Subject: Re: oplot in normal coordinates?
Posted by davidf on Tue, 13 Jul 1999 07:00:00 GMT

Martin LUETHI (luthi@aura.ethz.ch) writes:

> Thank you for your answers! It is just confusing that the manual lists the
> /normal keyword for oplot, if it won't make any effect.

Oh, well. Keep in mind we are talking about computer software
documentation here. If there is one thing I've learned
over the years, it is that *anything* is likely to happen
when you start fooling around with software. You're lucky
if it even resembles the documentation. :-)

> How would you guess from this that this feature is not implemented?

I can't even guess how my programs *work* three
weeks after I write them!

Cheers,

David

--
David Fanning, Ph.D.
Fanning Software Consulting
Phone: 970-221-0438 E-Mail: davidf@dfanning.com
Coyote's Guide to IDL Programming: http://www.dfanning.com/
Toll-Free IDL Book Orders: 1-888-461-0155

Subject: Re: oplot in normal coordinates?
Posted by luthi on Tue, 13 Jul 1999 07:00:00 GMT

Thank you for your answers! It is just confusing that the manual lists the
/normal keyword for oplot, if it won't make any effect.

For illustration an excerpt from the online reference:

Normal Keyword

Indicates that the coordinates are in the normalized coordinate system and
range from 0.0 to 1.0.

When used with AXIS, CONTOUR, OPLOT, PLOT, SHADE_SURF, and SURFACE, indicates

that the Clip and/or Position coordinates are in the normalized coordinate
system and range from 0.0 to 1.0.

How would you guess from this that this feature is not implemented? By the
way: at least in PV-Wave the PLOT command understands the /normal keyword in
conjunction with the position keyword, which is the only way to make good
multiple plots (!p.multi is not flexible enough), especially a small plot (an
overview map) inside of a larger (data) plot.

Cheers

Martin

--
 ==
Martin Luethi   Tel. +41 1 632 40 92
Glaciology Section Fax. +41 1 632 11 92
VAW ETH Zuerich
CH-8092 Zuerich   mail luthi@vaw.baum.ethz.ch
Switzerland
 ==

Subject: Re: oplot in normal coordinates?
Posted by Harald Frey on Tue, 13 Jul 1999 07:00:00 GMT
View Forum Message <> Reply to Message

"Martin LUETHI GL A8.1 2-4092" wrote:

> Hello
>
> Just another problem with plotting: is it possible to oplot in normal
> coordinates?
>
> plot, [0],[0],xrange=[-1,1],yrange=[-1,1]
> oplot,[0.5],[0.5],psym=2,/normal
>
> plots the symbol at (0.5,0.5) in data coordinates instead of somewhere around
> (0,0), which would be the appropriate place in normal coordinates. Am I
> overlooking something?
>
> (btw.: PV-Wave 6.1, Solaris 2.6)
>

try this

plots,[0.5],[0.5],psym=2,/normal

Harald
hfrey@ssl.berkeley.edu

Subject: Re: oplot in normal coordinates?
Posted by davidf on Tue, 13 Jul 1999 07:00:00 GMT
View Forum Message <> Reply to Message

Martin LUETHI GL A8.1 2-4092 (luthi@aura.ethz.ch) writes:

> Just another problem with plotting: is it possible to oplot in normal
> coordinates?

No.

> plot, [0],[0],xrange=[-1,1],yrange=[-1,1]
> oplot,[0.5],[0.5],psym=2,/normal
>
> plots the symbol at (0.5,0.5) in data coordinates instead of somewhere around
> (0,0), which would be the appropriate place in normal coordinates. Am I
> overlooking something?

In IDL, at least, the OPLOT command doesn't allow the use
of the NORMAL keyword. But even if it did, it would probably
just ignore it in exactly the same way the PLOT command
ignores it. In other words, these three commands produce
identical results.

    PLOT, Findgen(11), /Data
    PLOT, Findgen(11), /Normal
    PLOT, Findgen(11), /Device

But what else would you expect? A plot is a plot.
It sets up scaling factors that tell you how to
display something in the display window. It is
these scaling factors (e.g., !X.S) that OPLOT pays
attention to.

If you really want to put a plot symbol in the middle
of the display, I would use the PLOTS command:

    PlotS, 0.5, 0.5, PSym=2, /Normal

PLOTS ignores PLOT system variables and does exactly
what you tell it to, in whatever coordinate system you
choose to use.

Cheers,

David

--
David Fanning, Ph.D.
Fanning Software Consulting
Phone: 970-221-0438 E-Mail: davidf@dfanning.com
Coyote's Guide to IDL Programming: http://www.dfanning.com/
Toll-Free IDL Book Orders: 1-888-461-0155