

## Finding Lane Lines

The goal of the project is find the lane lines on the road.

I tried to do with test images and also I took few images near my home to test the code. Lanes are detected properly as shown below. After this, same logic is applied to videos to detect the lane lines.

Original image



Color Filtering

First find only yellow and white colors and mask non-yellow and non-white colors.

Pixels which are more than the threshold were retained.

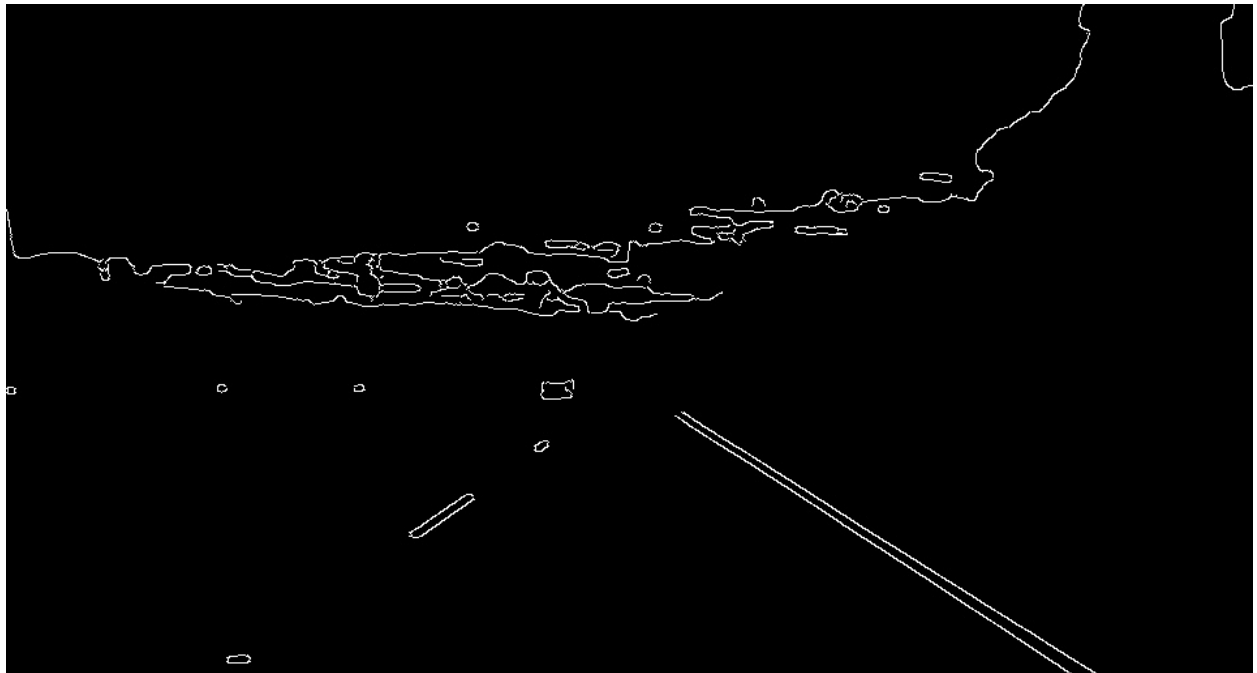


Convert to gray scale

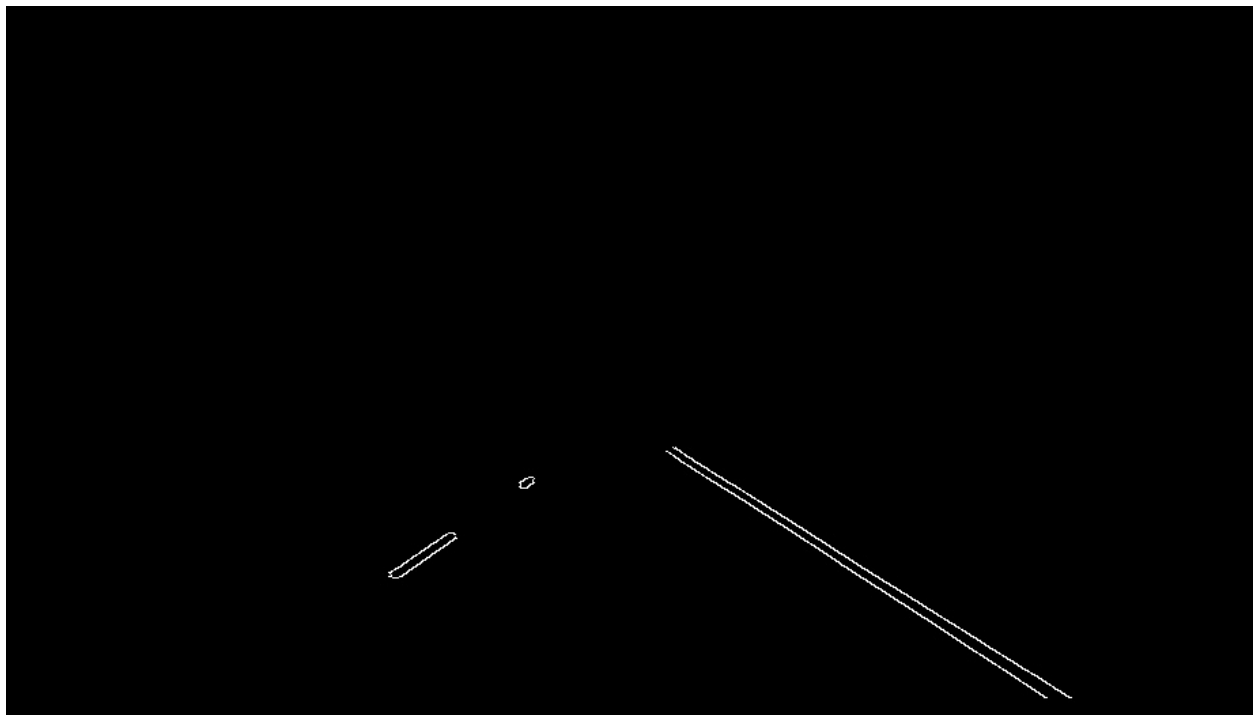
Get the image to gray scale



Detect Edges



ROI (Region of Interest)



## Finally lane detected



## Potential shortcomings with the current pipeline

---

- This approach could not work properly:
  - if the camera is in different position
  - if the lanes are not in straight line
  - if other vehicles in front are occluding the view
  - if there is fog, rain, or at night

## Possible improvements

---

Some possible improvements:

- Update the ROI mask dynamically
- Use a moving-edges tracker for the continuous lines