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Subject: Re: Embedded Formatting Commands (looking for an expert)  
Posted by [pgrigis](#) on Thu, 16 Dec 2010 17:13:05 GMT  
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I would use psfrag instead - that allows you to write the formula in LaTeX.

It will look so much better.

Ciao,  
Paolo

On Dec 16, 12:08 pm, nata <bernat.puigdomen...@gmail.com> wrote:

> Hi gurus,  
>  
> I need an expert of Embedded Formatting Commands to help me.  
> I'm trying to write the C\_CORRELATE formula in a PostScript. My code  
> is as follows:

>  
> ;;  
> -----  
> SET\_PLOT, 'PS'  
> !P.FONT=0  
> DEVICE, FILENAME='dummy.ps', XSIZE=10, YSIZE=10  
>  
> str='!9'+STRING("345B")+!S!A!E!7N-L-1!R!B!IK=0!N (x!Dk!N -!  
> 9'+STRING("140B)+\$  
> '!7x)(y!Dk+L!N -!9'+STRING("140B")+!7y)'+\$  
> XYOUTS, 0.5, 0.6, str, /NORMAL, ALIGNMENT=0.5, CHARSIZE=1  
>  
> str='!9( '+STRING("133B)+STRING("345B")+!S!A!E!7N-1!R!B!IK=0!N(x!  
> Dk!N - !9'+\$  
> STRING("140B")+!7x)!E2!N!9'+STRING("135B)+STRING("133B)  
> +STRING("345B)+\$  
> '!S!A!E!7N-1!R!B!IK=0!N(y!Dk!N - !9'+STRING("140B")+!7y)!E2!N!  
> 9'+STRING("135B)+\$  
> ' )!E1/2!N'  
> XYOUTS, 0.5, 0.4, str, /NORMAL, ALIGNMENT=0.5, CHARSIZE=1  
>  
> DEVICE, /CLOSE  
> ;;

> -----  
>  
> I have a problem trying to write the upper part and the lower part of  
> the formula together. How can I do it ?  
> I know this is embarrassing but any help is appreciated.  
>  
> Thanks in advance.

> nata

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Subject: Re: Embedded Formatting Commands (looking for an expert)

Posted by [David Fanning](#) on Thu, 16 Dec 2010 17:44:48 GMT

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nata writes:

- > I have a problem trying to write the upper part and the lower part of
- > the formula together. How can I do it ?
- > I know this is embarrassing but any help is appreciated.

I don't have any idea how to something like this. I'd have to fudge it like this. :-)

```
SET_PLOT, 'PS'
!P.FONT=0
DEVICE, FILENAME='dummy.ps', XSIZE=10, YSIZE=10
Plots, [0.25, 0.75], [0.5, 0.5], /Normal
str='!9'+STRING("345B")+!S!A!E!7N-L-1!R!B!IK=0!N ' + $
'(x!Dk!N -!9'+STRING("140B)+$
'!7x)(y!Dk+L!N -!9'+STRING("140B")+!7y)'++$
XYOUTS, 0.5, 0.5 + (!D.Y_CH_SIZE/0.8)/!D.Y_Size, str, $
/NORMAL, ALIGNMENT=0.5, CHARSIZE=1

str='!9( '+STRING("133B")+STRING("345B")+!S!A!E' + $
'!7N-1!R!B!IK=0!N(x!Dk!N - !9'+$
STRING("140B")+!7x)!E2!N!9'+STRING("135B")+STRING("133B)+$
STRING("345B)+$
!S!A!E!7N-1!R!B!IK=0!N(y!Dk!N - !9'+STRING("140B)+$
'!7y)!E2!N!9'+STRING("135B)+$
')!E1/2!N'
XYOUTS, 0.5, 0.5 -(!D.Y_CH_SIZE*2.)/!D.Y_Size , str, $
/NORMAL, ALIGNMENT=0.5, CHARSIZE=1
END
```

Cheers,

David

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David Fanning, Ph.D.

Fanning Software Consulting, Inc.

Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

Sepore ma de ni thui. ("Perhaps thou speakest truth.")

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Subject: Re: Embedded Formatting Commands (looking for an expert)

Posted by [natha](#) on Thu, 16 Dec 2010 17:58:23 GMT

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Ok, this is a temporary solution.

I would like to have the right way to do it, in case I want to write more formulas in the future.

I tried to do the same as the example of the documentation but I didn't succeed.

$$\text{rhs} = '!\S!Af(x!\S!!i!R) - f(x!\S!!j!R)!R!B x!\S!!i!R - x!\S!!j!R !X'$$

It seems that I cannot use 2 !S successively (one "inside" the other !S ... !S ... !R ... !R)

Thank you David,

nata

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Subject: Re: Embedded Formatting Commands (looking for an expert)

Posted by [penteado](#) on Thu, 16 Dec 2010 18:07:08 GMT

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On Dec 16, 3:58 pm, nata <bernat.puigdomen...@gmail.com> wrote:

- > Ok, this is a temporary solution.
- > I would like to have the right way to do it, in case I want to write
- > more formulas in the future.

When I get a chance I will try the idea I mentioned earlier, of making a more general LaTeX parser, probably through JLaTeXMath. But that surely is not happening before January.

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Subject: Re: Embedded Formatting Commands (looking for an expert)

Posted by [Gray](#) on Thu, 16 Dec 2010 19:18:17 GMT

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On Dec 16, 1:07 pm, Paulo Penteado <pp.pente...@gmail.com> wrote:

- > On Dec 16, 3:58 pm, nata <bernat.puigdomen...@gmail.com> wrote:
- >
- >> Ok, this is a temporary solution.
- >> I would like to have the right way to do it, in case I want to write
- >> more formulas in the future.
- >
- > When I get a chance I will try the idea I mentioned earlier, of making
- > a more general LaTeX parser, probably through JLaTeXMath. But that
- > surely is not happening before January.

What about textoidl?

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Subject: Re: Embedded Formatting Commands (looking for an expert)

Posted by [penteado](#) on Thu, 16 Dec 2010 19:58:55 GMT

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On Dec 16, 5:18 pm, Gray <grayliketheco...@gmail.com> wrote:

>> When I get a chance I will try the idea I mentioned earlier, of making  
>> a more general LaTeX parser, probably through JLaTeXMath. But that  
>> surely is not happening before January.

>

> What about textoidl?

It only supports a very small subset of LaTeX, and does not really work with any of the systems that use object graphics (OO, iTools and Graphics). The builtin support for LaTeX in IDL 8 is much better than textoidl, but is still limited to few things.

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