Subject: Re: plot & oplot
Posted by mperrin+news on Tue, 24 Aug 2004 00:58:26 GMT
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IDLmastertobe <shi_lee@hotmail.com> wrote:
> If I was to plot a 1-d function, and wanted to do an oplot on the same
> window, how would I hide sections of the oplot that goes underneath the
> plot. I eventually want to do multiple oplots and hide sections that fall
> underneath the previous oplot. Please help.

Just plot your functions from 'back' to 'front'. Each oplot will
overplot (hence the name!) everything that came before.

 - Marshall

Subject: Re: plot & oplot
Posted by Chris Lee on Tue, 24 Aug 2004 07:52:59 GMT
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In article <cge3ri$kq6$1@agate.berkeley.edu>, "Marshall Perrin"
<mperrin+news@cymric.berkeley.edu> wrote:

> IDLmastertobe <shi_lee@hotmail.com> wrote:
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>> window, how would I hide sections of the oplot that goes underneath the
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> Just plot your functions from 'back' to 'front'. Each oplot will
> overplot (hence the name!) everything that came before.
> - Marshall

Unless you want 'underneath' in the vertical axis sense, not the z-axis
sense.

You can use polyfill, with the background color, to block out anything
under the line you plot.

e.g
;some data
x=findgen(101)
y1=x
y2=100-x

plot, x,y1 ;the first data
;cover up everything underneath the second line
polyfill, [x, reverse(x)], [y2, replicate(min(y2),n_elements(x))],color=0

```
;plot the second line
oplot, x,y2
;replot the axis
plot, x, y1,/nodata,/noer
;
```

Chris

Subject: Re: plot & oplot
Posted by Paolo Grigis on Tue, 24 Aug 2004 08:16:48 GMT

Christopher Lee wrote:
> In article <cge3ri$kq6$1@agate.berkeley.edu>, "Marshall Perrin"
> <mperrin+news@cymric.berkeley.edu> wrote:
>
>
>
>> IDLmastertobe <shi_lee@hotmail.com> wrote:
>>
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>> overplot (hence the name!) everything that came before.
>> - Marshall
>
>
> Unless you want 'underneath' in the vertical axis sense, not the z-axis
> sense.
>
> You can use polyfill, with the background color, to block out anything
> under the line you plot.
>
> e.g
> ;some data
> x=findgen(101)
> y1=x
> y2=100-x
>
> plot, x,y1 ;the first data
> ;cover up everything underneath the second line
> polyfill, [x, reverse(x)], [y2, replicate(min(y2),n_elements(x))],color=0
> ;plot the second line
> oplot, x,y2

> ;replot the axis
> plot, x, y1,/nodata,/noer
> ;
>
> Chris

For simple plots, one could even try

plot,x,y1
oplot,x,y2>y1

Paolo