```
white_filter = cv2.inRange(hsv, (0,0,0), (180,35,255))
yellow_filter = cv2.inRange(hsv, (26,77,178), (31,255,255))
```

I used a website provided by John Lutz to get the hard numbers. From there I visualized the cylinder to figure out what the "bounds" of the colors I wanted looked like. For yellow, as an example, I know duck toys, which are often called yellow, range from a light orange color to a very light, bright, yellow. I mapped the lower and upper bounds for each parameter using the website.

Git branch: https://github.com/Shivlocin/eece.7120.robotics/tree/homework_7
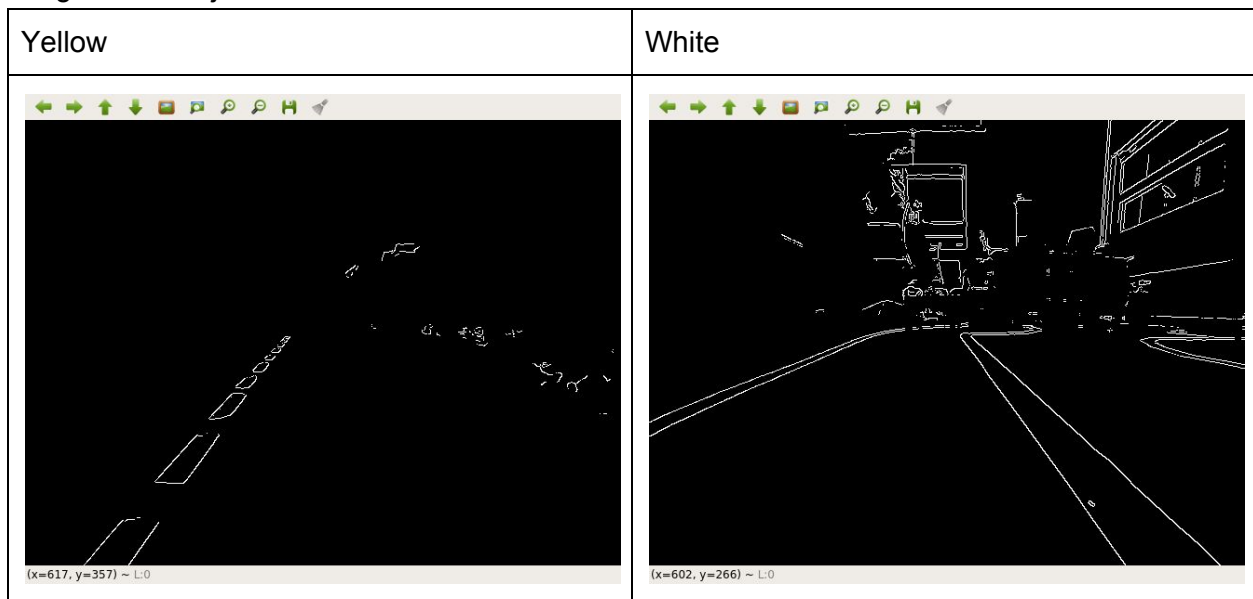Tag: hw7

Image0 after adjustments

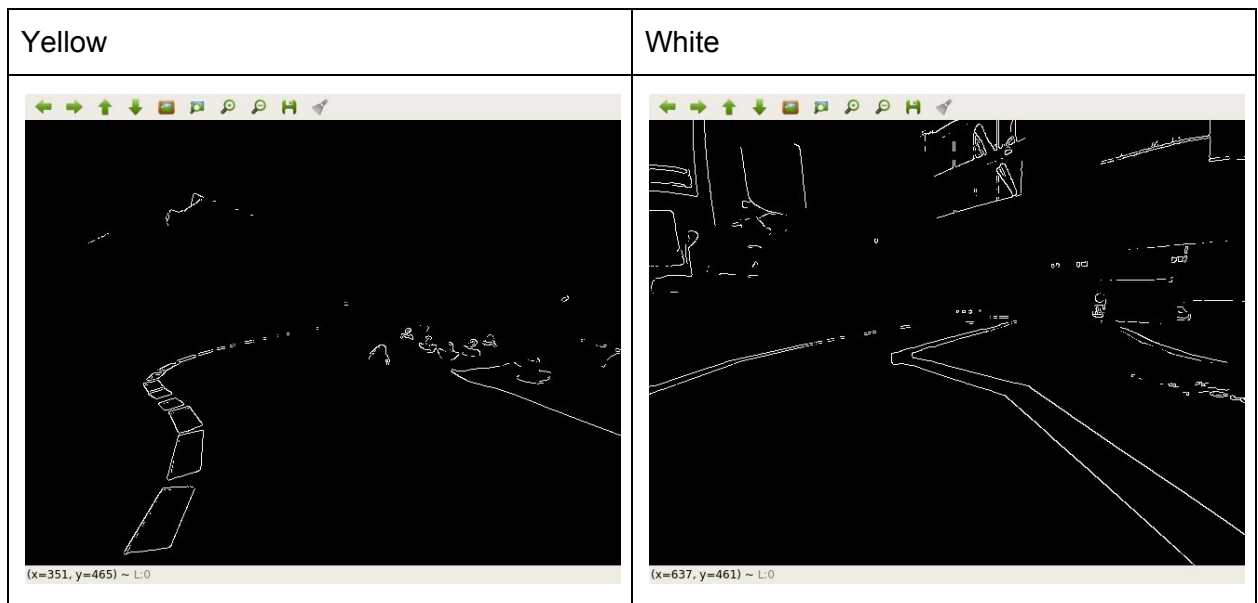| Yellow | White |
|---|---|
|  |  |

Image1 after adjustments

| Yellow | White |
|---|---|
|  |  |
| (x=639, y=457) ~ L:0 | (x=584, y=438) ~ L:0 |

Image2 after adjustments

| Yellow | White |
|---|---|
|  |  |
| (x=639, y=354) ~ L:0 | (x=628, y=383) ~ L:0 |

Image3

| Yellow | White |
|---|---|
|  |  |
| (x=616, y=456) ~ L:0 | (x=620, y=406) ~ L:0 |

Image4

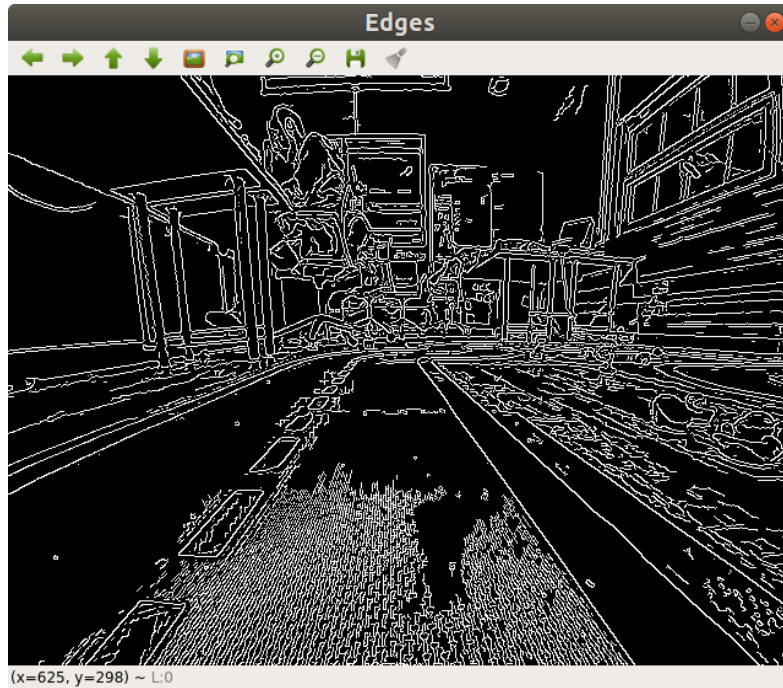| Yellow | White |
|---|---|
|  |  |
| (x=351, y=465) ~ L:0 | (x=637, y=461) ~ L:0 |

edges = cv2.Canny(image, 23, 53, apertureSize=3)



edges = cv2.Canny(image, 342, 358, apertureSize=3)