Subject: Re: color pixel by index
Posted by David Fanning on Mon, 24 Sep 2007 20:09:27 GMT
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rpertaub@gmail.com writes:

> i think this is a fairly easy problem to which i dunno the answer.
> Here goes:
>
> I have 3 images, and used where function 3 times to find 3 specific
> characterizations.
> mask1=where(image ge thresh1)
> mask2=where(image2 ge thresh2)
> mask 3=where(image3 ge thresh3)
>
> Now I have 3 sets of indices of pixels of my interest.
>
> I want to use image 4 and color pixels indices 1 red, indices 2= blue,
> indices 3=green.
>
> image[indices1]=red
> image[indices2]=blue
> image[indices3]=green
>
> How do I do that?

I would do it like this, since you may want to
see the overlap in the indices:

```
s = Size(image, /Dimensions)
nelem = N_Elements(image)
image4 = BytArr(s[0], s[1], 3]
image4[mask1] = 255B
image4[mask3 + nelem] = 255B
image4[mask2 + (nelem*2)] = 255B
TV, image4, True=3
```

This presumes all three image used to construct the masks
are the same size.

Cheers,

David
--
David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: http://www.dfanning.com/

Subject: Re: color pixel by index
Posted by rpertaub@gmail.com on Mon, 24 Sep 2007 20:41:22 GMT
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On Sep 24, 4:09 pm, David Fanning <da...@dfanning.com> wrote:
> rpert...@gmail.com writes:
>> i think this is a fairly easy problem to which i dunno the answer.
>> Here goes:
>
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> image4[mask1] = 255B
> image4[mask3 + nelem] = 255B
> image4[mask2 + (nelem*2)] = 255B
> TV, image4, True=3
>
> This presumes all three image used to construct the masks
> are the same size.
>
> Cheers,
>
> David
> --
> David Fanning, Ph.D.
> Fanning Software Consulting, Inc.
> Coyote's Guide to IDL Programming:http://www.dfanning.com/

Thanks so much!

However, this seems to combine the 3 masks onto one. I am trying to
use the 3 masks combined onto a 4th image which ...
i am essentially taking monochromator images at R,G,B and then color
image, and want to false color my image using the 3 masks...not sure
if I am making sense

Subject: Re: color pixel by index
Posted by David Fanning on Mon, 24 Sep 2007 21:00:58 GMT
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rpertaub@gmail.com writes:

> However, this seems to combine the 3 masks onto one. I am trying to
> use the 3 masks combined onto a 4th image which ...
> i am essentially taking monochromator images at R,G,B and then color
> image, and want to false color my image using the 3 masks...not sure
> if I am making sense

Not to me, you aren't. Perhaps someone else can translate. :-)

Cheers,

David
--
David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: http://www.dfanning.com/

Subject: Re: color pixel by index
Posted by David Fanning on Mon, 24 Sep 2007 21:04:58 GMT
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rpertaub@gmail.com writes:

> However, this seems to combine the 3 masks onto one. I am trying to
> use the 3 masks combined onto a 4th image which ...
> i am essentially taking monochromator images at R,G,B and then color
> image, and want to false color my image using the 3 masks...not sure
> if I am making sense

Maybe you just want image 4 to start out as image 4, and then
my example will work. Instead of this:

```
  image4 = Bytarr(s[0], s[1], 3)
```

Try this:

```
image4 = [[[image4]],[[image4]],[[image4]]]
```

Then, the rest of it.

Cheers,

David
--
David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: http://www.dfanning.com/

Subject: Re: color pixel by index
Posted by David Fanning on Mon, 24 Sep 2007 21:15:29 GMT
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David Fanning writes:

> Maybe you just want image 4 to start out as image 4, and then
> my example will work. Instead of this:
>
> image4 = Bytarr(s[0], s[1], 3)
>
> Try this:
>
> image4 = [[[image4]],[[image4]],[[image4]]]
>
> Then, the rest of it.

Oh, that won't work. How about this:

```
s = Size(image, /Dimensions)
nelem = N_Elements(image)
image4 = [[[image4]],[[image4]],[[image4]]]

image4[mask1] = 255B
image4[mask1 + nelem] = 0B
image4[mask1 + (nelem*2)] = 0B

image4[mask3] = 0B
image4[mask3 + nelem] = 255B
image4[mask3 + (nelem*2)] = 0B

image4[mask2] = 0B
image4[mask2 + nelem] = 255B
```

image4[mask2 + (nelem*2)] = 255B
TV, image4, True=3

Cheers,

David
--
David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: http://www.dfanning.com/

Subject: Re: color pixel by index
Posted by David Fanning on Mon, 24 Sep 2007 21:18:38 GMT
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David Fanning writes:

> image4[mask2] = 0B
> image4[mask2 + nelem] = 255B
> image4[mask2 + (nelem*2)] = 255B
> TV, image4, True=3

Whoops! Of course this should be:

image4[mask2] = 0B
image4[mask2 + nelem] = 0B
image4[mask2 + (nelem*2)] = 255B
TV, image4, True=3

--
David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: http://www.dfanning.com/

Subject: Re: color pixel by index
Posted by rpertaub@gmail.com on Mon, 24 Sep 2007 22:02:44 GMT
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On Sep 24, 5:18 pm, David Fanning <da...@dfanning.com> wrote:
> David Fanning writes:
>> image4[mask2] = 0B
>> image4[mask2 + nelem] = 255B
>> image4[mask2 + (nelem*2)] = 255B
>> TV, image4, True=3
>

> Whoops! Of course this should be:
>
> image4[mask2] = 0B
> image4[mask2 + nelem] = 0B
> image4[mask2 + (nelem*2)] = 255B
> TV, image4, True=3
>
> --
> David Fanning, Ph.D.
> Fanning Software Consulting, Inc.
> Coyote's Guide to IDL Programming:http://www.dfanning.com/

Thanks! I actually just started with: image4 = [[[image4]],[[image4]],
[[image4]]]
and did the rest as you mentioned initially and have exactly what I
want...thanks so much for the help and deciphering my cry for help!!
RP
