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**Subject:** Re: Help overplotting contours and surface  
Posted by [Wout De Nolf](#) on Mon, 31 May 2010 12:03:02 GMT  
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On Sun, 30 May 2010 14:12:43 -0700 (PDT), Virgil  
<chemical.rivas@gmail.com> wrote:

> How can I specify for that third contour to plot in the second panel,  
> and the surface right under it?

I think the SAVE keyword to SURFACE is used for this. From the help:

SURFACE, Z, /SAVE  
CONTOUR, Z, /NOERASE, /T3D , ZVALUE=...

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**Subject:** Re: Help overplotting contours and surface  
Posted by [Virgil](#) on Mon, 31 May 2010 16:05:32 GMT  
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On May 31, 5:03 am, Wox <s...@nomail.com> wrote:

> On Sun, 30 May 2010 14:12:43 -0700 (PDT), Virgil  
>  
> <chemical.riv...@gmail.com> wrote:  
>> How can I specify for that third contour to plot in the second panel,  
>> and the surface right under it?  
>  
> I think the SAVE keyword to SURFACE is used for this. From the help:  
>  
> SURFACE, Z, /SAVE  
> CONTOUR, Z, /NOERASE, /T3D , ZVALUE=...

Thanks for your response. However, if I graph the surface before the  
contour, the contour you cannot see the surface well. The contour  
needs to be plotted before the surface.

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**Subject:** Re: Help overplotting contours and surface  
Posted by [d.poreh](#) on Tue, 01 Jun 2010 09:12:07 GMT  
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On May 31, 5:03 am, Wox <s...@nomail.com> wrote:

> On Sun, 30 May 2010 14:12:43 -0700 (PDT), Virgil  
>  
> <chemical.riv...@gmail.com> wrote:  
>> How can I specify for that third contour to plot in the second panel,  
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> I think the SAVE keyword to SURFACE is used for this. From the help:  
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> SURFACE, Z, /SAVE  
> CONTOUR, Z, /NOERASE, /T3D , ZVALUE=...

How could we do similar with shade\_surf?  
shade\_surf,Z

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Subject: Re: Help overplotting contours and surface  
Posted by [Wout De Nolf](#) on Thu, 03 Jun 2010 08:41:36 GMT  
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How about this:

```
; Set up the data for the plots
z = SHIFT(DIST(50), 25, 15)
z = EXP(-(z/15)^2)

; Set up 2 columns and 1 row for graphs
!P.MULTI = [0, 2, 1]
; Overplot contours
CONTOUR, Z, /FILL, NLEVELS = 7
CONTOUR, Z, /FOLLOW, NLEVELS = 7, /OVERPLOT

; Overplot contour and surface
surfr
CONTOUR, Z, /T3D, ZVALUE = 0, /FILL, NLEVELS = 7
!P.MULTI[0]=1
SURFACE, Z, /NOERASE, /T3D

!P.MULTI = 0
```

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Subject: Re: Help overplotting contours and surface  
Posted by [Wout De Nolf](#) on Thu, 03 Jun 2010 08:48:19 GMT  
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On Tue, 1 Jun 2010 02:12:07 -0700 (PDT), Dave Poreh  
<d.poreh@gmail.com> wrote:

> How could we do similar with shade\_surf?

I'm not sure you can. I'd go for object graphics.

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