
Subject: Re: cursor,xi,yi,/normal
Posted by [Spon](#) on Thu, 03 Jul 2008 10:28:35 GMT
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On Jul 3, 10:11 am, d.po...@gmail.com wrote:

- > Folks
- > I want to get couple of (x,y)'s from a single plot. I know we can do
- > it by:
- > cursor,xi,yi,/normal
- > but what I want to do is selecting some(x,y) and putting them in an
- > array (2 dimensional array):
- > plot,x,f(x)->get (x,y)-> put them in an array -> when I close the
- > window then finish this.
- > Any help?
- > Dave

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?

Chris

Subject: Re: cursor,xi,yi,/normal
Posted by [David Fanning](#) on Thu, 03 Jul 2008 10:40:02 GMT
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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:
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- > % 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.")

Subject: Re: cursor,xi,yi,/normal

Posted by [Spon](#) on Thu, 03 Jul 2008 11:04:47 GMT

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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.

>

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> Cheers,

>

> David

> --

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> 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

Subject: Re: cursor,xi,yi,/normal

Posted by [d.poreh](#) on Thu, 03 Jul 2008 11:23:11 GMT

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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.

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> Thanks, that's got it. Enjoy your holiday David!

> C

Chris

i have got that error also. how we can fix it?

Dave

Subject: Re: cursor,xi,yi,/normal
Posted by [Spon](#) on Thu, 03 Jul 2008 12:03:37 GMT
[View Forum Message](#) <> [Reply to Message](#)

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.

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>>> --

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>>> 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
XDiff = Abs(X - xp)
YDiff = Abs(Y - yp)
Diffs = XDiff + YDiff
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

Subject: Re: cursor,xi,yi,/normal
Posted by [David Fanning](#) on Thu, 03 Jul 2008 12:13:08 GMT
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Spon writes:

- > 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'

It's "catalyst", rather than "analyst", but that's
the basic idea. :-)

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.")

Subject: Re: cursor,xi,yi,/normal
Posted by [Spon](#) on Thu, 03 Jul 2008 12:20:33 GMT
[View Forum Message](#) <> [Reply to Message](#)

On Jul 3, 1:13 pm, David Fanning <n...@dfanning.com> wrote:

- >
- > It's "catalyst", rather than "analyst", but that's
- > the basic idea. :-)

So if a catalyst makes things happen faster, does that mean an analyst
is *meant* to make things happen slower??

That explains a few things ;-)

Chris

Subject: Re: cursor,xi,yi,/normal
Posted by [d.poreh](#) on Thu, 03 Jul 2008 13:16:08 GMT
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On Jul 3, 2:20 pm, Spon <christoph.b...@gmail.com> wrote:
> On Jul 3, 1:13 pm, David Fanning <n...@dfanning.com> wrote:
>
>
>
>> It's "catalyst", rather than "analyst", but that's
>> the basic idea. :-)
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> So if a catalyst makes things happen faster, does that mean an analyst
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> Chris

Chris
thanks your cod works well.but which one is the output coordinate?
i put
print,array
but there is some error
any help?
D

Subject: Re: cursor,xi,yi,/normal
Posted by [Spon](#) on Thu, 03 Jul 2008 13:26:29 GMT
[View Forum Message](#) <> [Reply to Message](#)

On Jul 3, 2:16 pm, d.po...@gmail.com wrote:
>
> Chris
> thanks your cod works well.but which one is the output coordinate?
> i put
> print,array
> but there is some error
> any help?
> D

Save the entire chunk of code as 'grapharray.pro', compile it and call it as an IDL function:

```
Output = Grapharray(Xvalues, Yvalues)
```

When the program returns (after you right-click in the window), your array will be stored in the Output variable.

Also, this line:

```
Diffs = XDiffs + YDiffs
```

Should probably read:

```
Diffs = SQRT(XDiffs^2 + YDiffs^2)
```

Good luck,
Chris

Subject: Re: cursor,xi,yi,/normal

Posted by [d.poreh](#) on Thu, 03 Jul 2008 13:50:12 GMT

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On Jul 3, 3:26 pm, Spon <christoph.b...@gmail.com> wrote:

> On Jul 3, 2:16 pm, d.po...@gmail.com wrote:

>

>

>

>> Chris

>> thanks your cod works well.but which one is the output coordinate?

>> i put

>> print,array

>> but there is some error

>> any help?

>> D

>

> Save the entire chunk of code as 'grapharray.pro', compile it and call

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> When the program returns (after you right-click in the window), your

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>

> Should probably read:

```
> Diffs = SQRT(XDiffs^2 + YDiffs^2)
```

>

> Good luck,

> Chris

thanks Chris. it works very well
D
