

# Task - Red Light Detection

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Task Link - [@Red TrafficLight Detection](#)

Saturday, 15.08.2020

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## Technologies Used :

OpenCV

Python

NumPy

## About:

I have devised an algorithm that detects the red traffic light in the video feed. It can be modified for real-time feed as well. The algorithm uses HSV variations of the color and techniques including hough circle transform, color detection, and object tracking, and detects the lights in real-time.

The parameters can be modified further for better accuracy.

## Instructions

- The Github repository contains the Python script - *detection.py*
- Just clone the repository and run the file.
- The outputs videos on the dataset provided are under the *outputs folder*.

## References:

- [https://opencv-python-tutroals.readthedocs.io/en/latest/py\\_tutorials/py\\_imgproc/py\\_houghcircles/py\\_houghcircles.html#hough-circles](https://opencv-python-tutroals.readthedocs.io/en/latest/py_tutorials/py_imgproc/py_houghcircles/py_houghcircles.html#hough-circles)
- [https://opencv-python-tutroals.readthedocs.io/en/latest/py\\_tutorials/py\\_imgproc/py\\_colorspaces/py\\_colorspaces.html](https://opencv-python-tutroals.readthedocs.io/en/latest/py_tutorials/py_imgproc/py_colorspaces/py_colorspaces.html)