Subject: Re: label_region/histogram help Posted by David Fanning on Tue, 03 Nov 2009 22:54:31 GMT View Forum Message <> Reply to Message

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 It 5, numbers)
- > if numbers It 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 orginal 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

```
On Nov 3, 3:54 pm, David Fanning <da...@dfanning.com> wrote:
> Dave wrote:
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      IF count EQ 0 THEN Continue
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    ENDFOR
>
    TVImage, BytScl(displayImage)
>
  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