Subject: usersym keywords -- why?
Posted by Christopher Thom on Mon, 10 Nov 2008 23:04:17 GMT
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Hi all,

Debugging some code today, I discovered what I would consider to be strange behaviour. Although...maybe this is a "feature". Consider the following:

```
usersym, [-1, 0, 1, -1], [1, -1, 1, 1], thick = 20 plot, findgen(10), ps=8, thick = 2
```

Is there any reason why usersym accepts thickness and color keywords? And, more importantly, why the keywords passed to plot/oplot don't over-ride them?

I was using some symbols from the awesome symcat() library [thanks david!] when I discovered this. The only workaround I could come up with was to extend symcat() to accept and pass \_extra keywords to usersym...which now gives me the even more confusing:

```
plot, findgen(10), ps = symcat(11, thick = 20), thick = 2
```

If anyone can see a sane or (better!) elegant solution to the thickness madness I've been having all afternoon, I'd love to hear of it.

cheers chris

Subject: Re: usersym keywords -- why?
Posted by David Fanning on Tue, 11 Nov 2008 15:20:05 GMT
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## David Fanning writes:

- > Thus, I can't get them inside my program. But, that said,
- > I can understand some of Chris's confusion, because the
- > THICK keyword only applies to symbols I can create with
- > USERSYM. (Any symbol where I have to "lift the pen" to
- > draw cannot be created in USERSYM, such as a plus sign
- > or an asterisk.)

I guess I could draw a plus sign and an asterisk without lifting my pen, but not today. Too tedious and I have other work to do. Extra credit for anyone who works that out for me. :-)

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.")

Subject: Re: usersym keywords -- why?

Posted by R.Bauer on Tue, 11 Nov 2008 16:09:21 GMT

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## ----BEGIN PGP SIGNED MESSAGE-----

Hash: SHA1

## David Fanning schrieb:

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>

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- > lifting my pen, but not today. Too tedious and I have
- > other work to do. Extra credit for anyone who works that
- > out for me. :-)

>

> Cheers,

>

> David

Hi David

from our icgsym\_define\_symbols routine

there are some more complex symbols done also by x\_digisym which i can show later.

cheers

Reimar

```
1: BEGIN
                                        ;Plus sign
         yarr = [0, 0, 0, -1, 1] * psize
         xarr = [1, -1, 0, 0, 0] * psize
         fill = 0
       END
       2: BEGIN
                                         ;cross-plus
         yarr = [-1, 1, 0, 1, -1,0,1,-1,0,0,0] * psize
         xarr = [-1, 1, 0, -1, 1,0,0,0,0,1,-1] * psize
         fill = 0
       END
       3: BEGIN
                                        ;point
         yarr = [0,0] * psize
         xarr = [0,0] * psize
         fill = 0
       END
       4: BEGIN
                                        :Diamond
         yarr = [0, -1, 0, 1, 0] * psize
         xarr = [1, 0, -1, 0, 1] * psize
       END
       5: BEGIN
                                        ;Triangle
         xarr = [-1,0,1,-1]*psize
         yarr = [-1,1,-1,-1]*psize
       END
       6: BEGIN
                                        ;Square
         yarr = [1, -1, -1, 1, 1] * psize
         xarr = [1, 1, -1, -1, 1] * psize
       END
       7: BEGIN
                                        :Cross
         yarr = [-1, 1, 0, -1, 1] * psize
         xarr = [1, -1, 0, -1, 1] * psize
         fill = 0
       END
----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.5 (GNU/Linux)
Comment: Using GnuPG with SUSE - http://enigmail.mozdev.org
iD8DBQFJGa4v5aOc3Q9hk/kRApQ8AJ9GYObTTalmjZ2X4oXJDZpee4OXgACg q4Rl
y18T+1oSJCL5CPiamvUZIYE=
=45Hs
----END PGP SIGNATURE-----
```

Subject: Re: usersym keywords -- why?
Posted by Craig Markwardt on Tue, 11 Nov 2008 18:48:52 GMT
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On Nov 10, 6:04 pm, Christopher Thom <ct...@oddjob.uchicago.edu> wrote:

```
> Hi all,
Debugging some code today, I discovered what I would consider to be
strange behaviour. Although...maybe this is a "feature". Consider the
following:
usersym, [-1, 0, 1, -1], [1, -1, 1, 1], thick = 20
plot, findgen(10), ps=8, thick = 2
Is there any reason why usersym accepts thickness and color keywords? And,
more importantly, why the keywords passed to plot/oplot don't over-ride
them?
```

Well for example, sometimes I want a /FILLed symbol, but I don't want the whole plot to be a giant filled polygon.