
Subject: Re: Adding straight lines to a plot
Posted by [penteado](#) on Thu, 11 Nov 2010 22:38:26 GMT
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On Nov 11, 8:28 pm, fgg <fabioquimaraesgoncal...@gmail.com> wrote:

> 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

The easiest way is to overplot a line. That is, overplot two 2-element arrays, one with the initial and final x, the other with the initial and final y.

Subject: Re: Adding straight lines to a plot
Posted by [David Fanning](#) on Thu, 11 Nov 2010 23:02:35 GMT
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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]], $  
    LINESTYLE=linestyle, THICK=thick, $  
    COLOR=FSC_Color(String(color))  
ENDIF ELSE BEGIN  
  PLOTS, [!X.CRange[0], !X.CRange[1]], [value, value], $  
    LINESTYLE=linestyle, THICK=thick, $
```

```
COLOR=FSC_Color(color)
ENDELSE
```

END

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.")

Subject: Re: Adding straight lines to a plot
Posted by [fgg](#) on Thu, 11 Nov 2010 23:22:46 GMT
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Thanks a lot!

Subject: Re: Adding straight lines to a plot
Posted by [Paul Van Delst\[1\]](#) on Fri, 12 Nov 2010 14:32:38 GMT
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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, $
```

```
> LINESTYLE=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
```

```
>
```

```
>
```