
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:
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> WRITE_JPEG, JPEG_File, TVRD()
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> 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:

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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.
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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.
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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

--

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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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> 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, i.e. 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
[View Forum Message](#) <> [Reply to Message](#)

Med Bennett wrote:

> Mike Jewison wrote:
>
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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.
