Subject: Re: Creating JPEG files

Posted by R.Bauer on Wed, 09 Oct 2002 15:09:18 GMT

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## Mike Jewison wrote:

- > I have a short program which generates a 2D plot using a standard call
- > to the PLOT procedure, displaying to the X-windows device. I would
- > like to also have this plot dumped to a JPEG file for display on a web
- > page. Although the plot looks just fine on the screen, when I issue
- > the following command:

>

WRITE JPEG, JPEG File, TVRD()

>

- the resultant JPEG file has very little contrast (i.e. it's basically
- > near-black on black). I know the WRITE\_JPEG procedure is better
- > suited to images rather than plots, but is there (a) a better way to
- > create a JPEG file of a plot rather than what I'm doing, or (b)
- > another file format which IDL supports that would do a good job of
- > creating a web-compatible image format? I used to use the WRITE GIF
- > format until IDL dropped support for it.

> Many thanks.

> - Mike

Dear Mike,

WRITE\_JPEG, JPEG\_File, TVRD(/true) ,/true

should be used if you are using a true color graphics device.

regards

Reimar

Reimar Bauer

Institut fuer Stratosphaerische Chemie (ICG-I) Forschungszentrum Juelich

email: R.Bauer@fz-juelich.de

a IDL library at ForschungsZentrum Juelich http://www.fz-juelich.de/icg/icg-i/idl\_icglib/idl\_lib\_intro. html

Subject: Re: Creating JPEG files Posted by David Fanning on Wed, 09 Oct 2002 15:12:06 GMT

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Mike Jewison (m\_jewison@hotmail.com) writes:

- > I have a short program which generates a 2D plot using a standard call
- > to the PLOT procedure, displaying to the X-windows device. I would
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- > another file format which IDL supports that would do a good job of
- > creating a web-compatible image format? I used to use the WRITE\_GIF
- > format until IDL dropped support for it.

## Try TVREAD:

http://www.dfanning.com/programs/tvread.pro

You would use it like this:

IDL I = TVREAD(/JPEG)

The results are guaranteed to be perfect. :-)

Cheers,

David

--

David W. Fanning, Ph.D.

Fanning Software Consulting, Inc.

Phone: 970-221-0438, E-mail: david@dfanning.com

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

Toll-Free IDL Book Orders: 1-888-461-0155

Subject: Re: Creating JPEG files

Posted by David Fanning on Wed, 09 Oct 2002 15:19:31 GMT

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Reimar Bauer (R.Bauer@fz-juelich.de) writes:

> WRITE\_JPEG, JPEG\_File, TVRD(/true) ,/true

>

> should be used if you are using a true color graphics device.

As well as a couple of other details if you expect the code to be portable. :-)

You can learn all the gory details here:

http://www.dfanning.com/tips/jpeg.html

Cheers,

David

--

David W. Fanning, Ph.D.

Fanning Software Consulting, Inc.

Phone: 970-221-0438, E-mail: david@dfanning.com

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

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Subject: Re: Creating JPEG files

Posted by David Fanning on Wed, 09 Oct 2002 15:30:30 GMT

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David Fanning (david@dfanning.com) writes:

> You can learn all the gory details here:

>

> http://www.dfanning.com/tips/jpeg.html

Humm, actually, you \*can't\* read all the gory details there, as I just discovered by reading the darn article. :-(

Well, you \*should\* be able to read all the gory details. I'm going off to have a word with the webmaster now. I can assure you there will be the proper file there shortly!!

In the meantime, I \*know\* the gory details are in the TVREAD code. That would be a good place to find them.

Embarrassed,

David

--

David W. Fanning, Ph.D.

Fanning Software Consulting, Inc.

Phone: 970-221-0438, E-mail: david@dfanning.com

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Subject: Re: Creating JPEG files

Posted by Med Bennett on Wed, 09 Oct 2002 16:26:20 GMT

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## Mike Jewison wrote:

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- > another file format which IDL supports that would do a good job of
- > creating a web-compatible image format? I used to use the WRITE\_GIF
- > format until IDL dropped support for it.

>

> Many thanks.

>

> - Mike

JPEG is really better suited for continuous tone graphics, i.e. photos, shaded surface plots, etc. If you're trying to capture line art, ie. a plot with only a few distinct colors, I believe it would be better to use a GIF or PNG file format. The lossy JPEG compression does ugly things to line graphics, and actually can create larger files than one of the lossless graphics formats.

Subject: Re: Creating JPEG files

Posted by Med Bennett on Wed, 09 Oct 2002 16:30:35 GMT

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Med Bennett wrote:

```
Mike Jewison wrote:
>
>
>> I have a short program which generates a 2D plot using a standard call
>> to the PLOT procedure, displaying to the X-windows device. I would
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>>
   Many thanks.
>>
>> - Mike
  JPEG is really better suited for continuous tone graphics, i.e. photos,
  shaded surface plots, etc. If you're trying to capture line art, ie. a
> plot with only a few distinct colors. I believe it would be better to use
> a GIF or PNG file format. The lossy JPEG compression does ugly things to
> line graphics, and actually can create larger files than one of the
> lossless graphics formats.
```

Sorry, I didn't read your whole post before making my response. I believe PNG is what you should try.