INTRODUCTIONS

- Web Framework Usage
- Framework Developer?
- Mobile Developer?
- What would you like to see in future web frameworks?
Who is Matt Raible?

Blogger on raibledesigns.com

Father, Skier, Cyclist

Web Framework Connoisseur

Founder of AppFuse

Montana Native
SESSION AGENDA

- How did we get here?
- Where are we going?
- How do we get there?
- 2011++
- Conclusion
- Q and A
HISTORY OF WEB FRAMEWORKS

- Deep History (CGI, etc.)
- Java's Rise
- PHP
- AJAX
- Rails -> Grails
- RESTify!
- SOFEA, APIs, etc.
HISTORY OF WEB FRAMEWORKS

- **PHP 1.0** (1995)
- **IE 4** (1996)
- **Netscape 4**
- **WebObjects 1.0** (1996)
- **Zope 2** (1999)
- **ASP 1.0** (1999)
HISTORY OF WEB FRAMEWORKS

- Tomcat 3.0.x (initial release)
- Servlet 2.2
- Struts 1.0
- IE 6.0
- Opera 4.0
- Servlet 2.3
- ASP 3.0

Timeline:
- 1999
- 2000
- 2001
- 2002
- 2003
- 2004
- 2005
- 2006
- 2007
- 2008
- 2009
- 2010
- 2011
- 2012

- Servlet 2.2 becomes part of J2EE 1.2 (JDK 1.2)
HISTORY OF WEB FRAMEWORKS

- ASP 3.0
- Tomcat 3.0.x (initial release)
- Servlet 2.2
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- Struts 1.0
- WebWork 1.0
- IE 6.0
- Opera 4.0
- Servlet 2.4
- Tapestry 2.1
- ASP.NET 1.0
- Servlet 2.3

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MVC VS. COMPONENTS

Struts  
Spring 2.5  
Stripes  
Wicket  
Tapestry  
Rails  
Grails
WHAT ARE COMPONENTS?

![Fx](image1.png)
![dojo toolkit](image2.png)
![jQuery](image3.png)
![Ext JS](image4.png)
![YUI Library](image5.png)
REST API

Resource

GET
PUT
POST
DELETE

/orders
GET - list all orders
PUT - unused
POST - add a new order
DELETE - unused

/orders/(id)
GET - get order details
PUT - update order
POST - add item
DELETE - cancel order

/customers
GET - list all customers
PUT - unused
POST - add new customer
DELETE - unused

/customers/(id)
GET - get customer details
PUT - update customer
POST - unused
DELETE - delete customer

/customers/(id)/orders
GET - get all orders for customer
PUT - unused
POST - add order
DELETE - cancel all customer orders
CLUSTERING TO CACHING
NOSQL

CouchDB

Project Voldemort
A distributed database.

Cassandra

Neo4j
the graph database
IT’S BEEN PRETTY DAMN AWESOME, EH?
THE FUTURE

What’s around the bend?
MOBILE

iPhone
Android
Palm Pre
BROWSERS

Firefox
Safari
Chrome
HTML5

Will it eliminate the need for plugins?
SPEED

Client Optimizations
Bandwidth
COMPILERS

GWT
Closure Tools
Cappuccino
HipHop for PHP
DESKTOP WEBAPPS

Adobe Air
Titanium
IPAD

Kids
Books
Video
Internet
Email
VIDEO

Web Browsers on TVs
TV on Laptops
TV on Phones
APP STORES

Facebook
LinkedIn
Google App Marketplace
IS THIS THE FUTURE?

... or the present?
Java
IDES

IntelliJ IDEA 9
The Most Intelligent Java IDE

NetBeans IDE 6.8
Get Tomorrow Today.

Video: Get Tomorrow Today with NetBeans 6.8

eclipse
HTML5 is being developed as the next major revision of HTML. This code can now be used for new functions that can benefit developers and Internet users.

HTML5 introduces a number of new elements and attributes. Here are the most important of them:

1. **Canvas element**: The `canvas` element can be used for rendering graphs, game graphics or other visual images on the fly. All done without having to rely on plug-ins. The possibilities are endless.

2. **Video element**: Embedding video used to be impossible without third-party plugins such as Apple QuickTime® or Adobe Flash®. Thanks to video element now it's possible. It is intended by its creators to become the new standard way to show video online.

3. **Geolocation**: Sniffing a users' location is not a new thing on the web. In fact, most websites already do this by means of IP address detection. But this is not always reliable, so HTML5's geolocation is an alternate method of correctly pinpointing a users' location. The new idea is to get the location information from WiFi towers and GPS.

4. **Offline web applications**: The offline web applications enable users to continue interacting with web applications and documents even when their network connection is unavailable. The user can, for instance, access email locally without having to connect to the Internet or install an external client.

How does this matter to you? You will notice that daily web activities such as uploading YouTube videos to your blog and finding a specific store in your browser on your smartphone will become easier. This means you can have a rich experience on a light, portable, universal platform.
JS ON MOBILE IS SLOW

Thursday, May 6th, 2010

iPad JavaScript Shockingly Slow?

Category: JavaScript, Mobile, Performance

Douglas "My Guns Are Bigger Than Yours" Crockford sent us a pointer to Moonwatcher’s post on entitled "My MacBook Pro runs JavaScript 26.7x as fast as my iPad".

http://ajaxian.com/archives/ipad-javascript-shockingly-slow
Making an iPad HTML5 App & making it really fast

June 4th, 2010 by Thomas Fuchs, 16 comments »

About a month ago or so, Amy and I release a little (literally, it’s about 5k) HTML5 iPad App for looking up time zones. I don’t mean select-box wasteland like all other time zone sites (who likes select boxes anyway?!) - I mean a nicely polished, touch-enabled UI that works offline, too.

The site uses no images (‘cept for the ad), no JavaScript frameworks, and no external CSS, and fits quite comfortably in a few k’s of gzipped HTML.

First visit the site on your iPad (desktop browsers work, too!), and play around with it a bit.

http://mir.aculo.us/2010/06/04/making-an-ipad-html5-app-making-it-really-fast/
i**Phone SDK 4 GM seed**

With a rich set of over 1500 new APIs, iPhone SDK for iOS 4 provides you with an amazing range of technologies to enhance the functionality of your iPhone and iPod touch apps. iPhone Developer Program members can visit the iPhone Dev Center to download the iPhone SDK 4 GM seed now.

[Get Started](#)  

iPhone SDK 4 GM seed is available for download to members of the iPhone Developer Program. Not a member?  
[Learn more](#)

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**Get Android 2.2!**

The Android 2.2 platform is now available for the Android SDK, along with new tools, documentation, and a new NDK. For information about new features and APIs, read the version notes.

If you have an existing SDK, add Android 2.2 as an SDK component. If you're new to Android, install the [SDK starter package](#).
FUTURE FRAMEWORKS

- The survivors will...
  - Take site speed seriously
  - Support plugins
  - Build on past success
  - Will be both conservative and edgy
  - Encourage new thinking
  - Support mobile, touch screen and desktop
IE 6 dies (hopefully!)

HTML5 will have issues

Ajax Frameworks will continue to innovate

Interest in server-side frameworks will continue, but innovation will slow

Desktop, Mobile and TV will be done with web technologies
HOW DO WE GET THERE?

It’s all about the APIs.

A good API allows for any client Web skills transfer to the desktop - and phones!

Speed will continue to be *very* important

It’s all about the Apps.

Build Them.
MOST IMPORTANTLY

- Hire Smart People
- Effective Communicators
- Finishers
- Let them code
- Eliminate Meetings
- Put them face-to-face and keep it small
CONCLUSION
Web Frameworks can help you build the future. Hire good people. Let them build.
HOT FRAMEWORKS*

Server
- Ruby on Rails
- Grails
- Spring 3 + JRebel
- Spring Roo

Client
- GWT
- Flex
- jQuery

* From a Java Developer’s Perspective
QUESTIONS?

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