## Subject: Re: log scale colorbar in IDL 8.0 Posted by pgrigis on Wed, 18 May 2011 15:28:18 GMT View Forum Message <> Reply to Message On May 18, 10:35 am, David Fanning <n...@idlcoyote.com> wrote: > Kim writes: >> Hello, >> I have just started using the new graphics routines in IDL 8.0/8.1 and >> am trying to incorporate them into an extensive set of customized >> plotting and image type routines. I am able to use the IMAGE function >> to display some log-normally distributed data, however I am unable to >> create a colorbar that reflects the log-transformed data. >> Here is a simplified example: >> : Read the data array >> ; Convert the scaled float array (using ALOG10) to a byte array >> im = IMAGE(bytedata) >> cb = >> COLORBAR(target=im,tickvalues=[0.01,0.03,0.1,0.3,1.0,3.0,10.0,30.0],tickname=['. >> 01','.03','.1','.3','1','3','10','30'], title='Log Data') > >> Some specific questions: >> 1) How do you scale the color bar so that it reflects the scaled data? >> 2) If tickvalues are supplied, can you also input ticknames? In the >> above example, the supplied ticknames are not used and instead the >> ticknames are derived from the tickvalues. The only way I have been >> able to use the ticknames is to remove the tickvalues keyword. >> 3) Is it possible to set minimum and maximum color or value ranges? >> For example, in one of my commonly used rgb tables, the 0 value is >> black and above 250 are various shades of gray. How do I set it so >> that mincolor=1 and maxcolor=250? >> 4) Is it possible to create a colorbar that is independent of some >> specified data? It would be very useful to be able to create a

> No takers!? I'd propose another contest to write a log-scaled color bar function

>> colorbar just using a user supplied data range instead of being >> directly linked to a specfic data field. There are times when I need >> to create stand alone colorbars and I can't figure out how to do this

> in the iTool style, but I'm not sure I could handle another three

months of complete silence. :-) >

>> with the COLORBAR function.

> > Cheers, >

- > David

- > David Fanning, Ph.D.
- > Fanning Software Consulting, Inc.
- > Coyote's Guide to IDL Programming:http://www.idlcoyote.com/
- > Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Do the coyote graphics commands have options to display images with logarithmic axes? If not, they should, it's a very useful feature...

Ciao, Paolo