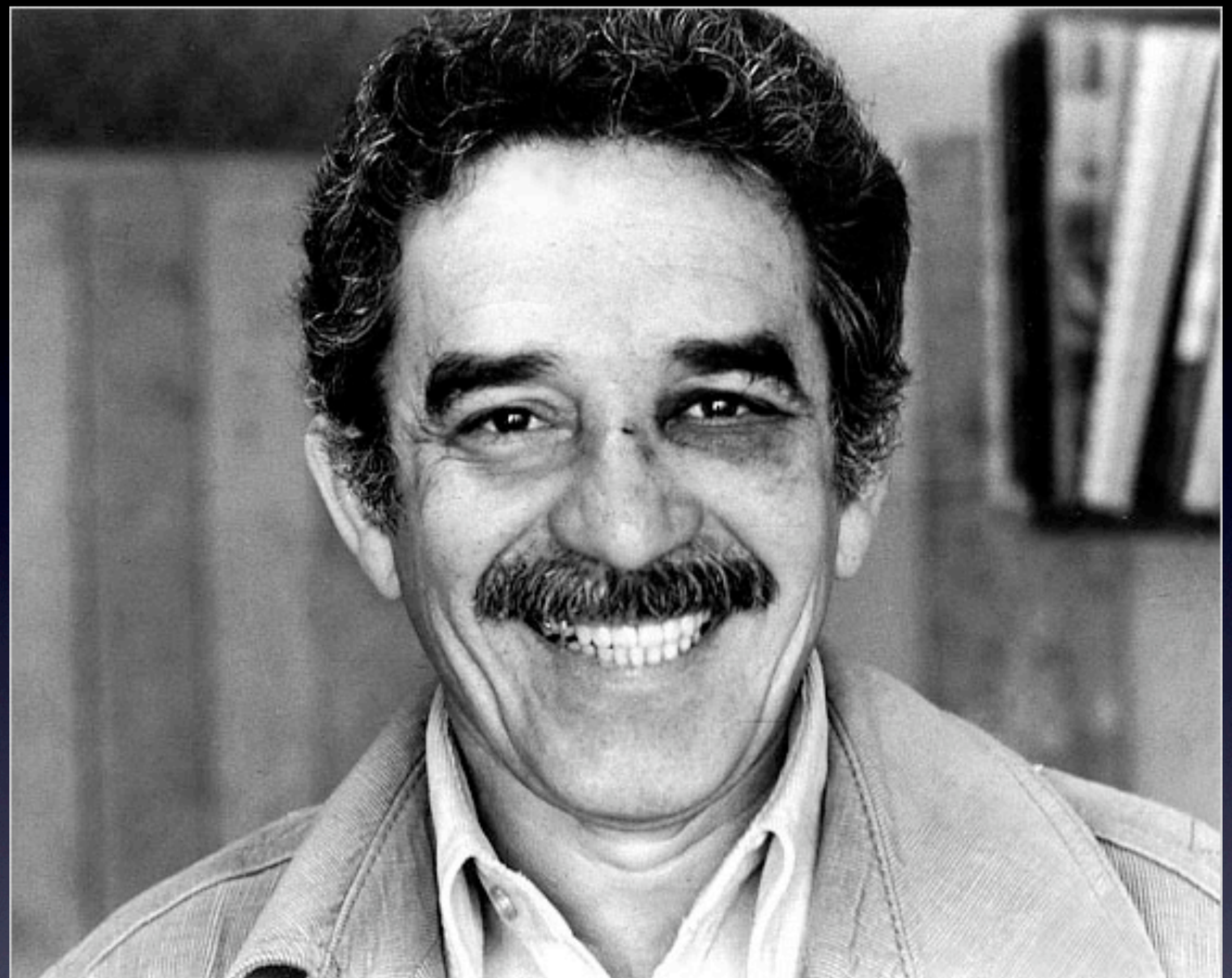
twitter.com/damog

Perl in the Time of Social Networks

David Moreno

Yes, like Love in the Time of Cholera!



García Márquez. You see the black eye?
Fact by @detournement

Meme, a little introduction of myself.

Who am I?

Let's better ask...

Who am I not?

I'm not a Perl expert.

I'm not a Perl guru.

I'm not pretending to be someone I'm not by giving this talk.

I'm really not.

I like to code.

I like to solve problems.

I like to find interesting shit to do.

I like to hangout with my friends.

But I'm really not a CS guy.

I have some Linux background.

I used to be a Debian fanboy (damog@debian.org).

Now, I'm a Mac fanboy.

I like Perl because it's cool.

I started learning Perl in 2005.

I was really into it in 2006.

It got me a job in New York in 2007.

I also like Ruby.

...and Rails.

And I'm not ashamed. Why would I?

It pays the bills.

I work for an Internet startup.

It is a premium content and media distribution company.

I like the job.

It broadened horizons.

One can do anything one likes and wants.

And you can also use Perl for it.

Social Networks.

Websites and online communities.

People share common interests.

They enjoy spending time connecting.

They enjoy spending time playing.

Why are they important to people?

They are the websites that bring the human side to the Internet.

Three major social network websites.

Facebook.
MySpace.
Twitter.

(at least in the US)

Let’s talk about Facebook.

300 million dollars in revenue.

Started with a $500K funding.

It then raised 13 and 27 million.

A lot of millions dollars followed by a number of companies.

Microsoft bought a 1.6% share.

IN FUCKING TWO HUNDRED FORTY MILLION DOLLARS

That gave Facebook the estimated value of 15 billion dollars.

The most used social network according to Compete.com.

Plus, it has 70 million US users, according to ComScore.

307 million users worldwide.

Do you know already where I'm heading to?

MySpace.

Horrible website.

It was worth 580 million papers for News Corporation.

Overtaken by Facebook in April 2008.

126 million users worldwide in June 2009.

Dying?

MySpace Music.

Google paid 900 million to provide search.

You still thinking, who cares?

twitter.com/damog

Twitter.

Is it really a social network?

Media awareness.

Barack Obama. Ashton Kutcher. Oprah Winfrey. Shaquille O'Neal.

Your mom.

Nielsen ranked it the fastest-growing social network.

1382% monthly growth.

Persistent outages.

US Airways Flight 1549.

twitter.com/damog

#IranElection

twitter.com/damog

Twitter addiction.

So... who cares?

You $hould.

Social networks application development?

You can reach a gazillion users worldwide.

More impressions than you could possible think of for your pet projects.

And... you are a programmer.
A coder. A developer.

Users want to keep using those websites.

Those websites want to keep their users.

They also want external help.

From you.

The three big ones have available APIs.

Use them!

It's all REST now.

Remember XML-RPC? Or SOAP?!

Facebook's FBML and FQL.

MySpace and OpenSocial.

MySpace Apps and MySpaceID.

Twitter OAuth. HTTP Auth.

Perl.

Perl on the Web.

A bunch of frameworks.

Web Applications in 2009, by Jonathan Rockway.

HTTP::Engine.

Catalyst, of course.

ModPerl fo' life, yo.

Again, there's a whole world out there waiting for you.

What alternatives are there?

MySpace.

Why MySpace first?

The social network forgotten by CPAN module developers.

WWW::MySpace.

Scrapping is cool, but not always.

OpenSocial specification.

Net::OpenSocial::Client::Container::MySpace

Net::MySpace!

I'm releasing it today.

Very young development.

My primary target of work.

MySpaceID applications.

Inspired by Miyagawa's Net::Twitter::OAuth.

Twitter's OAuth + Perl

with one comment

During the last week, unbeatable Tatsuhiko Miyagawa uploaded Net::Twitter::OAuth to CPAN, which provides an awesome interface for Net::OAuth::Simple and Twitter by subclassing Net::Twitter. This way, it's very easy to develop Twitter client applications using its *new* OAuth method dropping the need for users to hand their credentials to third parties.

You will have to register your application on Twitter previously. You can do so here. If this is a web application that you will be building, you can provide a callback URL which is the page where the user will get redirected once she has granted access to your application. If you just want to test, setting a desktop application is probably the way to go.

Once you have registered your application, you will get two strings, key and secret consumer. Refer to general OAuth documentation for deeper details.

Install Net::Twitter::OAuth as any other Perl module:

```
1. $ sudo cpan Net::Twitter::OAuth
```

Now, using it is very simple:

```
1. my $client = Net::Twitter::OAuth->new(
2.   consumer_key    => "YOUR-CONSUMER-KEY",
3.   consumer_secret => "YOUR-CONSUMER-SECRET",
4. );
```

No transactions or requests have been made yet. Here you need the user's access and secret tokens. If you already have them, which means that the user has already gone through the authorization process, you have to pass it now (you already stored them on database, a configuration file or whatever the data model you use):

```
1. if ($access_token && $access_token_secret) {
2.   $client->oauth->access_token($access_token);
3.   $client->oauth->access_token_secret($access_token_secret);
4. }
```

I liked it so much I blogged about it for Iron Man to spread the word.

Uses wonderful Net::OAuth::Simple.

```perl
use Modern::Perl;
use Data::Dumper;
use Net::MySpace;

my $consumer_key        = '4322affed33443cdab958fd4379b2d2c';
my $consumer_secret     = '475c9593b1f04d9d8076409816401a7e';

my $ms = Net::MySpace->new(
    consumer_key        => $consumer_key,
    consumer_secret     => $consumer_secret,
);

say $ms->oauth->get_authorization_url(
    oauth_callback => "http://localhost/authorized"
);

<STDIN>;

my($access_token, $access_token_secret) = $client->oauth->request_access_token;
>
print Dumper $ms->friends_status(
    userId => $ms->user->{userId}
);
```

Super-easy usage.

It's all blah-blah-blah!

ScreenFlow File Edit Insert Font Actions View Window Help Mon Jun 22 11:03:49 PM

MySpace Open Platform: Edit App Information

http://developer.myspace.com/modules/apps/pages/EditApp.aspx?appid=140286

Most Visited TwitterKeys UDG - MC damog's Music Profi... Shorten with bit.ly Post with Tweetie Twitter Search

MySpace Open Platform: Edit A... MySpace REST Resources - MyS...

myspace Open Platform.

damog | Sign out | MySpace.com

Home Documentation Build Tools My Apps Forum Blog Release Notes

Net-MySpace-API > Edit App Information

Common App Settings

Language:* English

To promote the application in multiple languages in the app gallery or in the off-site authorization page: choose a language, enter the Application Title and Application Description in that language, upload language-specific Application Icons, then click on the Save button at the bottom of this page.

Application Title:* Net-MySpace-API

Enter the title of the application for the currently-selected language.

Application Description:* Testing sandbox for MySpaceSDK for Perl: Net::MySpace::API

The language of the description shown in the app gallery or the off-site authorization page is based on the user's culture, not the application's default language. Enter the description using the language that is currently selected.

Small Icon (16x16): Browse...

Large Icon (64x64): Browse...

Upload icons for the current selected language. Note that icons do not need to be unique, but they must be properly sized (in pixels).

Callback URL Settings

Uninstall Callback URL:

This URL is called once when the User uninstalls the application or revokes an OAuth token. The request to the URL will be signed and contain the User's ID.

Done Now: Cloudy, 66 °F Tue: 79 °F Wed: 79 °F

Facebook.

There's not too many Facebook apps written in Perl out there.

PHP hell.

Perl hell?

WWW::Facebook::API

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Facebook | David Moreno

http://www.facebook.com/damog?ref=name

Most Visited TwitterKeys UDG - MC damog's Music Profi... Shorten with bit.ly Post with Tweetie Twitter Search

Facebook | David Moreno

facebook Home Profile Friends Inbox David Moreno Settings Logout Search

View Photos of Me (95)

Edit My Profile

Funky beaner, dorky motherfucker!

Information

Networks:
New York, NY

Relationship Status:
Married to
Raquel Hernández

Birthday:
August 8, 1984

Current City:
Harlem, New York, NY

Friends

558 friends See All

Diego Ulbach Nieto

Dayana Matos

Guillermo Garcia Ledezma

David Moreno

Wall Info Photos Boxes +

What's on your mind?

Share

Add: Link Photos Video Nickname

David + Friends Just David Just Friends Settings

David Moreno Mac cufflinks!

http://mobypicture.com/?duc4rf

Mobypicture.com Photos

Yesterday at 3:51pm · Comment · Like · Share

RECENT ACTIVITY

David and Dave Moreno are now friends. · Comment · Like

David is attending Ficheras - Politicos & Pornos. · Comment · Like · Invite guests

David became a fan of Wine Library TV. · Comment · Like

David Moreno So @maggit finishes dinner with a "small" treat :) - http://mobypicture.com/?pdmkj2

Sat at 11:03pm · via Mobypicture.com · Comment · Like

Lucero Estrada at 12:26am June 21
Yumi Yumi Yumi =]

Advertise

Le Cordon Bleu

If you dream of becoming a chef, Le Cordon Bleu can help you get started. See what difference Le Cordon Bleu training can make!

Sit-Up and Listen

Abdominal exercises don't burn off body fat, but these unique workout methods and nutrition tips do.

More Ads

Applications

Chat (Offline)

Done

Now: Cloudy, 70 °F Tue: 79 °F Wed: 79 °F

twitter.com/damog

Twitter.

Dead simple.

Net::Twitter

Net::Twitter v1 and v2

twitter.com/damog

Marc Mims' Net::Twitter 3.0

Net::Twitter::OAuth

twitter.com/damog

Net::Twitter::Lite

Not worth a movie.

Go to CPAN for examples.

```
use Net::Twitter;

my $nt = Net::Twitter->new(
    traits   => [qw/API::REST/],
    username => $user,
    password => $password
);

my $result = $nt->update('Hello, world!');

eval {
    my $statuses = $nt->friends_timeline({ since_id => $high_water, count => 100 });
    for my $status ( @$statuses ) {
        print "$status->{time} <$status->{user}{screen_name}> $status->{text}\n";
    }
};
if ( my $err = $@ ) {
    die $@ unless blessed $err && $err->isa('Net::Twitter::Error');

    warn "HTTP Response Code: ", $err->code, "\n",
         "HTTP Message......: ", $err->message, "\n",
         "Twitter error.....: ", $err->error, "\n";
}
}
```

Alright, here's a snippet.

What about *other* social networks?

Tumblr.

Not exactly a social network.

Something between a blog and a Twitter feed.

```
my $t = WWW::Tumblr->new;

# The email you use to log in to Tumblr
$t->email('pepito@chistes.com');
$t->password('foobar');

# You will always have to pass a type to write() and the additional
# args depend on that type and the requests by the Tumblr API
$t->write(
        type => 'regular',
        body => 'My body text'
);
```

WWW::Tumblr: Badass simplicity.

Bebo.

Blog Early, Blog Often.

850 million greens worth for AOL.

WWW::Bebo::API

Same as Facebook.

Perl's hall of shame.

Windows Live Spaces.

35 million users.

Tagged

One of the biggest after the three great ones.

920 million dollars according to TechCrunch.

Hi5

65 million users.

Popular by my homies.

Net::Hi5 on development.

Friendster

61 million unique visitors monthly.

19 billion impressions a month.

Popular in the Asian market.

So.

Did you get my point?

What are you waiting for?

What are we waiting for?

Let’s start grindin.

Represent.

Thanks <3

github.com/damog/perl-socnet

Qs?