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Subject: Labeling Lines of Data

Posted by [Ali Gamal](#) on Tue, 26 Apr 2016 13:27:28 GMT

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Hi,

I have IDL program as

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```
file='/home/1.out'
```

```
openr,1,file
```

```
nh=50
```

```
falc=fltarr(11,nh)
```

```
readf,1,falc
```

```
tau5000=falc(0,*)
```

```
dep1=falc(1,*)
```

```
dep2=falc(2,*)
```

```
dep3=falc(3,*)
```

```
dep4=falc(4,*)
```

```
dep5=falc(5,*)
```

```
dep6=falc(6,*)
```

```
dep7=falc(7,*)
```

```
dep8=falc(8,*)
```

```
dep9=falc(9,*)
```

```
dep10=falc(10,*)
```

```
cgPLOT, tau5000, dep1,xrange=[-4.9,0.85],yrange=[-1.5,0.8],Thick=2,xstyle=2
```

```
plots,1,1,/continue
```

```
OPLOT,tau5000,dep2,linestyle=0 ;2
```

```
OPLOT,tau5000,dep3,linestyle=0 ;3
```

```
OPLOT,tau5000,dep4,linestyle=0 ;4
```

```
OPLOT,tau5000,dep5,linestyle=0 ;5
```

```
OPLOT,tau5000,dep6,linestyle=0 ;6
```

```
OPLOT,tau5000,dep7,linestyle=0 ;7
```

```
OPLOT,tau5000,dep8,linestyle=0 ;8
```

```
OPLOT,tau5000,dep9,linestyle=0 ;9
```

```
OPLOT,tau5000,dep10,linestyle=0 ;10
```

\*\*\*\*\*

I want to label dep1, 2, 3 and so on as 'dep1', 'dep2'

How can I do it

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Subject: Re: Labeling Lines of Data

Posted by [wlandsman](#) on Tue, 26 Apr 2016 16:32:46 GMT

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First, two pieces of advice to avoid future troubles.

1. Don't subscript with parentheses but use square brackets  $\text{tau5000}=\text{falc}[0,*]$   
Parentheses were deprecated starting in 1997.
2. Don't mix Coyote graphics and standard graphics. If you use cgPLOT then also use cgOPLOT

Use CGTEXT to label your lines. You can either supply the X,Y coordinates where you want the label to appear, or use the /PLACE keyword to interactively place them with your cursor.

On Tuesday, April 26, 2016 at 9:27:31 AM UTC-4, Ali Gamal wrote:

```
> Hi,  
>  
> I have IDL program as  
> *****  
> file='/home/1.out'  
> openr,1,file  
> nh=50  
> falc=fltarr(11,nh)  
> readf,1,falc  
> tau5000=falc(0,*)  
> dep1=falc(1,*)  
> dep2=falc(2,*)  
> dep3=falc(3,*)  
> dep4=falc(4,*)  
> dep5=falc(5,*)  
> dep6=falc(6,*)  
> dep7=falc(7,*)  
> dep8=falc(8,*)  
> dep9=falc(9,*)  
> dep10=falc(10,*)  
>  
> cgPLOT, tau5000, dep1,xrange=[-4.9,0.85],yrange=[-1.5,0.8],Thick=2,xstyle=2  
>  
> plots,1,1,/continue  
> OPLOT,tau5000,dep2,linestyle=0 ;2  
> OPLOT,tau5000,dep3,linestyle=0 ;3  
> OPLOT,tau5000,dep4,linestyle=0 ;4  
> OPLOT,tau5000,dep5,linestyle=0 ;5  
> OPLOT,tau5000,dep6,linestyle=0 ;6  
> OPLOT,tau5000,dep7,linestyle=0 ;7  
> OPLOT,tau5000,dep8,linestyle=0 ;8  
> OPLOT,tau5000,dep9,linestyle=0 ;9  
> OPLOT,tau5000,dep10,linestyle=0 ;10  
> *****  
> I want to label dep1, 2, 3 and so on as 'dep1', 'dep2'  
>  
> How can I do it
```

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Subject: Re: Labeling Lines of Data

Posted by [Ali Gamal](#) on Tue, 26 Apr 2016 18:48:21 GMT

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On Tuesday, April 26, 2016 at 3:27:31 PM UTC+2, Ali Gamal wrote:

```
> Hi,  
>  
> I have IDL program as  
> *****  
> file='/home/1.out'  
> openr,1,file  
> nh=50  
> falc=fltarr(11,nh)  
> readf,1,falc  
> tau5000=falc(0,*)  
> dep1=falc(1,*)  
> dep2=falc(2,*)  
> dep3=falc(3,*)  
> dep4=falc(4,*)  
> dep5=falc(5,*)  
> dep6=falc(6,*)  
> dep7=falc(7,*)  
> dep8=falc(8,*)  
> dep9=falc(9,*)  
> dep10=falc(10,*)  
>  
> cgPLOT, tau5000, dep1,xrange=[-4.9,0.85],yrange=[-1.5,0.8],Thick=2,xstyle=2  
>  
> plots,1,1,/continue  
> OPLOT,tau5000,dep2,linestyle=0 ;2  
> OPLOT,tau5000,dep3,linestyle=0 ;3  
> OPLOT,tau5000,dep4,linestyle=0 ;4  
> OPLOT,tau5000,dep5,linestyle=0 ;5  
> OPLOT,tau5000,dep6,linestyle=0 ;6  
> OPLOT,tau5000,dep7,linestyle=0 ;7  
> OPLOT,tau5000,dep8,linestyle=0 ;8  
> OPLOT,tau5000,dep9,linestyle=0 ;9  
> OPLOT,tau5000,dep10,linestyle=0 ;10  
> *****  
> I want to label dep1, 2, 3 and so on as 'dep1', 'dep2'  
>  
> How can I do it
```

Thanks a lot, I want to make my program determine X, Y at end of each plot, How can I do It ?  
I tried to make y=dep1 or 2 but it did not work correctly

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Subject: Re: Labeling Lines of Data

Posted by [Jeremy Bailin](#) on Thu, 28 Apr 2016 17:32:11 GMT

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On Tuesday, April 26, 2016 at 1:48:23 PM UTC-5, Ali Gamal wrote:

> On Tuesday, April 26, 2016 at 3:27:31 PM UTC+2, Ali Gamal wrote:

>> Hi,

>>

>> I have IDL program as

>> \*\*\*\*\*

>> file='!/home/1.out'

>> openr,1,file

>> nh=50

>> falc=fltarr(11,nh)

>> readf,1,falc

>> tau5000=falc(0,\*)

>> dep1=falc(1,\*)

>> dep2=falc(2,\*)

>> dep3=falc(3,\*)

>> dep4=falc(4,\*)

>> dep5=falc(5,\*)

>> dep6=falc(6,\*)

>> dep7=falc(7,\*)

>> dep8=falc(8,\*)

>> dep9=falc(9,\*)

>> dep10=falc(10,\*)

>>

>> cgPLOT, tau5000, dep1,xrange=[-4.9,0.85],yrange=[-1.5,0.8],Thick=2,xstyle=2

>>

>> plots,1,1,/continue

>> OPLOT,tau5000,dep2,linestyle=0 ;2

>> OPLOT,tau5000,dep3,linestyle=0 ;3

>> OPLOT,tau5000,dep4,linestyle=0 ;4

>> OPLOT,tau5000,dep5,linestyle=0 ;5

>> OPLOT,tau5000,dep6,linestyle=0 ;6

>> OPLOT,tau5000,dep7,linestyle=0 ;7

>> OPLOT,tau5000,dep8,linestyle=0 ;8

>> OPLOT,tau5000,dep9,linestyle=0 ;9

>> OPLOT,tau5000,dep10,linestyle=0 ;10

>> \*\*\*\*\*

>> I want to label dep1, 2, 3 and so on as 'dep1', 'dep2'

>>

>> How can I do it

>

> Thanks a lot, I want to make my program determine X, Y at end of each plot, How can I do It ?

> I tried to make y=dep1 or 2 but it did not work correctly

If you just mean the last value, then you can use

y = dep1[N\_ELEMENTS(dep1)-1]

-Jeremy.

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