
Subject: How to disable tick labels on right and top when using cgMap?

Posted by [atmospheric physics](#) on Thu, 17 Jul 2014 13:14:07 GMT

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Hello,

In the coyote plot gallery, how can I disable the right (latitude) and top (longitude) tick labels in the figure shown at http://www.idlcoyote.com/gallery/point_source_plot.png

The code is given at:

http://www.idlcoyote.com/gallery/point_source_plot.pro

Thanks in advance,

Subject: Re: How to disable tick labels on right and top when using cgMap?

Posted by [David Fanning](#) on Thu, 17 Jul 2014 13:27:26 GMT

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Madhavan Bomidi writes:

> In the coyote plot gallery, how can I disable the right (latitude) and top (longitude) tick labels in the figure shown at http://www.idlcoyote.com/gallery/point_source_plot.png

>

> The code is given at:

> http://www.idlcoyote.com/gallery/point_source_plot.pro

Set the BLABEL keyword to 1 on the cgMap_Grid command.

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

Coyote's Guide to IDL Programming: <http://www.idlcoyote.com/>

Sepore ma de ni thue. ("Perhaps thou speakest truth.")

Subject: Re: How to disable tick labels on right and top when using cgMap?

Posted by [atmospheric physics](#) on Thu, 17 Jul 2014 14:45:28 GMT

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Hello David,

It works. Thanks.

I have another question. I am using cgHistoplot function to plot a probability density function (PDF) for my data. When I see the plot, I find that the ticks on x-axis are both inward and outward. How can I disable outward ticks? Where am I going wrong in my below code? Please correct me!!!

Below are the command lines I am using for the plot:

```
data1 = randomu(seed,99)
data2 = randomu(seed,99)

cgHistoplot,data1, /NAN, DataColorName=cgColor('red'),Thick=3, $
  XRange=[0.0,1.2],YRange=[0.0,1.0],Charsize=0.85,/Outline, $
  XTitle='data1 / data2',Font=-1, $
  XTICKFORMAT='(F0.1)',YTICKFORMAT='(F0.1)', Line_Thick=3, $
  XSTYLE=8, YSTYLE=1,/Frequency, $
  YTitle='Probability Density Function (PDF)'

cgHistoplot,data2, /NAN, DataColorName=cgColor('black'),Thick=3, $
  Line_Thick=3,/OPLLOT,/Frequency,/Outline

cgLegend,Title=['data1', 'data2'], $
  LineStyle=[0,0],Length=0.01,Vspace=1.3, $
  Color=cgColor('red'),cgColor('black')], $
  Location=[0.1,0.95],Charsize=0.68, $
  TT_Font='Simplex Roman',/Data
```

Thanks in advance

Subject: Re: How to disable tick labels on right and top when using cgMap?

Posted by [David Fanning](#) on Thu, 17 Jul 2014 15:29:47 GMT

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Madhavan Bomidi writes:

> I have another question. I am using cgHistoplot function to plot a probability density function (PDF) for my data. When I see the plot, I find that the ticks on x-axis are both inward and outward. How can I disable outward ticks? Where am I going wrong in my below code? Please correct me!!!

>

> Below are the command lines I am using for the plot:

>

> data1 = randomu(seed,99)

> data2 = randomu(seed,99)

>

> cgHistoplot,data1, /NAN, DataColorName=cgColor('red'),Thick=3, \$

```

> XRange=[0.0,1.2],YRange=[0.0,1.0],Charsize=0.85,/Outline, $
> XTitle='data1 / data2',Font=-1, $
> XTICKFORMAT='(F0.1)',YTICKFORMAT='(F0.1)', Line_Thick=3, $
> XSTYLE=8, YSTYLE=1,/Frequency, $
> YTitle='Probablity Density Function (PDF)'
>
> cgHistoplot,data2, /NAN, DataColorName=cgColor('black'),Thick=3, $
> Line_Thick=3,/OPlot,/Frequency,/Outline
>
> cgLegend,Title=['data1', 'data2'], $
> LineStyle=[0,0],Length=0.01,Vspace=1.3, $
> Color=cgColor('red'),cgColor('black')], $
> Location=[0.1,0.95],Charsize=0.68, $
> TT_Font='Simplex Roman',/Data
>
> Thanks in advance

```

I notice you like to use a lot of keywords and such that are unnecessary with Coyote Graphics. For example, you can delete ALL references to cgColor in this code, and just use the colors themselves. In fact, you will get into trouble if you use cgColor like this sooner or later.

In this case, the problem is your use of the XSTYLE keyword. Why are you using it? In cgHistoplot, I first draw the plot in "invisible" mode, just to establish the coordinate system. This is necessary because I have to repair the axes later, after I damage them by drawing polygons. To draw axes "invisibly", I have to set the XSTYLE keyword on the Plot command. But, your use of XSTYLE here overrules mine (keyword inheritance biting us in the butt again!) and it draws just the X axis, but visibly this time. Unfortunately, you are drawing the axis with the ticks up, and I want to draw them with the ticks down, so... You see what happens.

I don't see any obvious reason why you are using XSTYLE here. Doesn't this code give you what you want?

```

cgHistoplot,data1, /NAN, DataColorName='red', $
  XRange=[0.0,1.2],YRange=[0.0,1.0],Charsize=0.85,/Outline, $
  XTitle='data1 / data2',$
  XTICKFORMAT='(F0.1)',YTICKFORMAT='(F0.1)', $
  /Frequency, $
  YTitle='Probablity Density Function (PDF)'

cgHistoplot,data2, /NAN, DataColorName='black', $
  /OPlot,/Frequency,/Outline

cgLegend,Title=['data1', 'data2'], $
  LineStyle=[0,0],Length=0.01,Vspace=1.3, $

```

```
Color=['red','black'], $  
Location=[0.1,0.95],Charsize=0.68, $  
TT_Font='Simplex Roman',/Data
```

Cheers,

David

--

David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: <http://www.idlcoyote.com/>
Sepore ma de ni thue. ("Perhaps thou speakest truth.")

Subject: Re: How to disable tick labels on right and top when using cgMap?
Posted by [atmospheric physics](#) on Thu, 17 Jul 2014 15:56:12 GMT
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Hello David,

I want my ticks up (inwards) and not down. Is it not possible to do that when using cgHistoplot?

Thanks in advance

Subject: Re: How to disable tick labels on right and top when using cgMap?
Posted by [David Fanning](#) on Thu, 17 Jul 2014 16:01:01 GMT
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Madhavan Bomidi writes:

> I want my ticks up (inwards) and not down. Is it not possible to do that when using cgHistoplot?

Not with the code as written. Upward ticks interfere with the histogram polygons that are drawn. Of course, you aren't using polygons, but this seems like a needless complication to me. You can probably get what you want, just by using PLOT, Histogram(data), ..., PSYM=10.

Cheers,

David

--

David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: <http://www.idlcoyote.com/>

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Subject: Re: How to disable tick labels on right and top when using cgMap?

Posted by [atmospheric physics](#) on Fri, 18 Jul 2014 08:17:03 GMT

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Thanks for the clarification and suggestion.

Regards,
Madhavan
