Subject: Re: Plot Size difference
Posted by DavidF[1] on Fri, 21 Sep 2012 16:02:34 GMT
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Ian writes:

> I have two plot setups, and from what I can tell, the eps files should come out with plots exactly the same physical size, BUT of course they are not. Can anyone tell if I am missing something simple, or if there is a work around? I believe the first set of code produces plots about 1 square centimeter larger than the second code (for some reason that was not the case earlier this week, they matched nicely).

The different CHARSIZE used in the two plots is affecting the position of the plot (by manipulating the plot margins). You could use a POSITION keyword to
force the plot into the right place, regardless of the character sizes.

Cheers,

David

Subject: Re: Plot Size difference
Posted by Ian[2] on Fri, 21 Sep 2012 16:03:44 GMT
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On Friday, September 21, 2012 10:50:30 AM UTC-5, Ian wrote:
> Hello,
>
>
>
> I have two plot setups, and from what I can tell, the eps files should come out with plots exactly the same physical size, BUT of course they are not. Can anyone tell if I am missing something simple, or if there is a work around? I believe the first set of code produces plots about 1 square centimeter larger than the second code (for some reason that was not the case earlier this week, they matched nicely).
>
>
>
>
>
> Pro velocitycombo
>
> plotsym, 4, 1.4, /FILL
>
> set_plot, 'PS'
>
> device, filename='Ratio_Velocity.eps', /color, bits=8,xsize=7,ysize=9,yoffset=1.0, xoffset=1, /inches, /portrait,encapsulated=eps,_extra=_extra

```
>
>  !P.MULTI=[0,1,3,0,1]
>
>  !Y.OMARGIN=[3,0]
>
>  !y.style=1
>
>  !x.style=1
>
>  ;start with C+N data
>
>  y_C = [6.03, 6.15, 7.8, 20.9, 23.7]
>
>  x_C = [372, 592, 353, 583, 360]
>
>  yerr_C = [.496, 1.26, 1.27, 7.44, 6.08]
>
>  ploterror, x_C, y_C,yerr_C, type = 1, psym =8, xtitle='Solar Wind km/s', xrange =[300,650],
yrange=[1,100],xthick=2.2,ythick=2.2,thick=2.2,charsize=1.8, ytitle='C+N/OVII';title='Ratios vs
Velocity'
>
>  ;now Mg data
>
>  y_M = [.047, .26, .09, .25, .17]
>
>  x_M = [372, 592, 353, 583, 360]
>
>  yerr_M = [.006, .032, .021, .065, .0389]
>
>  ploterror, x_M, y_M,yerr_M, type =1, psym =8, xtitle='Solar Wind km/s', xrange =[300,650],
yrange=[.001,10],xthick=2.2,ythick=2.2,thick=2.2,charsize=1. 8, ytitle='Mg/OVII'
>
>  ;finally Si data
>
>  y_S = [.012, .257, .121, .3, .265]
>
>  x_S = [372, 592, 353, 583, 360]
>
>  yerr_S = [.002, .030, .025, .083, .052]
>
>  ploterror, x_S, y_S,yerr_S, type =1, psym =8, xtitle='Solar Wind km/s', xrange =[300,650],
yrange=[.001,10],xthick=2.2,ythick=2.2,thick=2.2,charsize=1. 8, ytitle='Si/OVII'
>
>  !P.MULTI=0
>
>  !Y.OMARGIN=[0,0]
>
>  device, /close
```

```
>
>  set_plot, 'X'
>
>  END
>
>
>
>  Pro Combo
>
>  plotsym, 8, /FILL
>
>  set_plot, 'PS'
>
>  device, filename='CN_Mg_Si_ratios3.eps', /color, bits=8,xsize=7,ysize=9,yoffset=1.0, xoffset=1,
/inches, /portrait,encapsulated=eps,_extra=_extra
>
>
>
>  !P.MULTI=[0,1,3,0,1]
>
>  !Y.OMARGIN=[3,0]
>
>  !y.style=1
>
>  !x.style=1
>
>  ;C+N data
>
>  y = [6.03, 6.15, 7.8, 20.9, 23.7]
>
>  x = [1.05, .465, .661, .167, .3]
>
>  yerr = [.496, 1.26, 1.27, 7.44, 6.08]
>
>  xerr = [.023, .048, .021, .0878, .0583]
>
>  ploterror, x, y, xerr, yerr, type = 3, xtitle='OVIII/OVII', ytitle='C+N/OVII', psym=8,
xrange=[0.05,2.], yrange=[1,100], xthick=2.2,ythick=2.2,thick=2.2,charsize=2.2
>
>  ;Mg data
>
>  yy = [.047, .26, .09, .25, .17]
>
>  xx = [1.05, .465, .661, .167, .3]
>
>  yyerr = [.006, .032, .021, .065, .0389]
>
>  xxerr = [.023, .048, .021, .0878, .0583]
```

>
> ploterror, xx, yy, xxerr, yyerr, type=3, xtitle="OVIII/OVII", ytitle="Mg/OVII", psym = 8, xrange=[.05,2], yrange=[.001,10], xthick=2.2,ythick=2.2,thick=2.2,charsize=2.2
>
> ;Si Data
>
> yyy = [.012, .257, .121, .3, .265]
>
> xxx = [1.05, .465, .661, .167, .3]
>
> yyyerr = [.002, .031, .025, .083, .0522]
>
> xxxerr = [.023, .048, .021, .0878, .0583]
>
> ploterror, xxx, yyy, xxxerr, yyyerr,type = 3, xtitle='OVIII/OVII', ytitle='Si/OVII', psym=8, xrange=[0.05,2.], yrange=[0.001,10], xthick=2.2,ythick=2.2,thick=2.2,charsize=2.2
>
> !P.MULTI=0
>
> !Y.OMARGIN=[0,0]
>
> device, /close
>
> set_plot, 'X'
>
> End
>
>
>
>
>
> Thanks Much
>
> Ian

Scratch that, problem solved!

Subject: Re: Plot Size difference
Posted by DavidF[1] on Fri, 21 Sep 2012 16:04:12 GMT
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>> I have two plot setups, and from what I can tell, the eps files should come out with plots exactly the same physical size, BUT of course they are not. Can anyone tell if I am missing something simple, or if there is a work around? I believe the first set of code produces plots about 1 square centimeter larger than the second code (for some reason that was not the case earlier this week, they matched nicely).
>

>
>
> The different CHARSIZE used in the two plots is affecting the position of the plot (by manipulating the plot margins). You could use a POSITION keyword to
> force the plot into the right place, regardless of the character sizes.

Oh, wait, you are doing multiple plots. Yeah, you're hosed unless you use the same Character sizes. :-)

Cheers,

David

Subject: Re: Plot Size difference
Posted by Ian[2] on Fri, 21 Sep 2012 16:05:44 GMT
View Forum Message <> Reply to Message

On Friday, September 21, 2012 11:02:34 AM UTC-5, Coyote wrote:
> Ian writes:
>
>
>
>> I have two plot setups, and from what I can tell, the eps files should come out with plots exactly the same physical size, BUT of course they are not. Can anyone tell if I am missing something simple, or if there is a work around? I believe the first set of code produces plots about 1 square centimeter larger than the second code (for some reason that was not the case earlier this week, they matched nicely).
>
>
>
> The different CHARSIZE used in the two plots is affecting the position of the plot (by manipulating the plot margins). You could use a POSITION keyword to
>
> force the plot into the right place, regardless of the character sizes.
>
>
>
> Cheers,
>
>
>
> David

Thanks David, I just noticed that a second ago.

Subject: Re: Plot Size difference
Posted by Ian[2] on Fri, 21 Sep 2012 16:07:39 GMT
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On Friday, September 21, 2012 11:05:46 AM UTC-5, Ian wrote:
> On Friday, September 21, 2012 11:02:34 AM UTC-5, Coyote wrote:
>
>> Ian writes:
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>>> I have two plot setups, and from what I can tell, the eps files should come out with plots exactly the same physical size, BUT of course they are not. Can anyone tell if I am missing something simple, or if there is a work around? I believe the first set of code produces plots about 1 square centimeter larger than the second code (for some reason that was not the case earlier this week, they matched nicely).
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>
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>>
>
>> force the plot into the right place, regardless of the character sizes.
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>
>> Cheers,
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>>
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>>
>
>> David

>
>
>
> Thanks David, I just noticed that a second ago.

Its always those little things :)
