
Subject: Creating a legend on graphs in postscript, and maps

Posted by [wdolan](#) on Thu, 16 Jul 2015 15:51:31 GMT

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I've got a working code that prints graphs to a postscript file, but I can't seem to get a legend to work. I have the whole set_plot, 'ps' stuff at the top of the code, so that should be running fine. But I can't seem to get a legend to appear. The plot is first set up early in the code:

```
plot, [0, 90], [0,1], TITLE= 'run'+rnid, ystyle=8, XTITLE= 'Latitude', /nodata, position=[ .2,.2, .75,.9]
axis, yaxis = 0, yrange= [0,1], /save, ytitle = 'Ethylene Strength (K)'
```

and then the first set of data is plotted on it:

```
if AvgEth LT GenDo AND AvgEth GT Gen125Do then begin
  plots, btstruc.latitude(rnscan(j)), diff, col=240, psym=1
endif else if AvgEth LT Gen125Do AND AvgEth GT Gen150Do then begin
  plots, btstruc.latitude(rnscan(j)), diff, col=220, psym=1
endif else if AvgEth LT Gen150Do AND AvgEth GT Gen175Do then begin
  plots, btstruc.latitude(rnscan(j)), diff, col=200, psym=1
endif else if AvgEth LT Gen175Do AND AvgEth GT Gen2Do then begin
  plots, btstruc.latitude(rnscan(j)), diff, col=170, psym=1
endif else if AvgEth LT Gen2Do then begin
  plots, btstruc.latitude(rnscan(j)), diff, col=130, psym=1
endif
```

And then we make another Y axis, and plot that data on it:

```
axis, yaxis=1, yrange=[0,3E-7], ytitle='CO Concentration(ppv)', /save
grun=where(strucCo.run EQ rnid)
oplot, strucCO.latitude(grun), StrucCO.Species(minpos,grun)
oplot, [!x.crange(0), !x.crange[1]], [avgCO, avgCO], linestyle = 5
```

I've also got a map, not in postscript, that needs a legend. This is what the code looks like thus far for this part:

```
set_plot, 'x'
map_set, /NOERASE
map_continents
lat = btstruc.latitude(rnscan(j))
lon = btstruc.longitude(rnscan(j))
if AvgEth LT GenDo AND AvgEth GT Gen125Do then begin
  plots, lon, lat, col=250, psym=1
endif else if AvgEth LT Gen125Do AND AvgEth GT Gen150Do then begin
  plots, lon, lat, col=220, psym=1
endif else if AvgEth LT Gen150Do AND AvgEth GT Gen175Do then begin
  plots, lon, lat, col= 200, psym=1
endif else if AvgEth LT Gen175Do AND AvgEth GT Gen2Do then begin
  plots, lon, lat, col=170, psym=1
endif else if AvgEth LT Gen2Do then begin
  plots, lon, lat, col=130, psym=1
endif
```

It doesn't seem like there is just a basic legend command. Or if there is, everything has to be in the format of `p1=plot(x, y, etc.)`, and `leg=legend(blah)` but that style doesn't seem to want to print to postscript.

Thanks for helping out a newbie!

Subject: Re: Creating a legend on graphs in postscript, and maps

Posted by [Fabzi](#) on Thu, 16 Jul 2015 17:35:12 GMT

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On 07/16/2015 05:51 PM, wdolan@oxy.edu wrote:

> It doesn't seem like there is just a basic legend command

<http://www.idlcoyote.com/gallery/>

Example #2

Cheers,

Fabien

Subject: Re: Creating a legend on graphs in postscript, and maps

Posted by [wdolan](#) on Thu, 16 Jul 2015 18:23:22 GMT

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Hi Fabian,

Thanks! I didn't have the coyote graphics before, but I just downloaded it to the place where all my files are located. When I type `cglegend` (or any of the `cg` commands), it says that it doesn't recognize the procedure. How do I get it to recognize the `cg` functions?

On Thursday, July 16, 2015 at 10:35:15 AM UTC-7, Fabien wrote:

> On 07/16/2015 05:51 PM, wdolan@oxy.edu wrote:

>> It doesn't seem like there is just a basic legend command

>

> <http://www.idlcoyote.com/gallery/>

>

> Example #2

>

> Cheers,

>

> Fabien

Subject: Re: Creating a legend on graphs in postscript, and maps
Posted by [wlandsman](#) on Thu, 16 Jul 2015 22:42:33 GMT
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There is something wrong with the way your !path is set up for IDL. Look at

http://www.idlcoyote.com/code_tips/installcoyote.php

for advice on setting up your !path on Windows or Unix.

On Thursday, July 16, 2015 at 2:23:24 PM UTC-4, wdo...@oxy.edu wrote:

> Hi Fabian,

>

> Thanks! I didn't have the coyote graphics before, but I just downloaded it to the place where all my files are located. When I type cglegend (or any of the cg commands), it says that it doesn't recognize the procedure. How do I get it to recognize the cg functions?

>

Subject: Re: Creating a legend on graphs in postscript, and maps
Posted by [wdolan](#) on Fri, 17 Jul 2015 17:45:59 GMT
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Great, thank you! All fixed.

On Thursday, July 16, 2015 at 3:42:38 PM UTC-7, wlandsman wrote:

> There is something wrong with the way your !path is set up for IDL. Look at

>

> http://www.idlcoyote.com/code_tips/installcoyote.php

>

> for advice on setting up your !path on Windows or Unix.

>

> On Thursday, July 16, 2015 at 2:23:24 PM UTC-4, wdo...@oxy.edu wrote:

>> Hi Fabian,

>>

>> Thanks! I didn't have the coyote graphics before, but I just downloaded it to the place where all my files are located. When I type cglegend (or any of the cg commands), it says that it doesn't recognize the procedure. How do I get it to recognize the cg functions?

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