
Subject: contour overplotting

Posted by [abc](#) on Mon, 14 Mar 2011 10:57:30 GMT

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Dear All,

I am having a small trouble in making contour overplotting . Here I am reading two different data set with different values. I want to make a contour plot of the first data set and then want to over plot the contour of the second data set with different colors.

My question is that is it possible in IDL to overplot a contour plot on another contour plot with different colors. if yes then how. And if No then how I can overplot a contour plot on another contour plot with the same colors.

Thanks in advance

```
readcol, 'A.txt',skipline=3,x,y,z,f='f,f,f'
readcol, 'B.txt',skipline=3,x1,y1,z1,f='f,f,f'
DEVICE,DECOMPOSED =0
window,xs=600,ys=700
loadct,27
tvlct,0,0,0,255
!p.charsize=1.5
!p.multi=[0,1,2]
;=====
=====
contour,x<0.005,y,z,/irregular,c_label=[1,1,1,1,1],nlevels=572,/xst,/
yst,/fill,Position=[0.1, 0.1, 0.9, 0.80]
contour,x<0.005,y,z,/
irregular,c_label=[1,1,1,1,1],level=[0.0009,0.0012,0.0017],$
c_charsize=1.0,c_color=[0,0,255,255],/over
;=====
=====
contour,x1<0.005,y1,z1,/irregular,c_label=[1,1,1,1],nlevels=100,/xst,/
yst,/fill
contour,x1<0.005,y1,z1,/
irregular,c_label=[1,1,1,1],level=[0.0012,0.0015,0.0018],$
c_charsize=1.0,c_color=[0,0,255,255],/over
colorbar, BOTTOM=4,DIVISIONS=5,FORMAT='(f6.4)', POSITION=[0.18, 0.9,
0.9, 0.95], $
MAX=0.005, MIN=MIN(chi2)
;=====
=====
end
```

Subject: Re: contour overplotting
Posted by [David Fanning](#) on Tue, 15 Mar 2011 12:56:21 GMT
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abc writes:

> I have read contour Plot chapter from your new book.
> It is very helpful. But still I am not able to over-plot contours of
> the second data set i.e x1,y1,z1 on my first data set i.e x,y,z with
> different colors.
> Actually my main aim is to find the point of intersection of these two
> over plotted contour plots. I tried a lot but I don't know how to do
> that.

Well, I would do it something like this:

```
data_1 = cgDemoData(2)
x_1 = Scale_Vector(Findgen(41), 5, 20)
y_1 = Scale_Vector(Findgen(41), 5, 20)

data_2 = cgDemoData(3)
x_2 = Scale_Vector(Findgen(41), 0, 12)
y_2 = Scale_Vector(Findgen(41), 0, 12)

cgLoadCt, 4, /Brewer, /Reverse
cgContour, data_1, x_1, y_1, XRange=[0,20], $
  YRange=[0,20], /FILL, NLEVELS=12
cgContour, data_1, x_1, y_1, XRange=[0,20], $
  YRange=[0,20], /OVERPLOT, NLEVELS=12

cgLoadCt, 9, /Brewer, /Reverse
cgContour, data_2, x_2, y_2, XRange=[0,20], $
  YRange=[0,20], /FILL, NLEVELS=12, /OVERPLOT
cgContour, data_2, x_2, y_2, XRange=[0,20], $
  YRange=[0,20], /OVERPLOT, NLEVELS=12

END
```

You can see the result in this figure:

http://www.idlcoyote.com/misc/double_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: contour overplotting
Posted by [pgrigis](#) on Tue, 15 Mar 2011 14:42:21 GMT
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On Mar 15, 8:56 am, David Fanning <n...@idlcoyote.com> wrote:

> abc writes:

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>> It is very helpful. But still I am not able to over-plot contours of
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> x_1 = Scale_Vector(Findgen(41), 5, 20)
> y_1 = Scale_Vector(Findgen(41), 5, 20)
>
> data_2 = cgDemoData(3)
> x_2 = Scale_Vector(Findgen(41), 0, 12)
> y_2 = Scale_Vector(Findgen(41), 0, 12)
>
> cgLoadCt, 4, /Brewer, /Reverse
> cgContour, data_1, x_1, y_1, XRange=[0,20], $
>   YRange=[0,20], /FILL, NLEVELS=12
> cgContour, data_1, x_1, y_1, XRange=[0,20], $
>   YRange=[0,20], /OVERPLOT, NLEVELS=12
>
> cgLoadCt, 9, /Brewer, /Reverse
> cgContour, data_2, x_2, y_2, XRange=[0,20], $
>   YRange=[0,20], /FILL, NLEVELS=12, /OVERPLOT
> cgContour, data_2, x_2, y_2, XRange=[0,20], $
>   YRange=[0,20], /OVERPLOT, NLEVELS=12
>
> END
```

>

> You can see the result in this figure:

>

> http://www.idlcoyote.com/misc/double_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.")

I wonder if he instead wanted to have something like:

```
loadct,0  
tv!ct,255,0,0,2  
x=findgen(512)  
xx=x#(x*0+1)  
contour,xx  
contour,transpose(xx),c_color=2,/noerase
```

?

Ciao,
Paolo
