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Subject: Re: add a period axis?

Posted by [jeyadev](#) on Fri, 12 Oct 2001 20:03:11 GMT

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In article <MPG.162ed391d0e34c3c989704@news.frii.com>,

David Fanning <david@dfanning.com> wrote:

> jiali (jiali3@21cn.com) writes:

>

>> I wonder how to add another axis. First create a frequency-power plot:

>>

>> plot,fre,power,xrange=[1,10],yrange=[0,10],xtitle='Frequency '

>>

>> I hope to add an axis on the top but with period(=1/frequency) ticks. Maybe

>> like following:

>>

>> aixs,1,10,/xaxis,xrange=[1,0.1], xtitle='Period',.....???

>>

>> Would you please help me to finish the above?

>

> Well, it will be something like this:

>

> plot,fre,power,xrange=[1,10],yrange=[0,10], \$

> xtitle='Frequency', xstyle=8, \$

> position=[0.15, 0.15, 0.95, 0.85]

> axis, xaxis=1, xrange=[1,0.1], xtitle='Period', /save

Awww! This is too easy! It does help that 1.0 lines up with 0.1, 2.0 with 0.2, ... etc. Things look nice. How about when you want to have `xrange = [0,15]`, but you want the upper axis to be some specific values that are calculated from the lower axis. I run into this typically in trying to have two different ways of specifying the same underlying variable. For a no so moronic example, let the x axis be some length in metres. Now, for some people's benefit, I would like to have feet on the upper scale. But, it is ugly to have 1.5432, 2.1793, ... labels. One would like that hash marks to be laid at 1.5, 2.0, etc. Any chance of a routine out there?

thanks

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