
Subject: Re: create image in background
Posted by [russell.grew](#) on Thu, 03 Jul 2008 05:31:03 GMT
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set_plot, 'ps'

Subject: Re: create image in background
Posted by [Ivan Zimine](#) on Thu, 03 Jul 2008 09:59:12 GMT
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window, /pixmap

Subject: Re: create image in background
Posted by [ben.bighair](#) on Thu, 03 Jul 2008 12:28:27 GMT
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On Jul 2, 7:27 pm, frankosuna <frankos...@gmail.com> wrote:
> Hello,
>
> I am doing some edge detection work and I wanted to be able to do this
> without having to display or open any windows. I want to be able to
> write the edge detected image in the background. Any suggestions will
> be greatly appreciated.

Hi,

Any array representing an image can be written with displaying it.
Use the WRITE_IMAGE for easy image writing.

Cheers,
Ben

Subject: Re: create image in background
Posted by [Bruce Bowler](#) on Thu, 03 Jul 2008 12:57:57 GMT
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On Thu, 03 Jul 2008 05:28:27 -0700, ben.bighair wrote:

> Any array representing an image can be written with displaying it. Use
insert "out" after with?

> the WRITE_IMAGE for easy image writing.

Bruce :-)

Subject: Re: create image in background
Posted by [ben.bighair](#) on Thu, 03 Jul 2008 13:20:44 GMT
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On Jul 3, 8:57 am, Bruce Bowler <bbow...@bigelow.org> wrote:
> On Thu, 03 Jul 2008 05:28:27 -0700, ben.bighair wrote:
>> Any array representing an image can be written with displaying it. Use
>
> insert "out" after with?
>
>> the WRITE_IMAGE for easy image writing.
>
> Bruce :-)

Yes indeed! And, if you see any marbles rolling down the hall past your door - please catch 'em as they are surely mine!

Cheers,
Ben

P.S. I have been making many more of these kind of missing-word-mishaps recently. It will be OK just as long as my wife continues to find them endearing.

Subject: Re: create image in background
Posted by [frankosuna](#) on Thu, 03 Jul 2008 23:26:27 GMT
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I have the following code and I am generating an image. However, for some reason the image is in colors and is not black and white. It doesn't look like it has been edge detected.

```
mydevice = !D.NAME
```

```
SET_PLOT, 'Z'
```

```
ERASE
```

```
DEVICE, SET_RESOLUTION=[1024,1024]
```

```
filteredImage = SOBEL(img)
```

```
filteredImage=ROTATE(filteredImage, 2)
TVSCL, filteredImage

oplot, filteredImage[*,*]

image = TVRead(Filename='edgeDetect',/NODIALOG,/BMP)

image = READ_BMP('/home/users/fjosuna/CASVU_ISS/edgeDetect.bmp')
OPENW, lun, 'edgeDetect.dat', /GET_LUN
WRITEU, lun, image
FREE_LUN, lun
ERASE
SET_PLOT, mydevice
```

Subject: Re: create image in background
Posted by [frankosuna](#) on Fri, 04 Jul 2008 01:20:32 GMT
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I fixed the problem.. I needed to load color table 0 so the new code looks like this in case anybody else has any problems on doing this. Thanks to everybody for the suggestions and help. Maybe I can finish my Thesis now!! Well appreciated!!

```
LOADCT, 0
mydevice = !D.NAME

SET_PLOT, 'Z'

ERASE

DEVICE, SET_RESOLUTION=[1024,1024]

filteredImage = SOBEL(img)

filteredImage=ROTATE(filteredImage, 2)
TVSCL, filteredImage

oplot, filteredImage[*,*]

image = TVRead(Filename='edgeDetect',/NODIALOG,/BMP)

image = READ_BMP('/home/users/fjosuna/CASVU_ISS/edgeDetect.bmp')
OPENW, lun, 'edgeDetect.dat', /GET_LUN
WRITEU, lun, image
FREE_LUN, lun
ERASE
```

Subject: Re: create image in background
Posted by [ben.bighair](#) on Fri, 04 Jul 2008 01:28:15 GMT
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On Jul 3, 9:20 pm, frankosuna <frankos...@gmail.com> wrote:

- > I fixed the problem.. I needed to load color table 0 so the new code
- > looks like this in case anybody else has any problems on doing
- > this. Thanks to everybody for the suggestions and help. Maybe I can
- > finish my Thesis now!! Well appreciated!!
- >
- > LOADCT, 0
- > mydevice = !D.NAME
- >
- > SET_PLOT, 'Z'
- >
- > ERASE
- >
- > DEVICE, SET_RESOLUTION=[1024,1024]
- >
- > filteredImage = SOBEL(img)
- >
- > filteredImage=ROTATE(filteredImage, 2)
- > TVSCL, filteredImage
- >
- > oplot, filteredImage[*,*]
- >
- > image = TVRead(Filename='edgeDetect',/NODIALOG,/BMP)
- >
- > image = READ_BMP('/home/users/fjosuna/CASVU_ISS/edgeDetect.bmp')
- > OPENW, lun, 'edgeDetect.dat', /GET_LUN
- > WRITEU, lun, image
- > FREE_LUN, lun
- > ERASE
- > SET_PLOT, mydevice

Hi,

I guess I don't understand what you are trying to do. But I am glad it works for you. Just a note, here's an example that creates a filtered image, writes it as a TIFF, reads it back in and then displays it. Note that to create and save the image no device was used. I think this is what you requested originally.

Cheers,
Ben

```
;read the image into an IDL variable
file = FILEPATH('mineral.png', $
    SUBDIRECTORY = ['examples', 'data'])
img = READ_IMAGE(file)

;transform the image
filteredImage = SOBEL(img)
filteredImage=ROTATE(filteredImage, 2)

;write the image to a file - SOBEL returns a signed integer
WRITE_TIFF,"edgeDetect.tif", filteredImage,/SHORT

;to read in the image, use READ_IMAGE - then display with scaling
restoredImage = READ_TIFF("edgeDetect.tif")
TVSCL, restoredImage
```
