
Subject: Identifying tags within a region

Posted by [ann\[1\]](#) on Fri, 20 Jan 2017 15:29:05 GMT

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Hi all,

Does anyone know how to retrieve the tags in a chosen region?

Using where condition I chose pixels (ref_ppix) that satisfy a certain condition.

This region have multiple number tags starting from 1.

The command I used is:

```
loc_p = where(id_chk[ref_ppix] gt 0)
```

Here, ref_ppix comes from one image and I collect loc_p in a different image id_chk, which returns locations that have tag > 0.

I want to know how many tags are there and the method to get those tags.

Any help would be appreciated.

Thanks,

Alice

Subject: Re: Identifying tags within a region

Posted by [Markus Schmassmann](#) on Fri, 20 Jan 2017 16:11:32 GMT

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On 01/20/2017 04:29 PM, Alice wrote:

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I'm not sure I understand what you want to do, but if I do, LABEL_REGION might be what you are looking for.

http://www.harrisgeospatial.com/docs/LABEL_REGION.html

Subject: Re: Identifying tags within a region
Posted by [ann\[1\]](#) on Fri, 20 Jan 2017 16:23:17 GMT
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On Friday, 20 January 2017 17:11:34 UTC+1, Markus Schmassmann wrote:

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Hi Markus,

I have two images that I already labelled with numbers.

Now, I chose a small region from image1 and want to get the tags in image2 that share the same spatial locations.

Alice

Subject: Re: Identifying tags within a region
Posted by [Matthew Argall](#) on Fri, 20 Jan 2017 18:36:51 GMT
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It is not clear to me what you are trying to do. Is this anything like what you need?

;Create two arrays of the same size but different values

img1 = bindgen(5,5)

img2 = bindgen(5,5)+10B

;Select a subset of points

ipos = where(img1 gt 6 and img1 lt 18, count)

;Show the pixels in img1 that I selected:

print, img1

```
0 1 2 3 4
5 6 7 8 9
10 11 12 13 14
15 16 17 18 19
20 21 22 23 24
print, img1[ipos]
7 8 9 10 11 12 13 14 15 16 17
```

;Now, to extract the same points in img2, just use the same indices

```
print, img2
10 11 12 13 14
15 16 17 18 19
20 21 22 23 24
25 26 27 28 29
30 31 32 33 34
print, img2[ipos]
17 18 19 20 21 22 23 24 25 26 27
```

Subject: Re: Identifying tags within a region

Posted by [Markus Schmassmann](#) on Mon, 23 Jan 2017 10:29:05 GMT

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On Friday, 20.01.2017 17:23 Alice wrote:

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> I have two images that I already labelled with numbers.

> Now, I chose a small region from image1 and want to get the tags in image2 that share the same spatial locations.

assuming labels1 & labels2 are arrays with unsigned integers

containing the labels for image1 & image2 respectively,

furthermore assuming these images have the same dimensions, I would try

something like this:

```
h1=histogram(labels1,min=0,reverse_indices=ri1)
max1=max(labels1)
nlabels=ulong(max1)
p1=ptrarr(max1,/allocate_heap)
for i=0,max1 do begin
    thisLabels=labels2[r1[r1[i]:r[i+1]-1]]
    u=uniq(thisLabels,sort(thisLabels))
    nlabels[i]=n_elements(u)-(u[0] eq 0)
    *p1[i]=u[(u[0] eq 0):-1]
endfor
```

This code is untested, if it does not work and you don't find the bug yourself, please send me some sample data, then I can do some debugging.

Good Luck, Markus

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