
Subject: Overplot grid

Posted by [Jordan Guerra](#) on Thu, 07 Nov 2013 19:00:24 GMT

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Hello everyone.

Let us say I have an image and I divide that image in a 100x100 square pieces of the same size. How can I overplot a a grid to this image in which I highlight an specific subfield? I mean, if I have some other plot that I calculated from the subfield (X,Y) and I want to be able to locale and frame that and only that location in the whole image, so I can see any particular feature within this rectangle.

Any idea?

Many thanks.

Subject: Re: Overplot grid

Posted by [David Fanning](#) on Thu, 07 Nov 2013 19:20:05 GMT

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Jordan Guerra writes:

> Let us say I have an image and I divide that image in a 100x100 square pieces of the same size. How can I overplot a a grid to this image in which I highlight an specific subfield? I mean, if I have some other plot that I calculated from the subfield (X,Y) and I want to be able to locale and frame that and only that location in the whole image, so I can see any particular feature within this rectangle.

>

> Any idea?

Here is a grid cell overlayed with a gray-scale transparency to call attention to it. You can change the value of the Transparent keyword to make it more or less prominent:

```
image = Congrid(cgDemoData(18), 50, 50)
cgDisplay, 500, 500
cgLoadCT, 4, /Brewer, /Reverse
cgImage, image, XRange=[0,10], YRange=[0,10], /Save
FOR j=1,9 DO cgPlotS, [0,10], [j,j], Color='Navy'
FOR j=1,9 DO cgPlotS, [j,j], [0,10], Color='Navy'
cgImage, image[35:39,25:29], XRange=[7,8], YRange=[5,6], /Overplot, $
  Transparent=25, CTIndex=0
END
```

--

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: Overplot grid
Posted by [David Fanning](#) on Thu, 07 Nov 2013 19:35:15 GMT
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David Fanning writes:

```
>
> Jordan Guerra writes:
>
>> Let us say I have an image and I divide that image in a 100x100 square
> pieces of the same size. How can I overplot a a grid to this image in
> which I highlight an specific subfield? I mean, if I have some other
> plot that I calculated from the subfield (X,Y) and I want to be able to
> locale and frame that and only that location in the whole image, so I
> can see any particular feature within this rectangle.
>>
>> Any idea?
>
> Here is a grid cell overlaid with a gray-scale transparency to call
> attention to it. You can change the value of the Transparent keyword
> to make it more or less prominent:
>
> image = Congrid(cgDemoData(18), 50, 50)
> cgDisplay, 500, 500
> cgLoadCT, 4, /Brewer, /Reverse
> cgImage, image, XRange=[0,10], YRange=[0,10], /Save
> FOR j=1,9 DO cgPlotS, [0,10], [j,j], Color='Navy'
> FOR j=1,9 DO cgPlotS, [j,j], [0,10], Color='Navy'
> cgImage, image[35:39,25:29], XRange=[7,8], YRange=[5,6], /Overplot, $
>   Transparent=25, CTIndex=0
> END
```

Maybe this is easier to see what we are doing:

```
image = Congrid(cgDemoData(13), 500, 500)
cgDisplay, 500, 500
cgLoadCT, 0
cgImage, image, XRange=[0,10], YRange=[0,10], /Save
FOR j=1,9 DO cgPlotS, [0,10], [j,j], Color='Khaki'
FOR j=1,9 DO cgPlotS, [j,j], [0,10], Color='Khaki'
cgImage, image[350:399,250:299], XRange=[7,8], YRange=[5,6],$
/Overplot, Transparent=70, CTIndex=33
```

END

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

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