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Subject: Missing value and Image size in Image, Function Graphic

Posted by [Gompie](#) on Mon, 06 Jan 2014 21:20:53 GMT

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Hi

I am using image function graphic. I want to achieve the effect of

`cgimage,2d_array, missing_value=0,missing_color='white`

in image function. How do I do that?

I tried

`img = IMAGE(rcounts, RGB_TABLE=33, TITLE=TTITLE,min_value=0)` but it does not work.

Second I do I make the size of plotted image bigger so that it looks similar to what i get when i plot using `cgimage`.

This makes the color of missing values white.

Gompie.

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Subject: Re: Missing value and Image size in Image, Function Graphic

Posted by [David Fanning](#) on Mon, 06 Jan 2014 21:54:14 GMT

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Gompie writes:

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>

> This makes the color of missing values white.

I've been mulling over the idea of a Kickstarter campaign to build a simple graphics system using object graphics that works in the intuitive way Coyote Graphics routines work. Would anyone be interested in such a thing?

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.")

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Subject: Re: Missing value and Image size in Image, Function Graphic

Posted by [Gompie](#) on Tue, 07 Jan 2014 02:59:57 GMT

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Hi David,

When I use

`set_plot, 'ps'`

`!p.font=0`

`device, filename='fig_better.eps', encapsulated=1, /helvetica`

I get the following error

CGIMAGE: An AlphaBackgroundImage is required to create transparent images in PostScript.

Anyideas...

GlanPlon

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Subject: Re: Missing value and Image size in Image, Function Graphic

Posted by [David Fanning](#) on Tue, 07 Jan 2014 05:25:10 GMT

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Gompie writes:

> When I use

> `set_plot, 'ps'`

> `!p.font=0`

> `device, filename='fig_better.eps', encapsulated=1, /helvetica`

>

> I get the following error

> CGIMAGE: An AlphaBackgroundImage is required to create transparent images in PostScript.

>

> Anyideas...

Sure. When you use the `MISSING_VALUE` and `MISSING_COLOR` keywords you are using image transparency. To do transparency, you need two 24-bit images. You give me one with `cglImage` and if you are using the graphics window, I can obtain the other, the background image, from the window. But, when I am in the PostScript device I have no way of obtaining the

background image, so you have to give it to me with the AlphaBackgroundImage keyword.

[http://www.idlcoyote.com/cg\\_tips/transimage.php](http://www.idlcoyote.com/cg_tips/transimage.php)

Cheers,

David

--

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Subject: Re: Missing value and Image size in Image, Function Graphic

Posted by [Paul Van Delst\[1\]](#) on Tue, 07 Jan 2014 13:47:59 GMT

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The "CGF" graphics system? Or "CFG"?

I like the idea of that. I'm getting tired of wrestling with the minutiae of standard FG (mostly because I forget what I learned last time...).

It's also something that companies can be convinced to contribute to when they are told how it will help productivity - which can be their reward... doesn't hurt for bid+proposal PR either :o) The more plebian contributors might have to do with a monogrammed coffee cup.

On 01/06/14 16:54, David Fanning wrote:

> Gompie writes:

>

>> I am using image function graphic. I want to achieve the effect of

>>

>> cgimage,2d\_array, missing\_value=0,missing\_color='white

>>

>> in image function. How do I do that?

>>

>> I tried

>> img = IMAGE(rcounts, RGB\_TABLE=33, TITLE=TTITLE,min\_value=0) but it does not work.

>>

>> Second I do I make the size of plotted image bigger so that it looks similar to what i get when i plot using cgimage.

>>

>> This makes the color of missing values white.

>  
> I've been mulling over the idea of a Kickstarter campaign to build a  
> simple graphics system using object graphics that works in the intuitive  
> way Coyote Graphics routines work. Would anyone be interested in such a  
> thing?  
>  
> Cheers,  
>  
> David  
>

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Subject: Re: Missing value and Image size in Image, Function Graphic  
Posted by [Gompie](#) on Tue, 07 Jan 2014 16:06:28 GMT  
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Hi David,  
Following your advice on AlphaBackgroundImage, I tried with the following commands.

```
set_plot, 'ps'  
!p.font=0  
device, filename='fig_better.ps', encapsulated=1, /helvetica
```

```
cgImage, cgDemoData(7), CTIndex=0, XRange=[0,500], YRange=[0,500],  
Margin=0.1, outfile='test.png', output='png', /Save
```

```
cgImage, cgDemoData(5), AlphaBackgroundImage='test.png', CTIndex=33, Transparent=30,  
XRange=[50,250], YRange=[250,450], /Overplot
```

But get the error unexpected dimensions of background Image. I tried with different formats (gif ps etc) of Alphaimage but got the same message.  
Can you help.  
GlanPlon

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Subject: Re: Missing value and Image size in Image, Function Graphic  
Posted by [David Fanning](#) on Tue, 07 Jan 2014 16:22:11 GMT  
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Gompie writes:

> Following your advice on AlphaBackgroundImage, I tried with the following commands.  
>  
> set\_plot, 'ps'  
> !p.font=0  
> device, filename='fig\_better.ps', encapsulated=1, /helvetica  
>

```
> cgImage, cgDemoData(7), CTIndex=0, XRange=[0,500], YRange=[0,500],  
Margin=0.1,outfile='test.png',output='png', /Save  
>  
> cgImage, cgDemoData(5),AlphaBackgroundImage='test.png', CTIndex=33, Transparent=30,  
XRange=[50,250], YRange=[250,450], /Overplot  
>  
> But get the error unexpected dimensions of background Image. I tried with different formats (gif  
ps etc) of AlphaImage but got the same message.
```

Well, uh, the parameter you are passing needs to be an *\*image\**, not the name of a file containing an image. :-)

Generally, you would get the background image like this, before you set up the PostScript device:

```
backgroundImage = cgSnapshot()  
ps_open, 'test.png'  
cgimage, ..., AlphaBackgroundImage = backgroundImage  
ps_close
```

You can find other examples in the Coyote Plot Gallery:

<http://www.idlcoyote.com/gallery/index.html#MULTIPSTRANSPARENT>

Cheers,

David

--

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Subject: Re: Missing value and Image size in Image, Function Graphic  
Posted by [David Fanning](#) on Tue, 07 Jan 2014 16:37:48 GMT  
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David Fanning writes:

```
> Generally, you would get the background image like this, before you set  
> up the PostScript device:  
>  
> backgroundImage = cgSnapshot()  
> ps_open, 'test.png'  
> cgimage, ..., AlphaBackgroundImage = backgroundImage  
> ps_close
```

Whoops! Still getting used to my own software. Blush...

```
backgroundImage = cgSnapshot()
cgps_open, 'test.png'
cgimage, ..., AlphaBackgroundImage = backgroundImage
cgps_close
```

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

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Subject: Re: Missing value and Image size in Image, Function Graphic  
Posted by [markb77](#) on Tue, 07 Jan 2014 17:04:03 GMT

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On Monday, January 6, 2014 10:54:14 PM UTC+1, David Fanning wrote:

> I've been mulling over the idea of a Kickstarter campaign to build a  
>  
> simple graphics system using object graphics that works in the intuitive  
>  
> way Coyote Graphics routines work. Would anyone be interested in such a  
>  
> thing?  
>

I would fund such a project.. Quite a formidable task though.

---

---

Subject: Re: Missing value and Image size in Image, Function Graphic  
Posted by [David Fanning](#) on Tue, 07 Jan 2014 17:32:39 GMT

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superchromix writes:

> I would fund such a project.. Quite a formidable task though.

It would be a fairly big project, but I actually think I have many of the parts laying around here. The graphics part of it, I think, will be fairly trivial and routine. The parts you have to get right are the

window controller and the layout controller. I have some ideas on how those parts can be made as simple as possible.

The danger with objects is always complexity. It is easy to get way too cute and ambitious. Simple, simple, simple is my motto. I think this is the only way object graphics are going to be used by the masses.

And then, of course, there is always the question of who the hell is going to pay you for spending all your time doing such a thing. That's the part I've never been any good at. :-)

Cheers,

David

--

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Subject: Re: Missing value and Image size in Image, Function Graphic

Posted by [Andy Sayer](#) on Tue, 07 Jan 2014 18:09:31 GMT

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I would back it, although as it would almost certainly have to be from my own personal cash than any institutional backing it would be of the order of bucks rather than megabucks. :)

On Tuesday, January 7, 2014 12:32:39 PM UTC-5, David Fanning wrote:

> superchromix writes:

>

>

>

>> I would fund such a project.. Quite a formidable task though.

>

>

>

> It would be a fairly big project, but I actually think I have many of

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> the parts laying around here. The graphics part of it, I think, will be

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>  
>  
> Cheers,  
>  
>  
>  
> David  
>  
>  
>  
> --  
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Subject: Re: Missing value and Image size in Image, Function Graphic  
Posted by [Fabzi](#) on Wed, 08 Jan 2014 12:13:58 GMT  
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To get back to the original topic: how to tell image() that I want the  
NaNs values in my image to be, for example, grey?

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