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 arry):
- > 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:
- > % 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.")

Subject: Re: cursor,xi,yi,/normal Posted by Spon on Thu, 03 Jul 2008 11:04:47 GMT View Forum Message <> Reply to Message

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.")

Posted by d.poreh on Thu, 03 Jul 2008 11:23:11 GMT

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

```
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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.
>>> I get the following error:
>>> % Attempt to call undefined procedure/function: 'COLORTOOL__DEFINE'.
>>> % Error occurred at: ANNOTATEWINDOW
>
>>> 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.
>> Covote'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
```

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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
>>> 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

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??

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

Posted by d.poreh on Thu, 03 Jul 2008 13:16:08 GMT

Chris

```
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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. :-)
> 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
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
```

```
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:
```

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

```
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 View Forum Message <> Reply to Message

```
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
> 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

thanks Chris. it works very well D