Subject: Re: grev scale

Posted by davidf on Thu, 13 Aug 1998 07:00:00 GMT

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Harry Reisig (•hreisig@engin.umich.edu) writes:

- > We tried loadct, 0 but it is not publishing quality. Is there another
- > grey scale that give sharper images? We are trying to print color images,
- > which gives a lot of information that is lost in ct 0.

How, exactly, can this happen?

Cheers.

David

--

David Fanning, Ph.D.

Fanning Software Consulting E-Mail: davidf@dfanning.com

Phone: 970-221-0438, Toll Free Book Orders: 1-888-461-0155 Coyote's Guide to IDL Programming: http://www.dfanning.com/

Subject: Re: grey scale

Posted by David Foster on Thu, 13 Aug 1998 07:00:00 GMT

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Martin Schultz wrote:

>

> Harry Reisig wrote:

>>

- >> Howdy -
- >> Does anyone know if there is a grey-scale color table on IDL 5.0.2 (for
- >> PowerMac)? I need to publish some tvscl images (currently being viewed with
- >> color table 4) in grey-scale.
- >> I imagine that there is one posted somewhere, but I don't know where.
- >> Thanks
- >> Harry

You might find my GRAYSCALE.PRO routine useful; it creates a widget that allows you to adjust the grayscale interactively. This is part of a larger set of routines available at:

ftp://bial8.ucsd.edu pub/software/idl/share/idl_share.tar.gz

There is a README file describing each routine available. Each routine has a .doc documentation file, and you can view all of these

(once files have been extracted) using my LHELP.PRO program.

Dave

--

David S. Foster Univ. of California, San Diego Programmer/Analyst Brain Image Analysis Laboratory foster@bial1.ucsd.edu Department of Psychiatry (619) 622-5892 8950 Via La Jolla Drive, Suite 2240 La Jolla, CA 92037

Subject: Re: grey scale

Posted by Martin Schultz on Thu, 13 Aug 1998 07:00:00 GMT

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Harry Reisig wrote:

>

- > We tried loadct, 0 but it is not publishing quality. Is there another
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- > Thanks
- > Harry

[...]

Maybe you don't want a greyscale colortable after all !! If you want to print color images in black and white, you may get a more "natural" image using the colortable that comes with the image (assuming you read the image with read_tiff, read_gif or the likes). Then you simply have to produce a *color* postscript file and send it to a b/w printer;-)

Other than that, you can follow the approach I outlined in my earlier message and define the colortable yourself. You can create virtually anything, then convert it to a 0..255 byte array with bytscl and load it into the color table with tvlct. If you don't like linear grey scale you can use logarithmic, or you can play around with some arctan function, etc...

Martin.

Dr. Martin Schultz

Department for Earth&Planetary Sciences, Harvard University 109 Pierce Hall, 29 Oxford St., Cambridge, MA-02138, USA

phone: (617)-496-8318

fax: (617)-495-4551

e-mail: mgs@io.harvard.edu

Internet-homepage: http://www-as.harvard.edu/people/staff/mgs/

Subject: Re: grey scale

Posted by Richard G. French on Thu, 13 Aug 1998 07:00:00 GMT

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Harry Reisig wrote:

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- > grey scale that give sharper images? We are trying to print color images,
- > which gives a lot of information that is lost in ct 0.
- > Thanks
- > HarryA

Are you sure you are using 8 bits per pixel?

try doing

device,BIT=8

and see if that helps the quality of the PostScript output.

Dick French

Subject: Re: grey scale

Posted by Harry Reisig on Thu, 13 Aug 1998 07:00:00 GMT

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We tried loadct, 0 - but it is not publishing quality. Is there another grey scale that give sharper images? We are trying to print color images, which gives a lot of information that is lost in ct 0.

Thanks

Harry

In article <Saeid.Zoonematkermani-1308981200140001@ozone.ess.sunysb.edu>, Saeid.Zoonematkermani@sunysb.edu (Saeid Zoonematkermani) wrote:

- > In article <6qstk5\$38d@srvr1.engin.umich.edu>, "Harry Reisig"
- > <•hreisig@engin.umich.edu> wrote:

>> Howdy -

>> Does anyone know if there is a grey-scale color table on IDL 5.0.2 (for >> PowerMac)? I need to publish some tvscl images (currently being viewed with >> color table 4) in grey-scale. >> I imagine that there is one posted somewhere, but I don't know where. >> Thanks >> Harry > > Hi, > I just tried sending you a reply via e-mail and it bounced back. There > must be some thing wrong in your e-mail address. > Any way, the answer is that the default color table is grey scale so you > should not need to do any thing if you have just launched IDL. If you have > already specified another color table, try: > > IDL> loadct, 0 > Cheers, > - Saeid > Saeid Zoonematkermani > Dept. of Physics & Astronomy > State University of New York > Stony Brook, NY 11794-3800

Subject: Re: grey scale

> Voice: (+1) (516) 632-8237

Posted by Saeid.Zoonematkermani on Thu, 13 Aug 1998 07:00:00 GMT View Forum Message <> Reply to Message

Fax: (+1) (516) 632-8742

In article <6qstk5\$38d@srvr1.engin.umich.edu>, "Harry Reisig" <•hreisig@engin.umich.edu> wrote:

> EMail: Saeid.Zoonematkermani@sunysb.edu

- > Howdy -
- > Does anyone know if there is a grey-scale color table on IDL 5.0.2 (for
- > PowerMac)? I need to publish some tvscl images (currently being viewed with
- > color table 4) in grey-scale.
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Hi,

I just tried sending you a reply via e-mail and it bounced back. There must be some thing wrong in your e-mail address.

Any way, the answer is that the default color table is grey scale so you should not need to do any thing if you have just launched IDL. If you have already specified another color table, try:

IDL> loadct, 0

Cheers,

- Saeid

--

Saeid Zoonematkermani Dept. of Physics & Astronomy State University of New York Stony Brook, NY 11794-3800

EMail: Saeid.Zoonematkermani@sunysb.edu

Voice: (+1) (516) 632-8237 Fax: (+1) (516) 632-8742

Subject: Re: grey scale

Posted by Martin Schultz on Thu, 13 Aug 1998 07:00:00 GMT

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Harry Reisig wrote:

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- > Does anyone know if there is a grey-scale color table on IDL 5.0.2 (for
- > PowerMac)? I need to publish some tvscl images (currently being viewed with
- > color table 4) in grey-scale.
- > I imagine that there is one posted somewhere, but I don't know where.
- > Thanks
- > Harry

should be colortable 0 (at least this is the number for Unix). If loadct,0 does not work, try the following

```
cvec = bytscl(indgen(!D.N_COLORS),top=255) ; create grey scale
tvlct,cvec,cvec,cvec ; store the color table
```

If you apply REVERSE() to bytscl, you will get colors from white to black.

Hope this helps,

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Dr. Martin Schultz

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e-mail: mgs@io.harvard.edu

Internet-homepage: http://www-as.harvard.edu/people/staff/mgs/

Subject: Re: grey scale

Posted by wmc on Fri, 14 Aug 1998 07:00:00 GMT

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Harry Reisig (•hreisig@engin.umich.edu) writes:

- > We tried loadct, 0 but it is not publishing quality. Is there another
- > grey scale that give sharper images? We are trying to print color images,
- > which gives a lot of information that is lost in ct 0.

I recently had what may be the same problem - (though its not an IDL colour table, I'm pretty sure, because I was printing in BW): colour indexes 0-255 are not all distinguishable on our laser printer. 252-254 are the same; 250-251 ditto, etc etc mostly in groups of 2. At the lower end, 0-15 and 16-31 are indistinguishable. They are also dithered, which is OK for the large boxes of my test-colours print, but if you tried to print a high-res image the dithering would probably get in the way. It looks to me like our laser printers fault - perhaps you have the same problem?

- William, just guessing again.

William M Connolley | wmc@bas.ac.uk | http://www.nbs.ac.uk/public/icd/wmc/Climate Modeller, British Antarctic Survey | Disclaimer: I speak for myself