
Subject: Adding straight lines to a plot
Posted by [fgg](#) on Thu, 11 Nov 2010 22:28:25 GMT
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Hi,

Is there a function in IDL to add a straight line through an existing plot? Something like the 'abline' function in R, where all you need is to specify the y-value for a horizontal line (or the x-value for a vertical line).

Thanks

Subject: Re: Adding straight lines to a plot
Posted by [Gray](#) on Fri, 12 Nov 2010 14:37:02 GMT
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On Nov 12, 9:32 am, Paul van Delst <paul.vande...@noaa.gov> wrote:

> David Fanning wrote:

>> fgg writes:

>

>>> Is there a function in IDL to add a straight line through an existing
>>> plot? Something like the 'abline' function in R, where all you need is
>>> to specify the y-value for a horizontal line (or the x-value for a
>>> vertical line).

>

>> Here you go.

>

>> PRO ABLine, value, \$

>> VERTICAL=vertical, \$

>> LINSTYLE=linestyle, \$

>> THICK=thick, \$

>> COLOR=color

>

>> IF N_Elements(color) EQ 0 THEN color = 'white'

>

>> IF Keyword_Set(VERTICAL) THEN BEGIN

>> PLOTS, [value, value], [!Y.CRange[0], !Y.CRange[1]], \$

>

> why not simply

> PLOTS, [value, value], !Y.CRange, \$

>

>> LINSTYLE=linestyle, THICK=thick, \$

>> COLOR=FSC_Color(String(color))

>> ENDIF ELSE BEGIN

>> PLOTS, [!X.CRange[0], !X.CRange[1]], [value, value], \$

>

```

> and similarly
>     PLOTS, !X.CRange, [value, value], $
>
> ?
>
>
>
>
>
>
>
>
>>     LINESTYLE=linestyle, THICK=thick, $
>>     COLOR=FSC_Color(color)
>> ENDELSE
>
>> END
>
>> Cheers,
>
>> David

```

You can do the same thing in NG with `polyline(/data)`, where `xrange` and `yrange` are properties of the graphic object.

Subject: Re: Adding straight lines to a plot
 Posted by [David Fanning](#) on Fri, 12 Nov 2010 14:59:24 GMT
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Paul van Delst writes:

```

>
> David Fanning wrote:
>> fgg writes:
>>
>>> Is there a function in IDL to add a straight line through an existing
>>> plot? Something like the 'abline' function in R, where all you need is
>>> to specify the y-value for a horizontal line (or the x-value for a
>>> vertical line).
>>
>> Here you go.
>>
>> PRO ABLine, value, $
>>   VERTICAL=vertical, $
>>   LINESTYLE=linestyle, $
>>   THICK=thick, $
>>   COLOR=color
>>
>>

```

```
>> IF N_Elements(color) EQ 0 THEN color = 'white'
>>
>> IF Keyword_Set(Vertical) THEN BEGIN
>>     PLOTS, [value, value], [!Y.CRange[0], !Y.CRange[1]], $
>
> why not simply
>     PLOTS, [value, value], !Y.CRange, $
>
>>     LINESSTYLE=linestyle, THICK=thick, $
>>     COLOR=FSC_Color(String(color))
>> ENDIF ELSE BEGIN
>>     PLOTS, [!X.CRange[0], !X.CRange[1]], [value, value], $
>
> and similarly
>     PLOTS, !X.CRange, [value, value], $
>
> ?
```

Pedantry. :-)

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

Sepore ma de ni thui. ("Perhaps thou speakest truth.")
