
Subject: Re: Adding an annotation to an iTool programmatically
Posted by [Randall Skelton](#) on Wed, 25 May 2005 21:16:06 GMT
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You can get at what you want with the following:

```
iPlot, findgen(10), findgen(10)^2
```

```
idTool = itGetCurrent(TOOL=oTool)
```

```
idAnnotate = oTool->FindIdentifiers('*/ANNOTATION LAYER')
```

```
oAnnotate = oTool->getByIdentifier(idAnnotate)
```

```
oAnnotate -> add, obj_new('IDLitVisText', _STRING='I wish there were a  
manual that described this', ALIGNMENT=0.5, VERTICAL_ALIGNMENT=0.5,  
FONT_SIZE=14, LOCATION=[0.5,0.8])
```

Note that the annotation layer uses normalized coordinates while the visualization layer will use data coordinates. This means if you want to add titles, legends or other floating objects, use the annotation layer but if you want to output things that depend on the data (i.e. print formatted text corresponding to the x,y values for every 10th data point) then you may be best to add IDLitVisText objects directly to the visualization layer.

The above represents a general way of scripting iTools in that you first locate the identifier from the tree with FindIdentifiers and then either use a DoAction/DoSetProperty operation or grab the relevant object. Beyond using the IDs and then finding the object, below are a few other 'useful' commands that may be of use in your journey:

```
oWin = oTool->GetCurrentWindow()  
oView = oWin->GetCurrentView()  
oVisLay = oView->GetCurrentLayer()
```

You may want to poke around in:

```
$IDL_DIR/lib/itools/framework  
$IDL_DIR/lib/itools/component
```

The above points to where the real documentation is ;)

Cheers,
Randall

Subject: Re: Adding an annotation to an iTool programmatically

Posted by [btt](#) on Wed, 25 May 2005 21:28:12 GMT

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Benjamin Hornberger wrote:

> Hi all,

>

> the question below was posted by Mark Rivers on Nov 5, 2003, with no

> replies. I also want to add a plot title programmatically, so can

> anybody help by now? I am also backing the request for a keyword to add

> a title!

Perhaps you want VIEW_TITLE?

iplot, findgen(100), name='Plot A',view_title = 'View A'

Ben

Subject: Re: Adding an annotation to an iTool programmatically

Posted by [Benjamin Hornberger](#) on Wed, 25 May 2005 21:40:53 GMT

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Ben Tupper wrote:

> Benjamin Hornberger wrote:

>

>> Hi all,

>>

>> the question below was posted by Mark Rivers on Nov 5, 2003, with no

>> replies. I also want to add a plot title programmatically, so can

>> anybody help by now? I am also backing the request for a keyword to

>> add a title!

>

>

> Perhaps you want VIEW_TITLE?

>

> iplot, findgen(100), name='Plot A',view_title = 'View A'

>

> Ben

I can't find a keyword VIEW_TITLE for iPlot. There's a TITLE keyword, but that shows up only in the title bar of the window. There's a NAME keyword ("name for this visualization"), but I'm not sure what it is used for.

Thanks anyway :-)

Benjamin

Subject: Re: Adding an annotation to an iTool programmatically
Posted by [Benjamin Hornberger](#) on Wed, 25 May 2005 21:45:57 GMT
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Randall Skelton wrote:

```
> You can get at what you want with the following:
>
> iPlot, findgen(10), findgen(10)^2
>
> idTool = itGetCurrent(TOOL=oTool)
>
> idAnnotate = oTool->FindIdentifiers('*/ANNOTATION LAYER')
>
> oAnnotate = oTool->getByIdentifier(idAnnotate)
>
> oAnnotate -> add, obj_new('IDLitVisText', _STRING='I wish there were a
> manual that described this', ALIGNMENT=0.5, VERTICAL_ALIGNMENT=0.5,
> FONT_SIZE=14, LOCATION=[0.5,0.8])
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> Note that the annotation layer uses normalized coordinates while the
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> to add titles, legends or other floating objects, use the annotation
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> print formatted text corresponding to the x,y values for every 10th
> data point) then you may be best to add IDLitVisText objects directly
> to the visualization layer.
>
> The above represents a general way of scripting iTools in that you
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> oWin = oTool->GetCurrentWindow()
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> oVisLay = oView->GetCurrentLayer()
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> You may want to poke around in:
>
> $IDL_DIR/lib/itools/framework
> $IDL_DIR/lib/itools/component
>
> The above points to where the real documentation is ;)
>
> Cheers,
> Randall
>
```

Oh dear. I was already afraid that it wouldn't be just simple. But

thanks, I'll play with it.

Benjamin

Subject: Re: Adding an annotation to an iTool programmatically

Posted by [AEO](#) on Mon, 06 Jun 2005 22:09:23 GMT

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The VIEW_TITLE keyword is coming in the next version of IDL, v.6.2, due out this summer, and it will provide the functionality you are looking for. In the meantime, in IDL 6.1 this can be accomplished using the technique illustrated here :

<http://www.rsinc.com/codebank/search.asp?FID=308>

- AO
