## **MATLAB** image conversions

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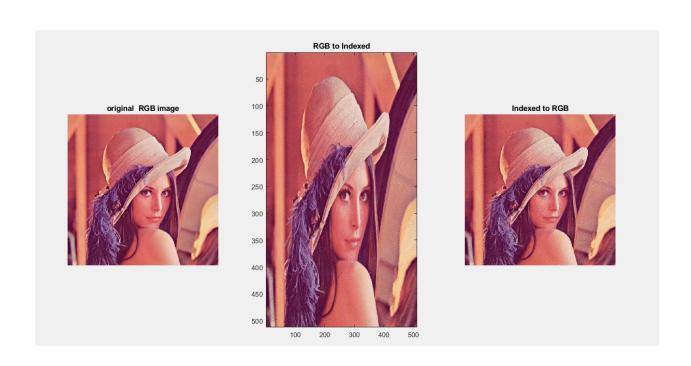
Course Code: Image Processing and Analysis

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## Task

```
f=imread('lena_color.png');
subplot(1,3,1)
imshow(f)
title('original RGB image')
%rgb2ind
[g,map]=rgb2ind(f,64)
subplot(1,3,2)
imshow(g)
imagesc(g)
colormap(map)
title('RGB to Indexed')
%ind2rgb
a=ind2rgb(g,map)
subplot(1,3,3)
imshow(a)
title('Indexed to RGB')
```



```
f=imread('lena_color.png');
subplot(1,4,1)
imshow(f)
title('original RGB image')
%rgb2gray
b=rgb2gray(f)
subplot(1,4,2)
imshow(b)
title('RGB to Grayscale')
%gray2ind
[c,maps]=gray2ind(b,64)
subplot(1,4,3)
imshow(c)
imagesc(c)
colormap(maps)
title('Grayscale to Indexed')
%ind2gray
d=ind2gray(c,maps)
subplot(1,4,4)
imshow(d)
title('Indexed to Grayscale')
```

