Tomson (tom2959@21cn.com) writes:

> I want all texts in figure have absolute size, for example,10pt. I know I
> can use device,font_size=10. But when I change some setting, such as
> !p.multi, sometimes the text change their size. What is the matter?

Uh, probably you are not sure what you are doing. :-)

Here is an experiment. First plot:

```
thisDev = !D.Name
Set_Plot, 'PS'
Device, Set_Font='Helvetica', Font_Size=10, /TT_Font, File = 'test_1.ps'
Plot, findgen(11), Font=1, XTitle='This is a long X title', $
   YTitle='This is a much longer Y title'
Device, /Close
Set_Plot, thisDev
```

Print that out on your PostScript printer. Then, next plot:

```
thisDev = !D.Name
Set_Plot, 'PS'
Device, Set_Font='Helvetica', Font_Size=10, /TT_Font, File = 'test_2.ps'
!P.Multi=[0,2,2]
Plot, findgen(11), Font=1, XTitle='This is a long X title', $
   YTitle='This is a much longer Y title'
Plot, findgen(11), Font=1, XTitle='This is a long X title', $
   YTitle='This is a much longer Y title'
Plot, findgen(11), Font=1, XTitle='This is a long X title', $
   YTitle='This is a much longer Y title'
Plot, findgen(11), Font=1, XTitle='This is a long X title', $
   YTitle='This is a much longer Y title'
Device, /Close
!P.Multi=0
Set_Plot, thisDev
```

Print that plot out.

I'm going to assert that the text on both plots is identical
and that it is 10 point helvetica font. :-)

Cheers,

David

--

David W. Fanning, Ph.D.
Fanning Software Consulting, Inc.
Phone: 970-221-0438, E-mail: david@dfanning.com
Coyote's Guide to IDL Programming: http://www.dfanning.com/
Toll-Free IDL Book Orders: 1-888-461-0155

Subject: Re: fontsize
Posted by David Fanning on Wed, 21 May 2003 03:50:53 GMT
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David Fanning (david@dfanning.com) writes:

>> I want all texts in figure have absolute size, for example,10pt. I know I
>> can use device,font_size=10. But when I change some setting, such as
>> !p.multi, sometimes the text change their size. What is the matter?
>
> Uh, probably you are not sure what you are doing. :-)

Or, another possibility, you just forgot to set your
FONT keyword on your graphics command (or !P.Font,
whatever you are using) to a Hardware of True-Type font.
The text size will *definitely* change when you go to
multiple plots if you are using the default vector
fonts.

Cheers,

David

--

David W. Fanning, Ph.D.
Fanning Software Consulting, Inc.
Phone: 970-221-0438, E-mail: david@dfanning.com
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Subject: Re: fontsize
Posted by tomson on Wed, 21 May 2003 03:52:47 GMT
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You are right. But not this one:

```
pro t00
thisDev = !D.Name
Set_Plot, 'PS'
!P.Multi=[0,5,2]
Device, Set_Font='Helvetica', Font_Size=10, /TT_Font, File = 'test_1.ps'
Plot, findgen(11), Font=1, XTitle='This is a long X title', $
   YTitle='This is a much longer Y title'
Device, /Close

Device, Set_Font='Helvetica', Font_Size=10, /TT_Font, File = 'test_2.ps'
!P.Multi=[0,2,2]
Plot, findgen(11), Font=1, XTitle='This is a long X title', $
   YTitle='This is a much longer Y title'
Plot, findgen(11), Font=1, XTitle='This is a long X title', $
   YTitle='This is a much longer Y title'
Plot, findgen(11), Font=1, XTitle='This is a long X title', $
   YTitle='This is a much longer Y title'
Plot, findgen(11), Font=1, XTitle='This is a long X title', $
   YTitle='This is a much longer Y title'
Device, /Close

end
```

:MPG.1934a04190e0c297989ba8@news.frii.com...
> Tomson (tom2959@21cn.com) writes:
>
>> I want all texts in figure have absolute size, for example,10pt. I know I
>> can use device,font_size=10. But when I change some setting, such as
>> !p.multi, sometimes the text change their size. What is the matter?
>
> Uh, probably you are not sure what you are doing. :-)
>
> Here is an experiment. First plot:
>
> thisDev = !D.Name
> Set_Plot, 'PS'
> Device, Set_Font='Helvetica', Font_Size=10, /TT_Font, File = 'test_1.ps'
> Plot, findgen(11), Font=1, XTitle='This is a long X title', $
>   YTitle='This is a much longer Y title'
> Device, /Close
> Set_Plot, thisDev
>
> Print that out on your PostScript printer. Then, next plot:

```
>
> thisDev = !D.Name
> Set_Plot, 'PS'
> Device, Set_Font='Helvetica', Font_Size=10, /TT_Font, File = 'test_2.ps'
> !P.Multi=[0,2,2]
> Plot, findgen(11), Font=1, XTitle='This is a long X title', $
>    YTitle='This is a much longer Y title'
> Plot, findgen(11), Font=1, XTitle='This is a long X title', $
>    YTitle='This is a much longer Y title'
> Plot, findgen(11), Font=1, XTitle='This is a long X title', $
>    YTitle='This is a much longer Y title'
> Plot, findgen(11), Font=1, XTitle='This is a long X title', $
>    YTitle='This is a much longer Y title'
> Device, /Close
> !P.Multi=0
> Set_Plot, thisDev
>
> Print that plot out.
>
> I'm going to assert that the text on both plots is identical
> and that it is 10 point helvetica font. :-)
>
> Cheers,
>
> David
>
> --
>
> David W. Fanning, Ph.D.
> Fanning Software Consulting, Inc.
> Phone: 970-221-0438, E-mail: david@dfanning.com
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```

Subject: Re: fontsize
Posted by David Fanning on Wed, 21 May 2003 04:05:34 GMT
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Tomson (tom2959@21cn.com) writes:

```
> You are right. But not this one:
>
>
> pro t00
> thisDev = !D.Name
> Set_Plot, 'PS'
> !P.Multi=[0,5,2]
```

> Device, Set_Font='Helvetica', Font_Size=10, /TT_Font, File = 'test_1.ps'
> Plot, findgen(11), Font=1, XTitle='This is a long X title', $
>   YTitle='This is a much longer Y title'
> Device, /Close

Humm. I guess so.

Well, in that case you are going to have to figure out
all the !P.Multi stuff by hand and put your plots on
the page by using the POSITION keyword and NOERASE, where
appropriate.

thisDev = !D.Name
!P.Multi=0
Set_Plot, 'ps'
Device, Set_Font='Helvetica', Font_Size=10, /tt_font
Plot, findgen(11), Position=[0.052, 0.546, 0.184, 0.976], $
   Font=1, XTitle='This is a long X title', $
   YTitle='This is a much longer Y title'

Plot, findgen(11), Position=[0.252, 0.546, 0.384, 0.976], $
   Font=1, XTitle='This is a long X title', $
   YTitle='This is a much longer Y title', /NoErase
Device, /Close
Set_Plot, thisDev

Etc.

Cheers,

David
--
David W. Fanning, Ph.D.
Fanning Software Consulting, Inc.
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Subject: Re: fontsize
Posted by Mark Hadfield on Wed, 21 May 2003 06:06:13 GMT
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"David Fanning" <david@dfanning.com> wrote in message
news:MPG.1934a8f4a782b00f989baa@news.frii.com...
> Well, in that case you are going to have to figure out
> all the !P.Multi stuff by hand and put your plots on
> the page by using the POSITION keyword and NOERASE, where

> appropriate.

Or write them to graphics files indivdually and arrange them afterwards.
Much easier in my experience.

--

Mark Hadfield   "Ka puwaha te tai nei, Hoea tatou"
m.hadfield@niwa.co.nz
National Institute for Water and Atmospheric Research (NIWA)

Subject: Re: fontsize
Posted by tomson on Wed, 21 May 2003 07:24:01 GMT

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I find if m or n greater than 2 in!p.multi=[0,m,n], the fontsize is not what
I want

.

:MPG.1934a8f4a782b00f989baa@news.frii.com...
> Tomson (tom2959@21cn.com) writes:
>
>> You are right. But not this one:
>>
>>
>> pro t00
>> thisDev = !D.Name
>> Set_Plot, 'PS'
>> !P.Multi=[0,5,2]
>> Device, Set_Font='Helvetica', Font_Size=10, /TT_Font, File = 'test_1.ps'
>> Plot, findgen(11), Font=1, XTitle='This is a long X title', $
>>   YTitle='This is a much longer Y title'
>> Device, /Close
>
> Humm. I guess so.
>
> Well, in that case you are going to have to figure out
> all the !P.Multi stuff by hand and put your plots on
> the page by using the POSITION keyword and NOERASE, where
> appropriate.
>
> thisDev = !D.Name
> !P.Multi=0
> Set_Plot, 'ps'
> Device, Set_Font='Helvetica', Font_Size=10, /tt_font

```
> Plot, findgen(11), Position=[0.052, 0.546, 0.184, 0.976], $
>    Font=1, XTitle='This is a long X title', $
>    YTitle='This is a much longer Y title'
>
> Plot, findgen(11), Position=[0.252, 0.546, 0.384, 0.976], $
>    Font=1, XTitle='This is a long X title', $
>    YTitle='This is a much longer Y title', /NoErase
> Device, /Close
> Set_Plot, thisDev
>
> Etc.
>
> Cheers,
>
> David
> --
> David W. Fanning, Ph.D.
> Fanning Software Consulting, Inc.
> Phone: 970-221-0438, E-mail: david@dfanning.com
> Coyote's Guide to IDL Programming: http://www.dfanning.com/
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```

Subject: Re: fontsize
Posted by Paul Van Delst[1] on Wed, 21 May 2003 13:14:14 GMT

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Tomson wrote:
```
>
> You are right. But not this one:
>
> pro t00
> thisDev = !D.Name
> Set_Plot, 'PS'
> !P.Multi=[0,5,2]
> Device, Set_Font='Helvetica', Font_Size=10, /TT_Font, File = 'test_1.ps'
> Plot, findgen(11), Font=1, XTitle='This is a long X title', $
>    YTitle='This is a much longer Y title'
> Device, /Close
>
> Device, Set_Font='Helvetica', Font_Size=10, /TT_Font, File = 'test_2.ps'
> !P.Multi=[0,2,2]
> Plot, findgen(11), Font=1, XTitle='This is a long X title', $
>    YTitle='This is a much longer Y title'
> Plot, findgen(11), Font=1, XTitle='This is a long X title', $
>    YTitle='This is a much longer Y title'
> Plot, findgen(11), Font=1, XTitle='This is a long X title', $
>    YTitle='This is a much longer Y title'
```

```
>  Plot, findgen(11), Font=1, XTitle='This is a long X title', $
>     YTitle='This is a much longer Y title'
>  Device, /Close
>
>  end
```

Does the order of the !P.MULTI= and DEVICE, /... calls matter?

paulv

--
Paul van Delst
CIMSS @ NOAA/NCEP/EMC
Ph: (301)763-8000 x7748
Fax:(301)763-8545

Subject: Re: fontsize
Posted by David Fanning on Wed, 21 May 2003 13:42:54 GMT
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Paul van Delst (paul.vandelst@noaa.gov) writes:

> Does the order of the !P.MULTI= and DEVICE, /... calls matter?

Apparently not.

But I still think an argument can be made that this is
what !P.MULTI is *suppose* to be doing. It takes care
of most of the details for you. Most of the time, if you
are making smaller plots, you need smaller text. If you
don't need smaller text, then pay attention to all the
details yourself. It seems like a reasonable trade-off
to me.

Cheers,

David

P.S. And Mark is right. The easiest thing to do is
just create encapsulated PostScript files and
arrange them however you like in whatever word
processor you happen to be using. This is FAR simpler
than mucking about with this.

--
David W. Fanning, Ph.D.
Fanning Software Consulting, Inc.

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