Dynamic Data

Importing data from online resources: RSS

One way to add a fresh element your network-media projects is to use of the network to get up-to-date information from online sources. We will later discuss other techniques, but RSS is a popular one now. It is an XML-based way of formatting data. It is short for "really simple syndication" – which is another way of saying 'simple content distribution format.' The virtue of using XML is that many libraries can be written that will be able to read your RSS document because the language is explicitly defined. The 'magpie' project is a PHP library for reading RSS 'feeds' and converting them to some other format, like a web page. See for example:

http://artcontext.org/edu/sva/webProg2/magpie/rss/ecoartivismo.php

This is a usage of the magpie library to display the three most recent entries in the ecoartivismo.net blog. Like almost all WordPress blogs, it has an RSS feed built in. We leverage that feature by using the URL:

http://ecoartivismo.net/forums/?feed=rss2

You can see the source code for this feed by using 'view source' when looking at this URL (Firefox). A section of the document is reproduced on page two.

With the magpie API, we will use the following line of code to initialize the \$rss object, which we will use to read all the entries found. But where is this fetch_rss() function? Because it's part of the

\$rss = fetch_rss('http://ecoartivismo.net/forums/?feed=rss2');

magpie library, we must include a library file at the top of our document like so:

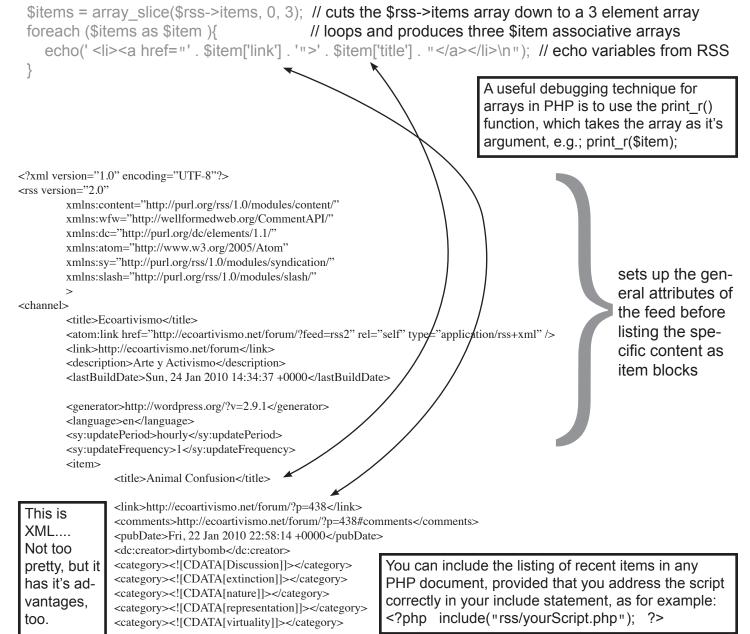
```
Put your own RSS URL here.
 <?php
   include('rss fetch.inc');
   $rss = fetch rss('http://ecoartivismo.net/forums/?feed=rss2');
                                                            Put your own label here.
   if($rss) {
      echo("<div class='boxframe'><b>Ecoartivismo</b><br />\n");
      echo(" \n");
      $items = array slice($rss->items, 0, 3); // first three items
      foreach ($items as $item ){
        echo(' <a href="' . $item['link'] . '">' . $item['title'] . "</a>\n");
      echo(" \n");
      echo("</div>\n");
                                           Put your own email here.
   else { mail("you@yourDOTcom", "RSS", "Debug the RSS script"); }
?>
```

You might ask, where does this 'rss_fetch.inc' file come from? Download the archive at the URL: http://magpierss.sourceforge.net/

The list of files and folders on the right reflects the files that are used when you include the rss_fetch.inc file. Just as we are using a library written by others, the authors of Magpie used a library called Snoopy.class.inc The 'cache/' folder is created and must have write permission for the web-server-user. (User that 'owns' the web server process.) It will contain feeds downloaded from the net. That way, accesses to yourScript.php do not have to wait for the remote server every time yourScript.php is called. I have re-

cache/ rss_fetch.inc rss_utils.inc yourScript.php rss_cache.inc rss_parse.inc extlib/Snoopy.class.inc

moved some inessential files from the archive downloaded from the sourceforge URL.



```
</item>
[... items omitted ...]
</channel>
</rss>
```