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Subject: Re: best image plotting routine

Posted by [liamgumley](#) on Fri, 08 May 2009 09:37:56 GMT

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On May 8, 1:39 pm, "R.G. Stockwell" <noemai...@please.com> wrote:

- > I often use a simple contour command (with /fill) to plot an image,
  - > however that is not practical for very large images with NANs in it.
  - > One must use /cell, and that takes forever to render, and creates
  - > 120mb postscript files.
  - >
  - > what is the best routine to use to create this plot of an image?
  - > Note there are 2 requirements.
  - >
  - > 1) it must accept "all" graphics keywords.
  - > - i use xtickformat to print julian days for instance, ytickv, ytickname,
  - > log axis, etc
  - >
  - > 2) it must create scalable and small postscript files
  - > - a bitmap into a postscript is not acceptable. the quality
  - > is too low for publication.
- [stuff deleted]

Download the PIP sample programs from

[http://gumley.com/PIP/Sample\\_Programs/PIP\\_programs.zip](http://gumley.com/PIP/Sample_Programs/PIP_programs.zip)

and try the following. First, create the plot onscreen:

```
data = dist(32)
imdisp, data, /axis, title='IMDISP TEST', $
  xtitle='X AXIS', xtickformat='(f6.1)', $
  /ylog, yrange=[0.1, 1000.0]
```

then switch to Postscript and redo the image

```
pson
device, /helvetica
imdisp, data, /axis, title='IMDISP TEST', $
  xtitle='X AXIS', xtickformat='(f6.1)', $
  /ylog, yrange=[0.1, 1000.0], font=0
psoff
```

Note the font=0 keyword to use the device font. If you are using a Mac as previously discussed here, you might want to do something like this first:

```
data = rebin(data, 1024, 1024, /sample)
```

Does the resulting PostScript file meet your needs?

Liam.

Practical IDL Programming

<http://www.gumley.com/>

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Subject: Re: best image plotting routine

Posted by [Bringfried Stecklum](#) on Fri, 08 May 2009 10:36:36 GMT

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liamgumley@gmail.com wrote:

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>

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>

> pson

> device, /helvetica

> imdisp, data, /axis, title='IMDISP TEST', \$

> xtitle='X AXIS', xtickformat='(f6.1)', \$

> /ylog, yrange=[0.1, 1000.0], font=0

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> Note the font=0 keyword to use the device font. If you are using a Mac  
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>  
> Does the resulting PostScript file meet your needs?  
>  
> Liam.  
> Practical IDL Programming  
> <http://www.gumley.com/>  
>

Hi Liam,

I tried but, strangely enough, can't see any text, neither on the screen nor on the plot. This is with IDL Version 6.4 (linux x86\_64 m64).

Regards,

Bringfried

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Subject: Re: best image plotting routine  
Posted by [R.G. Stockwell](#) on Fri, 08 May 2009 18:23:16 GMT  
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<liamgumley@gmail.com> wrote in message  
news:d7125d48-a883-4b44-85a9-9c56f2839cfb@x1g2000prh.googleg rroups.com...  
On May 8, 1:39 pm, "R.G. Stockwell" <noemai...@please.com> wrote:

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and try the following.

(snip)

Thanks Liam,  
I'll check it out.

Cheers,  
bob

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