Subject: Re: colorbar question
Posted by David Fanning on Tue, 17 Apr 2012 12:56:40 GMT
View Forum Message <> Reply to Message

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
View Forum Message <> Reply to Message

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

- > 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.")

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.

Posted by zolile mtumela on Tue, 17 Apr 2012 18:29:49 GMT

Subject: Re: colorbar question

```
View Forum Message <> Reply to Message
On Apr 17, 8:00 pm, David Fanning <n...@idlcoyote.com> wrote:
> 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:
>
    minCityCIr = 1.1
>
    maxCityCIr = 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)
>
>
    Print, BytScl(2.3, MIN=minCityClr, MAX=maxCityClr)
>
    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[i], Color=cityColors[i]
>
```

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

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

View Forum Message <> Reply to Message

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.

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 Wed, 18 Apr 2012 07:35:33 GMT

View Forum Message <> Reply to Message

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. :-)

>

> 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.")

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

View Forum Message <> Reply to Message

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.

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 Fri, 20 Apr 2012 06:38:47 GMT

View Forum Message <> Reply to Message

On Apr 18, 2:13 pm, David Fanning <n...@idlcoyote.com> wrote:
> 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.
- > Fanning Software Consulting, Inc.
- > Coyote's Guide to IDL Programming:http://www.idlcoyote.com/
- > Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Thank you David again

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

many thanks

Zolile

Subject: Re: colorbar question
Posted by zolile mtumela on Wed, 02 May 2012 13:43:38 GMT
View Forum Message <> Reply to Message

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

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

> > >

>

>

> >

>

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

- > Thank you David again
- > I am getting there with your assistance, I used cgDCBar and lebels,
- > 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