

---

Subject: Re: How can we pass Greek symbols and formula to IPLOT?

Posted by [penteado](#) on Mon, 18 Jan 2010 16:04:43 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

On Jan 18, 9:46 am, Dave\_Poreh <d.po...@gmail.com> wrote:

> How can we pass Greek symbols and formula to IPLOT?

> Any help highly would be appreciated.

The same way as in direct graphics. The iTools use TrueType fonts by default, but you can use Hershey fonts as well. For instance:

```
iplot,findgen(10),xtitle="!10abc!X",ytitle="!Z('00B5'X)!M "+string(165B)
+"!X"
```

A more convenient way to write the strings for greek letters is to use David's greek() function:

[http://groups.google.com/group/comp.lang.idl-pvwave/browse\\_thread/thread/0e48fc1f867a4816#](http://groups.google.com/group/comp.lang.idl-pvwave/browse_thread/thread/0e48fc1f867a4816#)

It selects the strings for Hershey or TrueType based on the current direct graphics device. So if you are using only iplot with the default fonts, you can change the device to ps, to make greek() use the strings for TrueType:

```
set_plot,'ps'
iplot,findgen(10),xtitle=greek('Omega')+greek('alpha')
```

Or, if you can live with Hershey fonts, you can use TeXtoIDL, as in

```
iplot,findgen(10),xtitle=textoidl('\Omega\alpha'),xtickfont_index=4
```

TeXtoIDL is at

<http://physweb.mnstate.edu/mcraig/textoidl/>

---

---

Subject: Re: How can we pass Greek symbols and formula to IPLOT?

Posted by [d.poreh](#) on Tue, 19 Jan 2010 08:43:56 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

On Jan 18, 8:04 am, pp <pp.pente...@gmail.com> wrote:

> On Jan 18, 9:46 am, Dave\_Poreh <d.po...@gmail.com> wrote:

>

>> How can we pass Greek symbols and formula to IPLOT?

>> Any help highly would be appreciated.

>

> The same way as in direct graphics. The iTools use TrueType fonts by

> default, but you can use Hershey fonts as well. For instance:

>  
> iplot,findgen(10),xtitle="!10abc!X",ytitle="!Z('00B5'X)!M "+string(165B)  
> +"!X"  
>  
> A more convenient way to write the strings for greek letters is to use  
> David's greek() function:  
>  
> [http://groups.google.com/group/comp.lang.idl-pvwave/browse\\_thread](http://groups.google.com/group/comp.lang.idl-pvwave/browse_thread)...  
>  
> It selects the strings for Hershey or TrueType based on the current  
> direct graphics device. So if you are using only iplot with the  
> default fonts, you can change the device to ps, to make greek() use  
> the strings for TrueType:  
>  
> set\_plot,'ps'  
> iplot,findgen(10),xtitle=greek('Omega')+greek('alpha')  
>  
> Or, if you can live with Hershey fonts, you can use TeXtoIDL, as in  
>  
> iplot,findgen(10),xtitle=textoidl("\Omega\alpha"),xtickfont\_index=4  
>  
> TeXtoIDL is at  
>  
> <http://physweb.mnstate.edu/mcraig/textoidl/>  
Thank you very much. And a very tiny question: I could not write  
formula there (in IPLOT). Like: km<sup>2</sup> and .....  
Cheers

---

---

Subject: Re: How can we pass Greek symbols and formula to IPLOT?  
Posted by [Maarten\[1\]](#) on Tue, 19 Jan 2010 08:49:04 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

On Jan 19, 9:43 am, Dave\_Poreh <d.po...@gmail.com> wrote:

> Thank you very much. And a very tiny question: I could not write  
> formula there (in IPLOT). Like: km<sup>2</sup> and .....  
> Cheers

Use TeXtoIDL. It will work for iPlot as well if you set the direct  
graphics device to PS (very much the same as with David's Greek  
function).

```
iplot,findgen(10),xtitle=textoidl("\Omega\alpha km^2  
ln_2'),xtickfont_index=4
```

Note that the super- and sub-scripts only work for the next character,  
and no (unlike TeX), {} won't help.

Maarten

---

---

Subject: Re: How can we pass Greek symbols and formula to IPLOT?

Posted by [d.poreh](#) on Tue, 19 Jan 2010 08:58:59 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

On Jan 19, 12:49 am, Maarten <maarten.sn...@knmi.nl> wrote:

> On Jan 19, 9:43 am, Dave\_Poreh <d.po...@gmail.com> wrote:

>

>> Thank you very much. And a very tiny question: I could not writ

>> formula there (in IPLOt). Like:  $\text{km}^2$  and .....

>> Cheers

>

> Use TeXtoIDL. It will work for iPlot as well if you set the direct  
> graphics device to PS (very much the same as with David's Greek  
> function).

>

> `iplot,findgen(10),xtitle=textoidl("\Omega\alpha km^2`

> `ln_2'),xtickfont_index=4`

>

> Note that the super- and sub-scripts only work for the next character,  
> and no (unlike TeX), `{}` won't help.

>

> Maarten

Thank you very much Maarten. Another thing how could we change to  
BOLD?

Cheers

---