
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=bytsc1((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.

|Dipl.-Ing. Rolf Diehl, TU Berlin, Institut fuer technische Akustik |
|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=bytsc1((dat),min=(mini),max=(maxi),top=30)
tv,byt,px(0),py(0)
profiles,dat,sx=px(0),sy=py(0)
```

--

Mit freundlichen Gruessen
Rolf Diehl.

|Dipl.-Ing. Rolf Diehl, TU Berlin, Institut fuer technische Akustik |
|Tel 030-314-22889, Fax -23222, dieh2133@files1zrz.zrz.tu-berlin.de |
|_____

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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> 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

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.

--

Mark Rivers	(516) 282-7708 or 5626
Building 815	rivers@bnlx26.nsls.bnl.gov (Internet)
Brookhaven National Laboratory	rivers@bnl (Bitnet)
Upton, NY 11973	BNLX26::RIVERS (Physnet)

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
