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Subject: colorbar inside the plot

Posted by [kisCA](#) on Wed, 01 Jun 2011 19:31:04 GMT

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Hi there,

I got this code which plot what i want but doesn't put the colorbar outside of the plot as it used to... Any Ideas?

```
nlevels = 20
levels = -100+indgen(20)*10
pos = [0.1, 0.1, 0.9, 0.75]
LoadCT, 33, NColors=nlevels, Bottom=1
lonW=0    & lonE=360    & latS=-20 & latN=90 &
limitplot=[latS,lonW,latN,lonE]
map_set,/orthographic,34.5,-117.7,limit=limitplot
PS_start,filename='testpv.ps',/nomatch,charsize=0.8
cgcontour, pv,lon,lat, NLevels=nlevels,levels=levels, /
cell_Fill,C_Colors=Indgen(nlevels)
+1,xrange=[-180,179],xstyle=1,Position=pos,charsize=1,/close d,/
overplot
map_continents & map_grid
cgcolorbar, RANGE=[-100,100],NColors=nlevels, Bottom=1,
Format='(F0.1)',Divisions=nlevels/2, XMinor=0
Ps_end,/png
```

Thanks

Cheers

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Subject: Re: colorbar inside the plot

Posted by [kisCA](#) on Wed, 01 Jun 2011 20:06:24 GMT

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On Jun 1, 12:57 pm, David Fanning <n...@idlcoyote.com> wrote:

> kisCA writes:

>> In fact, it's more a pb with cgcontour and position than the colorbar

>> pb. I should have said that i tried to move/change the cgcontour plot

>> while changing the pos array but nothing moves...

>

> Nothing moves when you do what? What have you tried?

>

> 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.")

when i change a value in pos (which i use in position in cgcontour).

I started with pos = [0.1, 0.1, 0.9, 0.75] and change it in pos = [0.1, 0.1, 0.4, 0.75] but it doesn't change anything on the plot

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Subject: Re: colorbar inside the plot

Posted by [David Fanning](#) on Wed, 01 Jun 2011 20:28:47 GMT

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kisCA writes:

- > when i change a value in pos (which i use in position in cgcontour).
- >
- > I started with pos = [0.1, 0.1, 0.9, 0.75] and change it in pos =
- > [0.1, 0.1, 0.4, 0.75] but it doesn't change anything on the plot

Humm. Do you know for a fact that these values are being passed to cgContour? How would you test that? How would cgContour act if it never saw these values?

Cheers,

David

--

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Fanning Software Consulting, Inc.

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

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Subject: Re: colorbar inside the plot

Posted by [David Fanning](#) on Wed, 01 Jun 2011 20:39:30 GMT

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David Fanning writes:

- >> when i change a value in pos (which i use in position in cgcontour).
- >>
- >> I started with pos = [0.1, 0.1, 0.9, 0.75] and change it in pos =

>> [0.1, 0.1, 0.4, 0.75] but it doesn't change anything on the plot  
>  
> Humm. Do you know for a fact that these values are being  
> passed to cgContour? How would you test that? How would  
> cgContour act if it never saw these values?

Oh, never mind. I just looked at your code again. It is not cgContour that is creating the plot space. cgContour is just drawing contours on a plot space that already exists. So you are right, the POSITION keyword is doing nothing, as it should when the OVERPLOT keyword is set.

What command should you set the POSITION keyword on to make it do some good in your program?

Cheers,

David

--

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Fanning Software Consulting, Inc.  
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Subject: Re: colorbar inside the plot  
Posted by [kisCA](#) on Thu, 02 Jun 2011 02:51:53 GMT  
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Yes the problem come from overplot and i don't understand well the map\_projection, continents and grid...

I just want to have some space above the drawing to put the colorbar.

Thanks

---

Subject: Re: colorbar inside the plot  
Posted by [David Fanning](#) on Thu, 02 Jun 2011 03:03:44 GMT  
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kisCA writes:

> Yes the problem come from overplot and i don't understand well the

> map\_projection, continents and grid...  
>  
> I just want to have some space above the drawing to put the colorbar.

Well, you just named three possibilities for doing so.  
Have you tried any of them? :-)

Here is a suggestion. Stop doing all your plotting in PostScript. Draw your plots on the display where you can see what is happening, and try stepping through your code one command at a time. It might be illuminating. When you understand what your code does, \*then\* send it to a PostScript file.

Cheers,

David

--

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Subject: Re: colorbar inside the plot  
Posted by [kisCA](#) on Thu, 02 Jun 2011 16:56:35 GMT  
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On Jun 1, 8:03 pm, David Fanning <n...@idlcoyote.com> wrote:

> kisCA writes:  
>> Yes the problem come from overplot and i don't understand well the  
>> map\_projection, continents and grid...  
>  
>> I just want to have some space above the drawing to put the colorbar.  
>  
> Well, you just named three possibilities for doing so.  
> Have you tried any of them? :-)  
>  
> Here is a suggestion. Stop doing all your plotting in  
> PostScript. Draw your plots on the display where you  
> can see what is happening, and try stepping through  
> your code one command at a time. It might be  
> illuminating. When you understand what your code  
> does, \*then\* send it to a PostScript file.  
>  
> 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.")

My bet, there is a position keyword in map\_set which is not detailed in IDL help but use in your book... I should have known now where to look first !!!

Thank you

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Subject: Re: colorbar inside the plot  
Posted by [David Fanning](#) on Thu, 02 Jun 2011 17:27:16 GMT  
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kisCA writes:

> My bet, there is a position keyword in map\_set which is not detailed  
> in IDL help but use in your book... I should have known now where to  
> look first !!!

Ah, well, I just looked for it in the IDL 7.0 on-line help.  
It's there, but you are right, it is NOT prominently displayed. (It is under the Graphics Keywords section.)

But, yes, you should look in my books first. Most of what I ever need to know is in one or the other of those books! Or, if not there, in an article on my web page. ;-)

Cheers,

David

--  
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Fanning Software Consulting, Inc.  
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