
Subject: Re: Tick mark label with !P.Multi
Posted by [Jeremy Bailin](#) on Fri, 17 Jun 2011 14:22:03 GMT
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xtickformat='(A1)'

Subject: Re: Tick mark label with !P.Multi
Posted by [Alexa](#) on Fri, 17 Jun 2011 14:44:06 GMT
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On Jun 17, 10:22 am, Jeremy Bailin <astroco...@gmail.com> wrote:
> xtickformat='(A1)'

Thanks for replying Jeremy but that makes all the tick mark labels go away. I have an image with two columns of plots and I would like for only the bottom two plots to have labels. Here is a stripped down version of my plotting code if that helps.

!P.Multi=[0,2,10,0,1]

```
;;Plot radial velocities for each absorption feature
FOR nt=0, N_ELEMENTS(Transition)-1 DO BEGIN
  ReadCol, Transition[nt], wavelength, flux, sigma, format='f,f,f'
  plot, Velocity, flux, xrange=[-500, 500], xstyle=1, xminor=1,
  yminor=1,$
    ytickformat='(a1)',xtickformat='(a1)', psym=10
  oplot, Velocity, sigma
  xyouts, 300, 0, Transition[nt]
ENDFOR
```

!P.Multi=0

Subject: Re: Tick mark label with !P.Multi
Posted by [Jeremy Bailin](#) on Fri, 17 Jun 2011 14:59:38 GMT
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So only do it when you're on those plots... which in this case, is when nt is 18 or 19. Or more generally:

```
on_bottom_line = (nt / !p.multi[1]) eq (!p.multi[2] - 1)
if on_bottom_line then format='(A1)' else format=""
plot, ....., xtickformat=format, ....
```

-Jeremy.

Subject: Re: Tick mark label with !P.Multi
Posted by [Alexa](#) on Fri, 17 Jun 2011 15:43:58 GMT
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Could you explain how you're defining on_bottom_line?

On Jun 17, 10:59 am, Jeremy Bailin <astroco...@gmail.com> wrote:

> So only do it when you're on those plots... which in this case, is when nt is 18 or 19. Or more generally:

>
> on_bottom_line = (nt / !p.multi[1]) eq (!p.multi[2] - 1)
> if on_bottom_line then format='(A1)' else format=""
> plot,, xtickformat=format,
>
> -Jeremy.

Subject: Re: Tick mark label with !P.Multi
Posted by [Gray](#) on Fri, 17 Jun 2011 16:15:58 GMT
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On Jun 17, 11:43 am, Alexa <alexa7...@gmail.com> wrote:

> Could you explain how you're defining on_bottom_line?

>
> On Jun 17, 10:59 am, Jeremy Bailin <astroco...@gmail.com> wrote:

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>
>> So only do it when you're on those plots... which in this case, is when nt is 18 or 19. Or more generally:
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>> on_bottom_line = (nt / !p.multi[1]) eq (!p.multi[2] - 1)
>> if on_bottom_line then format='(A1)' else format=""
>> plot,, xtickformat=format,
>
>> -Jeremy.

Why don't you use MULTILOT from the NASA IDL Astro Library?

Subject: Re: Tick mark label with !P.Multi
Posted by [Jeremy Bailin](#) on Fri, 17 Jun 2011 17:14:45 GMT
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On Friday, June 17, 2011 11:43:58 AM UTC-4, Alexa wrote:

> Could you explain how you're defining on_bottom_line?

>

> On Jun 17, 10:59 am, Jeremy Bailin <astro...@gmail.com> wrote:

>> So only do it when you're on those plots... which in this case, is when nt is 18 or 19. Or more generally:

>>

>> on_bottom_line = (nt / !p.multi[1]) eq (!p.multi[2] - 1)

>> if on_bottom_line then format='(A1)' else format=""

>> plot,, xtickformat=format,

>>

>> -Jeremy.

If you have NX by NY panels, IDL starts at the top-left and goes right, and then down to the next line, etc. So the index "nt" in your for loop is related to the Xi, Yi panel by:

$$nt = Xi + NX * Yi$$

You want the ones where Yi is equal to NY-1. Since nt and NX are integers and Xi is always less than NX, you have $Yi = (nt / NX)$. So the code tests whether (nt / NX) is equal to NY-1.

-Jeremy.
