Subject: Re: Two quick questions
Posted by rosentha on Thu, 08 Oct 1998 07:00:00 GMT
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On 8 Oct 1998 15:35:54 GMT,
Colin Rosenthal <rosentha@asp.hao.ucar.edu> wrote:
> 1) What happened to the libraries that used to be at
> http://xlr8.lpl.arizona.edu/idl.html
>
> 2) Does anyone have any nice collections of user plotting symbols I could
> steal.

Ok, found both at
http://www.astro.washington.edu/deutsch/idl/htmlhelp/index.h tml

--
Colin Rosenthal
High Altitude Observatory
Boulder, Colorado
rosentha@hao.ucar.edu

Subject: Re: Two quick questions
Posted by Martin Schultz on Fri, 09 Oct 1998 07:00:00 GMT
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Colin Rosenthal wrote:
>
> 1) What happened to the libraries that used to be at
> http://xlr8.lpl.arizona.edu/idl.html
>
> 2) Does anyone have any nice collections of user plotting symbols I could
> steal.
>
You can check out my function sym.pro (attached below).
Usage: plot,x,y,psym=sym(N)

Martin.

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 -- -------

```
 ;------------------------------------------------------------ --
;+
; NAME:
;       SYM
;
; PURPOSE:
;       define a standard sequence of plotting symbols
;
; CATEGORY:
;       utility
;
; CALLING SEQUENCE:
;       SYM, NUMBER
;
; INPUTS:
;       NUMBER    ->   symbol number
;
;              0 : dot
;              1 : filled circle
;              2 : filled upward triangle
;              3 : filled downward triangle
;              4 : filled diamond
;              5 : filled square
;              6 : open circle
;              7 : open upward triangle
;              8 : open downward triangle
;              9 : open diamond
;             10 : open square
;             11 : plus
;             12 : X
;             13 : star
;             14 : filled rightfacing triangle
;             15 : filled leftfacing triangle
;             16 : open rightfacing triangle
;             17 : open leftfacing triangle
;
; KEYWORD PARAMETERS:
;
; OUTPUTS:
;       function returns the symbol number to be used with PSYM= in the
;       PLOT command
;
; SUBROUTINES:
;
```

```
; REQUIREMENTS:
;
; NOTES:
;       This function produces a side effect in that the USERSYM procedure
;       is used to create a symbol definition. It's meant for usage within
;       the PLOT, OPLOT, etc. command
;
; EXAMPLE:
;       PLOT,X,Y,PSYM=SYM(0),SYMSIZE=3
;               produces a plot with dots (standard symbol 3)
;       FOR I=0,17 DO OPLOT,X+1,Y,PSYM=SYM(I),COLOR=I
;               overplots 17 curves each with its own symbol
;
; MODIFICATION HISTORY:
;       mgs, 22 Aug 1997: VERSION 1.00
;
;-
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; be used commercially or sold as part of a larger package,
; please contact the author to arrange payment.
; Bugs and comments should be directed to mgs@io.harvard.edu
; with subject "IDL routine sym"
 ;-------------------------------------------------------------- --


function sym,number

    on_error,2  ; return to caller


    if(n_elements(number) eq 0) then return,1  ; default



    result=8    ; default: return psym=8, i.e. user defined symbol

; define some help variables for
; circle :
    phi=findgen(32)*(!PI*2/32.)
    phi = [ phi, phi(0) ]


    case number of
```

```
 0  : result = 3    ; dot

 1  : usersym, cos(phi), sin(phi), /fill
                    ; filled circle

 2  : usersym, [ -1, 0, 1, -1 ], [ -1, 1, -1, -1 ], /fill
                    ; filled upward triangle

 3  : usersym, [ -1, 0, 1, -1 ], [  1, -1, 1, 1 ], /fill
                    ; filled downward triangle

 4  : usersym, [ 0, 1, 0, -1, 0 ], [ 1, 0, -1, 0, 1 ], /fill
                    ; filled diamond

 5  : usersym, [ -1, 1, 1, -1, -1 ], [ 1, 1, -1, -1, 1 ], /fill
                    ; filled square

 6  : usersym, cos(phi), sin(phi)
                    ; open circle

 7  : usersym, [ -1, 0, 1, -1 ], [ -1, 1, -1, -1 ]
                    ; open upward triangle

 8  : usersym, [ -1, 0, 1, -1 ], [  1, -1, 1, 1 ]
                    ; open downward triangle

 9  : usersym, [ 0, 1, 0, -1, 0 ], [ 1, 0, -1, 0, 1 ]
                    ; open diamond

10  : usersym, [ -1, 1, 1, -1, -1 ], [ 1, 1, -1, -1, 1 ]
                    ; open square

11  : result = 1    ; plus

12  : result = 7    ; X

13  : result = 2    ; star

14  : usersym, [ -1, 1, -1, -1 ], [1, 0, -1, 1 ], /fill
                    ; rightfacing triangle, filled

15  : usersym, [ 1, -1, 1, 1 ], [1, 0, -1, 1 ], /fill
                    ; leftfacing triangle, filled

16  : usersym, [ -1, 1, -1, -1 ], [1, 0, -1, 1 ]
                    ; rightfacing triangle, open

17  : usersym, [ 1, -1, 1, 1 ], [1, 0, -1, 1 ]
```

```
                ; leftfacing triangle, open

      else : begin
            print,'invalid symbol number - set to 1'
            result = 1
            end

   endcase

return,result
end
```

File Attachments

1) sym.pro, downloaded 77 times