Subject: Re: ION data reuse Posted by Rick Towler on Mon, 10 Dec 2001 22:36:59 GMT View Forum Message <> Reply to Message

Although I am not 100% sure, what little I do understand about ION Script leads me to believe that it isn't possible to share data between two separate calls to <ION\_IMAGE>. I can think of two ways to get around this limitation and I would guess that you already have thought of them.

You could render both images in the same image, placing a band of color between them that matches your page background giving the illusion of two images. Another option would be to write the 2 images to a temp directory, send a delete command to "at" (spawn, 'echo "rm -f /tmp/'+filename+'" | at now + 5 minutes') and use the <ION\_DATA\_OUT> tag to create your HTML page and link to your newly created images. I take the latter approach with VRML models and it works quite well.

for example:

```
<ION BODY>
  <ION DATA OUT PRE="FALSE" ASTEXT="FALSE" DEBUG="FALSE">
    <IDL>
    :read in data
    ;plot image to Z buffer or IDL_grBuffer
    :create a file name
    file1='/tmp/'+STRING(FIX(10000. * RANDOMU(s)),
FORMAT='(I5.5)')+'.wrl'
    ;write it to disk
    ;do it again for the 2nd image
    file2='/tmp/'+STRING(FIX(10000. * RANDOMU(s)),
FORMAT='(I5.5)')+'.wrl'
    ;submit the rm commands to at
    spawn, 'echo "rm -f '+file1+'" | at now + 1 minute'
    spawn, 'echo "rm -f '+file2+'" | at now + 1 minute'
    create the web page
    print, '<HTML>'
    print, '<HEAD>'
    print, ''
    print, '</HEAD>'
```

```
print, '<BODY bgcolor="#dddddd" link="#FF0000" vlink="#b23e3b">'
     print, '<FONT face="Arial, Helvetica, sans-serif" size="2">'
     print, '<IMG src="+file1+"width="411" height="288" alt="my plot
1">'
     print, '<IMG src="+file2+"width="411" height="288" alt="my plot
2">
     print, '</FONT>'
     print, '</BODY>'
     print, '</HTML>'
  </IDL>
 </ION_DATA_OUT>
</ION_BODY>
If you do figure out how to extend the scope of data read within ION_IMAGE
tags to outside the tags, please post it!
-Rick Towler
"Ken Mankoff" <mankoff@lasp.colorado.edu> wrote in message
news:Pine.LNX.4.33.0112071206530.21824-100000@snoe.colorado. edu...
> Hi.
>
> I would like to produce two images in an ION page, but use the same
> dataset for each image. This dataset is large, and I only want to load it
> once. Here is the current setup:
> 1) user fills out a form specifying lat/lon boundaries. Submit button
> loads a new ION page
> 2) ION page loads lat/lon region from global file, displays. All this
> happens in an <ION_IMAGE> tag
>
> 3) Repeat (2), but do some additional processing before displaying.
> Since the exact same lat/lon region is read off disk in (2) and (3), it in
> inefficient. Does anyone know how to load it only once?
> Thanks.
  -k.
>
>
> Ken Mankoff
> LASP://303.492.3264
```

>

Subject: Re: ION data reuse

Posted by Ken Mankoff on Fri, 04 Jan 2002 19:00:34 GMT

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On Mon, 10 Dec 2001, Rick Towler wrote:

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- > You could render both images in the same image, placing a band of color
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- > now + 5 minutes') and use the <ION\_DATA\_OUT> tag to create your HTML page
- > and link to your newly created images. I take the latter approach with VRML
- > models and it works quite well.

Hi Rick, ng

Thanks for the suggestion. That is working for me now, but it was difficult to get it working. The ION/webserver process needs to have the ability to write to disc \*and\* spawn processes \*and\* the location that the IDL process writes needs to be accessible by the web server for the regular <IMG> tags... But it does work (thanks to my sysadmin).

I \*think\* there is a third way to get shared data. Currently, the HTML page that is on the recieving end of the SUBMIT button has the following: <VARIABLE\_DECL NAME="var" VALUE="\$Form.var" TYPE="INT" PERSIST="TRUE /> And I can use \$var in multiple <ION\_IMAGE> tags.

The third method would involve using an intermediate page with a <META REFRESH=0 ...> tag, and a hidden form var. This page would fill the form var based upon the original pages form submission values, and then a second later refresh to the final destination page. The final destination page has a persistent variable (filled by the intermediate page) that is usable across multiple <ION\_IMAGE> tags.

The problem with this is that i \*hate\* websites that use REFRESH=0, because then my back button doesnt work as expected...

I wont try implementing this anytime soon, but its food for thought...

-k.

p.s. If you want to see the site, you can get to it here: http://lasp.colorado.edu/marsrobot/click on "VirtualMars"

--

Ken Mankoff LASP://303.492.3264 http://lasp.colorado.edu/~mankoff/