
Subject: Re: zoom into float image data?

Posted by [davidf](#) on Wed, 27 Sep 2000 07:00:00 GMT

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Pavel Romashkin (promashkin@cmdl.noaa.gov) writes:

> This is because you provided your name in the message. If all David saw
> was "amacphee@...", he'd probably refer you to the "Building IDL
> applications" manual, which would guide you away from any reasonable
> solution :-(

I'm tellin' ya. Signing your name is a good thing. :-)

Cheers,

David

P.S. But recommending people quote from books that
don't officially exist can get you into a LOT
of hot water. Especially with certain publishers. :-(

--

David Fanning, Ph.D.

Fanning Software Consulting

Phone: 970-221-0438 E-Mail: davidf@dfanning.com

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

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

Subject: Re: zoom into float image data?

Posted by [promashkin](#) on Wed, 27 Sep 2000 07:00:00 GMT

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amacphee@my-deja.com wrote:

> Many thanks; this has been the fastest, most direct solution I have
> received to a question in any newsgroup!
> Andrew

This is because you provided your name in the message. If all David saw
was "amacphee@...", he'd probably refer you to the "Building IDL
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Cheers,

Pavel

Subject: Re: zoom into float image data?

Posted by [amacphee](#) on Wed, 27 Sep 2000 07:00:00 GMT

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Excelent! I've had a quick look at your xstretch.pro and I think it will do the trick.

Many thanks; this has been the fastest, most direct solution I have received to a question in any newsgroup!

Andrew

In article <MPG.143bd9b381532cab989c3e@news.frii.com>, davidf@dfanning.com (David Fanning) wrote:

> Andrew (amacphee@my-deja.com) writes:

>

>> I've got arrays of float where the interesting data lies in a small range. For example, the raw data ranges from -123.45 to 5678.9, whilst the interesting stuff lies between 123.4 and 125.6. For each set

>> the interesting data is not necessarily in the same range.

>>

>> I'm trying to write something that:

>> 1) displays the image bytescaled;

>> 2) uses xloadct to stretch the colour table to home in on the

>> interesting data;

>> 3) re-bytescales the data with new min and max values determined from

>> the scaling of the colour table.

>> 4) Iterate 3 and 4 until I've zoomed in on the interesting data.

>>

>> I thought I could use the numbers on the stretch bars in xloadct as feedback to re-bytescale my input data, but these numbers aren't returned by xloadct. I then thought I could use tvlct to read the rgb

>> values after stretching, then use e.g. min(where(r>0)) and

>> max(where(r<255)) to find how much I had stretched the table.

However, I

>> expect I would need to do the same for green and blue and I can't see

>> then how this would correspond to the 'stretch' numbers in xloadct if

>> the colour table wasn't linear in all three colours.

>>

>> Then I wondered if anyone else had gone around this loop and maybe had

>> come up with a far slicker, tried and trusted solution :-)

>

> I think my XStretch program is made to order. :-)

>

> <http://www.dfanning.com/programs/xstretch.pro>
>
> You will need XColors too, if you want to change color
> tables:
>
> <http://www.dfanning.com/programs/xcolors.pro>
>
> Cheers,
>
> David
>
> --
> David Fanning, Ph.D.
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