
Subject: Re: oplot with colours

Posted by [David Fanning](#) on Fri, 31 Jul 2009 04:07:25 GMT

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b.a writes:

- > 1) In my program, I need to plot several data on the same draw window.
- > I know that oplot does this but even for the first curve, I don't want
- > to use plot. Is there anyway that I ignore having plot for the first
- > one and then using oplot?

You don't have to draw a plot. But you do have to have some way of setting up the data coordinate system, so you have something to overplot *on*. Do you have an alternative method?

You can, of course, draw a plot in which nothing appears. This, basically, just sets up the data coordinate system for you:

```
Plot, [0,1], /NoData, YSTYLE=4, XSTYLE=4, XRange=[0,10], YRange=[0,1]
```

- > 2) For each curve, I want to have different colour and on the draw
- > window, I need to show that each colour represents which curve.

Well, you need a legend. You can probably find one ready-built in the IDL software libraries that can be found on the Internet, or you can just build your own legend with a combination of PLOTS and XYOUTS commands.

```
Plots, [0.1, 0.2], [0.85, 0.85], /Normal, Color=FSC_Color('red')
XYOUTS, 0.21, 0.84, /Normal, 'Red indicates danger'
Plots, [0.1, 0.2], [0.80, 0.80], /Normal, Color=FSC_Color('blue')
XYOUTS, 0.21, 0.79, /Normal, 'Blue indicates safety'
```

Cheers,

David

--

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

Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Subject: Re: oplot with colours
Posted by [b.a](#) on Fri, 31 Jul 2009 04:08:30 GMT
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On Jul 31, 1:29 pm, "b.a" <u4565...@anu.edu.au> wrote:

> Hi,
>
> I am writing a program (using IDL workbench) and I have two questions
> about plotting data. I appreciate if anyone can help.
>
> 1) In my program, I need to plot several data on the same draw window.
> I know that oplot does this but even for the first curve, I don't want
> to use plot. Is there anyway that I ignore having plot for the first
> one and then using oplot?
>
> 2) For each curve, I want to have different colour and on the draw
> window, I need to show that each colour represents which curve.
>
> Thank you
> Afra

I also want to remove the plot by clicking on a button. do we have anything like "diplot" to remove the selected curve?

Subject: Re: oplot with colours
Posted by [b.a](#) on Fri, 31 Jul 2009 06:22:24 GMT
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Thanks David, I used
Plot, [0,1], /NoData, YSTYLE=4, XSTYLE=4, X RANGE=[0,10], Y RANGE=[0,1]
and it fixed the first problem. But is there any way that I can
selectively remove the plotted curves? for example, by clicking the
button relevant to each curve, I want it to be off the draw window.

Cheers
Afra
