
Subject: Fill the under of a x-y plot

Posted by [d.poreh](#) on Mon, 30 Jan 2012 19:47:37 GMT

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Folks

hi,

I have a x-y plot and i want to fill under of the graph with a polygon with a specified color. i saw an example in help but i do not know how to do that in my case. can sb help pls. my data is st like this:

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130.85,4570.745
261.7,4503.422
392.55,4427.584
523.4,4352.976
654.25,4292.612
785.1,4250.424
915.95,4216.291
1046.8,4203.354
1177.6,4202
1308.5,4202
1439.3,4228.552
1570.2,4243.332
1701,4233.284
1831.9,4244.947
1962.7,4254.814
2093.6,4289.623
2224.4,4279.751
2355.3,4258.601
2486.1,4243.937
2617,4220.519
2747.8,4208.247
2878.7,4203.115
3009.5,4210.122
3140.4,4234.804
3271.2,4256.684
3402.1,4275.718
3532.9,4304.727
3663.8,4303.549
3794.6,4263.894
3925.5,4207.462
4056.3,4157.35
4187.2,4109.001
4318,4066.732
.....

Cheers,
Dave

Subject: Re: Fill the under of a x-y plot

Posted by [lecacheux.alain](#) on Tue, 31 Jan 2012 23:21:00 GMT

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On 30 jan, 20:47, DavePoreh <d.po...@gmail.com> wrote:

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> 4318,4066.732

>

>

> Cheers,

> Dave

You may add a polygon annotation, as follows:

in DG:

```
device, DECOMPOSED=0
```

```
loadct,0
```

```
plot,x,y,/XST,XTICKLEN=-0.03,YTICKLEN=-0.02,/YNOZERO
```

```
polyfill,[x[0],x,x[-1]],[!Y.CRange[0],y,!Y.CRange[0]],COL=10 0
```

```
plot,x,y,/XST,XTICKLEN=-0.03,YTICKLEN=-0.02,/YNOZERO,/NOERAS E
```

in NG:

```
pl=plot(x,y,/XTICKDIR,/YTICKDIR,XSTYLE=1)
```

```
poly=polygon([x[0],x,x[-1]],[0,y,0],/DATA,/
```

```
FILL_BACKGROUND,FILL_COLOR='light_grey')
```

The trick is to complete your data, so that the polygon get closed.

In DG, some cosmetics is needed.

alx.

Subject: Re: Fill the under of a x-y plot

Posted by [d.poreh](#) on Thu, 02 Feb 2012 06:14:47 GMT

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On Jan 31, 3:21 pm, alx <lecacheux.al...@wanadoo.fr> wrote:

> On 30 jan, 20:47, DavePoreh <d.po...@gmail.com> wrote:

>

>

>

>

>

>

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>> 4318,4066.732
>> .....
>
>> Cheers,
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>
> You may add a polygon annotation, as follows:
>
> in DG:
> device, DECOMPOSED=0
> loadct,0
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> plot,x,y,/XST,XTICKLEN=-0.03,YTICKLEN=-0.02,/YNOZERO,/NOERAS E
>
> in NG:
> pl=plot(x,y,/XTICKDIR,/YTICKDIR,XSTYLE=1)
> poly=polygon([x[0],x,x[-1]],[0,y,0],/DATA,/
> FILL_BACKGROUND,FILL_COLOR='light_grey')
>
> The trick is to complete your data, so that the polygon get closed.
> In DG, some cosmetics is needed.
>

```

> alx.

Thanks Alx

I did st like this:

```
p1 = plot(a(0,*)/1000, a(1,*), COLOR='blue', /XTICKDIR, /YTICKDIR,
THICK=3)
poly1 = polygon([a(0,*)[0],a(0,*),a(0,*)[-1]], [0,a(1,*),0], /DATA,/
FILL_BACKGROUND,FILL_COLOR='light_grey')
/FILL_BACKGROUND, FILL_COLOR=!COLOR.DEEP_PINK, FILL_TRANSPARENCY=50)
```

but i have got my plot and a big polygon covers it!!!

what is wrong with that?

Cheers,

Dave

Subject: Re: Fill the under of a x-y plot

Posted by [lecacheux.alain](#) on Thu, 02 Feb 2012 15:53:04 GMT

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On 2 fév, 07:14, DavePoreh <d.po...@gmail.com> wrote:

> On Jan 31, 3:21 pm, alx <lecacheux.al...@wanadoo.fr> wrote:

>

>

>

>

>

>> On 30 jan, 20:47, DavePoreh <d.po...@gmail.com> wrote:

>

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>> The trick is to complete your data, so that the polygon get closed.
>> In DG, some cosmetics is needed.
>
>> alx.
>
> Thanks Alx
> I did st like this:
>

```

You likely forgot to divide by 1000 the abscissa in the 'polygon' statement.
Try instead:

```
a = transpose(a)
poly1 = polygon([a[0,0],a[*,0],a[-1,0]]/1000, [0,a[*,1],0], /
DATA, ...)
```

```
On Feb 2, 7:53 am, alx <lecacheux.al...@wanadoo.fr> wrote:
> On 2 fév, 07:14, DavePoreh <d.po...@gmail.com> wrote:
>
>
>
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>
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>> Dave- Masquer le texte des messages précédents -
>
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> DATA, ...)

```

you are absolutely right. my mistake. Thanks again.

Cheers,

Dave