
Subject: Re: Image slicing

Posted by [davidf](#) on Tue, 24 Aug 1999 07:00:00 GMT

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Tim Lamont-Smith (tlsmith@dera.gov.uk) writes:

- > I have a 2D image which I want to take a slice through. What
- > I could do is use ROT to rotate my image so that I can then
- > plot one of the columns, but this is very unsatisfactory.
- >
- > What I would really like to be able to have is something a
- > little bit like LIVE_IMAGE, where it is possible to draw a
- > line on the image using the cursor, but then have the data
- > values along that line returned, and possibly have the
- > indices returned as well. CURSOR could be used, but then you
- > only get to guess the two endpoints and plot the line on the
- > image afterwards. BOX_CURSOR could also be used, and then
- > you have to imagine a line between the diagonals. I suspect
- > modifying BOX_CURSOR and calling it something like
- > LINE_CURSOR may be the best way.
- >
- > Does anyone have software to do this already ?
- > Does anyone else think that this would be a useful feature
- > for IDL to have ?

If you can't do this in 10 minutes after reading
these two articles, let me know. :-)

http://www.dfanning.com/tips/rubberband_widget.html

http://www.dfanning.com/tips/image_profile.html

Cheers,

David

--

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

Toll-Free IDL Book Orders: 1-888-461-0155

Subject: Re: Image slicing

Posted by [fireman](#) on Tue, 24 Aug 1999 07:00:00 GMT

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Tim Lamont-Smith (tlsmith@dera.gov.uk) wrote:

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: indices returned as well.

Tim -

I did this in 1993, IDL version 2. The procedure is heavily integrated into the calling application, and would take some work to make current and modular. If nobody else offers in a couple of days, I might just whip it into shape or send it to you as is.

Hint: I use XOR graphics for the "rubber band" line, CURSOR to get the endpoints in device coordinates, converted to data coords myself, and found the coords between endpoints myself.

--

-- Gwyn F. Fireman
-- General Sciences Corporation / MODIS Characterization Support Team
-- Gwyn.Fireman@gsfc.nasa.gov 301-352-2118

Subject: Re: Image slicing
Posted by [Tim Lamont-Smith](#) on Wed, 25 Aug 1999 07:00:00 GMT
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Gwyn Fireman wrote:

> Tim Lamont-Smith (tllsmith@dera.gov.uk) wrote:
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> into the calling application, and would take some work to make current and
> modular. If nobody else offers in a couple of days, I might just whip it
> into shape or send it to you as is.
>
> Hint: I use XOR graphics for the "rubber band" line, CURSOR to get the
> endpoints in device coordinates, converted to data coords myself, and
> found the coords between endpoints myself.

I wasn't familiar with XOR graphics, but it turned out to be straight forward

once I looked at BOX_CURSOR. I pretty much followed the route you outlined.
David Fannings tips on image profiles was also useful.

Thanks,

Tim

--

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