
Subject: Re: PLOTS in different windows with different RANGE
Posted by [Vince Hradil](#) on Thu, 23 Oct 2008 15:37:11 GMT
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On Oct 23, 10:21 am, "Karlo Janos" <idl.20.beam...@spamgourmet.com> wrote:

> Hi all!
>
> I'd like to plot data points with PLOTS in two different windows with
> different data ranges for the x-axis. The problem is that after the
> second window change (back to window 1) the range is that of window 2,
> so the data points vanish outside the coordinate system.
> I tried to set !X.RANGE manually after each window change, but that is
> not the solution.
> Any idea how to get that working?
> Best regards
>
> Karlo

I'd make an invisible plot to setup my coordinate system, then perform the PLOTS

```
plot, xvals, yvals, /nodata, xstyle=4, ystyle=4  
plots, foobar
```

Subject: Re: PLOTS in different windows with different RANGE
Posted by [David Fanning](#) on Thu, 23 Oct 2008 16:31:16 GMT
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Karlo Janos writes:

> I'd like to plot data points with PLOTS in two different windows with
> different data ranges for the x-axis. The problem is that after the
> second window change (back to window 1) the range is that of window 2,
> so the data points vanish outside the coordinate system.
> I tried to set !X.RANGE manually after each window change, but that is
> not the solution.
> Any idea how to get that working?

This is nearly identical to overplotting with !P.MULTI
set:

http://www.dfanning.com/tips/oplot_pmulti.html

The secret is saving the correct system variables.

Cheers,

David

--

David Fanning, Ph.D.

Coyote's Guide to IDL Programming (www.dfanning.com)

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

Subject: Re: PLOTS in different windows with different RANGE

Posted by [Karlo Janos](#) on Fri, 24 Oct 2008 07:07:09 GMT

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Vince Hradil wrote:

```
> I'd make an invisible plot to setup my coordinate system, then perform
> the PLOTS
>
> plot, xvals, yvals, /nodata, xstyle=4, ystyle=4
> plots, foobar
```

Thank you for this hint! /NODATA seems to be an easy way. But since I would have to call PLOT too often, the program is slowed down. Thus the trick of David Fanning might be the better choice in my case.

Regards

Karlo

Subject: Re: PLOTS in different windows with different RANGE

Posted by [Karlo Janos](#) on Fri, 24 Oct 2008 07:11:47 GMT

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```
> This is nearly identical to overploting with !P.MULTI
> set:
```

Indeed my first approach was plotting in a two column multi-plot. Then I saw, that the data disappears outside the coordinate system in one of the plots. So I tried two separate windows instead of the multi-plot. Unfortunately with the same result.

```
> The secret is saving the correct system variables.
```

Now I have learned from your example that it is not enough to save !X.RANGE only, but the whole !X. Thanks!

Best regards

Karlo

Subject: Re: PLOTS in different windows with different RANGE

Posted by [David Fanning](#) on Fri, 24 Oct 2008 12:01:24 GMT

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Karlo Janos writes:

> Now I have learned from your example that it is not enough to save
> !X.RANGE only, but the whole !X.

If you look at the CatCoord object in my Catalyst Library,
you will see that what is really needed is !X.CRANGE,
!X.S, and the !P.CLIP field. It took me nearly a year
to figure this out, and I paid dearly for the information,
but it is still easier to save all the plotting system
variables and be done with it. :-)

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

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

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