

# Leveraging Rails to Build Facebook Applications

By David Keener

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■■■■■ **VERSION 2.0**



Arizona's First Ruby Conference  
**SunnyConf**

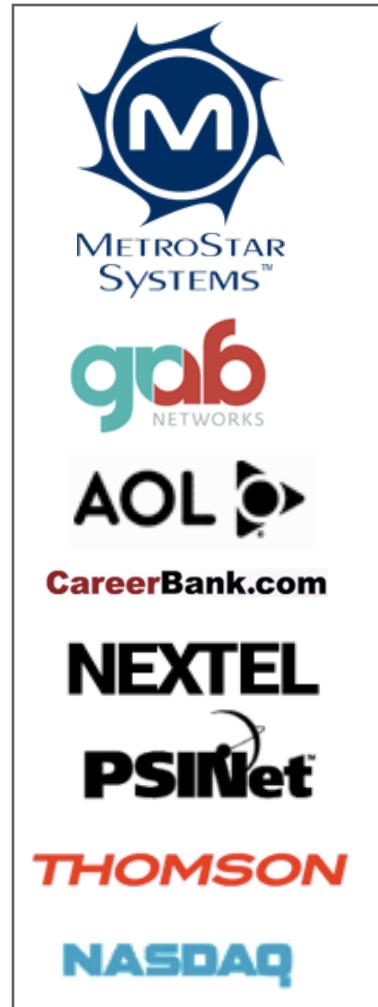
# About Me

## David Keener

From the Washington DC Area.

I'm a Senior Solutions Architect for **MetroStar Systems**, a 10-year-old consulting company where I work on New Media projects for government agencies, non-profits and commercial companies.

- **Blog:** <http://www.keenertech.com>
- **Facebook:** <http://www.facebook.com/keenertech>
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[dkeener@metrostarsystems.com](mailto:dkeener@metrostarsystems.com)



A photograph of a couple walking along a beach at sunset. The sun is low on the horizon, casting a warm orange glow over the water and the city skyline in the background. The couple is silhouetted against the light, holding hands. The image has a dark, moody feel.

**The world's  
largest social network  
and  
most productive web framework**



**And then Reality sets in...**





# Overview

- Why work with Facebook?
- The Facebook Development Landscape
- How to Get Started
- General Application Types
- Some tips and best practices



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  - Lots and lots and lots of people
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  - Learning to embrace the chaos
- General Application Types
  - Plus a few examples
- Some tips and best practices
  - Your Facebook development survival guide

Iran Voices

**IRAN VOICES**  
VOICE YOUR MIND

Home Invite Polls Tweets My Polls

Iran Voices  
Wants to Know



Ali Hoseyni  
Khamenei



Ali Akbar Hashemi  
Rafsanjani

*Which of These Two Leaders Has the Greatest Influence In Iran?*

[Vote Now!](#)

[Current Results](#)

[Create A Poll](#)

Be a student.  
Be a musician.  
Explore a new culture.  
Learn English.



Use your phone to start  
your X-Life today.

Welcome to Iran Voices! Voice your Opinion and Invite your friends to do the same. You can create your own Polls too!

#### Related Polls

[Which Candidate Did You Vote For In The June 12th Presidential Election?  
poll never expires](#)

[Which of These Two Leaders Has the Greatest Influence In Iran?  
poll never expires](#)

#### Related Tweets



[AMSR12 Sind eure Landesgesetze und allgemein gültige demokratische Werte bei Massenmörder aufgehoben USA, EU?  
#iran  
4 months ago](#)

0 credits - Get Info

Games

Twitter

Votridea

More

Create an Ad

Build a Massive Fanbase



Add a Promotions tab to your fan page. Go live with a viral Sweepstakes, Contest, or Coupon in Minutes with Wildfire!

Want A Killer Good Time?



Play Mafia Wars today and find out just how much fun you can have robbing, stealing and putting out contracts on your friends!

Jim Coudriet, Thoraya Zedan, and John Gianopoulos played this.

Free Flip Camcorder

Chat (2)

# PollCast

[Home](#) [Polls](#) [Invite](#) [My Polls](#)

Welcome to PollCast!  
Create a cool Poll with  
your own photos and  
invite your friends to  
vote. You might be  
surprised what your  
friends really think!

Create  
Your Own  
Poll

Кой е вашият любим отбор във F1?

Vote Now View Results



Stanislav Dimitrov wants to know  
1 vote 0 comments

NFL Football: Who Will Win the NFC East?

Vote Now View Results



Johnny Nguyen wants to know  
52 votes 8 comments

What is your favorite holiday?

Vote Now View Results



Kayley Suk wants to know  
28 votes 3 comments

Coke or Pepsi?

Vote Now View Results

0 credits - Get Info

Games

Iran Voices

Twitter

More

Create an Ad

Build a Massive  
Fanbase



Add a Promotions tab to  
your fan page. Go live  
with a viral Sweepstakes,  
Contest, or Coupon in  
Minutes with Wildfire!

Fun Rottweiler T-  
shirts



Get 15% off your order of  
\$56 or more with code  
FB15 today only at  
Cafepress.com.au

Like

Free Flip Camcorder



Chat (3)

[Sign In](#) [Search](#)[HOME](#) [VIDEOS](#) [JUDGES](#) [ABOUT](#) [RULES](#) [FAQS](#) [CONTACT US](#)

## Best Garage Band Contest 2010

[Upload Video](#)  
[Learn More](#)

[Sign In](#)

Click icon to sign in

Tell your friends  
about the contest!

[Share](#) | [f](#) [g](#) [t](#) [e](#) [m](#) [g](#)[Who's Been Here?](#)[Random](#)[Recently Added](#)[Top Rated](#)[More...](#)

### Random Videos



2 views

3.73



1 view

3.55



5 views

2.70



3 views

2.60



3 views

2.75

### More Entries



### Recent Activity

[Garage Band, Congresbury!](#)

David McVicar, Johnny Nguyen and 3 people shared this.

[Garage Band – Electric Funeral](#)

Johnny Nguyen shared this.

[View All](#)



# Why Facebook?

F  
A  
C  
E  
B  
O  
O  
K

More than  
**500 million**  
active users

**50%** of active users log on to Facebook in any given day

More than  
**35 million**  
users update their status each day

More than  
**60 million**  
status updates posted each day

More than  
**3 billion**  
photos uploaded to the site each month

More than  
**5 billion**  
pieces of content  
(web links, news stories, blog posts,  
notes, photo albums, etc.)  
shared each week

Average user has  
**130 friends**  
on the site

Average user sends  
**8 friend requests**  
per month

Average user spends more than  
**55 minutes**  
per day on Facebook

Average user clicks the Like button on  
**9 pieces of content**  
each month

Average user writes  
**25 comments**  
on Facebook content each month

Average user is a member of  
**13 groups**

Every month  
**70% of all users**  
use Facebook apps

More than  
**1 million**  
developers from 180 countries

More than  
**500,000**  
active Facebook apps

More than  
**250 apps**  
have 1 million+ users

More than  
**80,000 sites**  
now use Facebook Connect

More than  
**60 million**  
use sites via Facebook Connect

# Beyond the Stats....

Facebook provides...



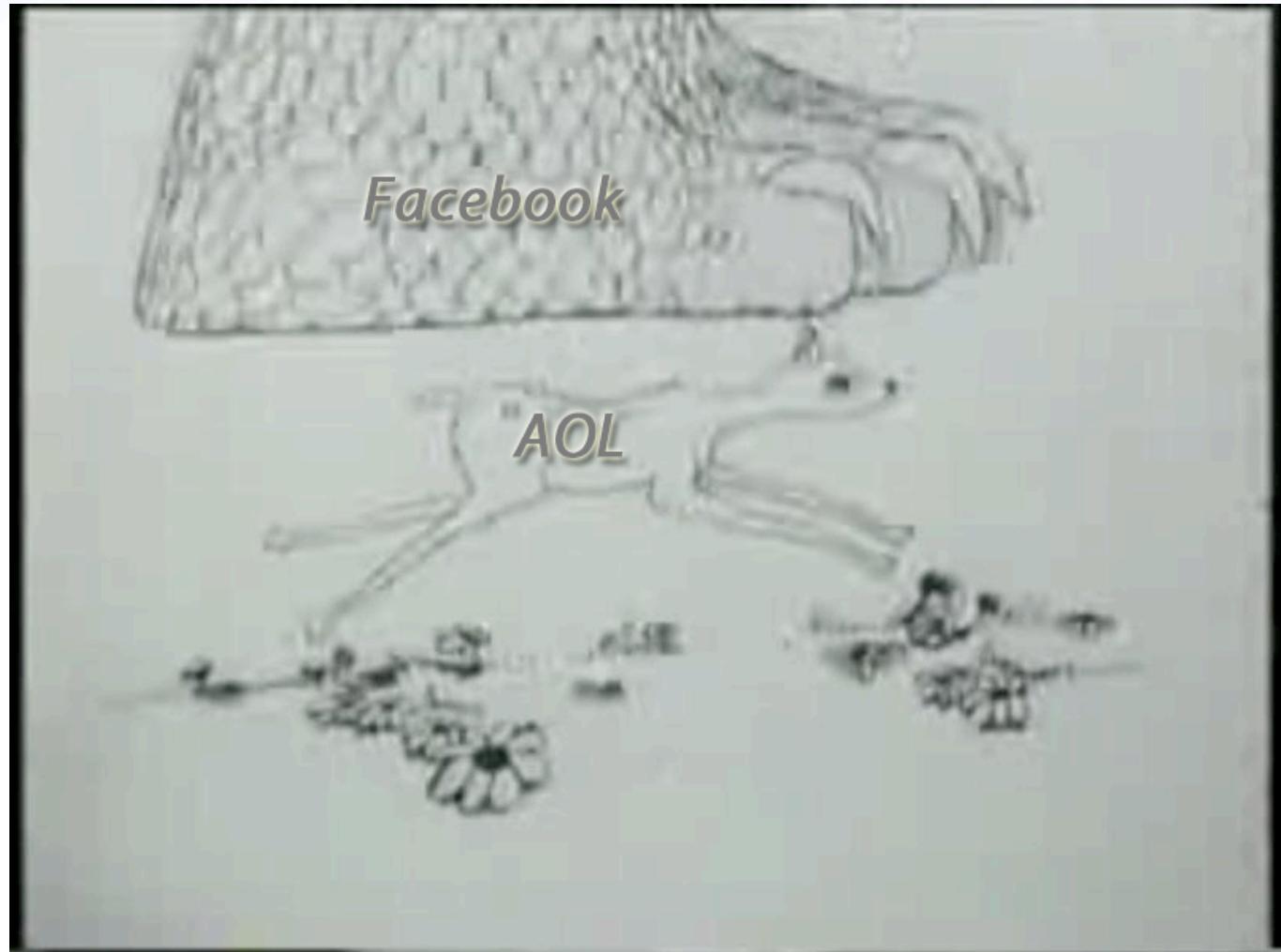
- A large and active audience
- Global reach (70% non-US)
- Methods for apps to interact with that audience
- Well-defined ways for audience members to tell their friends what they like
- Successful apps can make real money

# Bambi Meets Godzilla

Facebook:  
500 million

AOL:  
35 million

(Also a 1969 animated  
short from Marv  
Newland)



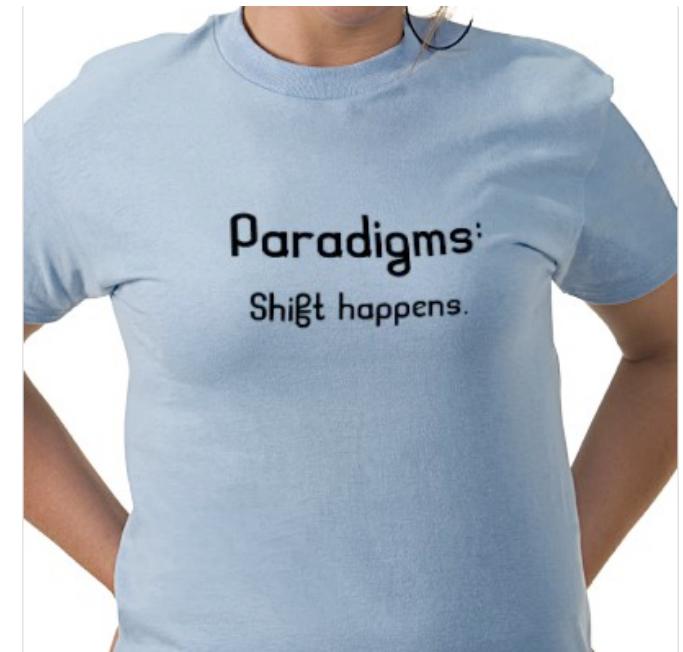
<http://www.youtube.com/watch?v=ZpBkc2jK-6w>



# The Development Landscape

# F8 Announcements

- OpenGraph API replaces old REST API
- Relaxation of draconian data storage policies
- Re-branding of Facebook Connect
- Data Permissions
- OAuth 2.0
- Revised client libraries
- New easy-to-integrate widgets
- Deprecation of FBML



[http://www.zazzle.com/paradigm\\_shift\\_shirt-235689301340536532](http://www.zazzle.com/paradigm_shift_shirt-235689301340536532)

# Platform After F8

## API

- OpenGraph \*
- Old REST Web Services
- Libraries
  - Official: JavaScript, PHP and Python
  - Unofficial: Many
  - Gems: Facebooker, Facebooker2, Mogli

FQL - Similar to SQL

Social Plugins (Widgets) \*

## FBML and FBJS

- HTML with extensions
- JavaScript with extensions
- Used with “canvas” – not needed with iframe apps

## Facebook Connect

- Single sign-on, external sites



# Facebook Has a PHP Mindset

- Facebook was designed with PHP in mind
- No “dev” version of Facebook to test apps against upcoming platform changes
- Their REST interfaces don’t do REST in the Rails way
  - <https://graph.facebook.com/me/friends>
  - <https://graph.facebook.com/me/home> (News Feed)

Just accept it and move on...



# The Moving Target



- Facebook changes often, and with little warning
- 3<sup>rd</sup> party libs always lag behind platform changes...
- Facebook after F8 is in flux, and so are 3<sup>rd</sup> party libs



# Getting Ready to Develop

- ① Create a Facebook account
  - You can't play if you don't join
- ② “Install” the Facebook Developer app
  - <http://www.facebook.com/developers>
- ③ Create a Facebook application
  - Register your app with Facebook
- ④ Record key data elements for later use
  - Application ID (Your OAuth client\_id)
  - Application Secret (Your OAuth client\_secret)



## Some App Variations

- External, Single Sign-On Only
  - Just leverages Facebook's audience
- External, Shallow Integration (Social Plugins)
  - Quick, easy, limited...needs JavaScript lib only
- External, Deep Integration (OpenGraph)
  - A deeper user experience, more work
- Facebook Canvas Application
  - Functions within the Facebook context
  - Can integrate with Facebook Business Pages



# Example 1: Single Sign-On



# Single Sign-On, JavaScript (1)

Must include the following code:

```
<div id="fb-root"></div>
<script src="http://connect.facebook.net/en_US/all.js"></script>
<script>
  FB.init({appId: '123456789012345', status: true, cookie: true, xfbml: true});
  FB.Event.subscribe('auth.sessionChange', function(response) {
    if (response.session) {
      // A user has logged in, and a new cookie has been saved    }
    else {
      // The user has logged out, and the cookie has been cleared    } });
</script>
```

# Single Sign-On, JavaScript (2)

<fb:login-button></fb:login-button>



- Or you can have your own button and call FB.login via JavaScript for a login popup...

```
FB.login(function(response) {  
  if (response.session) {  
    if (response.perms) {  
      // user is logged in and granted some permissions. }  
    else {  
      // user is logged in, but did not get any permissions }  
  } else {  
    // user is not logged in  
  }  
}, {perms:'read_stream,publish_stream,offline_access'});
```



# Facebook Cookie

- Successful logins result in the creation of a Facebook cookie
- The cookie is called: **fbs\_APP\_ID**
- That cookie can be interrogated by Ruby code on the server
  - access\_token, facebook\_id (UID)
- Generally, you create local accounts for Facebook users (and record things like their name, UID, etc.) after they've logged in for the 1<sup>st</sup> time



## Example 2: Profile Pics

# Facebook Profile Pics

Who's Been Here?



[View All](#)

- If you know any user's Facebook UID, then you can show their profile pic...

<https://graph.facebook.com/UID/picture?type=small>



# Example 3: Single Sign-On

(Ruby and OAuth2)

# Single Sign-On, Ruby



**Sign In**

Choose a login method

---

Email

Password

**Sign In** or **Sign Up**

[Forgot Password?](#)

- We'll use the OAuth2 gem for Facebook authentication
- Same technique also works with Twitter and LinkedIn



# Facebook Login Badge

```
<% if @auth_method.nil? || @auth_method == :any %>
  <p><%= I18n.t('text.login.choose') %></p>
  <ul id="login-types" class="clear">
    <li class="vtr" style="cursor:pointer"></li>
    <li class="fb"><%= link_to "<span class=\"alt\">" +
      I18n.t('label.connect_3rd_party',
      :network=>"Facebook") + "</span>",
      facebook_login_url(:contest_id => contest_id, :back =>
      request.env['REQUEST_URI']), :title =>
      I18n.t('label.connect_3rd_party', :network=>"Facebook")
    %>
    </li>
```

...



# Facebook Routes

- We support multiple auth schemes
- Each one has its own controller, e.g. –  
facebook\_controller.rb
- Here are the relevant routes:

```
map.facebook_login "facebook/", :controller => 'facebook',
                    :action => 'new'
map.facebook_oauth_callback "facebook_oauth_callback/",
                            :controller => 'facebook', :action => "oauth_callback"
```

# New Login Action

```
class FacebookController < StoreBaseController
  before_filter :authorize, :except=>[:new, :oauth_callback]

  def new
    session[:return_to] = params[:back] if params[:back]
    redirect_to client.web_server.authorize_url(:redirect_uri =>
      facebook_oauth_callback_url)
  end

  def oauth_callback end    # Provided on next slide

  protected

    def client
      @config ||= YAML.load(File.open(RAILS_ROOT +
        "/config/facebook_auth.yml").read)[RAILS_ENV]
      OAuth2::Client.new(@config['client_id'],
        @config['client_secret'], :site => @config['base_url'])
    end
  end
```

# Oauth\_Callback Action

```
def oauth_callback
  unless params[:code]
    authentication_failed('Authentication info does not match session info.') and return
  end
  access_token = client.web_server.get_access_token(params[:code],
    :redirect_uri => facebook_oauth_callback_url)
  user = FacebookUser.identify_or_create_from_access_token(access_token)
  session[:user_id] = user.id
  session[:user_type] = user.user_type
  user.increment!(:login_count)
rescue Net::HTTPServerException => e
  case e.message
    when '401 "Unauthorized"'
      authentication_failed('This auth request is no longer valid') and return
    else
      authentication_failed('There was a problem trying to auth you.') and return
  end
end
```

# Parsing the JSON

```
def self.identify_or_create_from_access_token(token)
  raise ArgumentError, 'Must authenticate with an OAuth2::AccessToken.' unless
    (token) || token.is_a?(OAuth2::AccessToken)
  user_json = token.get('/me')
  user_info = JSON.parse(user_json).symbolize_keys

  unless user = self.find_by_external_id(user_info[:id])
    user = self.new( :external_id => user_info[:id])
  end
  FACEBOOK_ATTRIBUTES.each do |att|
    user.send("#{att}=", user_info[att]) if user.respond_to?("#{att}=")
  end
  user.external_id = user_info[:id]
  user.access_token = token.token
  user.profile_pic = "https://graph.facebook.com/#{user_info[:id]}/picture?type=small"
  user.save
  user
end
```



# Tips and Best Practices



# Practical Tips

- Look carefully at performance
  - Control the number of Facebook calls on a page
  - Consider FQL to get data more efficiently
  - FQL has been updated to use OpenGraph
  - Cache data where possible
- If you use the canvas, use the iframe sub-type
  - Better control of the output
  - No need for HTML to be scrubbed (or mangled) by Facebook
- Do periodic regression tests on production code



## For Canvas Apps

- “Hybrid Apps” is the way to go
- Limited functionality works within the Facebook “canvas”
- For advanced features, users taken to a separate site
- Example: PollCast – Users can take polls within Facebook, but they create them by going to a separate site



# Best Gems Right Now

- **OAuth2** – For authentication
- ~~**Facebooker**~~
  - Pros: Handles FBML, well documented, plus has Mike Mangino's book
  - Cons: Many things don't work anymore, it won't support Rails 3.0 and FBML is deprecated
- **Facebooker2**
  - Pros: Updated for OpenGraph, Rails 3.0
  - Cons: Alpha, still evolving
- **Mogli** – Library wrapper for OpenGraph



# Resources

- Facebook Developer Resources
  - <http://www.facebook.com/developers>
  - <http://developer.facebook.com>
- “Developing Facebook Platform Applications with Rails” by Michael J. Mangino, Pragmatic Programmers, 2008
- Pragmatic Programmers Forum
  - <http://forums.pragprog.com/forums/59>
- Google Group
  - <http://groups.google.com/group/facebooker>
- AllFacebook.com
  - <http://www.allfacebook.com>



# Questions

- **Blog:** <http://www.keenertech.com>
- **Facebook:** <http://www.facebook.com/keenertech>
- **Twitter:** dkeener2010
- **Email:** [dkeener@keenertech.com](mailto:dkeener@keenertech.com)  
[dkeener@metrostarsystems.com](mailto:dkeener@metrostarsystems.com)



## Appendix A: App Creation

As a prerequisite for developing applications for Facebook, you must first register your app...

This appendix shows the various Facebook pages involved in the process

Documentation | Forum | Policy

## Create new applications

Help

[+ Set Up New Application](#)

## Developer

## News

Displaying 1 of 312 stories



## Connecting with f8

Yesterday at 5:00pm  
Published by Julia Lam

276

[Share](#)

Whether you're joining us in person at f8, or will be following the event from afar, we're looking forward to celebrating the developer community with everyone on April 21.

## Preparing for f8, Taking a Look Back

As we get closer to the next f8, we'll begin sharing videos from past conferences on the f8 Page for a look at some of the conversations that took place when Facebook Platform launched, and a year later when the focus was Facebook Connect.

## Bringing f8 to You

With such a large and diverse ecosystem of developers and entrepreneurs around the world, we want to give everyone the opportunity to participate in f8. We'll continue to post the latest content to the f8 Page, including a live stream, updates, and photos on the 21st, so that you can see what's going on at the event, ask questions, and interact with other developers and Facebook employees on the ground.

In addition to the f8 Page and live stream, you can also connect to the event on Twitter at @fbplatform (hashtag: #f8).

For those who missed out on purchasing a ticket on time, the staff at TechCrunch has free tickets they're awarding to five people with the best comments on this article (as judged by TechCrunch). Just let them know why you should attend f8 this year for a chance to win.

## The Countdown Begins!

We're anticipating another great crowd this year. Go to the f8 Page and share what you're most looking forward to discussing and learning at the event.

See you there (or you'll see us) on April 21!

*Julia is moving fast with the rest of the f8 team, getting ready for the big day.*

## List of your apps

[See All](#) | [Subscribe](#)[Share](#)

## My Applications

[See My Applications](#)

<input type="checkbox"/> dkfbone	<a href="#">more</a>
Monthly Active Users	0
Application Fans	0
<input type="checkbox"/> JobCast	<a href="#">more</a>
Monthly Active Users	0
Application Fans	0
<input type="checkbox"/> metrostarconnection	<a href="#">more</a>
Monthly Active Users	0
Application Fans	0
<input type="checkbox"/> PollCast	<a href="#">more</a>
Monthly Active Users	51
Application Fans	28

## Status

[Subscribe](#) | [See All](#)

## IFrame app issues

Apr 7, 2010 12:50pm

Hello, we are aware of issues currently affecting some iFrame apps, and we're working on a solution. You can see updates and... [Read more...](#)

## Multi-friend selector issues resolved

Apr 6, 2010 11:04pm

## Create an Ad

## U2 360° – Rose Bowl



U2 360° At The Rose Bowl features live footage from their historic concert & more. Available June 3rd. Pre-order it here!

[Like](#)

## Recommended Download



Boost PC speed. Microsoft certified. Free download.

[Like](#)

## Want A Killer Good Time?



Play Mafia Wars today and

# Initial App Creation

 **Create Application** [Back to My Applications](#)

**Essential Information**

Application Name

Cannot contain Facebook trademarks or have a name that can be confused with an application built by Facebook.

Terms [Do you agree to the Facebook Terms?](#)

Agree  Disagree

**Create Application**

- <http://www.facebook.com/developers/createapp.php>
- Must fill out a CAPTCHA upon submission

[Back to Developer Home](#) **My Applications**[+ Set Up New Application](#) **airbanking** dkfbone dkfbtwo JobCast keenertech metrostarconnection PollCast Votridea**airbanking****Directory Status: Not Submitted**Once you have completed your application, you may [submit it](#) to the Application Directory.

Monthly Active Users

**0**

People Who Like This

**0**

Total Users

**0**

Application ID

122981967744938

API Key

f0085f2c484f9fd3b7a34e13d6e0995d

Application Secret



Canvas Page

<http://apps.facebook.com/airbanking/>

Canvas URL

<http://web1.tunnlr.com:11225/>

Canvas FBML/iframe

iframe

Contact Email

dkeener@metrostarsystems.com

Support Email

dkeener@metrostarsystems.com

Application Description

Social Banking: Banking for the 21st century

Sample Code

Get started quickly with some example code!

[Edit Settings](#)[Application Profile Page](#)[Insights](#)[Translations](#)[Advertise](#)[Reset Application Secret](#)[Delete Application](#)[Create an Ad](#)**Google & Clickbank  Secret**

Make Min \$ 3,500 a Month with Google & Clickbank Using a Simple System Which I Will Setup For You on a \$4.95 Special Trial

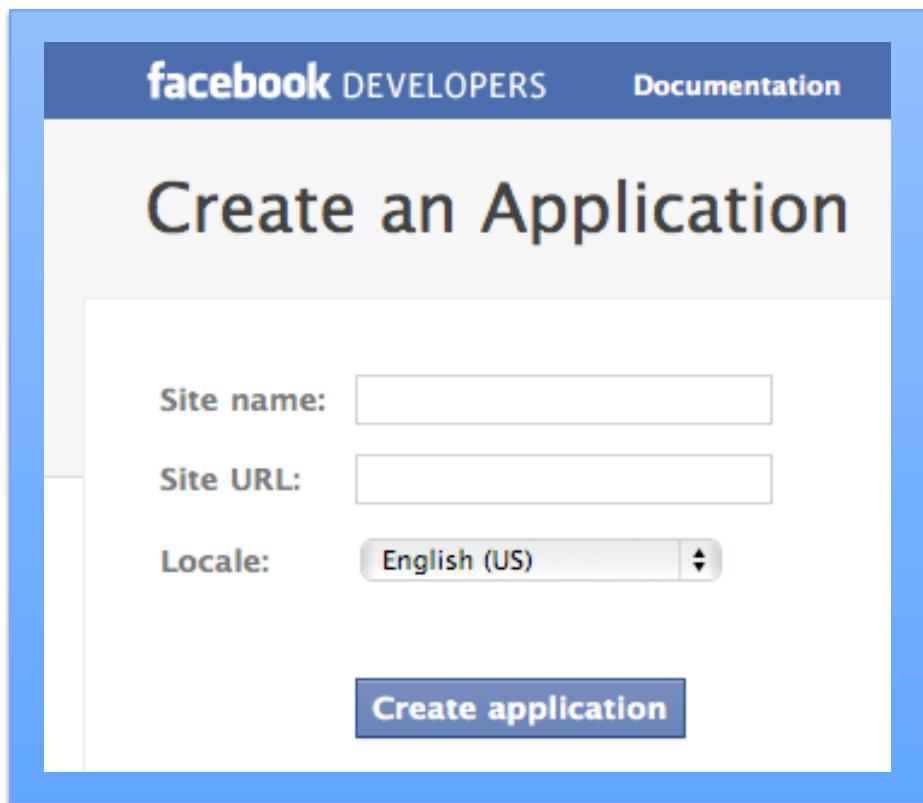
[Like](#)**Comic Book Club  x**

If you like reading comic books and / or collecting comic books this is the place for you. Stop by, say Hello.

[Like](#)**Need Website Traffic?  x**

If you own a website, you need traffic.

# Short-Cut App Creation



- Hard to find...
- Has never worked for me...
- Your mileage may vary...

<http://developers.facebook.com/setup/>



## Appendix B: SSH Tunneling

SSH tunneling is only needed if:

- You are building an app that will run within Facebook's canvas
- You want Facebook to pull the app from your dev environment, e.g. – your laptop

**http://127.0.0.1:3000**

...is not acceptable...

Facebook can't find your laptop...

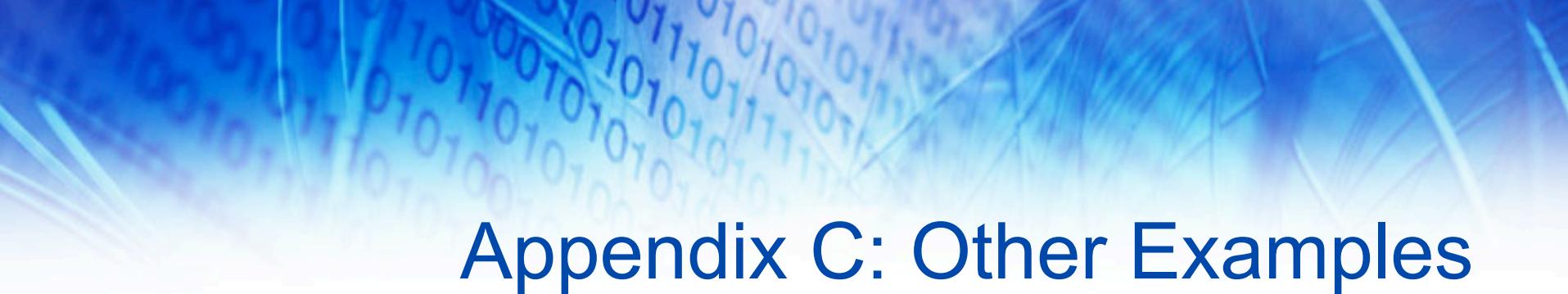


# One Simple Access Method

- Set up ssh access to a host on the Net
- On host, sshd\_config file needs:  
GatewayPorts = clientspecified
- Run the following command on a UNIX flavor dev machine (like your laptop):

```
$ ssh keenertech.com -R  
:3001:127.0.0.1:3000 sleep 99999
```

Forwards host's port 3001 to 3000 on laptop



## Appendix C: Other Examples

Some other code examples:

- Example 4: Social Plugins (Like Button)
- Example 5: Metadata
- Example 6: Canvas App



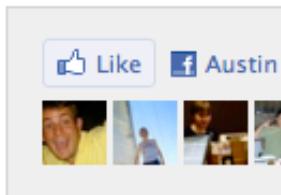
## Example 4: Social Plugins



## Social Plugins

- Leverages Facebook's JavaScript SDK
- Can easily add social plugins to web sites
- Enables rapid “shallow integration”
- Eight type of social plugins available
- Each widget supports customization options
- Customization is still limited, though

# Available Social Plugins



## Like Button

The Like button lets users share pages from your site back to their Facebook profile with one click.



## Activity Feed

The Activity Feed plugin shows users what their friends are doing on your site through likes and comments.



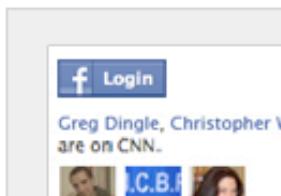
## Recommendations

The Recommendations plugin gives users personalized suggestions for pages on your site they might like.



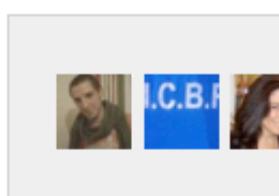
## Like Box

The Like Box enables users to like your Facebook Page and view its stream directly from your website.



## Login Button

The Login Button shows profile pictures of the user's friends who have already signed up for your site in addition to a login button.



## Facepile

The Facepile plugin shows the Facebook profile pictures of the user's friends who have already signed up for your site.



## Comments

The Comments plugin lets users comment on any piece of content on your site.



## Live Stream

The Live Stream plugin lets your users share activity and comments in real-time as they interact during a live event.



## Adding a Like Button

- “Like” will cause the web page to be promoted on the user’s News Feed...and will also appear for their friends
- The number of people who “Like” an item impacts how often the item will be shown on Facebook news feeds
- Facebook will retrieve info about the page

# Blog Entry, With “Like” Button

# KEEENERTECH

INTERNET TECHNOLOGIES MADE SIMPLE

Home

Our First RubyNation Video is Live

dkeenner on May 21, 2010

Our first RubyNation video is now live. It features Jim Wierich and his well received "SOLID Ruby" talk. It's been a lot of work getting the RubyNation video production effort off the ground, so it's nice to finally see our first polished video (only 28 more conference sessions to go).

Jim Weirich  
SOLID Ruby  
rubynation  
april 9/10, reston, va  
2010

40:04

blip.tv

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3D virtual meetings  
In your browser  
In under a minute

# Social Plugin Requirements

Need to have the following code...

```
<div id="fb-root"></div>
<script>
  window.fbAsyncInit = function() {
    FB.init({appId: '106529556064124', status: true, cookie: true,
      xfbml: true});
  };
  (function() {
    var e = document.createElement('script'); e.async = true;
    e.src = document.location.protocol +
      '//connect.facebook.net/en_US/all.js';
    document.getElementById('fb-root').appendChild(e);
 })();
</script>
```



# Using a Partial...

```
<%= render(:partial => 'shared/facebook_like_button', :locals =>  
 { :href => "#{SITE_URL}#{request.request_uri}" }) %>
```

- This is part of “show.html.erb” for content pages on the KeenerTech blog
- Partials help keep social plugin code modular



# Like Button – Embed Code

```
<iframe  
src="http://www.facebook.com/plugins/like.php?href=  
  <%= CGI::escape(href)%>  
  &layout=standard&&show_faces=false&&width=450  
  &action=like&&colorscheme=light&&height=35"  
scrolling="no" frameborder="0"  
style="border:none; overflow:hidden; width:450px; height:35px;"  
allowTransparency="true">  
</iframe>
```

- /shared/\_facebook\_like\_button.html.erb



## Example 5: Metadata

# Metadata for Facebook (1)

```
<html xmlns:og="http://opengraphprotocol.org/schema/"  
      xmlns:fb="http://www.facebook.com/2008/fbml">  
<head>  
<meta property="og:description" content="Description"/>  
    - See http://developers.facebook.com/docs/opengraph#types  
<meta property="og:image" content="/images/ctnt/123/rn.jpg"/>  
    - Images should be square and at least 50x50 pixels
```

## Metadata for Facebook (2)

```
<meta property="og:url" content="http://.../your_page/">
    - Permalink for the article; used by Facebook
<meta property="og:site_name" content="KeenerTech"/>
    - Official name of your website
<meta property="fb:app_id" content=" 106529556064124">
    - The app ID (or use fb:admins with comma-delimited
      list of Facebook ID's for the admins)
```

...



# Example 6: Canvas App

Prerequisite - Appendix B: SSH Tunneling



# Facebook Application

- Entire app functions within the “canvas,”  
i.e.- within the Facebook context
- Two sub-types:
  - Canvas: Deprecated.
  - Iframe: External app functions within an iframe
- Many games use iframes with an embedded Flash app
- Mostly the same as external apps...now



## What Is the Canvas?

The canvas is the area within the Facebook web site that your application can control.

- As a “Canvas” app, or...
- An external app running in an iframe

It looks like this...

## DKFBONE Home

This is a test.

This is the Canvas

Create an Ad

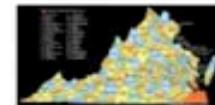
VA Fathers Only: Get \$10k



Married Dad's Over 45 in Virginia: Get a \$10K scholarship you can use to pay bills, pay debt, or further your education!

Like

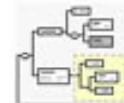
VA Laws Passed Jan. 11



New laws allow VA residents with high amounts of CC debt to legally remove 60%.

Like

XML Editor: Free Trial



Model, edit, transform & debug XML-related technologies. Fully functional 30-day free trial!

Like

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# How Facebook Canvas Apps Work

