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Subject: Re: Adding more to a Window.Save PDF page  
Posted by [Helder Marchetto](#) on Thu, 29 Jun 2017 07:14:20 GMT  
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On Friday, June 23, 2017 at 2:26:06 AM UTC+2, Dick Jackson wrote:

> Hi all,  
>  
> Here's a simplified explanation of what I'm doing with my widget application and Function  
Graphics, and what I'm having trouble with. I make a draw widget and use the Plot() function to  
make a plot, which the user can interact with:  
>  
> wDraw = Widget\_Window(...)  
>  
> ; after /Realizing widgets  
>  
> Widget\_Control, wDraw, GET\_VALUE=oWindow  
>  
> oWindow.Select  
>  
> oPlot = Plot(...)  
> oLegend = Legend(...)  
>  
> And I also have a Widget\_Table with other details.  
>  
> Once the user is happy with what is shown in the plot and the table, I'd like to provide a Print  
feature to make a PDF that shows both of those on one page.  
>  
> I know the table won't come automatically (I'll have to lay that out with TEXT() objects, which is  
fine), but is there a way I can use oPlot and oLegend (or simply, oWindow) as \*part\* of what I  
want on a PDF page and add other things to that page? I know that oWindow.Save, 'myfile.pdf'  
creates a lovely PDF page of the current state of the window (which contains the plot), but I want  
to add other things to the page.  
>  
> If I could make a new oPDFWindow object and add oPlot and oLabel to it, then add my table  
text objects, I could then do oPDFWindow.Save and I'm set.  
>  
> oWindow is a GraphicsWin object, which Help, /OBJECTS tells me has:  
>  
> Known Procedure Methods:  
> IDLITWINDOW::ADD  
>  
> ... so I tried:  
>  
> oPDFWindow = GraphicsWin()  
> oPDFWindow.Add, oPlot  
>  
> and I got:  
>

> % IDLGRMODEL::ADD: Invalid object reference: <ObjHeapVar434720>.  
>  
> ... as that Add method seems to be looking for regular "object graphics" objects.  
>  
> The Plot() function calls the procedure "Graphic" which goes down a pretty deep rabbit hole...  
Has anyone else been down there?  
>  
> Yes, I could make a routine to create the plots/legend, and call it once when I send it to screen  
and again when I send it to PDF, but I'd like to print to PDF the current state of the plots/legend,  
which the user may have customized on-screen.  
>  
> Other ideas? Thanks for reading.  
>  
> Cheers,  
> -Dick  
>  
> Dick Jackson Software Consulting Inc.  
> Victoria, BC, Canada --- <http://www.d-jackson.com>

Hi Dick,

I'm not sure if this would solve your problem, but I just faced a similar problem and I will try solving  
it this way. How about using the copyWindow() method?

I'm using function graphics and I have two widget\_window(s) with image and plot. I would like to  
export a movie of image+plot. Combining both in the same widget\_window is not an option  
because I cannot then export a single one of them. Therefore, I think that the only option is :

```
ww = window(dimensions=[2*nx,ny], /buffer)  
o1 = image(sourceObj1.copyWindow(), margin=0, layout=[2,1,1], current=ww)  
o2 = image(sourceObj2.copyWindow(), margin=0, layout=[2,1,2], current=ww)  
ww.save, myFileName
```

You can of course play with window dimensions and margin to get the right fit.  
I hope it helps.

Cheers,  
Helder

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