

Minor Project

Detecting Lane Lines For Self Driving Cars

Mentor:

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Team Members:

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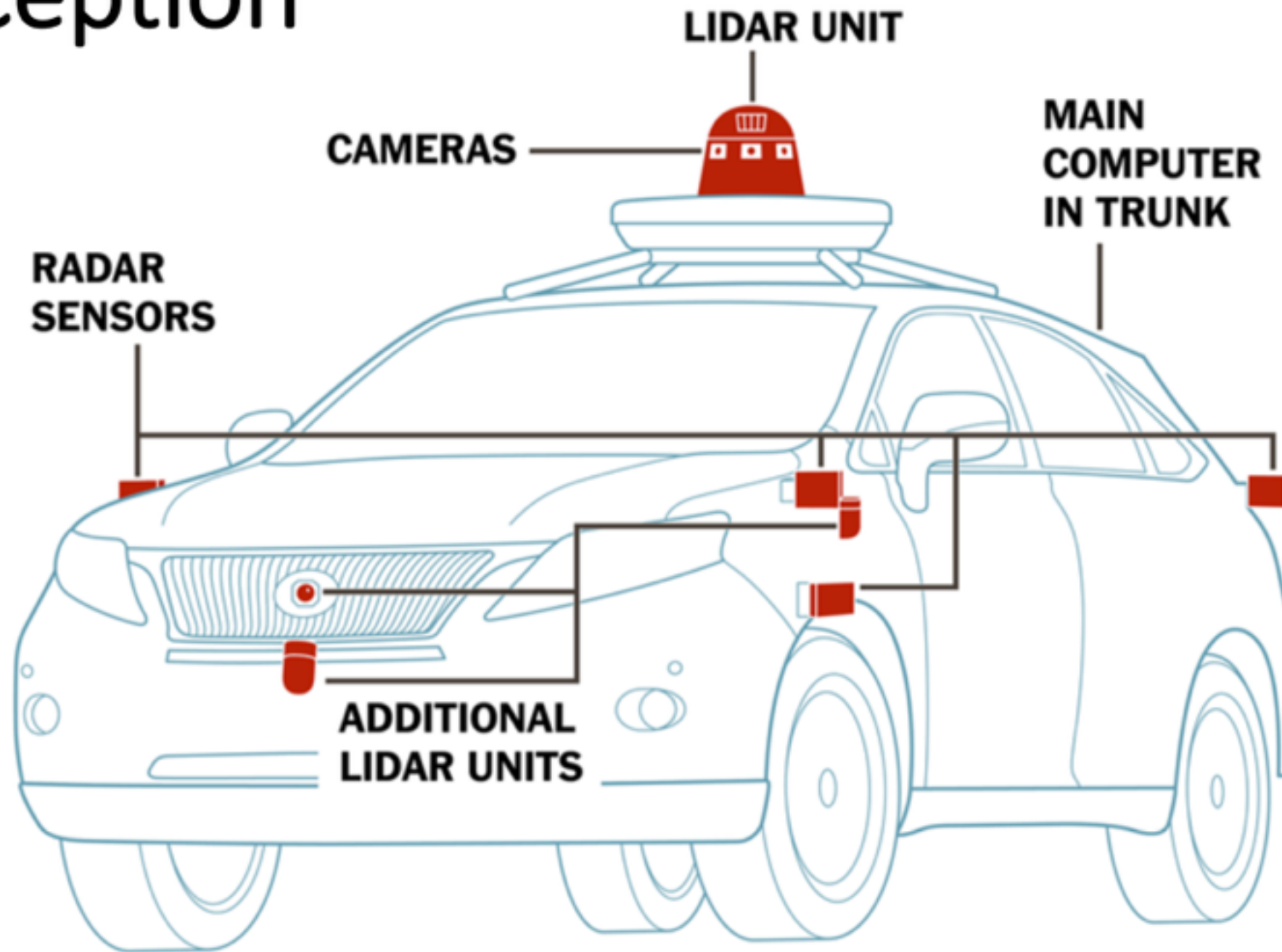
Ashu Goel

Harsh Nandan

Autonomous Cars need to do 3 things



Perception



Finding lane lines is perception and decision



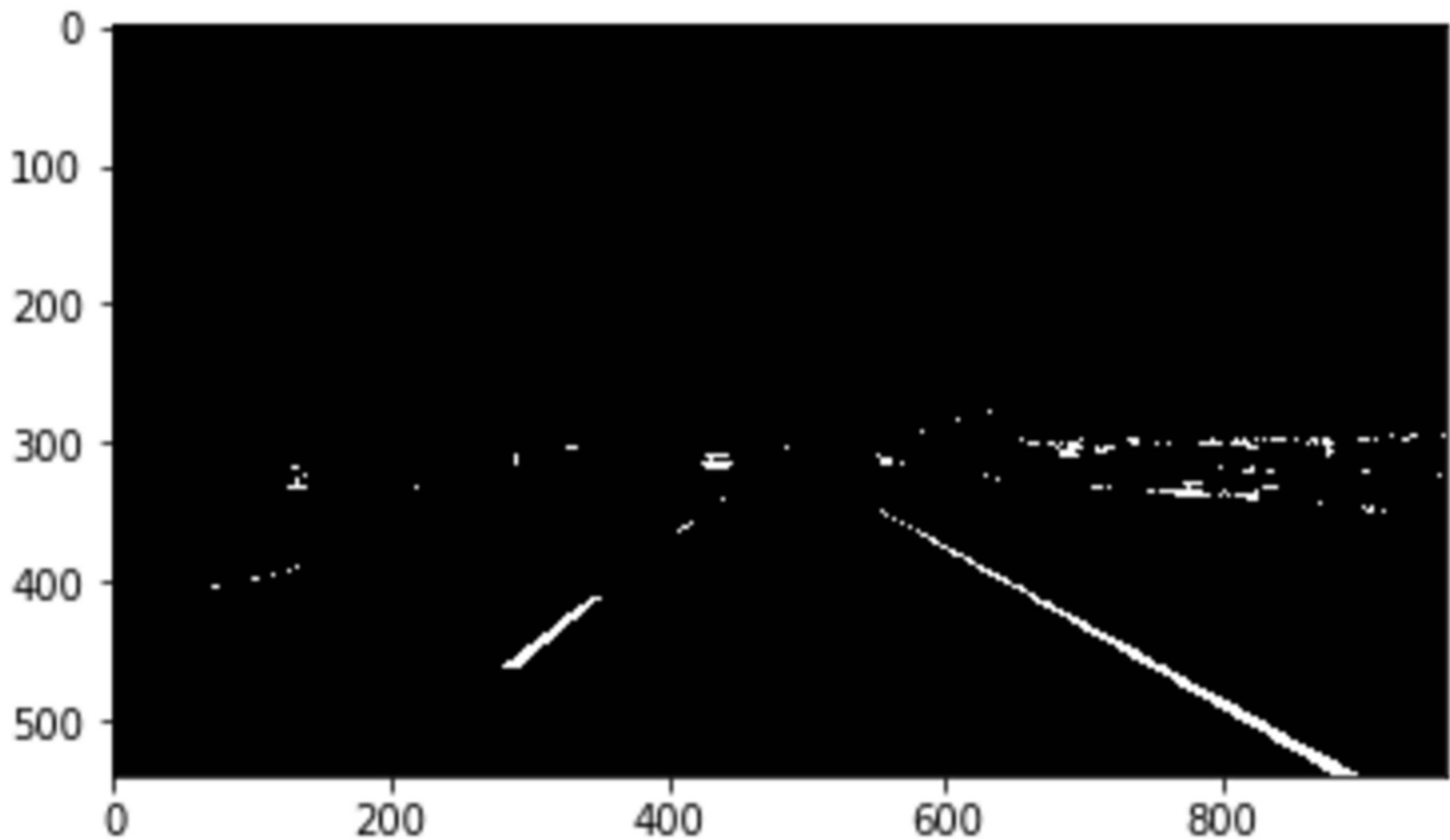
What are we building?



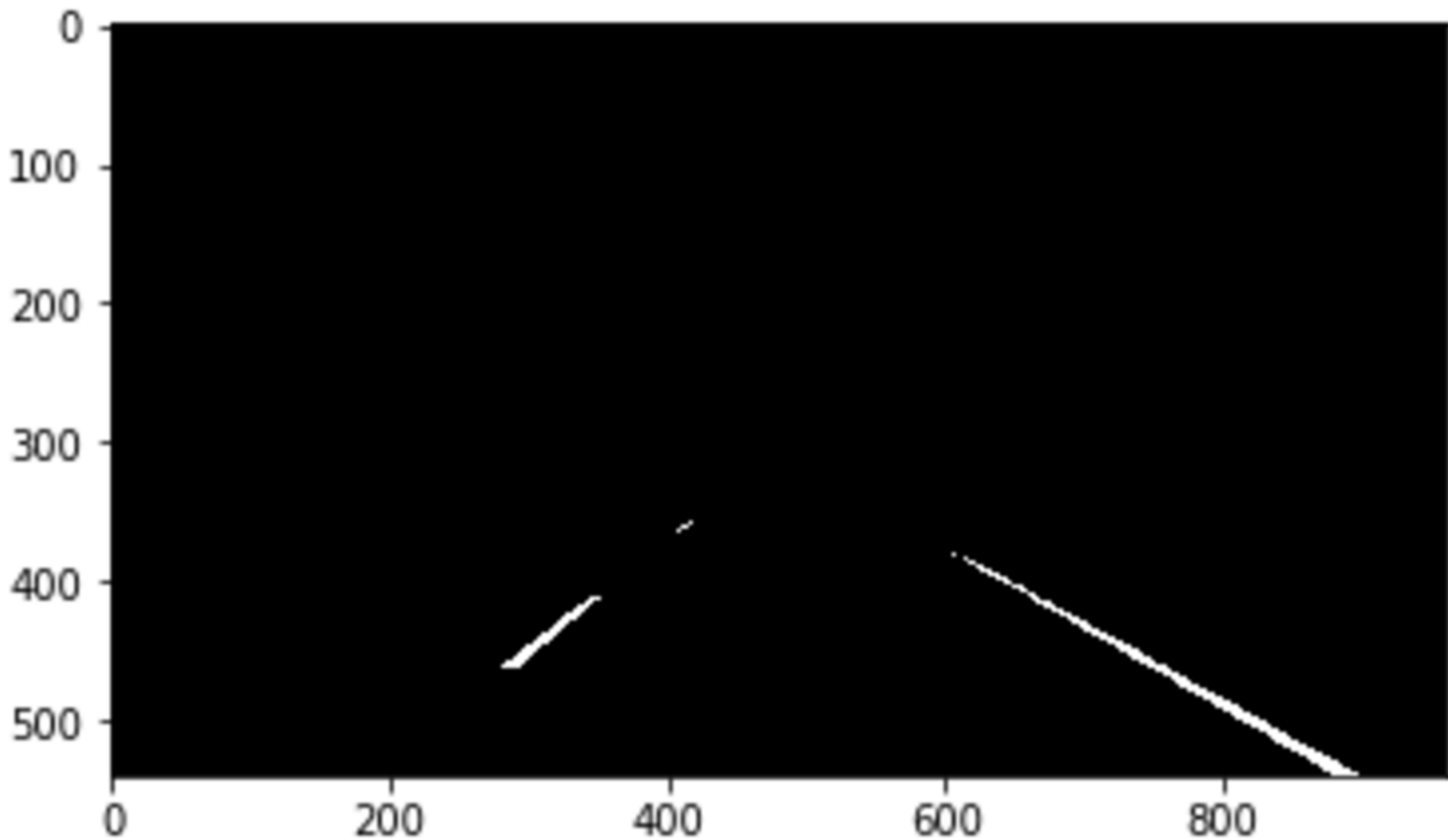
Consider an image of road



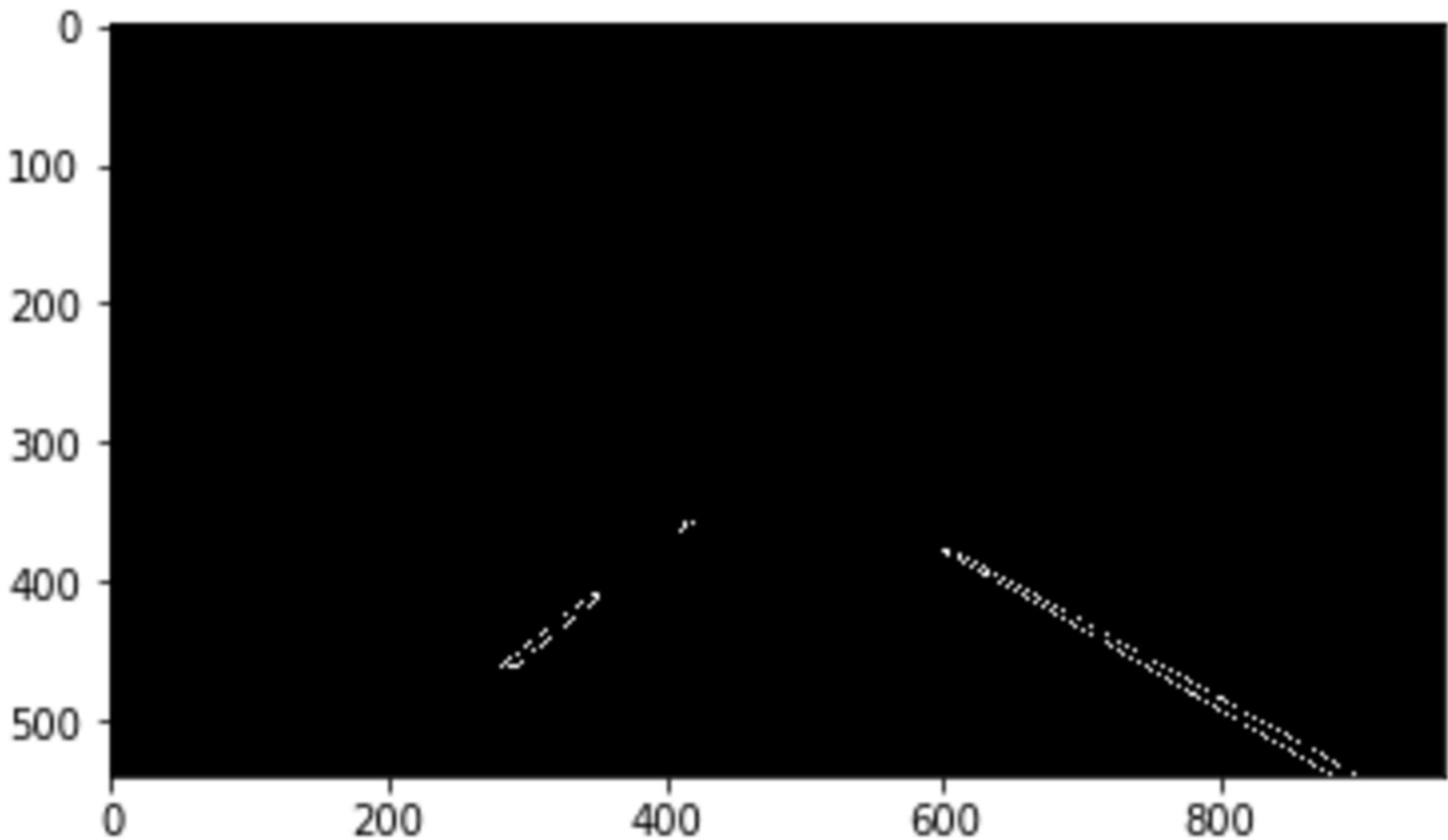
Color Selection



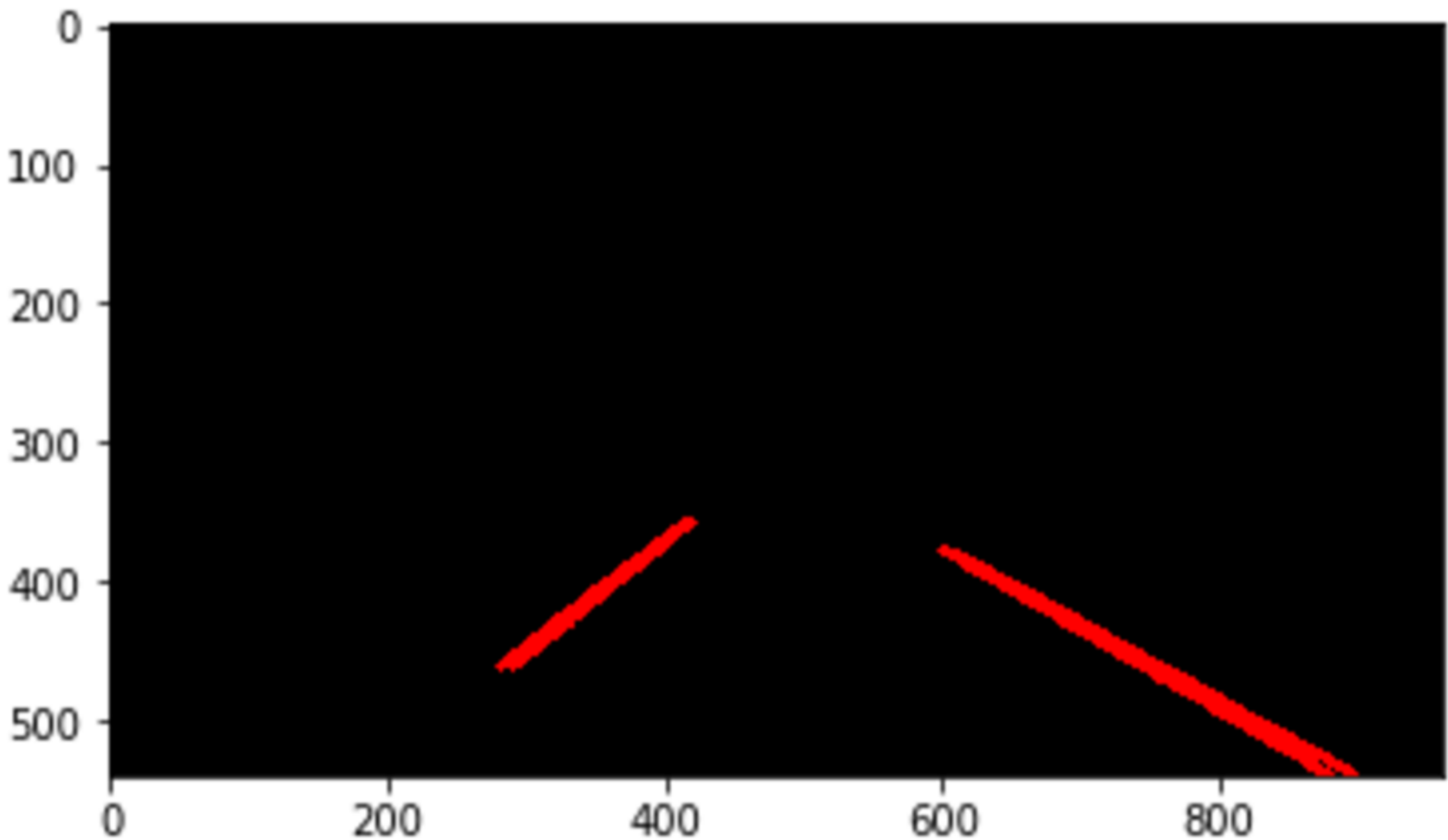
Region of Interest



Canny Edge Detection



Hough Transform

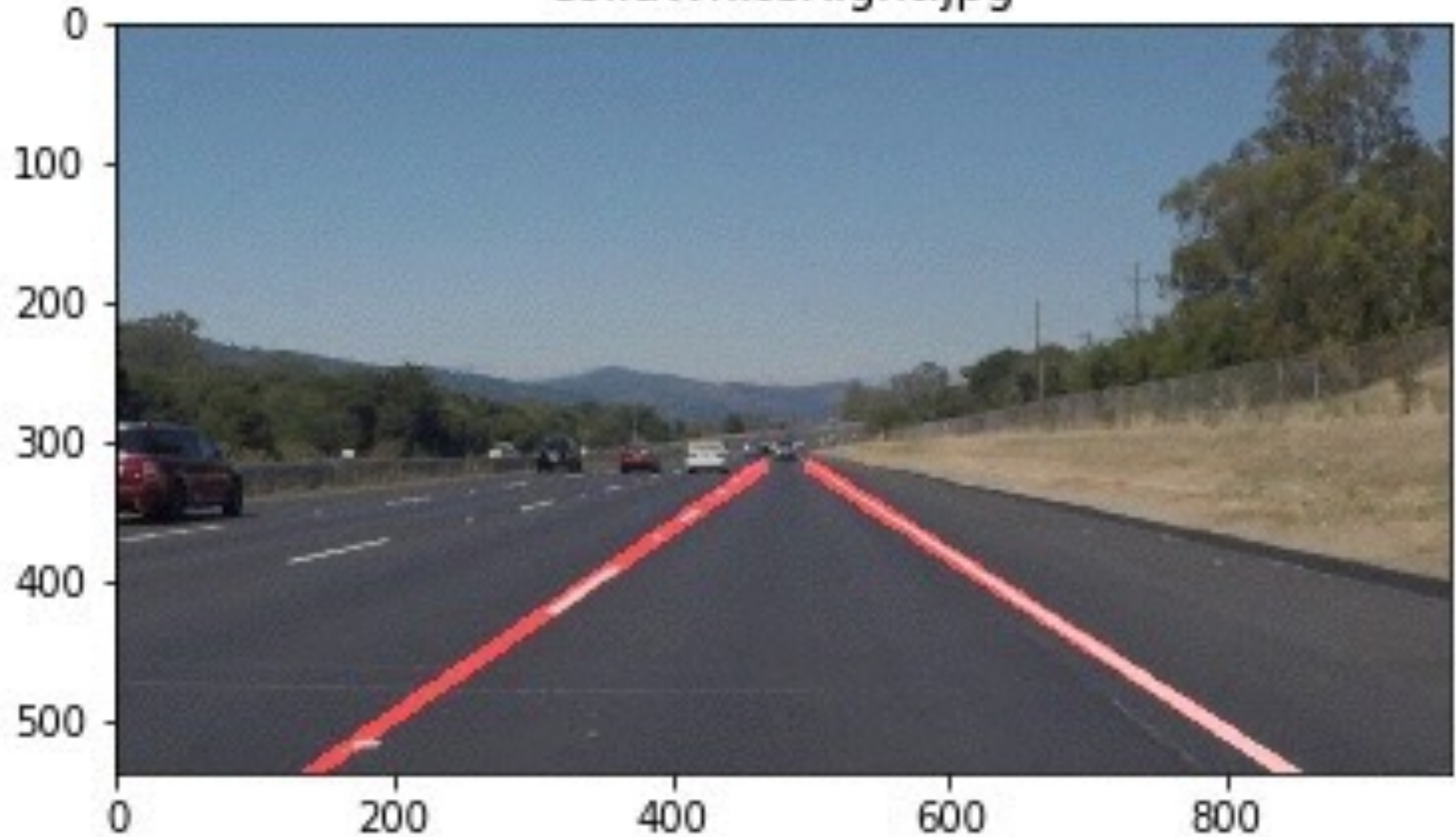


Applying Hough Lines



Extrapolating Lines

solidWhiteRight.jpg



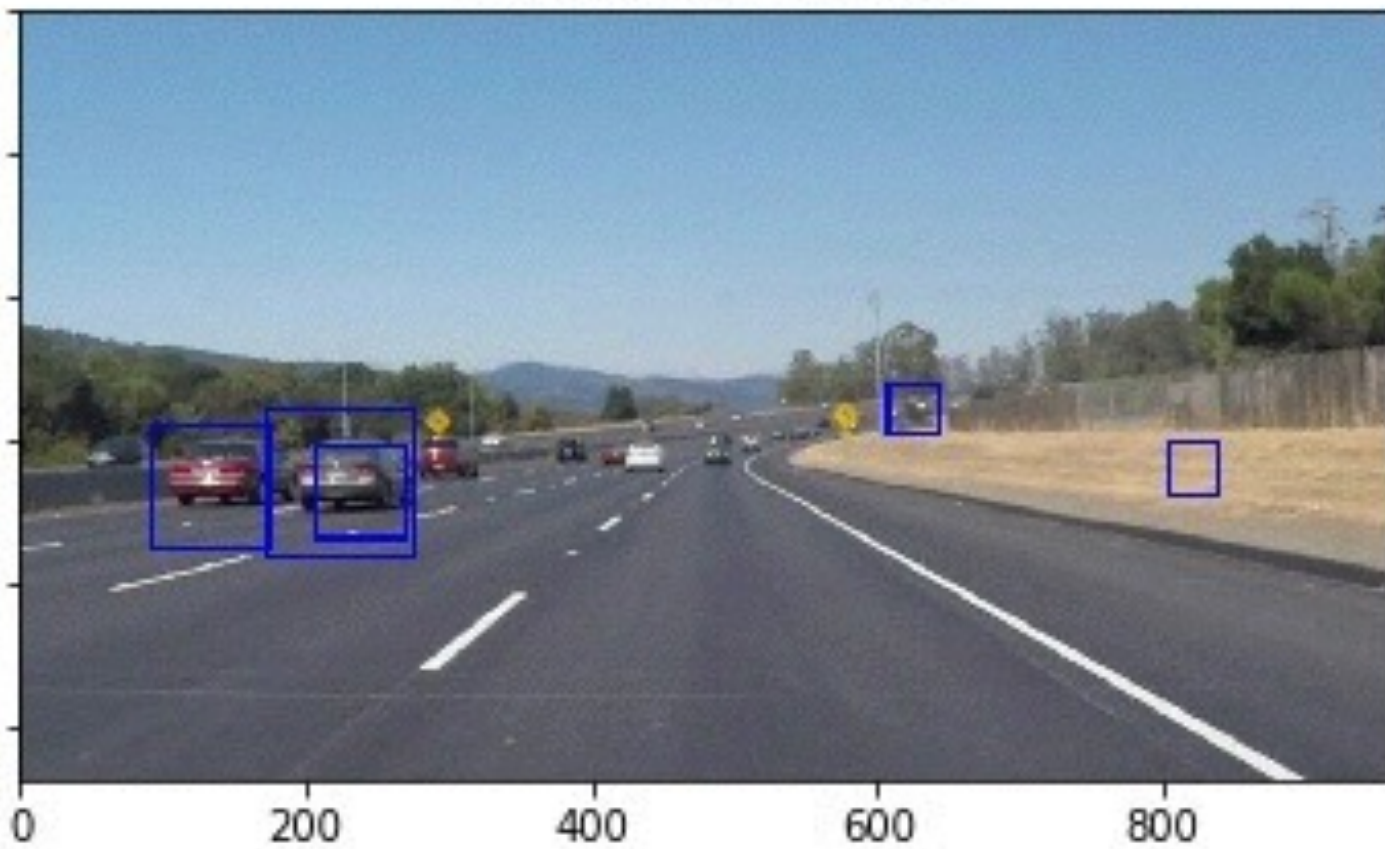
Processing Video



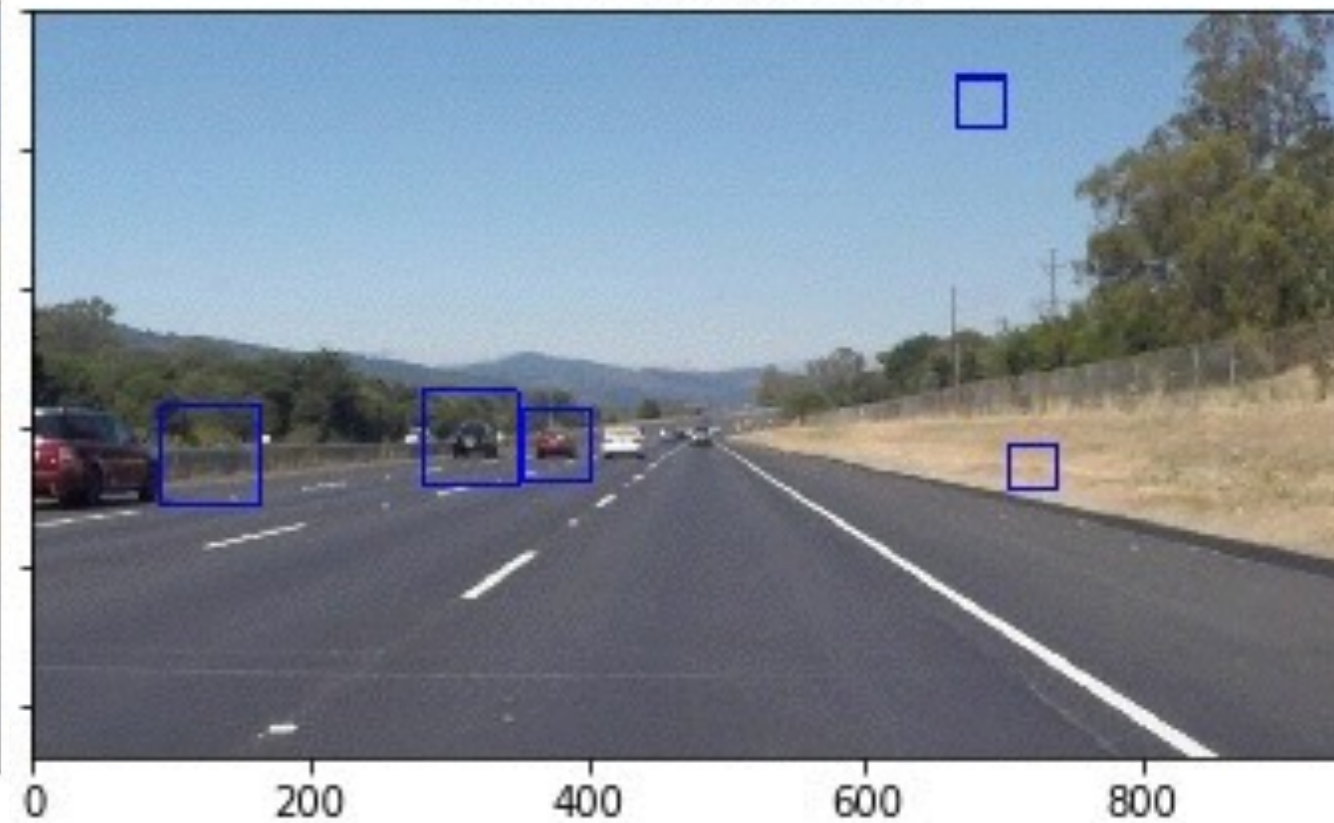
Extras

Vehicle Detection

solidWhiteCurve.jpg



solidWhiteRight.jpg



Thank You