

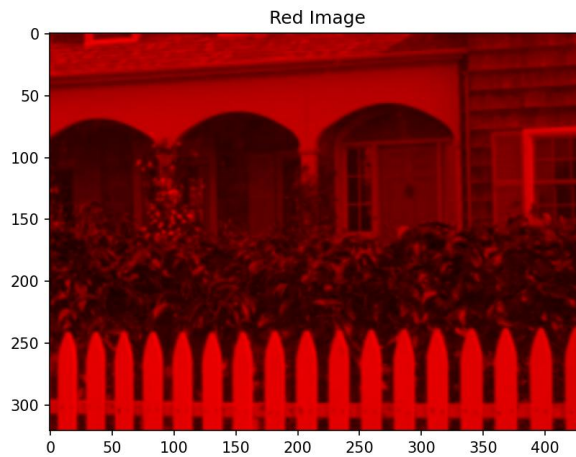
EEP 596 Computer Vision HW #1

Bo-Han Chang Chien

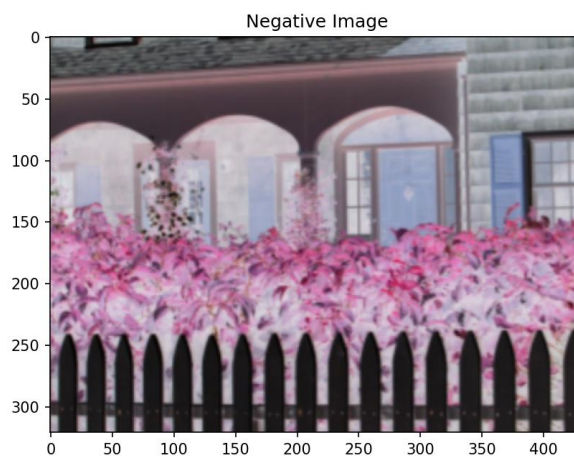
1. Image load / save.

```
Image data type: uint8  
Pixel data type: uint8  
Image dimensions: (321, 433, 3)
```

2. Color channels.



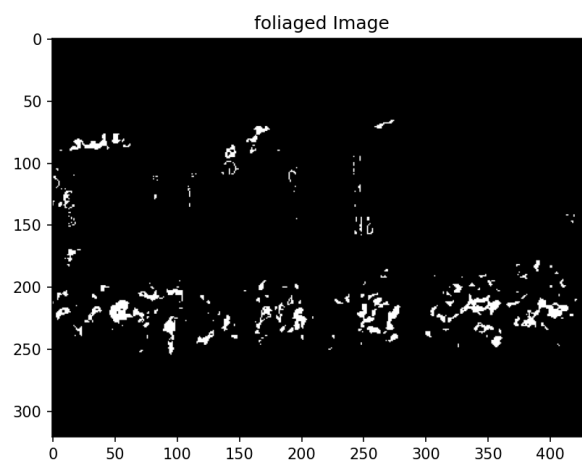
3. Photographic negative.



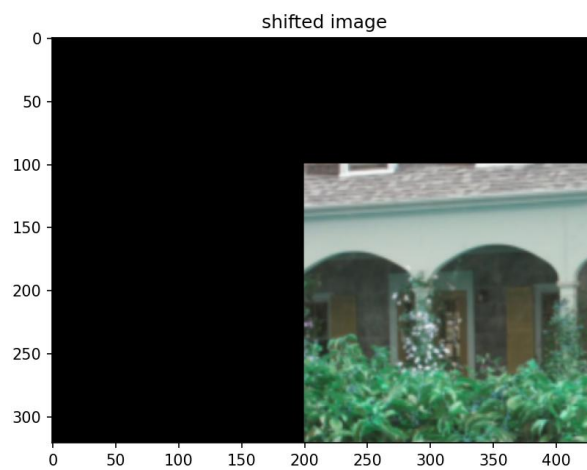
4. Swap color channels.



5. Foliage detection.



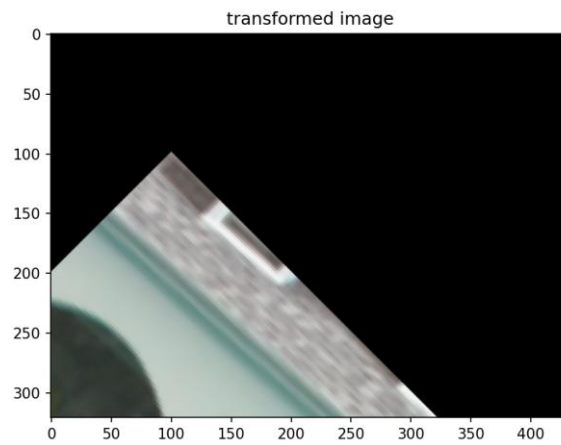
6. Shift.



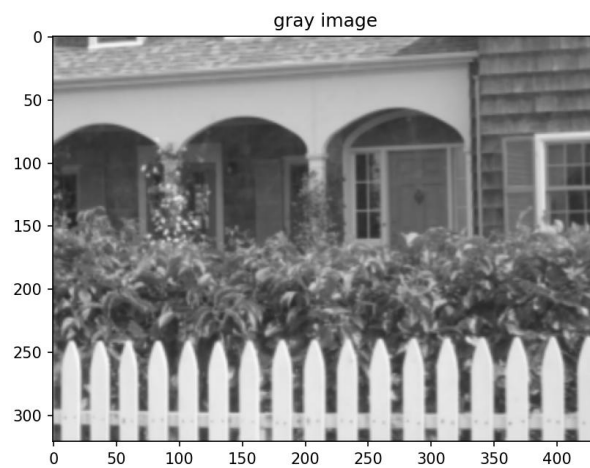
7. Rotate.



8. Similarity transform.



9. Grayscale conversion.



10. Moments.

```
First-Order Moments:  
Standard (Raw) Moments: M00 = 11792, M10 = 5617082, M01 = 2254903  
Centralized Moments:  
x_bar = 476.34684531886023, y_bar = 191.22311736770692  
Second-Order Centralized Moments:  
mu20 = 137886399.4026459, mu02 = 59351807.97820555, mu11 = 57699869.44996607
```

11. Binary image processing.

