Subject: Re: bad column in image Posted by David Fanning on Wed, 03 Jun 2009 02:08:45 GMT View Forum Message <> Reply to Message

Amanda writes:

- > I'm trying to get a bad column out of an image by selecting the column
- > and then setting all values equal to the mean of the image (probably
- > not the best way to go about it, but I'm not very good at this). But
- > I'm having trouble selecting the column. No matter what row or column
- > number I put in, i.e. array=[1440,*], and then set those values to the
- > mean, it will only change the row on the top of the image. I'm
- > probably missing something very simple or doing something very stupid.

You're probably right. But it's very difficult to tell unless we see a few clues. :-)

Cheers.

David

--

David Fanning, Ph.D. Fanning Software Consulting, Inc.

Coyote's Guide to IDL Programming: http://www.dfanning.com/

Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Subject: Re: bad column in image Posted by Amanda on Wed, 03 Jun 2009 16:03:23 GMT View Forum Message <> Reply to Message

I was just using the where function, like this: arr(where(arr[1440,*] GT 1000))=mean(arr) but I don't know if that's how I should be doing it.

Amanda

On Jun 3, 3:08 am, David Fanning <n...@dfanning.com> wrote:

- > Amanda writes:
- >> I'm trying to get a bad column out of an image by selecting the column
- >> and then setting all values equal to the mean of the image (probably
- >> not the best way to go about it, but I'm not very good at this). But
- >> I'm having trouble selecting the column. No matter what row or column
- >> number I put in, i.e. array=[1440,*], and then set those values to the
- >> mean, it will only change the row on the top of the image. I'm
- >> probably missing something very simple or doing something very stupid.

```
You're probably right. But it's very difficult to tell
unless we see a few clues. :-)
Cheers,
David
--
David Fanning, Ph.D.
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Sepore ma de ni thui. ("Perhaps thou speakest truth.")
```

Subject: Re: bad column in image Posted by David Fanning on Wed, 03 Jun 2009 16:11:24 GMT View Forum Message <> Reply to Message

Amanda writes:

```
    I was just using the where function, like this: arr(where(arr[1440,*])
    GT 1000))=3Dmean(arr) but I don't know if that's how I should be doing it.
    No, that's not the way you should be doing it. :-)
    I would do it like this:
```

badcol = arr[1440,*] indices = Where(badcol GT 1000, count) IF count GT 0 THEN badcol[indices] = Mean(arr) arr[1440,*] = badcol

Using the mean of the array is sketchy. Perhaps some kind of interpolation method would be better:

http://www.dfanning.com/math_tips/easyinterp.html

Cheers,

David

__

David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: http://www.dfanning.com/
Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Subject: Re: bad column in image Posted by Jean H. on Wed, 03 Jun 2009 16:48:52 GMT

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Amanda wrote:

- > I was just using the where function, like this: arr(where(arr[1440,*]
- > GT 1000))=mean(arr) but I don't know if that's how I should be doing
- > it.

>

> Amanda

Amanda, pay close attention to the meaning of the index returned by the where function. In this call, you will have the index where the value is gt 1000 in your column of interest. arr[1440,*] is a 1D array. Then, with these index, you are applying them to arr, which is a 2D array. Therefore, you end up writing the mean value to the first LINE of your array...

Jean

Subject: Re: bad column in image Posted by Amanda on Fri, 05 Jun 2009 19:22:06 GMT View Forum Message <> Reply to Message

Ok, the interpolation sounds like a much better idea, but is "interpol" only for vectors? I tried using it with mine and only got a synthax error. I know there's also an "interpolation" function, but I have no idea how to use it.

Amanda

```
On Jun 3, 5:11 pm, David Fanning <n...@dfanning.com> wrote:
> Amanda writes:
>> I was just using the where function, like this: arr(where(arr[1440,*]
>> GT 1000))=3Dmean(arr) but I don't know if that's how I should be doing
>> it.
>
  No, that's not the way you should be doing it. :-)
>
> I would do it like this:
>
    badcol = arr[1440,*]
>
    indices = Where(badcol GT 1000, count)
>
    IF count GT 0 THEN badcol[indices] = Mean(arr)
    arr[1440,*] = badcol
>
> Using the mean of the array is sketchy. Perhaps some
```

- > kind of interpolation method would be better:
- http://www.dfanning.com/math_tips/easyinterp.html >
- > > Cheers,
- >

>

- > David
- > David Fanning, Ph.D.
- > Fanning Software Consulting, Inc.
- > Coyote's Guide to IDL Programming:http://www.dfanning.com/
- > Sepore ma de ni thui. ("Perhaps thou speakest truth.")