
Subject: Re: colorbar question

Posted by [David Fanning](#) on Tue, 17 Apr 2012 12:56:40 GMT

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zolile mtumela writes:

> I am looking for help and advices. I am plotting map showing cities. I
> would like put different colors in these cities that correspond with a
> colorbar. The cities will have some values that should be display on
> the colorbar. I red some staff on this but I am not winning, I spent
> all most a half month trying this, Please help me.
> I will have some values like this NAQ=2.2, STF=1.4, etc

You have been working on this for half a month, and it never once occurred to you to use a COLOR keyword on XYOUTS. Sigh... You must be a man of great faith, my friend!

I would do a couple of things. First, I would give your color bar a range that wasn't zero, so it would actually appear on your display.

Then, I would byte scale the values you plan to display in color.

Finally, I would use a COLOR keyword to indicate which color you want to use when you write the city name.

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: colorbar question

Posted by [zolile mtumela](#) on Tue, 17 Apr 2012 17:09:46 GMT

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On Apr 17, 2:56 pm, David Fanning <n...@idlcoyote.com> wrote:

> zolile mtumela writes:

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>> would like put different colors in these cities that correspond with a
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> city name.
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> Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Thank you!!

My problem is that, we have values between(1 to 5 mHz) lets say
(2.1, 2.3,2.5,2.9,3.3,4.2,..)that correspond to these cities/mag
stations. Each and every city has their value. I want a different
color for each city and display that color at the color with their
value. With xyouts,...,color=220, displays one color in all cities on
the map. I want different for these cities and also represent using
color bar.

please help

Thanks\

Zolile

Subject: Re: colorbar question

Posted by [David Fanning](#) on Tue, 17 Apr 2012 18:00:16 GMT

zolile mtumela writes:

> My problem is that, we have values between(1 to 5 mHz) lets say
> (2.1, 2.3,2.5,2.9,3.3,4.2,...)that correspond to these cities/mag
> stations. Each and every city has their value. I want a different
> color for each city and display that color at the color with their
> value. With xyouts,...,color=220, displays one color in all cities on
> the map. I want different for these cities and also represent using
> color bar.

Yes. Color 220 is a **particular** color in the color table. It is
always the **same** color! Suppose your city colors range from 1.1 to 5.8.
You could scale these colors into the 256 values of the color table
by doing something like this:

```
minCityClr = 1.1
maxCityClr = 5.8
XYOuts, ..., Color=BytScl(cityColor, MIN=minCityClr, MAX=maxCityClr)
```

Now, your colors will look something like this:

```
Print, BytScl(2.1, MIN=minCityClr, MAX=maxCityClr)
54
Print, BytScl(2.3, MIN=minCityClr, MAX=maxCityClr)
65
Print, BytScl(2.5, MIN=minCityClr, MAX=maxCityClr)
76
```

This way, you are at the mercy of your color table. So
I wouldn't do it this way. I would probably just make
a vector of colors with the right number of colors:

```
cityColors = ['red', 'green', 'purple', ...]
```

And do it in a loop:

```
FOR j=0,numCities-1 DO cgText, city_lon[j], city_lat[j], $
    city_name[j], Color=cityColors[j]
```

And, yeah, I'd be using Coyote Graphics routines. :-)

Cheers,

David

--

David Fanning, Ph.D.

Subject: Re: colorbar question
Posted by [zolile mtumela](#) on Tue, 17 Apr 2012 18:29:49 GMT
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On Apr 17, 8:00 pm, David Fanning <n...@idlcoyote.com> wrote:

```
> zolile mtumela writes:
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>> (2.1, 2.3,2.5,2.9,3.3,4.2,...)that correspond to these cities/mag
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>
> Now, your colors will look something like this:
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>
```

> And, yeah, I'd be using Coyote Graphics routines. :-)
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> Cheers,
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> David
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> Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Thank you a lot. I will study this program!!

Subject: Re: colorbar question
Posted by [David Fanning](#) on Tue, 17 Apr 2012 18:40:03 GMT
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zolile mtumela writes:

> Thank you a lot. I will study this program!!

OK, when you are finished with that, I have more material for you. ;-)

Cheers,

David

--
David Fanning, Ph.D.
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Subject: Re: colorbar question
Posted by [zolile mtumela](#) on Wed, 18 Apr 2012 07:35:33 GMT
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On Apr 17, 8:40 pm, David Fanning <n...@idlcoyote.com> wrote:

> zolile mtumela writes:

>> Thank you a lot. I will study this program!!

>

> OK, when you are finished with that, I have more material for you. ;-)

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> Cheers,
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Thank you so much again.
So far I managed to use different colors for these cities, now I am
studying about colorbar so that I can use these color city there!!
Many thanks
Zolile

Subject: Re: colorbar question
Posted by [David Fanning](#) on Wed, 18 Apr 2012 12:13:54 GMT
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zolile mtumela writes:

> So far I managed to use different colors for these cities, now I am
> studying about colorbar so that I can use these color city there!!

If you don't have too many cities, I would use the discrete
color bar, cgDCBar, to label these colors. You could also
use the DISCRETE keyword with cgColorbar, but this is
better for labeling a range of values as a particular
color.

Cheers,

David

--
David Fanning, Ph.D.
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Subject: Re: colorbar question

Posted by [zolile mtumela](#) on Fri, 20 Apr 2012 06:38:47 GMT

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On Apr 18, 2:13 pm, David Fanning <n...@idlcoyote.com> wrote:

> zolile mtumela writes:
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> Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Thank you David again

I am getting there with your assistance, I used cgDCBar and labels,
work very well.

many thanks

Zolile

Subject: Re: colorbar question

Posted by [zolile mtumela](#) on Wed, 02 May 2012 13:43:38 GMT

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On Apr 20, 8:38 am, zolile mtumela <zolilemtum...@gmail.com> wrote:

> On Apr 18, 2:13 pm, David Fanning <n...@idlcoyote.com> wrote:
>
>
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>
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>
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>
> Thank you David again
> I am getting there with your assistance, I used cgDCBar and labels,
> work very well.
> many thanks
> Zolile

Hi David

I am looking for help and suggestions, in this program, i want to put boxes next to these cities and these boxes must have different colors as colorbar/cities.

There idea for this program is , I want to show two or more things/ values in one city, which will correspond with colorbar.

Your help is highly appreciated.

Many thanks

Zolile
