
Subject: Interactive Contrast/Brightness of Images

Posted by [David Fanning](#) on Wed, 07 Nov 2001 18:39:16 GMT

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Folks,

I've written a short article about how to interactively change the contrast and brightness of an image. These quantities are also called the window level and window width of an image, too. This kind of functionality is often required, for example, with 16-bit medical images.

You can find the article here:

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

I also wrote a program, named WindowImage, to demonstrate the idea. You can find the program here:

<http://www.dfanning.com/programs/windowimage.pro>

You will need my TVImage program as well if you want to run this program:

<http://www.dfanning.com/programs/tvimage.pro>

Run the program like this:

```
IDL> WindowImage
```

The trick in such a program is to find a neat algorithm for changing the contrast and brightness as you drag the cursor either horizontally or vertically on the image. I'm not totally enamored with the one I came up with and I suspect someone out there has a better one. If so, I'd like to hear about it. :-)

If you haven't visited the Coyote lately, you might want to have a look. I've been busy the past couple of weeks. :-)

You can find over 20 new programming tips here:

<http://www.dfanning.com/documents/tips.html#NewTips>

As always, I appreciate the feedback.

Cheers,

David

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

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Subject: Re: Interactive Contrast/Brightness of Images

Posted by [Logan Lindquist](#) on Wed, 07 Nov 2001 20:26:45 GMT

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"David Fanning" <david@dfanning.com> wrote in message

news:MPG.16532dbd6ee8499a98975a@news.frii.com...

[snip]

> As always, I appreciate the feedback.

Cool program! At first I thought you wrote using a object graphic window,
but then I looked and saw it was a direct one.

Too much fun stuff on the newsgroup to test and tryout that I don't get a
chance to do everything. I'll have to look at your contrast/brightness code
when I get a chance.

Logan
