
Subject: Re: How to make GIF file?

Posted by [mathews](#) on Sat, 10 Jun 1995 07:00:00 GMT

[View Forum Message](#) <> [Reply to Message](#)

In article <D9xsFM.7D9@midway.uchicago.edu>,

Mark Rivers <rivers@cars3.uchicago.edu> wrote:

> In article <3ra31t\$j08@hecate.umd.edu>, bleau@UMDSP.UMD.EDU (Lawrence Bleau) writes:

>> Hi. I running IDL V3.6.1 and have a question about plotting. First, let me

>> describe what I'm trying to do overall, in case anyone has a better suggestion

>> on how to do it.

>>

>> I want to create a GIF file to put on my system and have it served over the WWW

>> to other sites. This GIF file is a fairly simple plot, with X- and Y-axis, a

>> bunch of points, and lines connecting them. The raw data for this is an Ascii

>> file with columns of floating point numbers.

>>

>> I figure we'll have to write a procedure to read in the values, do some

>> decision making, and plot them. I know about the PLOT command in IDL, and

>> there's enough information I can slug through it and tailor my plots properly;

>> if not I'll just come back here for more info.

>>

>> The puzzling part is how to have PLOT generate a GIF image file. I looked at

>> SET_PLOT, which has a slew of options on output devices (PostScript, HP PCL,

>> CGM, etc.). GIF, however, is *not* one of those options. I noticed there is a

>> WRITE_GIF command, but the manual (unless I've looked in the wrong place)

>> doesn't say how to call it and what it's arguments are. Okay, so one of the

>> arguments is an array in GIF format. That begs the question, however: How does

>> one create the GIF image in the first place? If it isn't done with PLOT, then

>> how? If it is, what's the magic keyword?

>>

>

> Try the following:

>

> IDL> set_plot, 'z' ; Select the Z pseudo device

> ; Set the resolution, turn off Z buffering for increased speed

> IDL> device, set_resolution=[800, 500], z=0

> IDL> plot, findgen(100) ; Draw the plot

> IDL> buff = tvrd() ; Read the bitmap back into an IDL variable

> IDL> write_gif, 'filename', buff, ...

>

>

> Mark Rivers (312) 702-2279 (office)

> CARS (312) 702-9951 (secretary)

> Univ. of Chicago (312) 702-5454 (FAX)

> 5640 S. Ellis Ave. (708) 922-0499 (home)

> Chicago, IL 60637 rivers@cars3.uchicago.edu (Internet)

>

I use a similar approach with several WWW-based data systems that invoke CGI perl scripts via a HTML form. The perl script executes IDL in batch mode, runs a IDL routine to make a plot of the selected parameters, and writes the results to a GIF. The perl program output is displayed on the WWW browser as a HTML document with an inline GIF image.

An example application is the COHOWeb data system via the URL:
<http://nssdc.gsfc.nasa.gov/cohoweb/cw.html>

Sample examples of various perl programs that use IDL on the web and the corresponding HTML forms are available via the following URL: <http://coney.gsfc.nasa.gov/Mathews/misc/idl-www.html>

Hope this helps.

Jason Mathews

--

Jason Mathews, Code 633.2 |National Space Science Data Center
NASA/Goddard Space Flight Center|email: mathews@nssdc.gsfc.nasa.gov
Greenbelt, MD 20771-0001 USA |<http://coney.gsfc.nasa.gov/Mathews/jason.html>
