Subject: Re: How to display two images using tvscl
Posted by David Fanning on Mon, 09 Feb 2009 21:38:55 GMT
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frankosuna writes:

> I want to display the first image and then superimpose the edge
> detected pixels but I'm not sure how to go about
> pulling out the white pixels and then displaying them on top of the
> supporImage.
>
> Any ideas?

```
Loadct, 0, NCOLORS=128
LoadCT, 2, NCOLORS=128, BOTTOM=128
TV, Btyscl(image1, TOP=127) + $
   BytScl(image2, TOP=127) + 128B
```

Cheers,

David
--
David Fanning, Ph.D.
Coyote's Guide to IDL Programming (www.dfanning.com)
Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Subject: Re: How to display two images using tvscl
Posted by David Fanning on Mon, 09 Feb 2009 21:42:45 GMT
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frankosuna writes:

> Hello I have two images:
>
> http://frankosuna.googlepages.com/supportImage.jpg
>
> http://frankosuna.googlepages.com/edgeDetect.jpg
>
> I want to display the first image and then superimpose the edge
> detected pixels but I'm not sure how to go about
> pulling out the white pixels and then displaying them on top of the
> supporImage.

This is very similar to what you do when you
sharpen an image:

http://www.dfanning.com/ip_tips/sharpen.html

Cheers,

David
--
David Fanning, Ph.D.
Coyote's Guide to IDL Programming (www.dfanning.com)
Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Subject: Re: How to display two images using tvscl
Posted by Foldy Lajos on Mon, 09 Feb 2009 21:44:29 GMT
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On Mon, 9 Feb 2009, frankosuna wrote:

> Hello I have two images:
>
> http://frankosuna.googlepages.com/supportImage.jpg
>
> http://frankosuna.googlepages.com/edgeDetect.jpg
>
> I want to display the first image and then superimpose the edge
> detected pixels but I'm not sure how to go about
> pulling out the white pixels and then displaying them on top of the
> supporImage.
>
> Any ideas?
>
> Thanks,
>
> Frank Osuna
>

Make the edge image bi-level (0b and 255b), then OR the two images.

regards,
lajos

Subject: Re: How to display two images using tvscl
Posted by frankosuna on Mon, 09 Feb 2009 23:16:51 GMT
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I'll give this a try. Thanks again!!

On Feb 9, 2:38 pm, David Fanning <n...@dfanning.com> wrote:
> frankosuna writes:
>> I want to display the first image and then superimpose the edge
>> detected pixels but I'm not sure how to go about
>> pulling out the white pixels and then displaying them on top of the
>> supporImage.
>
>> Any ideas?
>
> Loadct, 0, NCOLORS=128
> LoadCT, 2, NCOLORS=128, BOTTOM=128
> TV, Btyscl(image1, TOP=127) + $
> BytScl(image2, TOP=127) + 128B
>
> Cheers,
>
> David
> --
> David Fanning, Ph.D.
> Coyote's Guide to IDL Programming (www.dfanning.com)
> Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Subject: Re: How to display two images using tvscl
Posted by frankosuna on Tue, 10 Feb 2009 01:18:44 GMT
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On Feb 9, 2:38 pm, David Fanning <n...@dfanning.com> wrote:
> frankosuna writes:
>> I want to display the first image and then superimpose the edge
>> detected pixels but I'm not sure how to go about
>> pulling out the white pixels and then displaying them on top of the
>> supporImage.
>
>> Any ideas?
>
> Loadct, 0, NCOLORS=128
> LoadCT, 2, NCOLORS=128, BOTTOM=128
> TV, Btyscl(image1, TOP=127) + $
> BytScl(image2, TOP=127) + 128B
>
> Cheers,
>
> David
> --
> David Fanning, Ph.D.
> Coyote's Guide to IDL Programming (www.dfanning.com)
> Sepore ma de ni thui. ("Perhaps thou speakest truth.")

For some reason the color scheme is completely different.
The support image color is changed as well as the color
of the edge detected image(supposed to be white).

Subject: Re: How to display two images using tvscl
Posted by David Fanning on Tue, 10 Feb 2009 05:19:38 GMT
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frankosuna writes:

> For some reason the color scheme is completely different.
> The support image color is changed as well as the color
> of the edge detected image(supposed to be white).

Well, it looks to me like those images are 24-bit JPEGs.
That is going to make things very difficult. Did the data
come that way, or did you make those images JPEGs for some
reason?

It is *much* harder to do something sensible with color
pixels than it is to work with data pixels. Then, the two
images I downloaded from your URLs were different sizes.
Sigh...

Is this *really* what we have to work with?

Give me some good news and maybe we can sort this out
for you. :-)

Cheers,

David

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

Subject: Re: How to display two images using tvscl
Posted by frankosuna on Thu, 12 Feb 2009 01:52:17 GMT
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On Feb 9, 10:19 pm, David Fanning <n...@dfanning.com> wrote:

> frankosuna writes:
>> For some reason the color scheme is completely different.
>> The support image color is changed as well as the color
>> of the edge detected image(supposed to be white).
>
> Well, it looks to me like those images are 24-bit JPEGs.
> That is going to make things very difficult. Did the data
> *come* that way, or did you make those images JPEGs for some
> reason?
>
> It is *much* harder to do something sensible with color
> pixels than it is to work with data pixels. Then, the two
> images I downloaded from your URLs were different sizes.
> Sigh...
>
> Is this *really* what we have to work with?
>
> Give me some good news and maybe we can sort this out
> for you. :-)
>
> Cheers,
>
> David
>
> --
> David Fanning, Ph.D.
> Fanning Software Consulting, Inc.
> Coyote's Guide to IDL Programming:http://www.dfanning.com/
> Sepore ma de ni thui. ("Perhaps thou speakest truth.")

I have two .dat files which I suppose is a binary image files. I
create them the following way:

```
 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

  tvscl, congrid(realImage, 1024, 1024)
  image = TVRead(Filename='realImage',/NODIALOG,/BMP)

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

FREE_LUN, lun

ERASE

The first one is the edge detected file and the second is the image that edge
detection was performed on. They both should be 1024x1024 images.

I then want to display the real image first and on top the edge detected image
which I do like this:

```
; Create a window and display the image.
WINDOW, 0, XSIZE = dims[0], YSIZE = dims[1], $
   TITLE = 'Click on an Edge to navigate on.'
   ;TVSCL, congrid(realImage,dims[0],dims[1])
   ;Loadct, 0, NCOLORS=128
   ;LoadCT, 2, NCOLORS=128, BOTTOM=128
   TVSCL, Bytscl(realImage, TOP=127) + $
         Bytscl(img,TOP=127)
```

Both files realImage and img are the bmp files for the edge detected image and
the real image.
