Subject: Re: Font size appearance in function graphics PNG and EPS output
Posted by chris_torrence@NOSPAM on Mon, 09 Dec 2013 19:20:42 GMT
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On Monday, December 9, 2013 11:32:49 AM UTC-7, Paul van Delst wrote:
> Hi Chris,
>
>
>
> Excellent, thanks. The "HEIGHT=500.0/96" tip is also useful - despite
>
> the strange line plotting.
>
>
>
> The EPS files are included inside LaTeX (and, in some cases, Word)
>
> documents. I've never tried embedding PDFs inside those (since the final
>
> result is to create a PDF for distro) but I'll give it a shot.
>
>
>
> cheers,
>
>
>
> paulv
>
>
>
> p.s. Schedule for 8.3.1 release?
>
>
>
> On 12/09/13 12:50, Chris Torrence wrote:
>
>> Hi Paul,
>
>>
>
>> Well, there are a couple of things going on. The PNG assumes that
>
>> your
>
> screen is 96 dots-per-inch, and scales the fonts accordingly. Since EPS
>
> is a vector format on a "piece of paper", you need to set your EPS width

>
> to match the PNG image width. Something like this:
>
>> p.save, 'test.eps', HEIGHT=500.0/96 ; height in inches However, there
>
>> is something wrong with our postscript code where it
>
> doesn't draw the plot lines correctly, so this isn't going to work, even
>
> in IDL 8.3.
>
>>
>
>> I'm not sure if you have to use EPS, but as a possible workaround,
>
>> you
>
> could use PDF output instead. If you do try PDF, you just need to make
>
> sure that you set the "paper" width to be the same as the png image.
>
> Something like this:
>
>>
>
>> x = DINDGEN(100)
>
>> y = (x/10.0d0)^2
>
>> p = PLOT(x,y, $
>
>> XTITLE='X axis title', $
>
>> YTITLE='Y axis title', $
>
>> TITLE ='Test plot title', $
>
>> FONT_SIZE=10)
>
>> p.save, 'test.png', HEIGHT=500
>
>> p.save, 'test.pdf', HEIGHT=500.0/96 ; height in inches
>
>>
>
>> I have logged the EPS issues as bug IDL-68997, and marked it for IDL
>
> 8.3.1. Sorry about the bug...

>
>>
>
>> -Chris
>
>> ExelisVIS
>
>>

Hi Paul,
One other tip - if you aren't trying to edit the EPS files, but you are just embedding them, then you might be better off just going straight to a bitmap file:
  p.save, 'test.png', BORDER=10, RESOLUTION=600 ; dots-per-inch
PNG is a pretty efficient file format, so your files won't be too large. You could even cut the resolution down to 300 depending upon the journal requirements.
I also tend to use the BORDER keyword when creating bitmap output. That way I don't have to worry about too much whitespace around the outside of my plots. But that is optional.

Cheers,
Chris
