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Subject: Re: Creating colour-coded plots of spectra  
Posted by [pgrigis](#) on Fri, 31 Jul 2009 14:38:24 GMT  
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On Jul 31, 4:54 am, Jimmy <jimmyb...@gmail.com> wrote:

> Hi there,  
>  
> I have a large amount of line plots of x-ray spectra (looking a little  
> bit like this one -[http://www.jaxa.jp/press/2005/08/img/20050817\\_suzaku\\_pic02-e.gif](http://www.jaxa.jp/press/2005/08/img/20050817_suzaku_pic02-e.gif)  
> ). I'd like to convert them into something a bit more user friendly- a  
> colour coded spectral plot (looking rather like  
> this-<http://swepam.lanl.gov/Figures/Figure08.JPG>), with intensity shown by  
> different colour values. This plot also makes it easy to see how  
> intensities of a particular energy (y-axis) change with time (x-axis).  
>  
> Has anyone heard of a program that will do this for me? Its possibly  
> I'm being dense, and don't know the correct term to google for. If  
> there's nothing out there I have an inkling (a faint one!) on how to  
> do it myself, but no doubt someone has done it better than I could?  
>  
> Thanks!  
> Jimmy

Hi Jimmy,

if you are happy with linear scale for the x and y axis,  
any of the numerous program to plot images with axes will  
do, but if it matters to you to have log scales as in the  
Ulysses plots, I suggest to use

[http://hea-www.cfa.harvard.edu/~pgrigis/idl\\_stuff/pg\\_plotimage.pro](http://hea-www.cfa.harvard.edu/~pgrigis/idl_stuff/pg_plotimage.pro)

Example of usage:

```
pg_plotimage,dist(512,512),findgen(512),findgen(512)/10+1,/y log,  
xstyle,/ystyle
```

Ciao,  
Paolo

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