Subject: Dot miscentered in \sun symbol of cgsymbol?
Posted by on Thu, 04 Dec 2014 12:03:06 GMT

When I use the \sun symbol in cgplot titles with output to a pdf file, it comes out with the dot not centered in the ring. Is there something I can do about that? I usually use it as a subscript but just the symbol by itself also has this problem.

Here is an example:

IDL> cgplot, [0, 1], [0, 1], xtitle = '$\sun$', output = 'test.pdf'

This is my output:

http://www.isf.astro.su.se/~mats/test.pdf

Is there something I can do about that? I currently don't set the ps_font to anything, would this maybe work better with a font other than the default?

/Mats

Subject: Re: Dot miscentered in \sun symbol of cgsymbol?
Posted by David Fanning on Thu, 04 Dec 2014 13:02:04 GMT

Mats Löfdahl writes:

>
> When I use the \sun symbol in cgplot titles with output to a pdf file, it comes out with the dot not centered in the ring. Is there something I can do about that? I usually use it as a subscript but just the symbol by itself also has this problem.
>
> Here is an example:
>
> IDL> cgplot, [0, 1], [0, 1], xtitle = '$\sun$', output = 'test.pdf'
>
> This is my output:
>
> http://www.isf.astro.su.se/~mats/test.pdf
>
> Is there something I can do about that? I currently don't set the ps_font to anything, would this maybe work better with a font other than the default?

Try this:

    IDL> cgset_ttfont, 'dejavusans'
    IDL> cgplot, [0, 1], [0, 1], xtitle = '$\sun$', output = 'test.pdf'

Cheers,

David

--
David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: http://www.idlcoyote.com/
Sepore ma de ni thue. ("Perhaps thou speakest truth.")

Subject: Re: Dot miscentered in \sun symbol of cgsymbol?
Posted by   on Thu, 04 Dec 2014 13:53:58 GMT
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Den torsdagen den 4:e december 2014 kl. 14:02:08 UTC+1 skrev David Fanning:
> Mats Löfdahl writes:
>
>>
>> When I use the \sun symbol in cgplot titles with output to a pdf file, it comes out with the dot
not centered in the ring. Is there something I can do about that? I usually use it as a subscript but
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>
> Try this:
>
>   IDL> cgset_ttfont, 'dejavusans'
>   IDL> cgplot, [0, 1], [0, 1], xtitle = '$\sun$', output = 'test.pdf'

Thanks Dave.

That made the sun symbol look right, but now it doesn't respond to subscripting:

IDL> cgset_ttfont, 'dejavusans'
IDL> cgplot, [0, 1], [0, 1], xtitle = 'R$\sub$$\sun$', output = 'test.pdf'

The new version of test.pdf is now at the same url as before:
http://www.isf.astro.su.se/~mats/test.pdf

Subject: Re: Dot miscentered in \sun symbol of cgsymbol?
Posted by lecacheux.alain on Thu, 04 Dec 2014 13:59:42 GMT

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On Thursday, December 4, 2014 2:54:00 PM UTC+1, Mats Löfdahl wrote:
> Den torsdagen den 4:e december 2014 kl. 14:02:08 UTC+1 skrev David Fanning:
>> Mats Löfdahl writes:
>>
>>>
>>> When I use the \sun symbol in cgplot titles with output to a pdf file, it comes out with the dot not centered in the ring. Is there something I can do about that? I usually use it as a subscript but just the symbol by itself also has this problem.
>>>
>>> Here is an example:
>>>
>>> IDL> cgplot, [0, 1], [0, 1], xtitle = '$\sun$', output = 'test.pdf'
>>>
>>> This is my output:
>>>
>>> http://www.isf.astro.su.se/~mats/test.pdf
>>>
>>> Is there something I can do about that? I currently don't set the ps_font to anything, would this maybe work better with a font other than the default?
>>
>> Try this:
>>
>>   IDL> cgset_ttfont, 'dejavusans'
>>   IDL> cgplot, [0, 1], [0, 1], xtitle = '$\sun$', output = 'test.pdf'
>
> Thanks Dave.
>
> That made the sun symbol look right, but now it doesn't respond to subscripting:
>
> IDL> cgset_ttfont, 'dejavusans'
> IDL> cgplot, [0, 1], [0, 1], xtitle = 'R$\sub$$\sun$', output = 'test.pdf'
>
> The new version of test.pdf is now at the same url as before:
http://www.isf.astro.su.se/~mats/test.pdf
>
> /Mats

plot(/TEST,xtitle = 'R$_{\Sun}$')

Subject: Re: Dot miscentered in \sun symbol of cgsymbol?
Posted by   on Thu, 04 Dec 2014 14:27:50 GMT
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Den torsdagen den 4:e december 2014 kl. 14:59:43 UTC+1 skrev alx:
>
> plot(/TEST,xtitle = 'R$_{\Sun}$')

Some day I might take the leap to function graphics. But not today if I can avoid it...

/Mats

Subject: Re: Dot miscentered in \sun symbol of cgsymbol?
Posted by David Fanning on Thu, 04 Dec 2014 14:41:17 GMT
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Mats Löfdahl writes:

> That made the sun symbol look right, but now it doesn't respond to subscripting:
>
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> IDL> cgplot, [0, 1], [0, 1], xtitle = 'R$\sub$$\sun$', output = 'test.pdf'
>
> The new version of test.pdf is now at the same url as before:
http://www.isf.astro.su.se/~mats/test.pdf

This needs to be explained better in the documentation, but construct
your string like this:

   cgset_ttfont, 'dejavusans'
   cgplot, [0, 1], [0, 1], xtitle = 'R$\sub\\sun$', output = 'test.pdf'

Cheers,

David

--
David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: http://www.idlcoyote.com/
Sepore ma de ni thue. ("Perhaps thou speakest truth.")

Subject: Re: Dot miscentered in \sun symbol of cgsymbol?
Posted by   on Thu, 04 Dec 2014 15:00:05 GMT
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Den torsdagen den 4:e december 2014 kl. 15:41:21 UTC+1 skrev David Fanning:
>
> This needs to be explained better in the documentation, but construct
> your string like this:
>
>   cgset_ttfont, 'dejavusans'
>   cgplot, [0, 1], [0, 1], xtitle = 'R$\sub\\sun$', output = 'test.pdf'

Yes, beautiful! Thanks a lot.

/Mats

Subject: Re: Dot miscentered in \sun symbol of cgsymbol?
Posted by JDS on Fri, 05 Dec 2014 13:46:07 GMT

On Thursday, December 4, 2014 3:41:21 PM UTC+1, David Fanning wrote:
> Mats Löfdahl writes:
>
>> That made the sun symbol look right, but now it doesn't respond to subscripting:
>>
>> IDL> cgset_ttfont, 'dejavusans'
>> IDL> cgplot, [0, 1], [0, 1], xtitle = 'R$\sub$$\sun$', output = 'test.pdf'
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>> The new version of test.pdf is now at the same url as before:
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>
> This needs to be explained better in the documentation, but construct
> your string like this:
>
>   cgset_ttfont, 'dejavusans'
>   cgplot, [0, 1], [0, 1], xtitle = 'R$\sub\\sun$', output = 'test.pdf'
>

Wow! This fixes an issue that has persisted 20 years in direct graphics. For those of us still stuck on then even more ancient PODG (plain-ole-direct-graphics), you can invoke the DejaVuSans font using the formatting code !10. E.g.:

xyouts,.5,.5,/normal,'M!D!10!Z(2299)!X!N',CHARSIZE=2,FONT=1

I see now that sunsymbol.pro has updated, using the more astronomically correct symbol at !Z(2609). Either works (pick your favorite).