
Subject: A grid is overlaid on an image
Posted by [g.nacarts](#) on Tue, 24 Jun 2014 09:36:21 GMT
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Hi

I was trying to plot a grid overlay my image. I found the OVERLAY function but this overlay a contour on an image. Does anyone knows if there is anything available in IDL to plot a grid overlay on the image?

Regards,
Gina

Subject: Re: A grid is overlaid on an image
Posted by [Matthew Argall](#) on Tue, 24 Jun 2014 15:30:50 GMT
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Below are two examples using the plot and image functions. If you want to use maps, you might try the MAPGRID keyword (but that is a guess...). You can use the OVERPLOT keyword with Plot() to put it on an image, too.

```
IDL> p1 = plot(/TEST)
% Loaded DLM: XML.
IDL> (p1.axes)[0] -> SetProperty, TICKLEN=1.0, SUBTICKLEN=0.02
IDL> (p1.axes)[1] -> SetProperty, TICKLEN=1.0, SUBTICKLEN=0.02

IDL> im1 = image(/TEST)
% Loaded DLM: JPEG.
IDL> im1 = image(/test, AXIS_STYLE=2)
IDL> (im1.axes)[0] -> SetProperty, TICKLEN=1.0, SUBTICKLEN=0.02
IDL> (im1.axes)[1] -> SetProperty, TICKLEN=1.0, SUBTICKLEN=0.02
```

Subject: Re: A grid is overlaid on an image
Posted by [g.nacarts](#) on Tue, 24 Jun 2014 15:59:18 GMT
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I tried to use your example but I got the following error:

% Variable is undefined: PLOT.

Subject: Re: A grid is overlaid on an image
Posted by [David Fanning](#) on Tue, 24 Jun 2014 16:36:40 GMT

g.nacarts@gmail.com writes:

> I was trying to plot a grid overlay my image. I found the OVERLAY function but this overlay a contour on an image. Does anyone knows if there is anything available in IDL to plot a grid overlay on the image?

http://www.idlcoyote.com/graphics_tips/grid.html

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

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

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

Subject: Re: A grid is overlaid on an image

Posted by [g.nacarts](#) on Tue, 24 Jun 2014 18:45:03 GMT

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I came across with this link David but in my case I use the cgimage to display the image and the keywords XTicklen, YTicklen etc are not allowed in the cgimage function.

Subject: Re: A grid is overlaid on an image

Posted by [Matthew Argall](#) on Tue, 24 Jun 2014 19:13:54 GMT

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Try the AXKEYWORDS keyword

```
cgImage, cgDemoData(16), XRANGE=[0,227], AXKEYWORDS={xticklen: 1.0, yticklen: 1.0},  
POSITION=[0.25, 0.25, 0.75, 0.75], /AXES
```

Subject: Re: A grid is overlaid on an image

Posted by [David Fanning](#) on Tue, 24 Jun 2014 19:15:18 GMT

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g.nacarts@gmail.com writes:

>

> I came across with this link David but in my case I use the cgimage to display the image and the keywords XTicklen, YTicklen etc are not allowed in the cgimage function.

```
IDL> cgImage, cgDemoData(7), /AXES, AXKeywords={XTickLen:1.0, $
      YTickLen:1.0, axiscolor:'navy'}
```

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

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

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

Subject: Re: A grid is overlaid on an image

Posted by [g.nacarts](#) on Wed, 25 Jun 2014 10:15:18 GMT

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1.The distance between the lines is 100 each. It's possible to minimize this in order to have more squares in the image?

2.Also the axes show a short lines after 10 points each time. It's possible to remove these short lines?

Regards,
Gina

Subject: Re: A grid is overlaid on an image

Posted by [Helder Marchetto](#) on Wed, 25 Jun 2014 10:43:03 GMT

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On Wednesday, June 25, 2014 12:15:18 PM UTC+2, g.na...@gmail.com wrote:

> 1.The distance between the lines is 100 each. It's possible to minimize this in order to have more squares in the image?

>

>

>

> 2.Also the axes show a short lines after 10 points each time. It's possible to remove these short lines?

>

>

>

> Regards,

>

> Gina

Seems pretty straight forward. From the help of the plot procedure:
http://www.exelisvis.com/docs/PLOT_Procedure.html

```
cgImage, cgDemoData(7), /AXES, AXKeywords={XTickLen:1.0, YTickLen:1.0, axiscolor:'navy',  
xminor:1, yminor:1, xtickinterval:60, ytickinterval:40}
```

If you wish, you may alternatively specify the number of tick intervals instead of the distance between ticks. Then you would have to use the keyword "[xy]ticks".

Cheers,
Helder

Subject: Re: A grid is overlaid on an image
Posted by [g.nacarts](#) on Wed, 25 Jun 2014 12:48:11 GMT
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Thank you very much.

Gina
