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Subject: Re: Fill the under of a x-y plot  
Posted by [Russell\[1\]](#) on Mon, 30 Jan 2012 21:02:50 GMT  
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On Jan 30, 2:47 pm, DavePoreh <d.po...@gmail.com> wrote:

> 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:  
> 0,4564.723  
> 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

There are many ways to skin this cat. Here's the one I use:

```
;read the data, this is an astronomy routine:  
readcol,'data.data',x,y,delim=',',/silent,count=n  
  
xr=[0,5000] & yr=[0,5000] ;ranges for plot  
plot,[0],[0],xr=xr,yr=yr,xst=9,yst=9,/nodata ;define the plot coord  
system  
loadct,13,/sil ;define a color table  
color=230 ;a red color from the  
table  
  
;shade the region:  
for i=0,n-2 do polyfill,xr(0)>[x(i),x(i+1),x(i+1),x(i)]<xr(1),$  
    yr(0)>[0.0,0.0,y(i+1),y(i+1)]<yr(1),$  
    color=color  
loadct,0,/silent ;load the B&W table  
oplot,x,y,ps=2 ;plot the data  
plot,[0],[0],xr=xr,yr=yr,xst=1,yst=1,/noerase,$  
    xtit='X title',ytit='Y title'
```

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