
Subject: Two x-axes

Posted by [eparvier](#) on Wed, 30 Oct 1991 22:42:47 GMT

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Hi,

Does anyone know of a relatively easy way to make a plot in IDL have two different x-axes or scales? It is rather common in textbooks and journal articles to see two curves on the same plot, sharing the same y-axis scaling, but with different corresponding x-axes (usually one on top and one on the bottom).

This could be done brute force, of course, but I was wondering if there were any library routines to do this in a general manner, instead of on a case-by-case basis.

Thanks for any advice,
Frank

Subject: Re: Two x-axes

Posted by [jennifer](#) on Thu, 31 Oct 1991 17:32:57 GMT

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eparvier@tramp.Colorado.EDU (EPARVIER FRANCIS G) writes:

< Does anyone know of a relatively easy way to make a plot in IDL have two different x-axes or scales? It is rather common in textbooks and journal articles to see two curves on the same plot, sharing the same y-axis scaling, but with different corresponding x-axes (usually one on top and one on the bottom).

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This can be done fairly easily with a combination of calls to PLOT and AXIS with various keywords, such as

```
;plot first set of data with x axis on bottom, y axis on left, no top axis
plot,x,y,/noerase,xstyle=8
;plot second set of data with x axis on top, same y axis
plot,x2,y,/noerase,xstyle=4,/noerase
axis,xaxis=1
```

There are a lot of options with these two procedures, so you should be able to get what you want.

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