

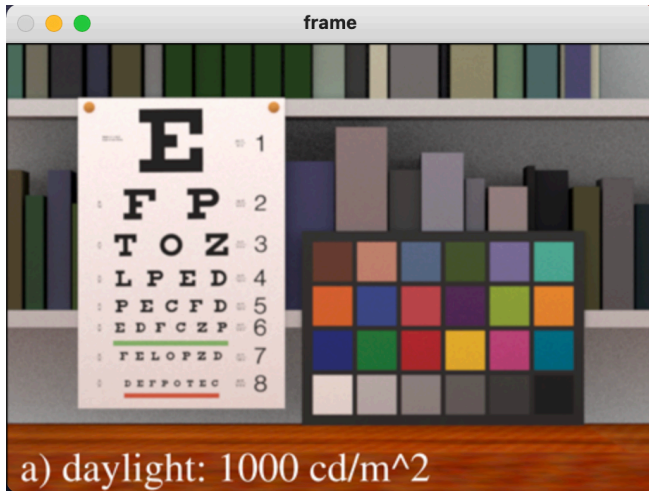
Lab 4

Detect an object in an image based on its color

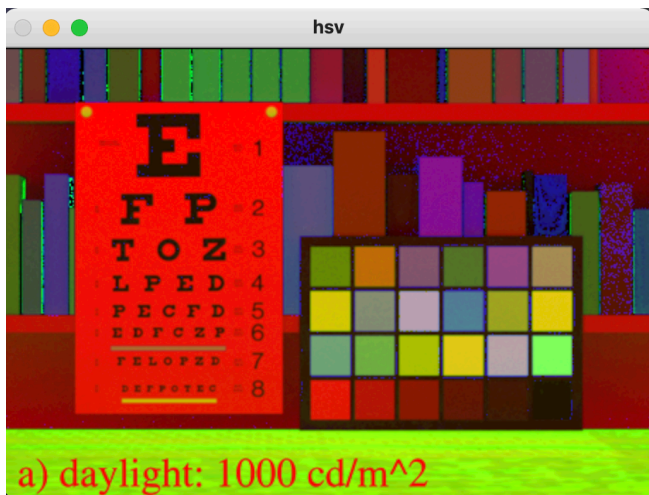
Xinyi HE #300072163

Part A: Hue Color-Correspondence Experiment

1. Load Image (folder "images").

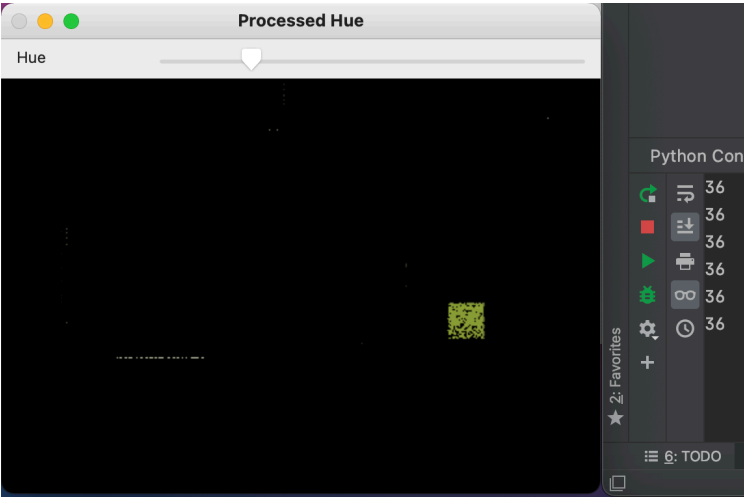


2. Convert Image from RGB space into HSV space.

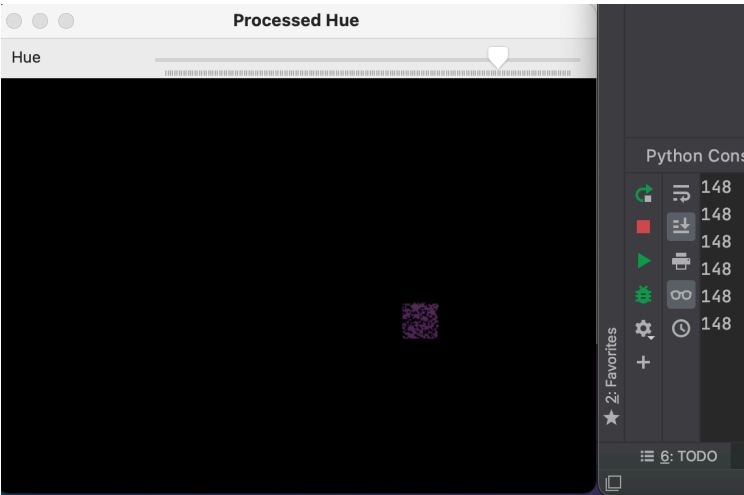


3. Isolate pixels with a specific hue value.
4. Convert the image containing the isolated pixels from HSV space back into RGB space.
5. Visualize the result.

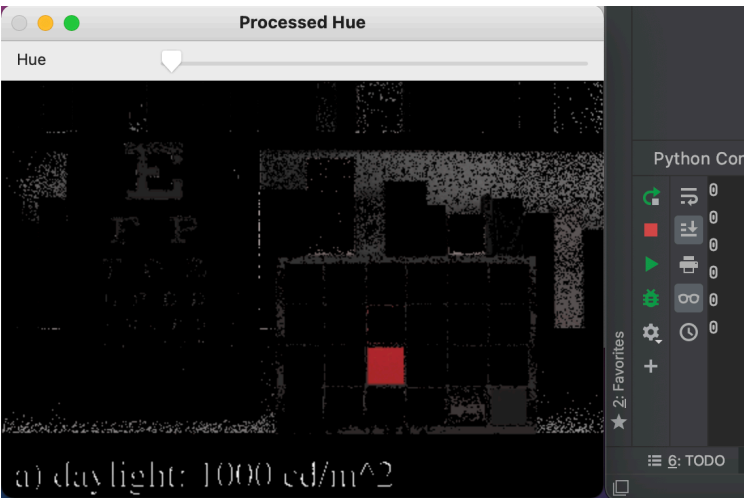
Yellow-Green square



Violet square

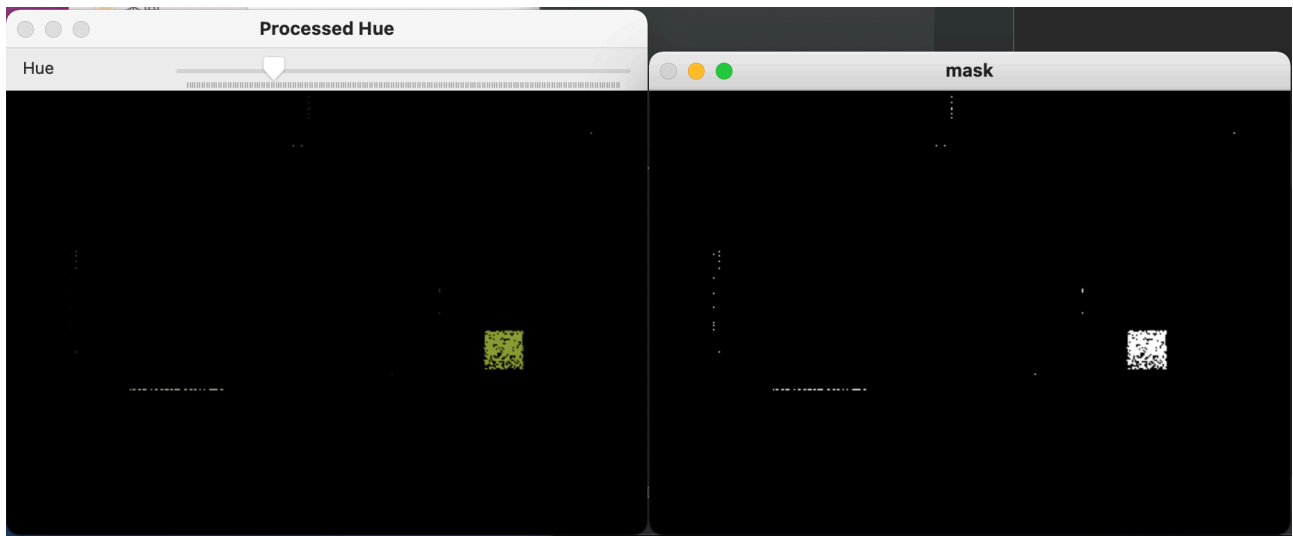


Red square

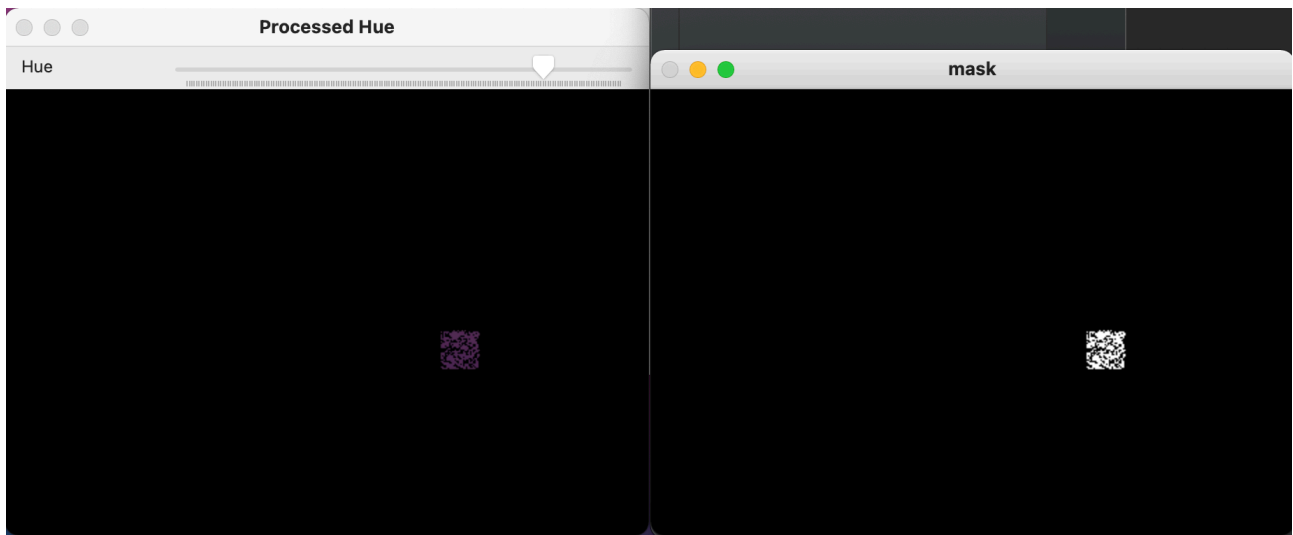


Part B: Colour-based object detection

Yellow-Green object detection



Violet object detection



Red object detection

