



Computers in Libraries 2004
March 10, 2004




Cool Server Tools for Library Web Sites

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Overview

- o Adding functionality to your site
- o Testing your site
- o Monitoring your site
- o Securing your site



LibData

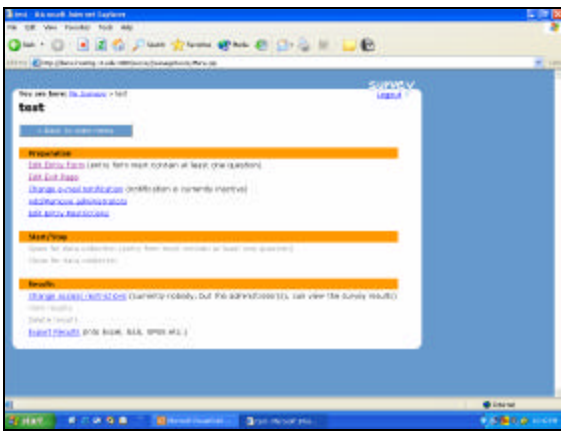
- o <http://libdata.sourceforge.net/>
- o Authoring environments for
 - Subject pathfinders (Research QuickStart)
 - Course related pages (CourseLib)
 - General purpose web pages (PageScribe)

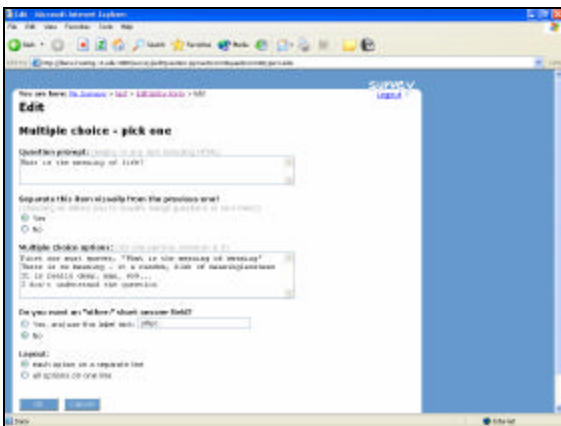
[Demo - subject](#)
[Demo - courses](#)

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- ● ● VT Survey
- <http://opensource.isc.vt.edu/products/survey>
- Tool to create surveys, feedback or registration forms
- Types of questions
 - Multiple choice
 - All that apply
 - Short answer
 - Comment/Essay





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● ● ● | **Atomic Photo Album**

- <http://atomicpa.sourceforge.net/index.php>
- Collaborative image system
- Supports concept of albums/collections
- Support for users and comments
 - Support for photo rating
- Search engine of "metadata"
- Automatic thumbnail and small photo generation

[Demo](#)

● ● ● | **Sporum**

- <http://www.sporum.org/>
- Web-based forums
- Multiple options for viewing threads
- Like/Dislike feature
 - I hate you - never darken my threaded discussion!
- Rating of Posts
- Grading of Posts
- Experience Points For answered questions
- E-mail subscriptions

● ● ● | ZFeeder

- <http://zvonnews.sourceforge.net/>
- Integrates RSS content into a web page
 - Supports all RSS versions
 - 0.9, 0.9x, 1.0, 2.0
- Supports multiple feeds
 - Online or offline modes
- Autodiscovery of feeds

[Demo](#)

● ● ● | Cheesegrater

- <http://freshmeat.net/projects/cheesegrater/>
- Create an RSS feed from an HTML page
 - Uses "screen-scraping" to do this

● ● ● | InstantRSS

- <http://thelocust.org/projects/instantrss/>
- Simple RSS creator
- Uses HTML comment tags to create RSS stream

```
● ● ● | <!--instantRSS:beginchantitle-->
      Frank's Groovy Web Page
<!--instantRSS:endchantitle-->

<!--instantRSS:beginchanlink-->
      http://www.cervone.com
<!--instantRSS:endchanlink-->

<!--instantRSS:beginchandesc-->
      If I only had a blog...
<!--instantRSS:endchandesc-->

<!--instantRSS:beginitem-->
<!--instantRSS:beginintitle-->
      February 11, 2004
<!--instantRSS:endintitle-->

<!--instantRSS:beginlink-->
<!--http://www.cervone.com/newsitem.php?item=32-->
<!--instantRSS:endlink-->

<!--instantRSS:begindesc-->
      Why I don't have a blog and probably never will
<!--instantRSS:enddesc-->
<!--instantRSS:enditem-->
```

● ● ● | XML Test Suite

- <http://xmltestsuite.sourceforge.net/>
- Enables functional testing
- Does not use proprietary scripting language
 - Tests are written in XML
- Requires only a knowledge of HTML and XML
- Testing is far-reaching
 - Can work with database-driven sites

● ● ● | XML Test Suite - functionality

- Check site structure
 - Pages are well formed
 - Links are valid
- Check the content of pages
 - Javascript variables
 - XPath expressions
 - Database queries
- Check the way the site works
 - Run test scenarios

● ● ● XML Test Suite - example

```
<?xml version="1.0" ?>
<testSpec SYSTEM "test.dtd">
  <steps>
    <fetch
      url="http://www.library.northwestern.edu"
      htmlwarnings="true" />
    <verifylinks/>
    <verify>
      <frameset name="NUL Top Frame Set">
        <frame name="Top_banner" url="..." />
        <frame name="Main" url="..." />
      </frameset>
    </verify>
  </steps>
</testSpec>
```

Tell us what the HTML errors are

Verify the links work

What are we testing?

Check various aspects of the site's frameset

● ● ● http_load

- o http://www.acme.com/software/http_load
- o Tests the throughput of a web server
- o Configured with a file
 - Lists URL to be visited
 - Connection method (by rate or number of users)
 - When to quit
 - After a given number of fetches
 - A given elapsed time

● ● ● http_load – output example

```
% ./http_load -rate 5 -seconds 10 urls
49 fetches, 2 max parallel, 289884 bytes, in
  10.0148 seconds
5916 mean bytes/connection
4.89274 fetches/sec, 28945.5 bytes/sec
msecs/connect: 28.8932 mean, 44.243 max,
  24.488 min
msecs/first-response: 63.5362 mean, 81.624
  max, 57.803 min
HTTP response codes: code 200 -- 49
```

● ● ● | InSite

- <http://insite.sourceforge.net/>
- Link verification and statistics
 - Local links
 - Remote links
 - Classification by error type
 - Full report on all broken links
 - Doc link was in ? Doc link was pointing to

[Example report](#)

● ● ● | Relax

- <http://ktmatu.com/software/relax/>
- Web log analysis tool for referrer information
 - Search engines
 - Search keywords
 - Referring URLs

[Demo](#)

● ● ● | GFI Languard Network Security Scanner

- <http://www.gfi.com/lannetscan/>
- Limited version free for non-commercial use
- Detect security vulnerabilities on your network
- In-depth information about all machines/devices
 - Windows, Linux, Solaris, OSX
