
Subject: Re: ION data reuse

Posted by [Rick Towler](#) on Mon, 10 Dec 2001 22:36:59 GMT

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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 is
> inefficient. Does anyone know how to load it only once?
>
> Thanks,
> -k.
>
> --
> Ken Mankoff
> LASP://303.492.3264

```

> <http://lasp.colorado.edu/~mankoff/>
>

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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> 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 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 receiving 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/>
