
Subject: Re: Extracting image profile?
Posted by [add](#) on Fri, 02 Jul 1993 12:48:15 GMT
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In article <1993Jul1.151614.13789@ousrvr.oulu.fi>, martin@phoenix.oulu.fi

(Martin Black) wrote:

>
> Being a fairly novice IDL user, I haven't been able to figure out how
> to extract an arbitrary profile of data values (as opposed to pixel values)
> from an image. The routine PROFILE returns pixel values (i.e., numbers in
> the range 0-255), but what I want is the actual values of the underlying
> data. Can anyone help me out?
>
> Thanks,
> Martin Black
> martin@hiisi.oulu.fi

How about just grabbing a slice of your image into another variable. Ex,

```
IDL>help,img
IMG  FLOAT = Array(512,512)
IDL>slice=img(*,128)
IDL>plot,slice
```

This will give you a plot of all of the 'x' values in line 128 (center line) of your image.

You could now write a very simple procedure to do this using the CURSOR command to determine either the 'x' or 'y' line you would like to plot.

Al Ducharme

\ | /
----- *
/ \ | \

"Science is a cruel mistress!"
-Unknown

Subject: Re: Extracting image profile?
Posted by [dieh2133](#) on Fri, 02 Jul 1993 13:20:19 GMT
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profiles will show the real values if used like this

byt=bytscl((dat).....)
tv,byt,px(0),py(0)
profiles,dat,sx=px(0),sy=py(0)
I that is what You wanted.

--
Mit freundlichen Gruessen
Rolf Diehl.

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|Tel 030-314-22889, Fax -23222, dieh2133@files1zrz.zrz.tu-berlin.de |

Subject: Re: Extracting image profile?
Posted by [dieh2133](#) on Fri, 02 Jul 1993 13:24:30 GMT
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PROFILES will do it if used like this:

byt=bytscl((dat),min=(mini),max=(maxi),top=30)
tv,byt,px(0),py(0)
profiles,dat,sx=px(0),sy=py(0)

--
Mit freundlichen Gruessen
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Subject: Re: Extracting image profile?
Posted by [rivers](#) on Fri, 02 Jul 1993 14:37:43 GMT
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In article <1993Jul1.151614.13789@ousrvr.oulu.fi> martin@phoenix.oulu.fi (Martin Black) writes:
> Being a fairly novice IDL user, I haven't been able to figure out how
> to extract an arbitrary profile of data values (as opposed to pixel values)
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> data. Can anyone help me out?
>
> Thanks,
> Martin Black

> martin@hiisi.oulu.fi

In general once you display an image on the screen you have lost the information about the underlying data, and so you can only retrieve the screen data values.

I have written a routine called IMG_SCL which is like TVSCL but does the following:

- By default it zooms and centers the image to maximally fill the window.
- One can specify the minimum and maximum values (i.e. black and white values)
- One can explicitly set zoom values in X and Y and centering information.
- It copies the input ("raw data") to a common block where my own version of a routine like PROFILE can get at it. Then when I extract profiles I can get back the original "RAW" data values, not just the screen pixel values.
- It allows zooming by pixel replication or by interpolation.

If interested I can mail you the required routines.

--

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Subject: Re: Extracting image profile?
Posted by [martin](#) on Tue, 06 Jul 1993 09:56:45 GMT
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Thanks to all those who responded to my original query...as I suspected, the solution to my problem was pretty simple and straightforward.

Martin Black
