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This book seeks to provide
⇒ recipes for developing web
⇒ sites
using the Linux operating system,
⇒ with an emphasis on command
⇒ line
tools. This book is not about
⇒ html and css since that is
covered in the html-css-book.txt

IMAGES

IMAGE COMPRESSION

== tools for image compression
.. webpack -
.. pngout -
..

IMAGE RESIZING

* Convert a bunch of HTML files
⇒ from ISO-8859-1 to UTF-8
⇒ file
>> for x in `find . -name '*.
⇒ html'`; do iconv -f ISO
⇒ -8859-1 -t UTF-8 \$x > "\$x.
⇒ utf8"; rm \$x; mv "\$x.utf8"
⇒ \$x; done

FILE TRANSFER

rsync, ftp, sftp

WEB SITE MIRRORING

* Download all images from a
⇒ site
>> wget -r -l1 --no-parent -nH -
⇒ nd -P/tmp -A".gif,.jpg" http
⇒ ://example.com/images

POSTING DATA

* Submit data to a HTML form
⇒ with POST method and save
⇒ the response
>> curl -sd 'rid=value&submit=
⇒ SUBMIT' <URL> > out.html

* post with a proxy and
⇒ authentication
>> curl -F name='../htdocs/notes
⇒ /'\$1 -F contents='<'\$1 -u
⇒ user:upass -x prox.net:8080
⇒ -U bob:proxpass http://serv.
⇒ net/save.cgi

HTML STUFF

HTML LINKS

* get the links from a page
>> lynx -dump -listonly www.
⇒ server.net/page.html

* find urls within an html file
⇒ (most of them anyway)
>> egrep 'https?://([[alpha
⇒ :]]([:-[:alnum:]]+[[[:alnum
⇒ :]])*\.)+[[[:alpha:]]{2,3}(:
⇒ \d+)?(/([-\w/_\.]*(\?\S+)?
⇒)?)?'

ENTITIES

* encode HTML entities
>> perl -MHTML::Entities -ne '
⇒ print encode_entities(\$_)' /
⇒ tmp/subor.txt

* or use xmlstarlet to encode
⇒ entities.

BASH AND WEB DEVELOPMENT

Using the bash shell to develop
⇒ websites maybe quite
efficient, if unconventional.

* possibly the simplest way to
⇒ create a webpage from text
>> cat page.txt | (echo '<html><
⇒ body><pre>'; cat -; echo '</
⇒ pre></body></html>')

TEMPLATING WITH BASH

* a simple template technique
⇒ with bash
>> export a=b; echo -e 'one\ntwo
⇒ \nand <x>' | (echo 'cat <<
⇒ EE'; sed 's/<x>/\$a/g'; echo '
⇒ EE') | bash

* use the technique above to
⇒ substitute the date into the
⇒ template
>> cat template | (echo 'cat <<
⇒ EE'; sed 's/<date>/\$(date)/g
⇒ '; echo 'EE') | bash

FOLDER LISTINGS

* list only folders
>> ls -d */ | (echo '<ul class="
⇒ fol">'; cat -; echo '')

* make an html directory listing
⇒ out of the current folder
>> echo "echo -e \\"{\$(echo
⇒ * | tr ' ' ',')}\"\" |
⇒ bash

* list all files and folders, no
⇒ links
>> a=\$(echo *); echo 'echo -e \"
⇒ n\"{'\$a//\" \"/,}'}\"</li
⇒ >\"' | bash

* list only folders, no links
>> a=\$(echo */); echo 'echo -e
⇒ \"\n\"{'\$a//\" \"/,}'}\"</li
⇒ >\"' | bash

* a for loop method to list only
⇒ sub-folders as an html list
\begin{lstlisting}
echo "<ul class=fol>"
for d in \$(ls -d */); do

```
echo "<li>$d</li>"  
done  
echo "</ul>"
```

* another for loop method to list only sub-folders as an
html list

```
echo "<ul class=fol>"  
for d in */; do  
echo "<li>$d</li>"  
done  
echo "</ul>"
```

* list subfolders as html links

```
echo "<ul class=fol>"  
for d in $(ls -d */); do  
echo "<li><a href='$d'>$d</a  
⇒ ></li>"  
done  
echo "</ul>"
```

XHTML

== tools .. xmlstarlet - queries and edits xml from the
command line ..

CURL STUFF

* getting a page via an authenticating proxy
server `curl -x proxy.utas.edu.au:8080 -U bobj
http://www.server.net`

* getting a page via an authenticating proxy server
as user 'bobj' with password 'asecret' `curl -x
proxy.net:8080 -U bobj:asecret http://www.server.net`
Supplying the password in this manner is possibly not
a good idea from a security point of view

* download a text file through a proxy and edit it with
vim

```
function edn  
{  
curl -x proxy.org.au:8080 -U  
⇒ bob:pass www.serv.net/a.  
⇒ txt -o ~/notes.txt  
vim ~/notes.txt  
}
```

* upload a file to webserver w cgi script with http au-
thentication,

```
function up {  
[ -z "$1" ] && echo 'no  
⇒ parameter' && return 1;  
curl -F name='../htdocs/notes/'  
⇒ $1 -F contents='<'$1 -u user  
⇒ :upass -x prox.net:8080 -U  
⇒ bob:proxpass http://serv.net  
⇒ /save.cgi  
}
```

PERL TRICKS

== useful modules .. `www::mechanize` .. `lwp` ..

* a perl mechanize example

```
# navigate to the main page
$mech->get('http://www.
    => somesite.com/');

# follow a link that contains
    => the text 'download this'
$mech->follow_link( text_regex
    => => qr/download this/i );

# submit a POST form, to log
    => into the site
$mech->submit_form(
with_fields => {
username => 'mungo',
password => 'lost-and-alone
    => ',
}
);

# save the results as a file
$mech->save_content('somefile.
    => zip');
```

PHP

* Testing php configuration `!! php -r "phpinfo;"`
* get the urls from a webpage `!! browser -> getUrls()`

CRAWLING

.. ScriptableBrowser (simpletest)

LOAD TESTING

== tools .. funklload - web testing ..

STUFF USED IN GOOGLE CHROME

`bsdifff`, `bspatch`, `bzip2`, `dtoa`, `hunspell`, `ICU`, `JSCORE`, `libjpeg`, `libpng`, `libxml`, `libxslt`, `LZMA SDK`, `modp64`, `MozillainterfacetoJavaPluginAPIs`, `npapi`, `nprpapi`, `sybase`, `stopped/2006/11/30/EMLiteTemplate8perl.html`, `W`

FORUM SITES

@@ ask.metafilter.com visited by knowledgable people
@@

SERVING PAGES

* share the current directory tree (via http) at `http://HOSTNAME : 8000/ >> python -mSimpleHTTPServer`
* create a webserver to share all files in /tmp/mydocs on port 8081 `!! wbox servermode webroot /tmp/mydocs`

* create a webserver to share all files in /tmp/mydocs on port 8080 `!! wbox servermode serverport 8080 webroot /tmp/mydocs`
* Sharing file through http 80 port `!! nc -w 5 -v -l -p 80 ; file.ext`
CGI SERVERS
* a simple cgi server `!! python -m CGIHTTPServer 8080`
* some kind of perl cgi server `!! HTTP::Simple::PSGI`
SMALL WEBSERVERS
@@ <http://ask.metafilter.com/65481/Help-me-find-a-cool-little-unix-http-utility-I-cant-remember-some-good-things-about-mini-web-servers> @@ <http://hping.org/wbox/> site for wbox
== small quick and easy webservers .. `wbox`
- http server .. `thttpd` - small web server .. `minihhttpd` - sameauthorasthttpdbutsmaller.. `webfs` - serves a filesystem from the web. `busyboxhttpd` command - small webserver everything..

WBOX

developed from 2007 - 2009 ...
* show how long each part of a webpage takes to generate `!! wbox nowhere.net/page.html timesplit 1`
* show the http header information for a page `!! wbox www.google.it/notexistingpage.html 1 showhdr`

MAC OSX

Installed by default are php, curl,

TEMPLATING

@@ <http://www.perl.com/pub/a/2001/08/21/templating>
an article about using templating systems with perl
== tools .. `Template Toolkit` - almost active development, perl, and python .. `HTML::Mason` - ? callback style, active as of 2010 .. `Embperl` - embedd perl into webpage, stopped/2006/11/30/EMLiteTemplate8perl.html, `Text::Template` - perl module
@@ <http://www.perl.com/pub/a/2001/08/21/templating>
an article about using templating systems with perl
== tools .. `Template Toolkit` - almost active development, perl, and python .. `HTML::Mason` - ? callback style, active as of 2010 .. `Embperl` - embedd perl into webpage, stopped/2006/11/30/EMLiteTemplate8perl.html, `Text::Template` - perl module .. `Text::Template` - a general purpose templater .. `Apache::ASP` - use asp with apache, stopped 2004 .. `CGI::FastTemplate` - another one ..

@@ <http://template-toolkit.org/> the site for the template toolkit

TEMPLATE TOOLKIT

* example statement using dot notation. `!! How are things in [`
* a for loop `[ja href=""]`

Html Template

Example loop with `html::template` — `<TMPL_LOOP list> <a href="<TMPL_VAR url>"><TMPL_VAR name> </TMPL_LOOP>` ,,,

1.1 Mason

Seems to be in active development. It can be run without a webserver

<http://www.masonhq.com/>
the official site

Install mason using apt-get

```
apt-get install libmason-perl ~(???) unchecked)
```

some interesting perl web modules

Dancer	Perl web apps with good examples
Web::Simple	Simple web apps
CGI::Application	
Catalyst	Big web apps
Mason	
Mojolicious	

2.1 Web Simple

<http://search.cpan.org/~mstrout/Web-Simple-0.002/lib/Web/Simple.pm>
the documentation for web simple

Developed in 2009. Can create a webapplication without a webserver

hobbs

at stackoverflow.com knowledgeable perl web person

Cpan Tool Crash Course

Start a cpan shell to install mason

```
perl -MCPAN -e 'shell'
```

simple cpan shell

h	Show help
get	Get the source for a module
make	Compile ? the module
test	Test a module
install	Do all of get, make, test
clean	Get rid of a badly installed module
look	See whats happening
readme	See whats going on

http://www.livejournal.com/doc/server/lj.install.perl_setup.modules.html
a list of potentially useful modules used with livejournal

Upgrade cpan but could cause problems ???

```
perl -MCPAN -e shell
cpan> install Bundle::CPAN
cpan> reload cpan
```

Getting Web Pages From The Command Line

Http get of a web page via proxy server with login credentials

```
curl -U username[:password] -x proxy:proxyport webpage
```

Use netcat to get a webpage

```
echo "GET / HTTP/1.0\r\r" | nc -v www.somewebsite.com 80
```

Get a webpage with the console php tool

```
php -r "file('http://metafilter.com/');"
```

Get a webpage with perl

```
perl -MHTTP::Client -e 'print HTTP::Client->new()->get("http://
⇒ localhost/path")'
```

A simpler way to do the same

```
perl -MLWP::Simple -e 'get("http://www.metafilter.com/")'
```

Load Testing

Perform 4 queries per second (with 4 processes) on the local webserver

```
■ wbox http://localhost clients 4
```

Blog Engines

serendipity A blog engine with database backend

Notes

google use python

<http://unixmages.com/>
an unrelated but interesting site