Subject: Re: cursor,xi,yi,/normal
Posted by Spon on Thu, 03 Jul 2008 12:03:37 GMT
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On Jul 3, 12:23 pm, d.po...@gmail.com wrote:
> On Jul 3, 1:04 pm, Spon <christoph.b...@gmail.com> wrote:
>
>> On Jul 3, 11:40 am, David Fanning <n...@dfanning.com> wrote:
>
>>> Spon writes:
>>>> I was about to point Dave to David Fanning's ANNOTATEWINDOW, but I
>>>> can't get it to work, even after updating my Coyote library.
>
>>>> I get the following error:
>>>> % Attempt to call undefined procedure/function: 'COLORTOOL__DEFINE'.
>>>> % Error occurred at: ANNOTATEWINDOW 186
>
>>>> Searching David's site and the IDL helpfiles, I can't seem to find
>>>> mention of the ColorTool object class anywhere. What am I missing?
>
>>> Are you sure you are using the latest catalyst.sav version?
>>> I did, long ago, have a version out there there was missing
>>> this Catalyst Library object. But the latest appears to have
>>> it.
>
>>> I should probably update this, as I have made lots of changes
>>> lately, but I'm enjoying the beach this week. :-)
>
>>> Cheers,
>
>>> David
>>> --
>>> David Fanning, Ph.D.
>>> Fanning Software Consulting, Inc.
>>> Coyote's Guide to IDL Programming (www.dfanning.com)
>>> Sepore ma de ni thui. ("Perhaps thou speakest truth.")
>
>> Thanks, that's got it. Enjoy your holiday David!
>> C
>
> Chris
> i have got that error also. how we can fix it?
> Dave

I just fixed it by downloading the latest version of David's entire
library from
http://www.dfanning.com/programs/coyoteprograms.zip

Into a folder on my !Path

I guess I also restored the analyst.sav file, but I'm not sure if
that's necessary if you have everything set up right:
CD, [Coyote Library Folder]
RESTORE, 'analyst.sav'

Regards,
Chris

PS Here's a simple version of what I use to do what I think you want.
It's not efficient, with all those Wait calls and unnecessary
concatenations, but it works:

```
Function GraphArray, X, Y

Window, /Free, Title = $
  'Left click to store values, right click when done.'
WIndex = !Window

Loop:

Plot, X, Y
Cursor, xp, yp, /Data, /Down

 ; Right button or kill/change window to quit:
If !Mouse.Button Eq 4 Or !Window NE WIndex Then Begin
  Print, 'Returning.'
  If !Window Eq WIndex Then WDelete
  If N_elements(Array) Eq 0 Then Return, 0
  Return, Transpose(Array)
Endif

 ; Draw X where user clicked
OPlot, [0,xp], [0,yp], PSym=2

 ; Work out nearest point on graph line
XDiffs = Abs(X - xp)
YDiffs = Abs(Y - yp)
Diffs = XDiffs + YDiffs
Void = Min(Diffs, Index)
NX = X[Index]
NY = Y[Index]
NearPt = [ NX, NY ]

 ; Draw a diamond on actual datapoint stored to array.
OPlot, [0,NX], [0,NY], PSym=4
Wait, 1.5
```

```
 ; Store values
If N_Elements(Array) Eq 0 Then $
  Array = Transpose(NearPt) Else $
  Array = [Array, Transpose(NearPt)]

Goto, Loop

End
```