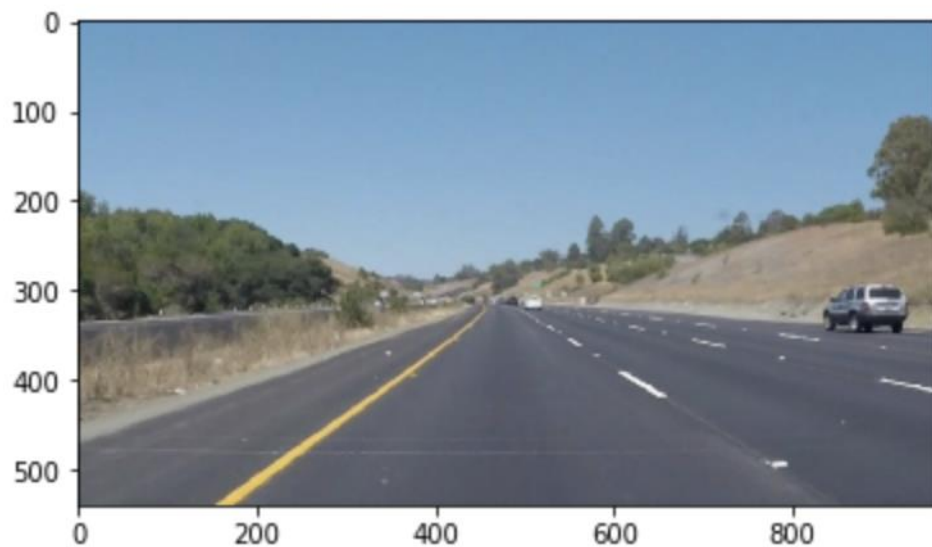


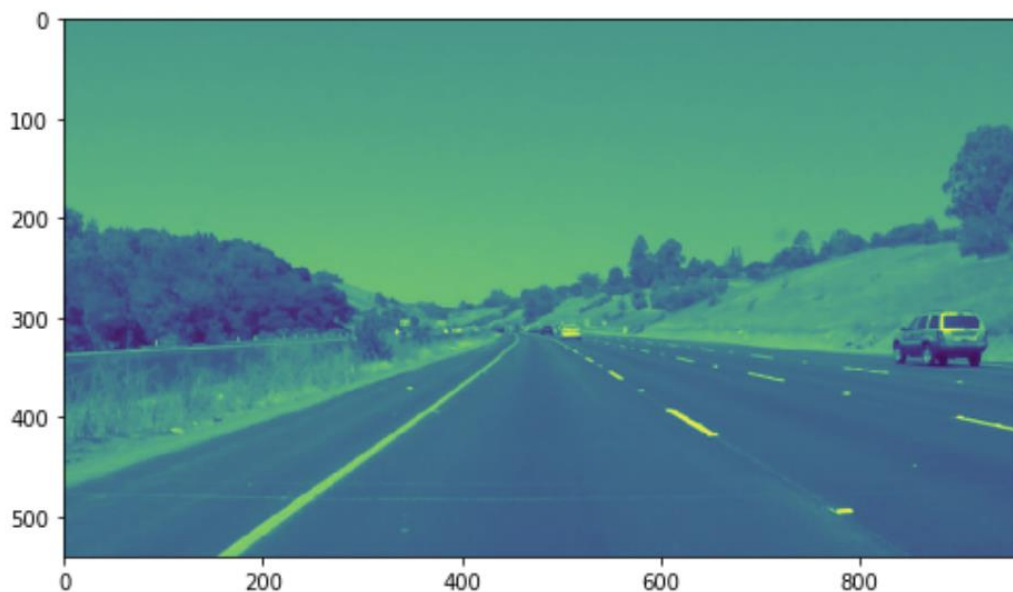
Finding Lane Lines on the Road

1. Describe the pipeline.

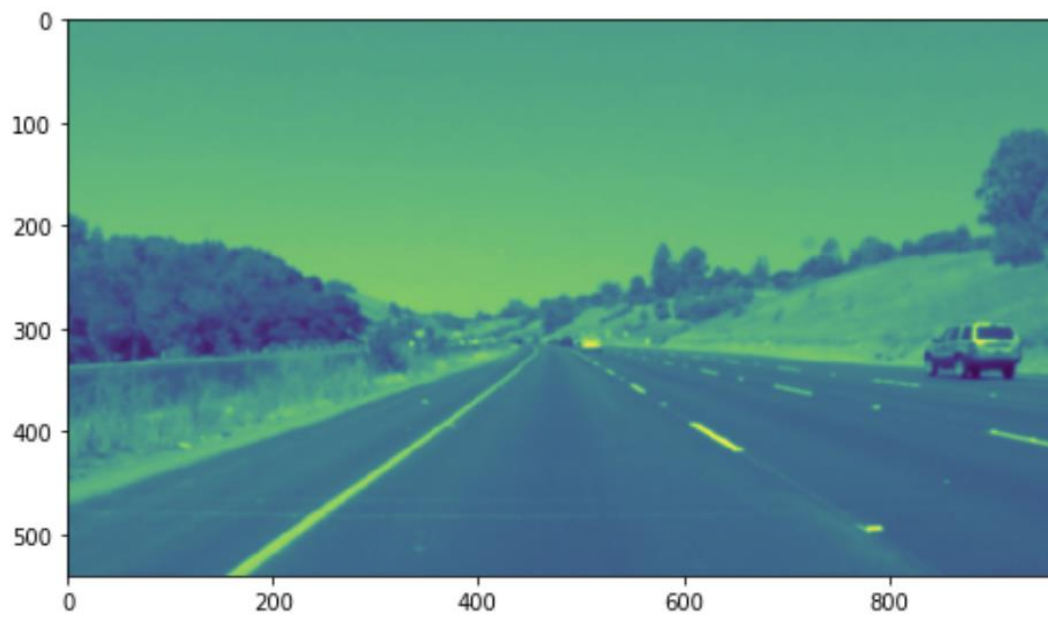
My pipeline consisted of 5 steps. First, I converted the images to grayscale, then in order to discard the high frequency noises, I applied the Gaussian Blur function to the gray image. Third step is edge detection. I used the canny function to detect the edges qualify the threshold. Next one is HoughLine transform processing which helps me find the potential lane lines in the image. The last one step drawing the line is the most important step in this project in my view. I divided the lines I found into left and right part and averaged the whole points over last frame when I applied my pipeline into the video.



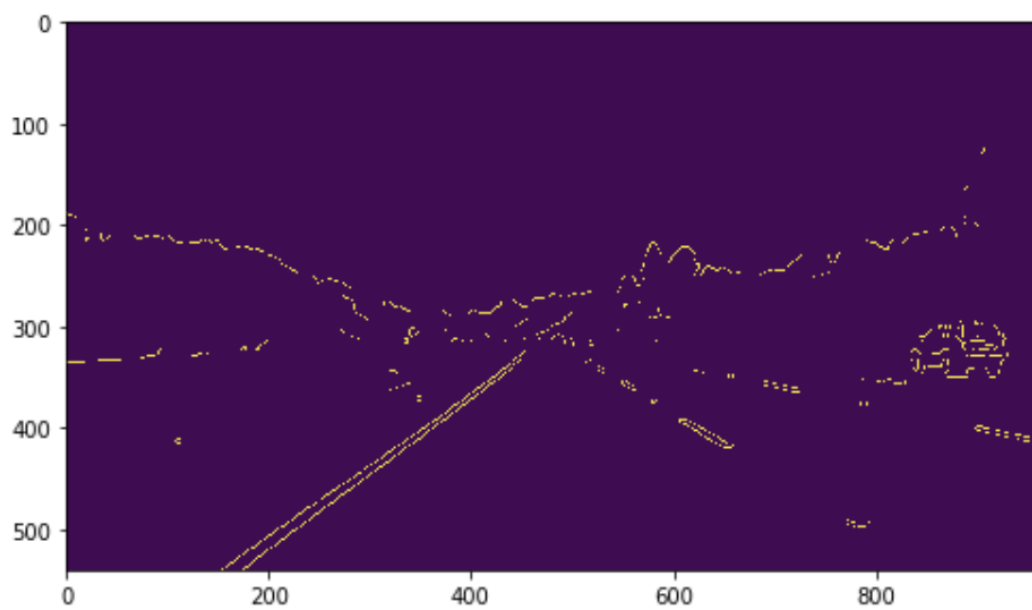
Original Image



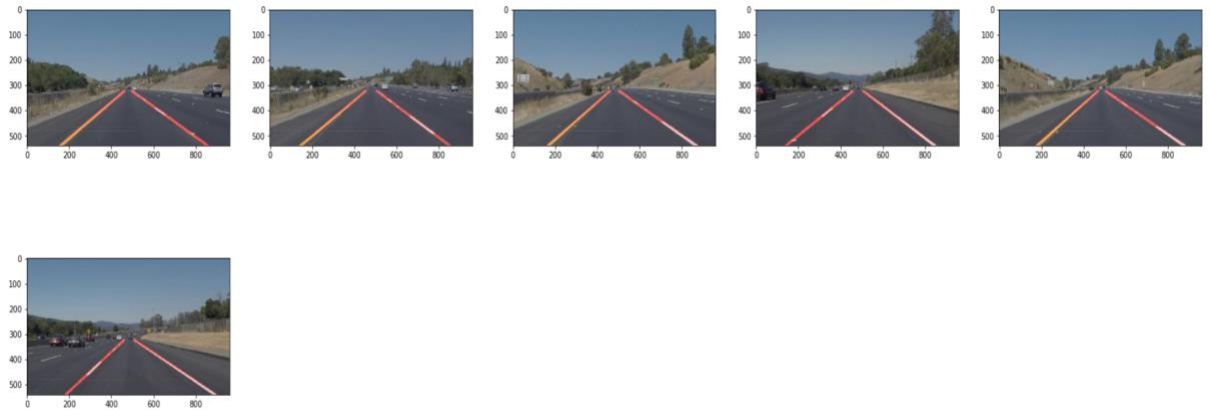
Gray Image



Gaussian blur



Canny detection



Draw the lines for all five test images

2. Potential shortcomings

My pipeline is not as robust as example code. As you can see, my code is not good for the challenge video. Also, the lines I draw in the first two video are not such stable.

3. I really want to find better parameters to improve my pipeline. And I am not sure whether the draw line function I modified is correct, especially for the average over last frame part.