
Subject: Re: label_region/histogram help
Posted by [David Fanning](#) on Tue, 03 Nov 2009 22:54:31 GMT
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Dave wrote:

```
> I need some help on an image I'm working on.  
>  
> I've got many regions that I've distinguished via LABEL_REGION and  
> looked at the population of the regions using HISTOGRAM. Most of  
> these regions have a population of less than 5 or so. For these  
> regions I have made the population zero by:  
>  
> im_pop = where(areas lt 5, numbers)  
> if numbers lt 5 then area[im_pop]=0  
>  
> After I've got the populations of my regions where I want, for the  
> most part, I need to get all the regions, including the 0 population  
> regions, back into pixel space for display. I cannot for the life of  
> me figure this out.
```

Presumably you have your original image, let's call it image.
I assume it is Long Integers.

You have your Label_Region result, call it labelRegion.

So, to restore the regions from your original images, you would
do something like this:

```
s = Size(image, /Dimensions)  
displayImage = LonArr(s[0], s[1])  
FOR j=1,Max(labelRegion)-1 DO BEGIN  
    thisRegion = Where(labelRegion EQ j, count)  
    IF count EQ 0 THEN Continue  
    displayImage[thisRegion] = image[thisRegion]  
ENDFOR  
TVImage, BytScl(displayImage)
```

This could be faster using the reverse indices to the Histogram
command, but *much* harder to explain. :-)

Cheers,

David

Subject: Re: label_region/histogram help

Posted by [david.b.valdez](#) on Fri, 06 Nov 2009 17:03:58 GMT

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On Nov 3, 3:54 pm, David Fanning <da...@dfanning.com> wrote:

```
> Dave wrote:
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> This could be faster using the reverse indices to the Histogram
> command, but *much* harder to explain. :-)
>
> Cheers,
>
> David
```

Thanks so much, that's exactly what I was looking for.

Dave
