

Notes and Outputs - Lab 2

```
imfinfo('imageName.png')
```

Workspace				:
Name	Value	Size	Class	
E ans	1x1 struct	1x1	struct	

```
RGB = imread('imageName.png');
imshow(RGB)
```



```
I = rgb2gray(RGB);
figure % start a new figure window 'figure 2'
imshow(I)
```

■ I	384x512 ui...	384x512	uint8
■ RGB	384x512x3 ...	384x512x3	uint8



```
imshowpair(RGB, I, 'montage')
```

```
title('Original colour image (left) grayscale image (right)'); % title
```



Channel Splitting - RGB

```
[R,G,B] = imsplit(RGB);
```

Output:

Workspace		:		
Name	Value	Size	Class	↑
B	384x512 uint8	384x512	uint8	
G	384x512 uint8	384x512	uint8	
R	384x512 uint8	384x512	uint8	
RGB	384x512x3 uint8	384x512x3	uint8	

```
montage({R, G, B}, 'Size',[1 3])
```

Output:

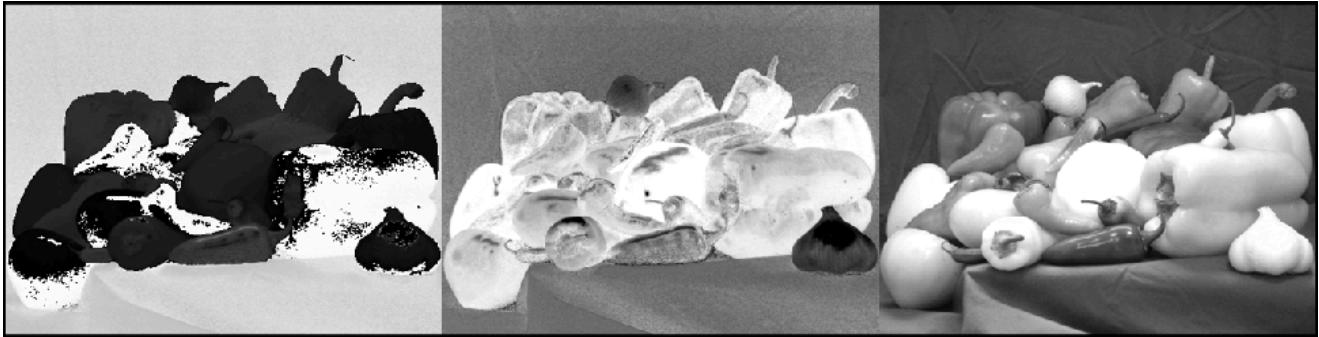


RGB to HSV Channels

```
HSV = rgb2HSV(RGB);
[H,S,V] = imsplit(HSV);
```

Output - created objects same structure as imread and imsplit(RGB)

```
montage({H,S,V}, 'Size', [1 3])
```



RGB to XYZ Channels

```
XYZ = rgb2xyz(RGB);  
[X,Y,Z] = imsplit(XYZ);
```

Output - created objects same structure as imread and imsplit(RGB)

```
montage({X,Y,Z}, 'Size', [1 3])
```

