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 applications" manual, which would guide you away from any reasonable solution :-(

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 necesserily 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. > 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

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David

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