
Subject: Re: Coyote Graphics PS/PDF output size/orientation
Posted by [Paul Levine](#) on Wed, 14 Aug 2013 00:33:37 GMT
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On 2013-08-14 00:07:34 +0000, David Fanning said:

> Paul Levine writes:

>

>> But when I output to PostScript or PDF, using either the Coyote
>> Graphics window "File" drop-down menu, or using cgControl,
>> Output='filename.ps/pdf', I end up with an 8.5 x 11 inch file with my
>> plot rotated 90 degrees counterclockwise. The aspect ratio of my plot
>> is correct, so if I rotate the page, everything looks good, except that
>> I have excess whitespace on either side. Also, I'd like to
>> programmatically create lots of PDF files as output, so having to
>> rotate each of them will be a bit cumbersome (I'm sure I can automate
>> that outside of IDL, but would prefer to learn how to do it right the
>> first time).

>>

>> Do I need to be wrapping my graphics commands with ps_start and ps_end
>> so that I can explicitly specify the /landscape keyword to ps_start?

>

>

> The output from a cgWindow takes on the aspect ratio of the window,
> since it assumes you want output that resembles as closely as possible
> what you are looking at in the window. So, the simple way to get a
> portrait aspect ratio in your PostScript and PDF output is to create a
> window with a portrait aspect ratio.

That much I understood from reading your explanation at
http://www.idlcoyote.com/cg_tips/cglandscape.php but in this case (and
I apologize if my original post was a bit confusing) I do NOT want a
portrait. I want the same landscape image that I have in the display
window (the same one that I get when I write to PNG), but I'm ending up
with a portrait-oriented PDF with a sideways graphic. The display
window and PNG output are the same, but the PDF output is rotated 90
degrees in terms of both the graphic and the aspect ratio.

>

> You can either grab the window and muscle it into the correct size, or
> you can make it the right size when you create it. Something like this:

>

> cgWindow, WXSize=600, WYSize=800
> cgPlot, cgDemodata(1), /AddCmd

>

> Or, something like this:

>

> cgPlot, cgDemoData(1), /Window, WXSize=600, WYSize=800
>
> Note that the latter command only works if there are no cgWindows
> currently on the display, since it uses whatever window is "open" or
> available, as normal IDL commands do.

I tried adding the WXSize and WYSize (though I used 800 for x and 600 for y because I am trying to get landscape output), but I still get the same result, i.e. PNG oriented correctly and PDF rotated 90 degrees.

But this brings up a somewhat-related question about PNG output. When I use WXSize=800 and WYSize=600 my PNG file ends up being 752 x 556 pixels, and the bottom of my x axis title is chopped off. Should I not be getting 800 x 600 pixels out? And is my truncated title indicative of some mistake on my part? The PDF file shows the entire x axis title, but of course the file itself is 8.5 x 11 inches.

> Make sure you got today's *afternoon* version. The version this morning
> was causing me some trouble after I made a change in cgPS2Raster. I had
> to revert back to the original file until I get the problem figured out.

Indeed, using the latest version.
