Subject: Re: Adding more to a Window.Save PDF page
Posted by Dick Jackson on Tue, 25 Jul 2017 18:35:17 GMT

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On Thursday, 29 June 2017 00:14:23 UTC-7, Helder wrote:
> 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

Thanks for the idea, Helder. (sorry for the delayed reply… when you posted, I was just getting ready to go away on holiday)

This might be handy, with the difference being that it would take a screen-resolution (and window size-dependent) snapshot, rather than a high-quality PDF. But that might be good enough.

Thanks again, Helder.

Cheers,
-Dick

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