

Random Hacks

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Six Apart / Shibuya Perl Mongers

YAPC::Taipei 2005/03/27

Hacking

- “Hacking is my life”
 - Hacking Perl (CPAN)
 - Hacking Applications
 - Hacking Services
- To Make my life a bit happier

[O'Reilly's Hacks Series reclaims] the term "hacking" for the good guys--innovators who explore and experiment, unearth shortcuts, create useful tools, and come up with fun things to try on their own.

Agenda

- Web 2.0 Hacking
 - Blogging APIs
 - Data visualization
 - Folksonomies stuff
- iTunes Hacking

... quite random

Because I wrote this last night, 3am

What is Web 2.0?

- Web 2.0 is Read-Write Web
 - With RSS/Atom feeds
 - With Simple (REST) APIs
 - Weblogging
 - Social Networking
 - Photo Sharing
 - Social Bookmark
 - Folksonomies

Weblogging APIs

- Blogger API
 - Pyra Labs (Google)
- MetaWeblogAPI
 - Dave Winer (Radio Userland)
 - RSS 2.0
- MT API
 - Movable Type (Six Apart)

Weblogging APIs

- Based on XML-RPC
 - XML over HTTP

```
POST /RPC2 HTTP/1.0
Host: betty.userland.com
Content-Type: text/xml
Content-length: 181
```

```
<?xml version="1.0"?>
<methodCall>
<methodName>examples.getStateName</methodName>
<params><param>
  <value><i4>41</i4></value>
</param></params>
</methodCall>
```

```
HTTP/1.0 200 OK
Content-Type: text/xml
Content-length: 158
```

```
<?xml version="1.0"?>
<methodResponse>
<params><param>
<value>
  <string>South Dakota</string>
</value>
</param></params>
</methodResponse>
```

Demo

- Post IM chat logs to Blog
 - msn_to_blog.pl
 - MSN Messenger
 - Chat Log file is in XML (Optional Setting)
 - XML::LibXML to parse it
 - XMLRPC::Lite to post via MetaWeblog API

Modern Weblogging APIs

- AtomAPI (AtomPP)
 - RESTful APIs for Content Syndication
 - Part of Atom WG at IETF
- Solves issues with XML-RPCs
 - Damn simple
 - Sometimes ad-hoc
 - Clear Password
 - etc, etc.

AtomAPI

- Still not in version 1.0
 - 0.3 draft last week
- Nokia Lifeblog uses it
 - Integrated with TypePad
 - Experimental Six Apart namespace
 - Standalone resource posting
 - Similar to metaWeblog.newMediaObject
 - http://cognections.typepad.com/lifeblog/2004/12/lifeblog_postin.html

Demo

- Flickr2TypePadMMT
 - Uses Nokia LifeBlog API + Flickr API
 - XML::Atom::Client
 - XML::Simple
 - MMT = MultiMedia Template
 - New TypePad feature
 - Integrated with Photo Album
 - <http://blog.bulknews.net/flickr2typepad.cgi>

AdSense and Amazon

- Make money with your Weblog
 - Google AdSense is really nice
 - Display Ads based on your weblog context
 - But sometimes no Ads available
 - I want to put Amazon ads in such cases
 - Hack it!

Demo

- AdSense Alt Ads with AWS
 - Use <\$MTKeywords\$> with MT Template
 - JavaScript to hack AdSense code
 - Hand-made AdSense immitator script
 - To search Amazon Web Services

Off To Taipei

明日から 3/28 まで、YAPC::Taipei に出席するため台湾へ行ってまいります。

世界中から Perl geeks が集まるようで楽しみ。カンファレンス後には Hackathon も予定されているのですが、仕事の都合上すぐに戻らないといけなくてちょっとあと、少しでも東京の花粉から逃れられるのがうれしいです。さてそろそろプレゼンの準備を。



初めてのPerl
数行のコードでデータ処理作業の効率を数百倍に出る魔法の言語perl。この本に出会わなけ..



一週間でマスターするPerl f..
プログラミング本の最初の一冊は基礎の基礎をがっちり体で覚え、基礎を「解る事」ではなく「出..



はじめての人のためのかんたんPerl
誰でもプロバイダー契約をしてネットワーク接続をしてHPを見ているわけですが、この本は、とりあえず..

[Search more in Amazon](#)

Posted by miyagawa at March 24, 2005 05:05 PM | [Permalink](#) | [Comments \(0\)](#) | [TrackBack\(0\)](#)

More Blogging Hacks

- The book
 - Blog Hacks
 - ISBN 4873111749
 - Only available in Japanese
 - English version now in plan



RESTish APIs in Web 2.0

- Yahoo! Search API
 - Damn simple XML over HTTP
 - XML::Simple + LWP::Simple
 - No SOAP support
 - Because SOAP raises many interoperability issues (evil laugh)
 - No WS-* glitches

Demo

- Yahoo! And Flickr aggregator
 - Search images in Y! and Flickr
 - Authority vs. folksonomy
 - <http://blog.bulknews.net/imgsearch.cgi>

iTunes Hacking

- The best music player
 - Rocks with Rendezvous sharing
 - Rocks with AirPort Express
- SDK available
 - AppleScript for Mac
 - WSH (COM) for Win32



Rendezvous

- Multicast DNS
 - Music files can be shared on iTunes
 - Using DAAP protocol
 - Digital Audio Access Protocol
 - Similar to DPAP (iPhoto)
 - Leon made Net::DPAP::Server
 - Perl binding: Net::DAAP::*

Demo

- Browse iTunes share from browser
 - Net::Rendezvous to find shared music
 - Net::DAAP::Client to search the library
 - You can even download the songs
 - But you shouldn't

AirPort Express

■ AirTunes

- Remote speaker over ethernet / Wi-Fi
- RAOP over RTSP
 - RAOP: Remote Audio Output Protocol
 - RTSP: Real Time Streamin Protocol
- DVDJon cracked the protocol
 - JustePort (C#)
 - Working on a perl port - Net::AirTunes

iTunes SDK

- Script your iTunes
 - With AppleScript or COM (OLE)
 - I'm a Windows guy, so use Win32::OLE
 - But the essence is the same with Mac

```
use Win32::OLE;  
my $itunes = Win32::OLE->new("iTunes.Application");  
print $itunes->currentTrack->title;
```

Demo

- Control iTunes from browsers
 - Standalone HTTPD
 - To avoid Apache Win32 security issue
 - With HTTP::Daemon
 - I know I should try HTTP::Server::Simple, obra
 - Win32::OLE to control iTunes

Demo 2

- RSS feed to audiobook
 - Microsoft SAPI5
 - Text-to-Speech engine (WAV)
 - iTunes API
 - Encode the music into AAC
 - XML::RSS + Win32::SAPI5 + Win32::OLE
 - Microsoft and Apple collaboration

Summary

- Blogging, Web 2.0 and iTunes
 - APIs available to hackers
- Hacking is easy
 - Since they have damn simple APIs
 - via XML over HTTP or COM
- Hacking is fun
 - Just have fun