

# *Digital Image Processing, 4th ed.*

Gonzalez & Woods

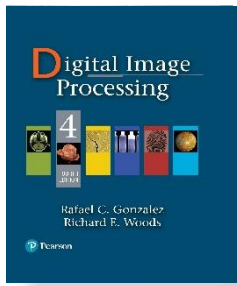
[www.ImageProcessingPlace.com](http://www.ImageProcessingPlace.com)

## Projects

### #12

## Converting between RGB and HSI color spaces

- (a) Write a function **rgb2hsi** to convert RGB images to HSI
- (b) Write a function **hsi2rgb** to convert HSI images to RGB
- (c) Test function **rgb2hsi** using the RGB color cube image, computing its HSI components, then displaying and comparing them visually with images showing in the class notes.
- (d) Test function **hsi2rgb** by converting your result from (c) back into a RGB cube. The result should be identical to the original cube.



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### **What should be uploaded?**

1. m file (commented);
2. Input and processed Images
3. conclusions.