

DEBUG LWP

Debugging LWP applications all steps at the same time

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LWP::USERAGENT

- WWW::Mechanize
- Test::WWW::Mechanize
- SOAP::Lite
- SOAP::Compile::WSDL
- REST::Client
- Web::Scraper
- A bunch of others

**NOT WWW::MECHANIZE::
(?:CHROME|FIREFOX)**

OFTEN USED UNDER THE HOOD

DEBUGGING IS HARD

debug lwp::useragent



All

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About 58.300 results (0,38 seconds)

LWP::Debug - search.cpan.org

search.cpan.org/dist/libwww-perl/lib/LWP/Debug.pm ▼

LWP::Debug - deprecated ... LWP::Debug is used to provide tracing facilities, but these are not used by ... use LWP::UserAgent; \$ua = LWP::UserAgent->new; ...

Debugging LWP - PerlMonks

www.perlmonks.org/?node_id=529565 ▼

Feb 11, 2006 - 7 posts - 4 authors

my \$useragent = LWP::UserAgent->new(protocols_allowed => ["htt +ps"]); my \$request = POST("https://secure.mydomain.com/script.dll", ...

Re: LWP::UserAgent doesn't send my HTTP::Cookies (trace/debug ... 1 Jul 2016

Help with LWP & SSL 500 Internal response error 12 May 2015

SSL Certificate Verification problem, using LWP::UserAgent 2 Mar 2015

LWP is there any way to get "real" outgoing headers? 24 May 2014

More results from www.perlmonks.org

how to validate lwp::useragent request? - PerlMonks

www.perlmonks.org/bare/?node_id=464442 ▼

-does LWP::UserAgent always add certain headers to be sent? ... you can use LWP::DebugFile to debug your script and it allows you to see what your calls to ...

LWP::DEBUG - DEPRECATED

Only describes some debugging stuff

A BUNCH OF OLD POSTS

HOW TO GET HEADERS?

BY HAND

```
my $res = $ua->get('http://example.org');  
warn $res->req->as_string;  
warn $res->as_string;
```

very tedious

HALF-AUTOMATIC

```
$ua->add_handler("request_send", sub { shift->dump; return });  
$ua->add_handler("response_done", sub { shift->dump; return });  
  
$ua->get("http://www.example.com");
```

using advice from LWP::Debug

GET http://www.example.com
User-Agent: libwww-perl/6.19

(no content)
HTTP/1.1 200 OK
Cache-Control: max-age=604800
Connection: close
Date: Mon, 26 Jun 2017 11:09:04 GMT
ETag: "359670651+gzip+ident"
Server: ECS (iad/182A)
Vary: Accept-Encoding
Content-Length: 1270
Content-Type: text/html
Expires: Mon, 03 Jul 2017 11:09:04 GMT
Last-Modified: Fri, 09 Aug 2013 23:54:35 GMT
Client-Date: Mon, 26 Jun 2017 11:09:05 GMT
Client-Peer: 93.184.216.34:80
Client-Response-Num: 1
Title: Example Domain
X-Cache: HIT
X-Meta-Charset: utf-8
X-Meta-Viewport: width=device-width, initial-scale=1

```
<!doctype html>
<html>
<head>
  <title>Example Domain</title>\n
  <meta charset="utf-8">
  <meta http-equiv="Content-type" content="text/html; charset=utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <style type="text/css">
body {
  background-color: #f0f0f2;
  margin: 0;
  padding: 0;
  font-family: "Open Sans", "Helvetica Neue", Helvetica, Arial, sans-serif;
\40\40\40\40\40\40\40\40
}
div {
  width: 600px;
  margin: 5em auto;

...
(+ 758 more bytes not shown)
```

SUCKS IF YOU NEED IT A LOT

**HOW DO YOU DEBUG STUFF THAT'S
INSIDE A CATALYST MODEL?**

SO I BUILT SOMETHING

```
package Foo;
use LWP::UserAgent;
use Class::Method::Modifiers 'around';

around 'LWP::UserAgent::new' => sub {
    my $orig = shift;
    my $self = shift;

    my $ua = $self->$orig(@_);
    $ua->add_handler( request_send => sub { shift->dump; return; } );
    $ua->add_handler( response_done => sub { shift->dump; return; } );

    return $ua;
};
```

THEN I WENT ON IRC #LWP

LWP::CONSOLELOGGER

And LWP::ConsoleLogger::Easy



```
use LWP::ConsoleLogger::Easy qw( debug_ua );
use WWW::Mechanize;

my $mech          = WWW::Mechanize->new;    # or LWP::UserAgent->new() etc
my $console_logger = debug_ua( $mech );
$mech->get( 'https://metacpan.org' );

# now watch the console for debugging output
# turn off header dumps
$console_logger->dump_headers( 0 );

$mech->get( $some_other_url );
```

GET <http://www.nytimes.com/2014/04/24/technology/fcc-new-net-neutrality-rules.html>

GET params:

Key	Value
r	1
hp	

Request Header	Value
Accept-Encoding	gzip
Cookie2	<code>\$Version="1"</code>
Referer	http://www.nytimes.com?foo=bar
User-Agent	WWW-Mechanize/1.73

==> 200 OK

Title: The New York Times - Breaking News, World News & Multimedia

Response Header	Value
Accept-Ranges	bytes
Age	176
Cache-Control	no-cache
Channels	NytNow
Client-Date	Fri, 30 May 2014 22:37:42 GMT
Client-Peer	170.149.172.130:80
Client-Response-Num	1
Client-Transfer-Encoding	chunked
Connection	keep-alive
Content-Encoding	gzip
Content-Type	text/html; charset=utf-8
Date	Fri, 30 May 2014 22:37:41 GMT
Content-Length	65951
Server	Apache
Via	1.1 varnish
X-Cache	HIT
X-Varnish	1142859770 1142854917

Text
F.C.C., in a Shift, Backs Fast Lanes for Web Traffic...

- indents XML
- indents JSON
- converts XML to Perl data structure
- and a ton of other things

REALLY COOL

But still hard to use. Need to have the ua objects.

```
my $logger = debug_ua($ua);
```

COMBINE



memegenerator.net

```
use LWP::ConsoleLogger::Everywhere;
```

And that's it.

- works with all LWP::UserAgent subclasses
- deep down in your app
- load wherever you want
- as long as it's loaded at compile time it will work

```
# access all the loggers somewhere  
my $loggers = LWP::ConsoleLogger::Everywhere->loggers;
```

```
# customize individually  
$loggers->[0]->pretty(0);
```

Great for SOAP or REST clients, especially deep inside your models.

LIVE DEMO

```
use Dancer2;
use LWP::UserAgent;

get '/json' => sub {
    my $ua = LWP::UserAgent->new;
    my $res = $ua->get("http://localhost:5001/json");
    return $res->decoded_content;
};

get '/xml' => sub {
    my $ua = LWP::UserAgent->new;
    my $res = $ua->get("http://localhost:5001/xml");
    return $res->decoded_content;
};

dance;
```


but doesn't work with WWW::Mechanize::Chrome

Thank you