
Subject: Re: modify colors in contour plots

Posted by [David Fanning](#) on Mon, 02 Apr 2012 22:10:31 GMT

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anil writes:

> I have a contour plot of temperature. My temperature range is 4-26
> celsius. I want to have the colors in the contour plot, such that I
> can use lots of colors for the ranges [4-8] and [8-15] . What i want
> to do is to give many colors to the range i want (4-8 celsius for my
> case) , a few colors for the range [8-15] and just a single color to
> [15-26] . How can i do this color distribution?

You could do it like this:

```
data = cgdemodata(2)
data = scale_vector(data, 4.0, 26.0)
levels = scale_vector(findgen(14), 4, 8)
levels = [levels, scale_vector(findgen(8), 8, 15)]
levels = levels[Uniq(levels)]
cgLoadCT, 27, NCOLORS=22, /Brewer
cgContour, data, LEVELS=levels, /Fill, C_Colors=Indgen(22), $
    Position=[0.1, 0.1, 0.9, 0.8]
cgContour, data, LEVELS=levels, /Overplot
cgColorbar, XTickV=[4, 11, 18, 25, 26], XTicks=4, $
    NColors=22, RANGE=[4,26], $
    TickNames=['4', '6', '8', '18', '26'], XMinor=0
END
```

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.")

Subject: Re: modify colors in contour plots

Posted by [anil](#) on Tue, 03 Apr 2012 19:58:55 GMT

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On Apr 3, 1:10 am, David Fanning <n...@idlcoyote.com> wrote:

> anil writes:

>> I have a contour plot of temperature. My temperature range is 4-26
>> celsius. I want to have the colors in the contour plot, such that I

>> can use lots of colors for the ranges [4-8] and [8-15] . What i want
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> Position=[0.1, 0.1, 0.9, 0.8]
> cgContour, data, LEVELS=levels, /Overplot
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> NColors=22, RANGE=[4,26], \$
> TickNames=['4', '6', '8', '18', '26'], XMinor=0
> END
>
> 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.")

Is there any other way of doing it without the cgcolorbar,
cgplots ,cg***?? Can't i just use contour and still do it? It was
working fine with contour except the colors but with the code above,
IDL gives:

% CONTOUR: Warning: Infinite plot range.
% CONTOUR: Warning: Infinite plot range.
% CONTOUR: Warning: Infinite plot range.

Subject: Re: modify colors in contour plots
Posted by [Brian Wolven](#) on Tue, 03 Apr 2012 20:12:46 GMT
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That is exactly why there is a cg* version. =)

Subject: Re: modify colors in contour plots
Posted by [David Fanning](#) on Tue, 03 Apr 2012 20:25:53 GMT
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anil writes:

- > Is there any other way of doing it without the cgcolorbar,
- > cgplots ,cg***?? Can't i just use contour and still do it?

Sure, of course. That's what cgContour et al use. You can roll your own. ;-)

- > It was
- > working fine with contour except the colors but with the code above,
- > IDL gives:
- > % CONTOUR: Warning: Infinite plot range.
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- > % CONTOUR: Warning: Infinite plot range.

Well, I don't know. When I run the program with the latest Coyote Library I get this output:

http://www.idlcoyote.com/misc/nonlinear_contour.png

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.")

Subject: Re: modify colors in contour plots
Posted by [David Fanning](#) on Tue, 03 Apr 2012 20:33:18 GMT
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Anil writes:

- > Is there any other way of doing it without the cgcolorbar,
- > cgplots ,cg***?? Can't i just use contour and still do it?

By the way, if you are unsure about how to do this with traditional IDL commands, this book explains it all in detail:

<http://www.idlcoyote.com/books/index.php>

I'm not trying to hide anything from you. ;-)

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

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

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