
Subject: Re: add a period axis?

Posted by [web](#) on Sat, 13 Oct 2001 11:10:39 GMT

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The following can do:

```
x=findgen(100)/100.
```

```
xrange=[0.1,1]
```

```
!p.position=[0.2,0.2,0.8,0.8]
```

```
xticks=9 & xtickv=[0.1,0.2,0.3,0.4,0.5,0.6,0.7,0.8,0.9,1.0]
```

```
plot,x,sin(x*20),xstyle=9,ystyle=1,yrange=[-1,1],xrange=xrange,xticks=xticks
```

```
,xtickv=xtickv
```

```
axis,xaxis=1,xrange=xrange,xticks=xticks,xtickname=string(1./xtickv,format='(f4.1)'),xstyle=1
```

```
end
```

Then period 2 is coressponded to frequency 0.5. But I hope tickv=[10,9,8,7,6,5,4,3,2,1] for period axis. How to do then? Maybe '/xlog' will be used, because $\log(\text{period}) = -\log(\text{frequency})$. But I failed to do that, although I tried again and again.

"Steve Smith<steven_smith>" <nobody@nowhere.com> wrote in message news:slrn9se1lj.mo2.nobody@pooh.nrel.gov...

> On Fri, 12 Oct 2001 10:15:38 +0800, jiali <jiali3@21cn.com> wrote:

>> Hi, Why are there not answer? Is it possible to add a period axis? Hope to

>> get your reply soon. Jiali

>>

>> "jiali" <jiali3@21cn.com> wrote in message

>> news:9q2p35\$8oa\$1@mail.cn99.com...

>>> Hi,

>>>

>>> 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:

>>>

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

>>>

>

> I would make an array of labels you'd like to use say label[], then something

> like:

> axis, xaxis=1,xticks=5,xminor=0,xtickn=label,xtitle='Period'

> should work fine.

>
>>> Would you please help me to finish the above?
>>>
>>> Best,
>>> Jiali
>>>
>>>
>>>
>>
>>
>
>
> --
> Steve S.
>
> steve@NOSPAMmailaps.org
> remove NOSPAM before replying
