

Segmentation

Split an color image to its 3 RGB channels.

Read image from the link

```
c = imread('images.jpg');
```

activecontour method returns a binary image. The foreground is white (logical true) and the background is black(logical false)

```
I = rgb2gray(c);  
mask = zeros(size(I));  
mask(50:end-50,50:end-50) = 1;  
bw = activecontour(I,mask,300);
```

```
subplot(2,2,1);  
imshow(I)  
title('Original Image');
```

```
subplot(2,2,2);  
imshow(mask);  
title('Initial Contour Location');
```

```
subplot(2,2,3);  
imshow(bw);  
title('Segmented Image');
```

Original Image



Initial Contour Location



Segmented Image



Importance

Sometimes we need to get a specific object from a image. by this process we can split a object from its background.

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