Yahoo! vs. Yahoo!: Case Studies

Web Builder 2.0 Las Vegas

Nate Koechley
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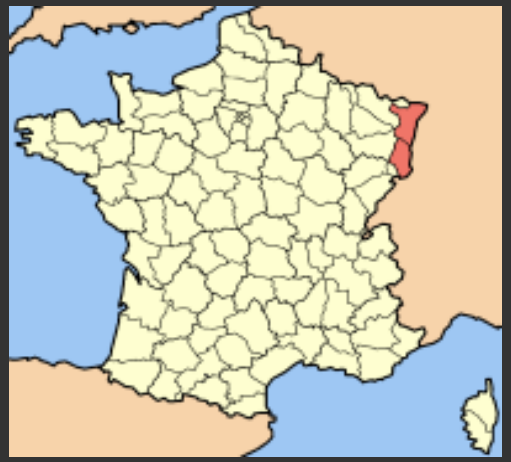
Yahoo! User Interface (YUI) Library Team
Platform Engineering Group
Yahoo! Inc.

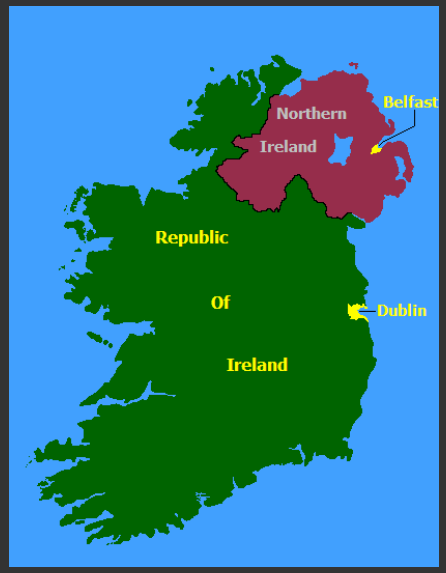
Slides
http://nate.koechley.com/talks/2006/12/webbuilder/

Contact
http://yuiblog.com
natek@yahoo-inc.com
http://developer.yahoo.com/yui

WEBBuilder2.0

Koechley is pronounced “Kek’lee”





WEBBuilder2.0

Nate Koechley – natek@yahoo-inc.com

My Perspective

- Charter member of Web Development team at Yahoo!
- In the trenches and in management
- Currently:
  - Yahoo! User Interface (YUI) Library team
  - Senior Front-End Engineer, Technical Evangelist, Design Liaison, YUIBlog Editor
  - Responsible for Yahoo! Browser Support specs
- Strategy and Direction

Nate Koechley – natek@yahoo-inc.com

YUI: The Yahoo! User Interface Library

YAHOO! DEVELOPER NETWORK

Yahoo! UI Library (YUI)

- **Get Started**
  - Home
  - About Us
  - Developer Network Blog
  - Frequently Asked Questions
  - Support Communities
  - Working Examples
- **Developer Central**
  - Browser Based Auth
  - Design Pattern Library
  - JavaScript Developer Center
  - Flash Developer Center
  - .NET Developer Center
  - PHP Developer Center
  - Python Developer Center
  - Ruby Developer Center
  - Search SDK
  - Security Best Practices

Yahoo! User Interface Library

The Yahoo! User Interface (YUI) Library is a set of utilities and controls, written in JavaScript, for building richly interactive web applications using techniques such as DOM scripting, DHTML and AJAX. The YUI Library also includes several core CSS resources. All components in the YUI Library have been released as open source under a BSD license and are free for all uses. Download the entire library, its documentation and examples from Sourceforge.

The library's developers blog at the YUI Blog and the YUI Library community exchanges ideas at ydn-javaScript on Yahoo! Groups.

On This Page:

- Getting Started
- Licensing
- Download
- Components
- Design Patterns
- Articles
- Cheat Sheets
- Support & Community

YUI Library Utilities:

- The YAHOO Global Object
- Event Utility
- DOM Collection
- Connection Manager
- Drag and Drop Utility
- Animation Utility

YUI Library CSS Tools:

- CSS Page Grids
- CSS Fonts
- CSS Reset

YUI Library Controls:

- AutoComplete
- Calendar
- Container (including Module, Overlay, Panel, Tooltip, Dialog, SimpleDialog)
- Logger
- Menu
- Slider
- TreeView

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YUI: The Yahoo! User Interface Library

Drag and Drop

Drag and Drop > YAHOO.util.DDProxy

- Tree View
- Element Index

Classes

YAHOO.util
YAHOO.util.DD
YAHOO.util.DDProxy
YAHOO.util.DDTarget
YAHOO.util.DragDrop
YAHOO.util.DragDropMgr

Files

DD.js
DDProxy.js
DDTarget.js
DragDrop.js
DragDropMgr.js

Class YAHOO.util.DDProxy

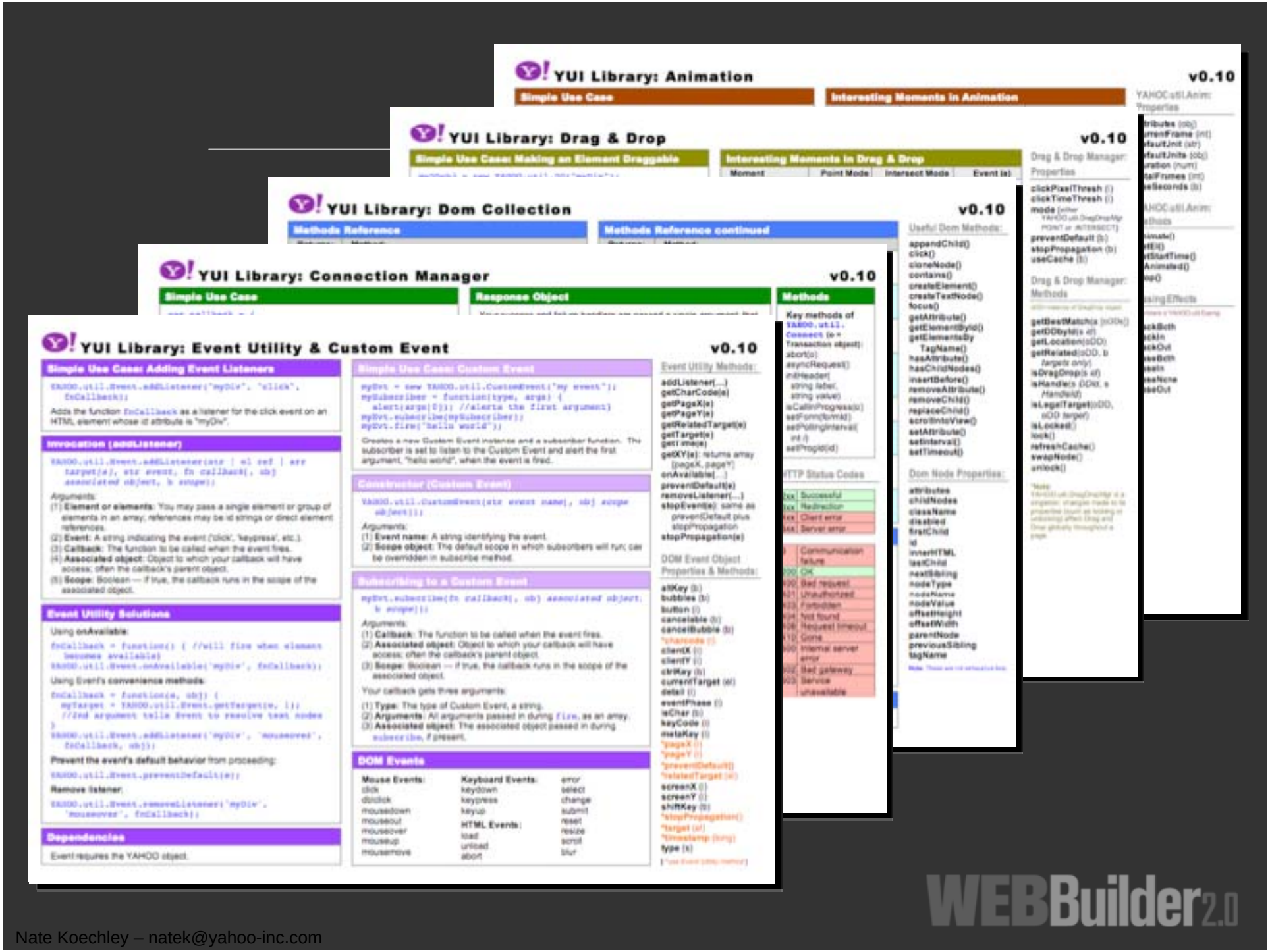
```
Object
   |
   +--YAHOO.util.DragDrop
         |
         +--YAHOO.util.DD
               |
               +--YAHOO.util.DDProxy
```

class **YAHOO.util.DDProxy**
extends YAHOO.util.DD

Quick Links: Field Summary | Constructor Summary | Method Summary | Method Details

Field Summary [top]

boolean	centerFrame By default the frame is positioned exactly where the drag element is, so we use the cursor offset provided by YAHOO.util.DD.
boolean	resizeFrame By default we resize the drag frame to be the same size as the element we want to drag (this is to get the frame effect).
String	dragElId The default drag frame div id



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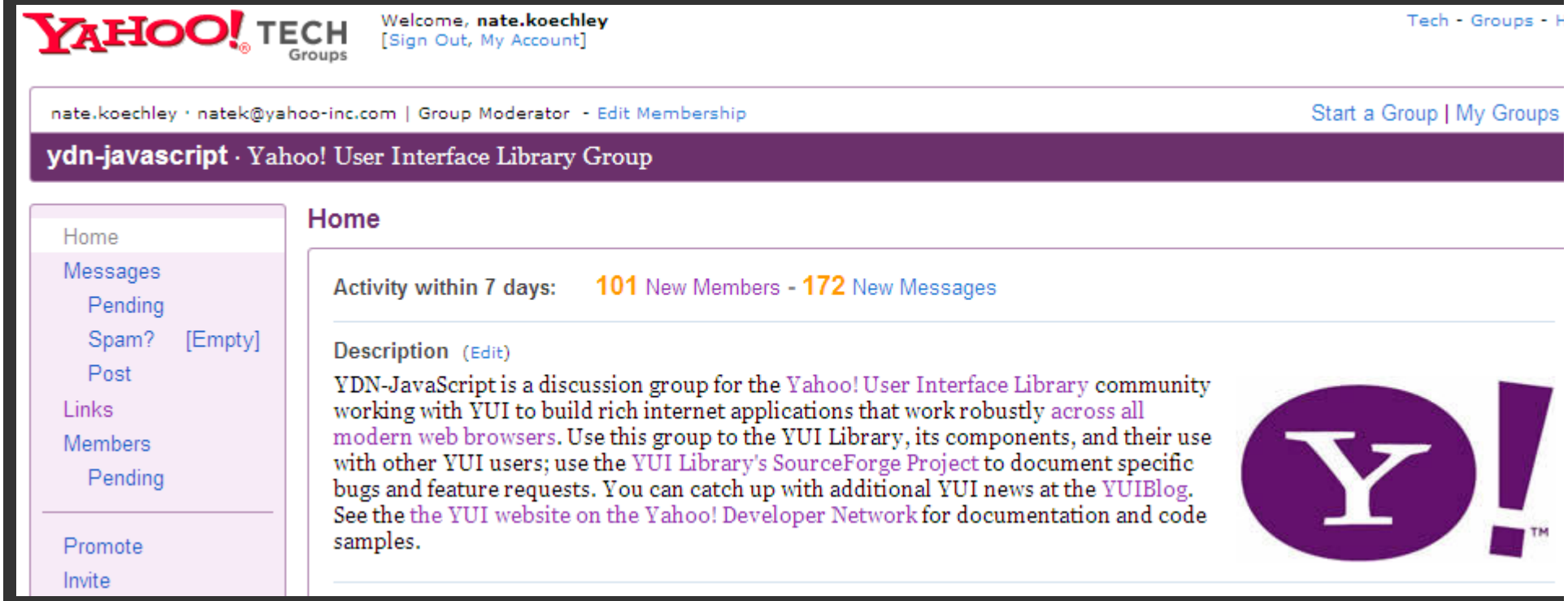
YUI: The Yahoo! User Interface Library



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YUI: The Yahoo! User Interface Library

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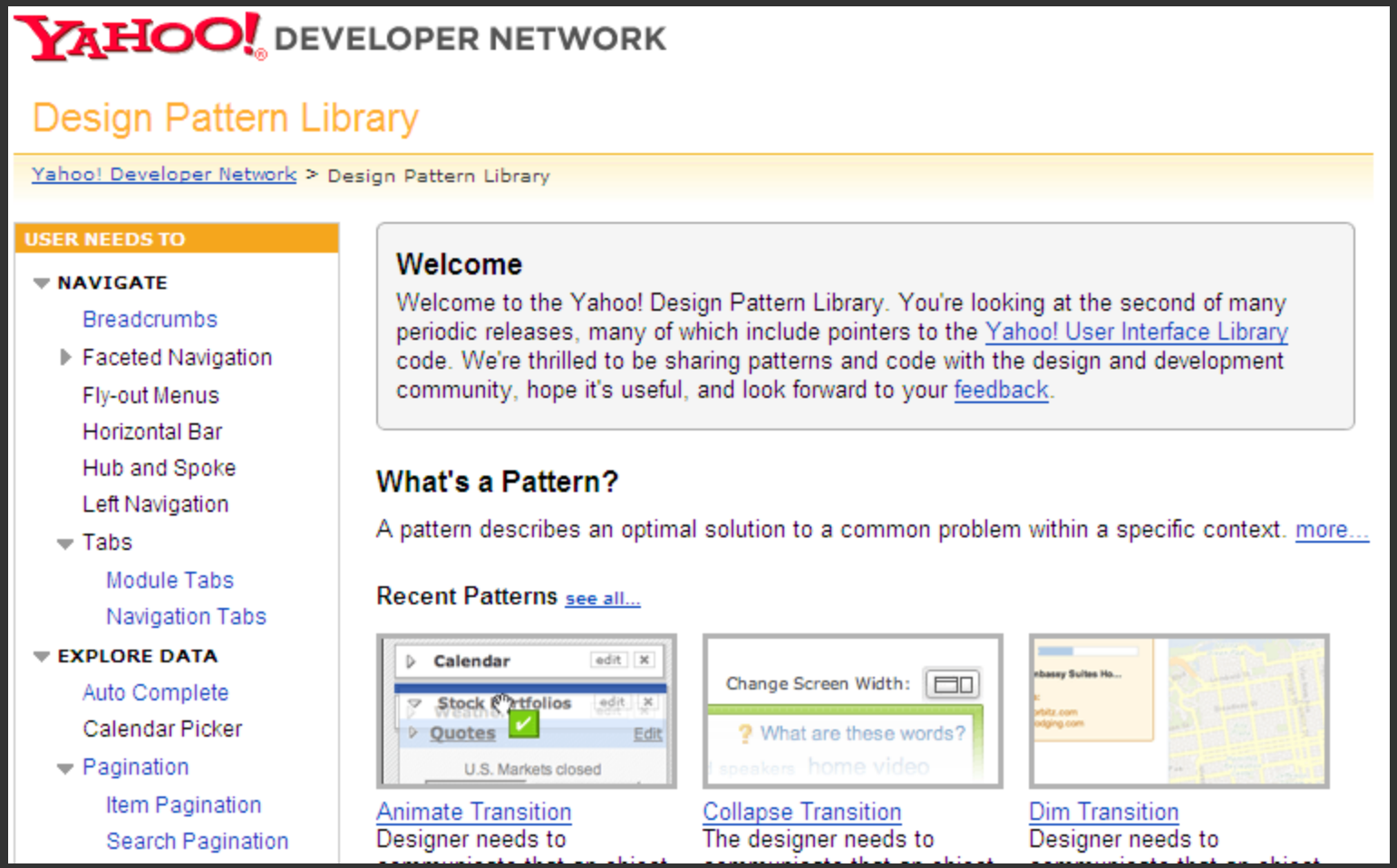
YUI: The Yahoo! User Interface Library



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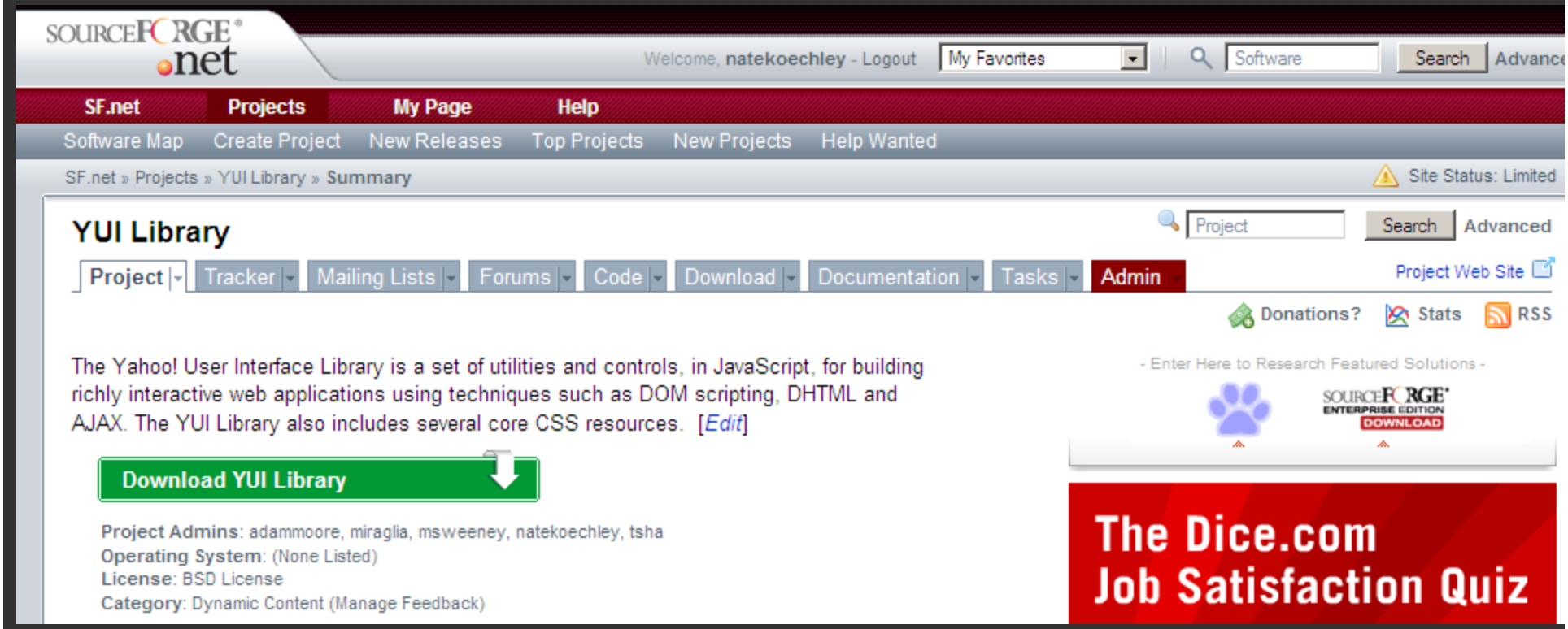
YUI: The Yahoo! User Interface Library



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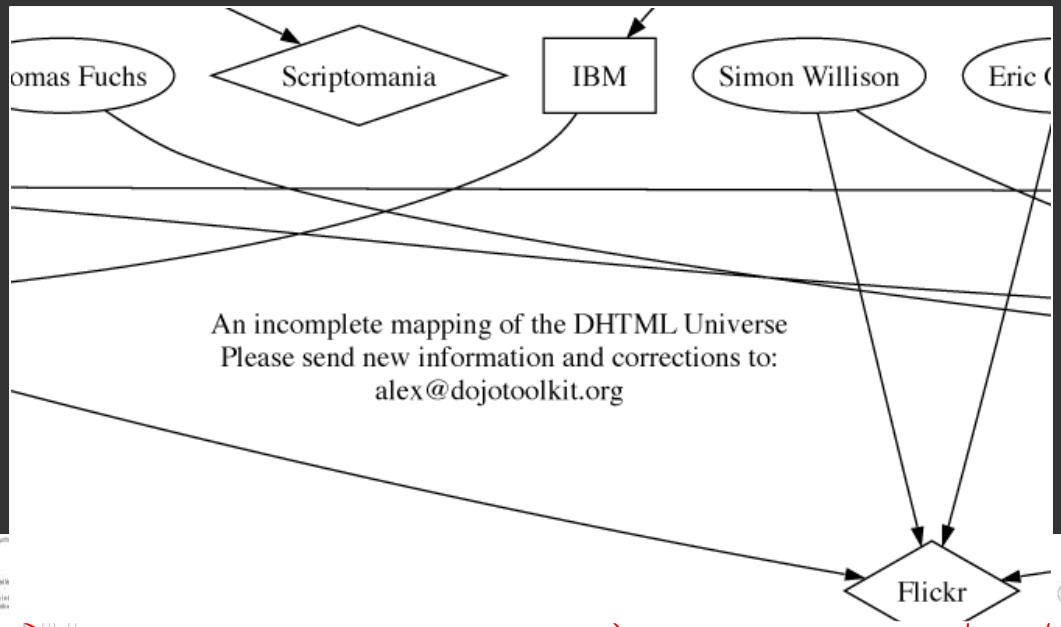
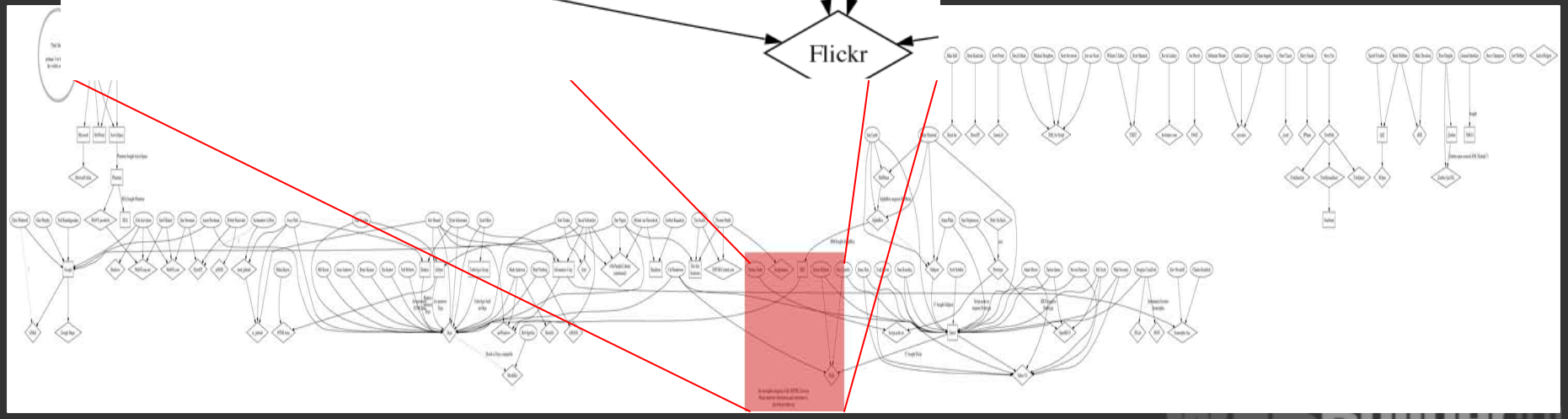
The DHTML Universe

by Dojo's Alex Russell (work in progress)



http://alex.dojotoolkit.org/DHTML_universe.pdf



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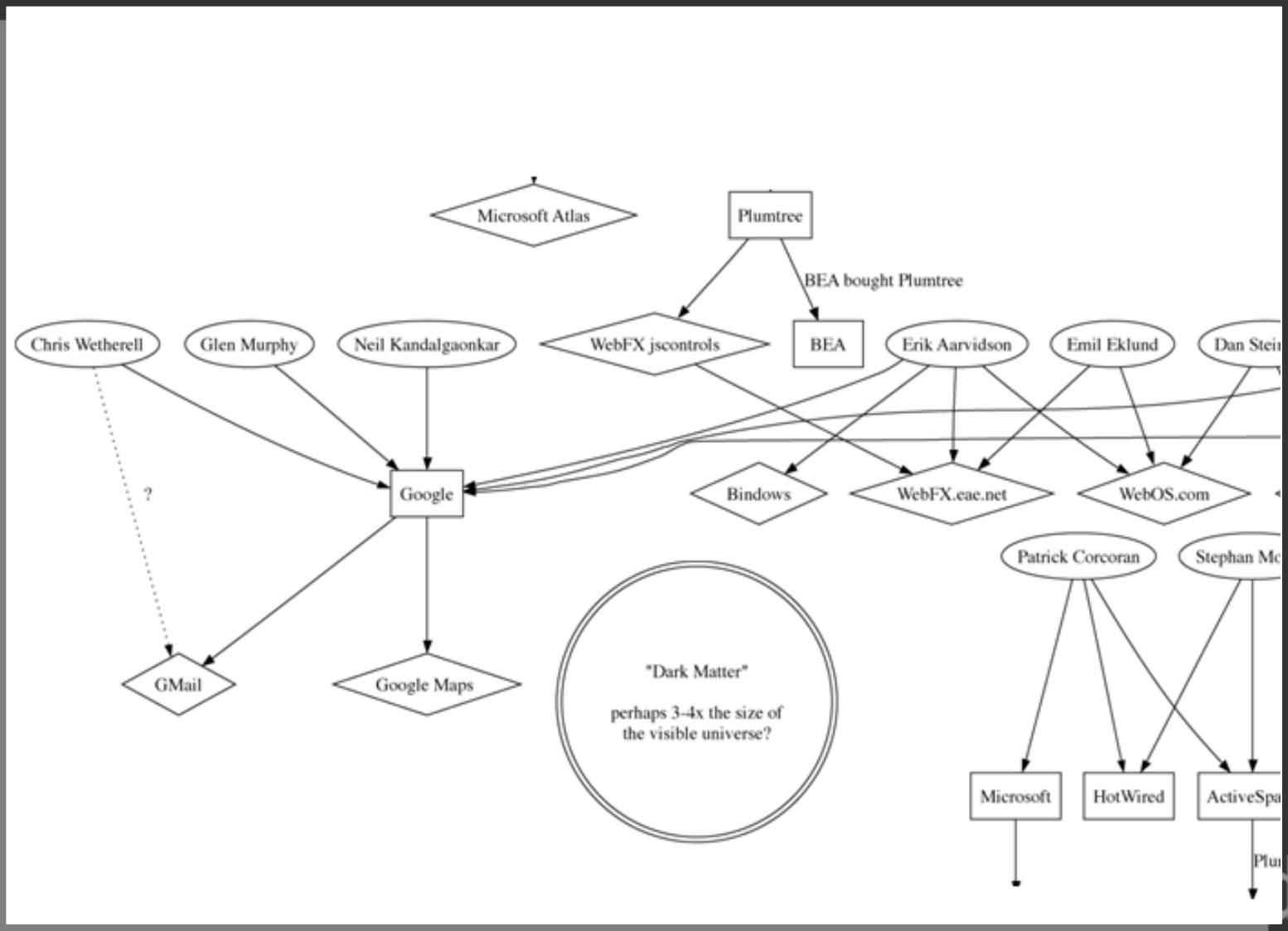
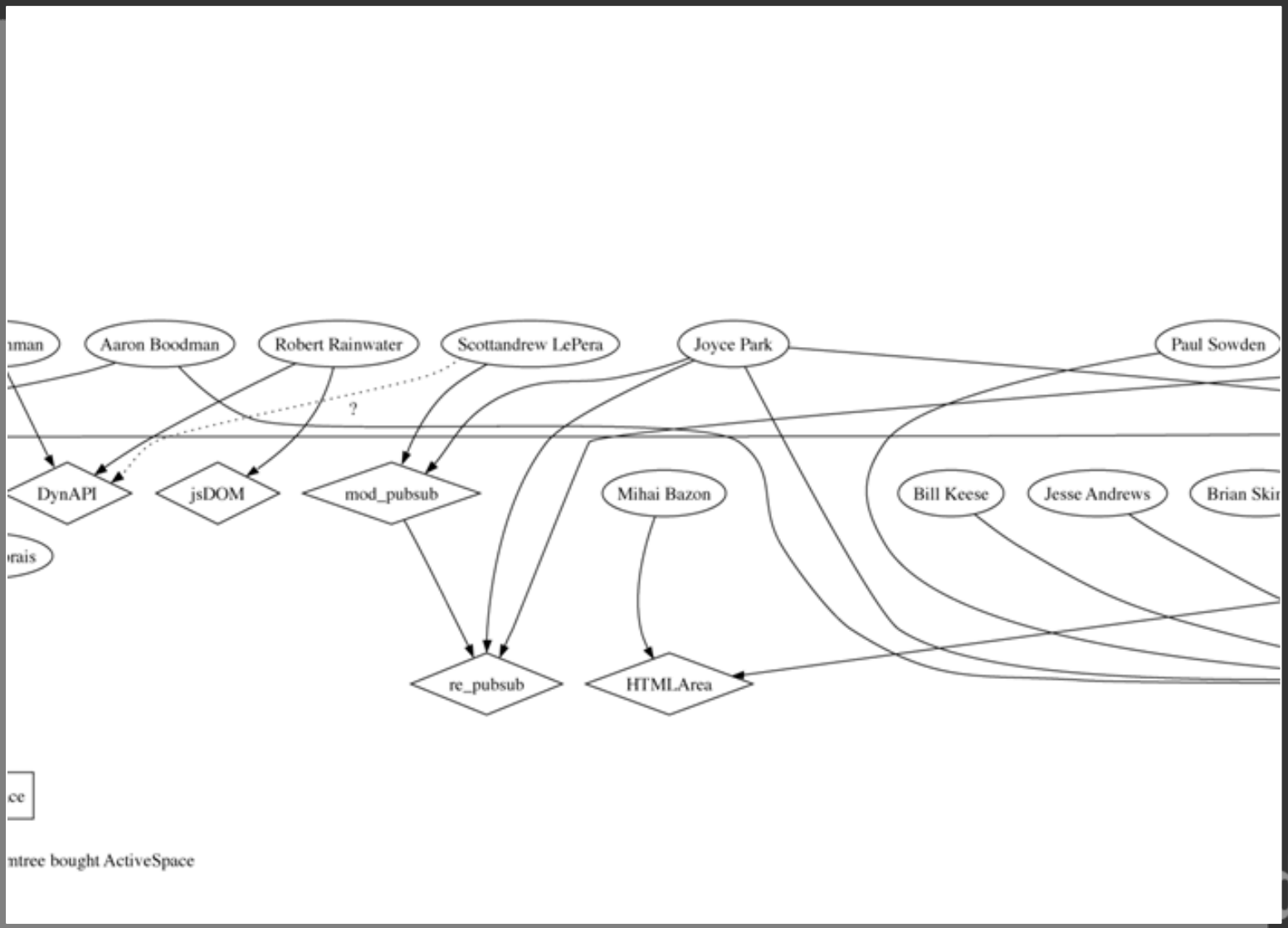
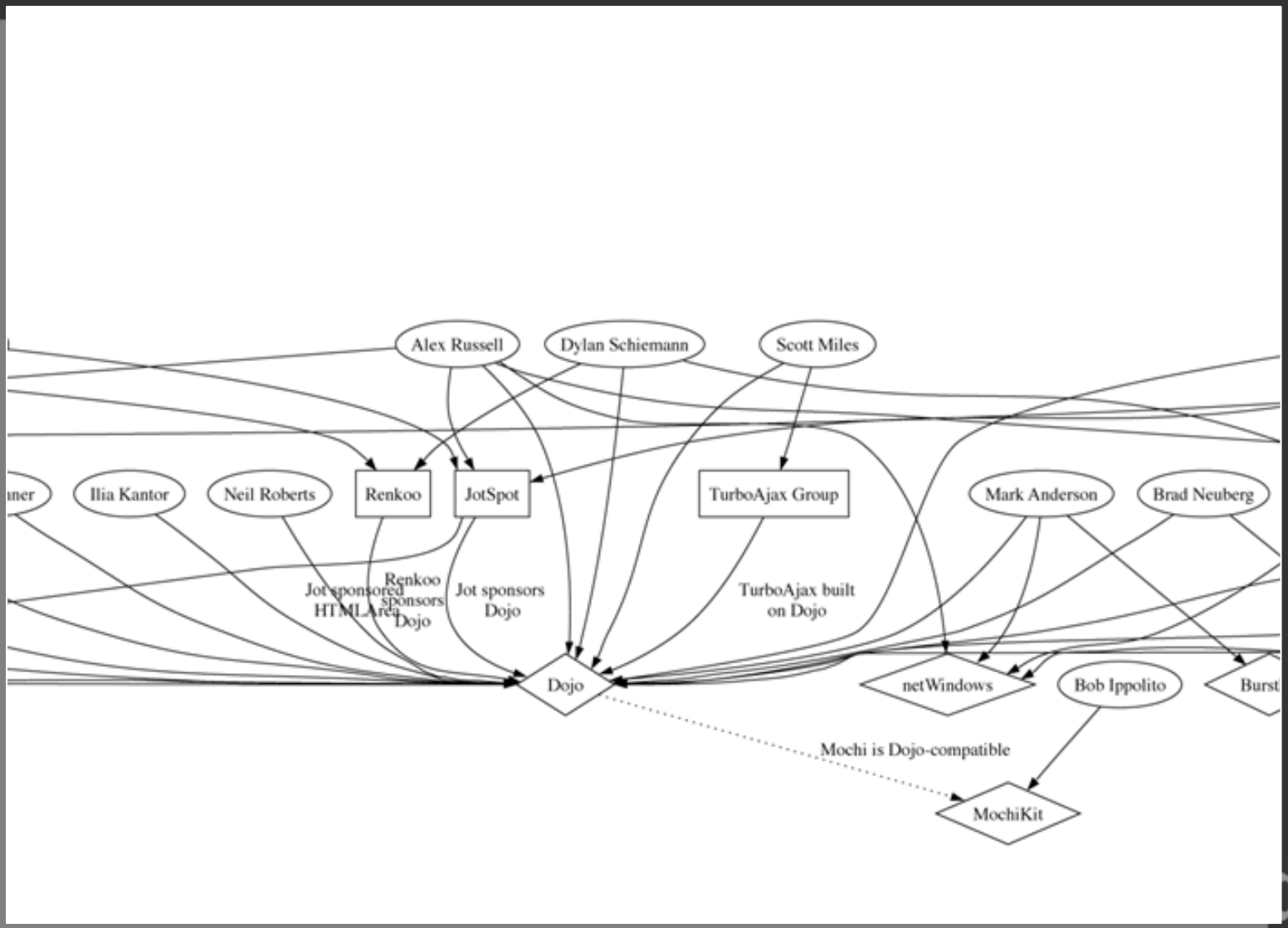

Microsoft Atlas
Plumtree
BEA bought Plumtree
Chris Wetherell
Glen Murphy
Neil Kandalgaonkar
WebFX jscontrols
BEA
Erik Aarvidson
Emil Eklund
Dan Stei
?
Google
Bindows
WebFX.eae.net
WebOS.com
Patrick Corcoran
Stephan Mc
GMail
Google Maps
"Dark Matter"
perhaps 3-4x the size of
the visible universe?
Microsoft
HotWired
ActiveSpa
Plu

12345678


Aaron Boodman
Robert Rainwater
Scottandrew LePera
Joyce Park
Paul Sowden
?
DynAPI
jsDOM
mod_pubsub
Mihai Bazon
Bill Keese
Jesse Andrews
re_pubsub
HTMLArea
ntree bought ActiveSpace


Alex Russell
Dylan Schiemann
Scott Miles
Ilia Kantor
Neil Roberts
Renkoo
JotSpot
TurboAjax Group
Mark Anderson
Brad Neuberg
Jot sponsored HTMLArea
Renkoo sponsors Dojo
Jot sponsors Dojo
TurboAjax built on Dojo
Dojo
netWindows
Bob Ippolito
Mochi is Dojo-compatible
MochiKit

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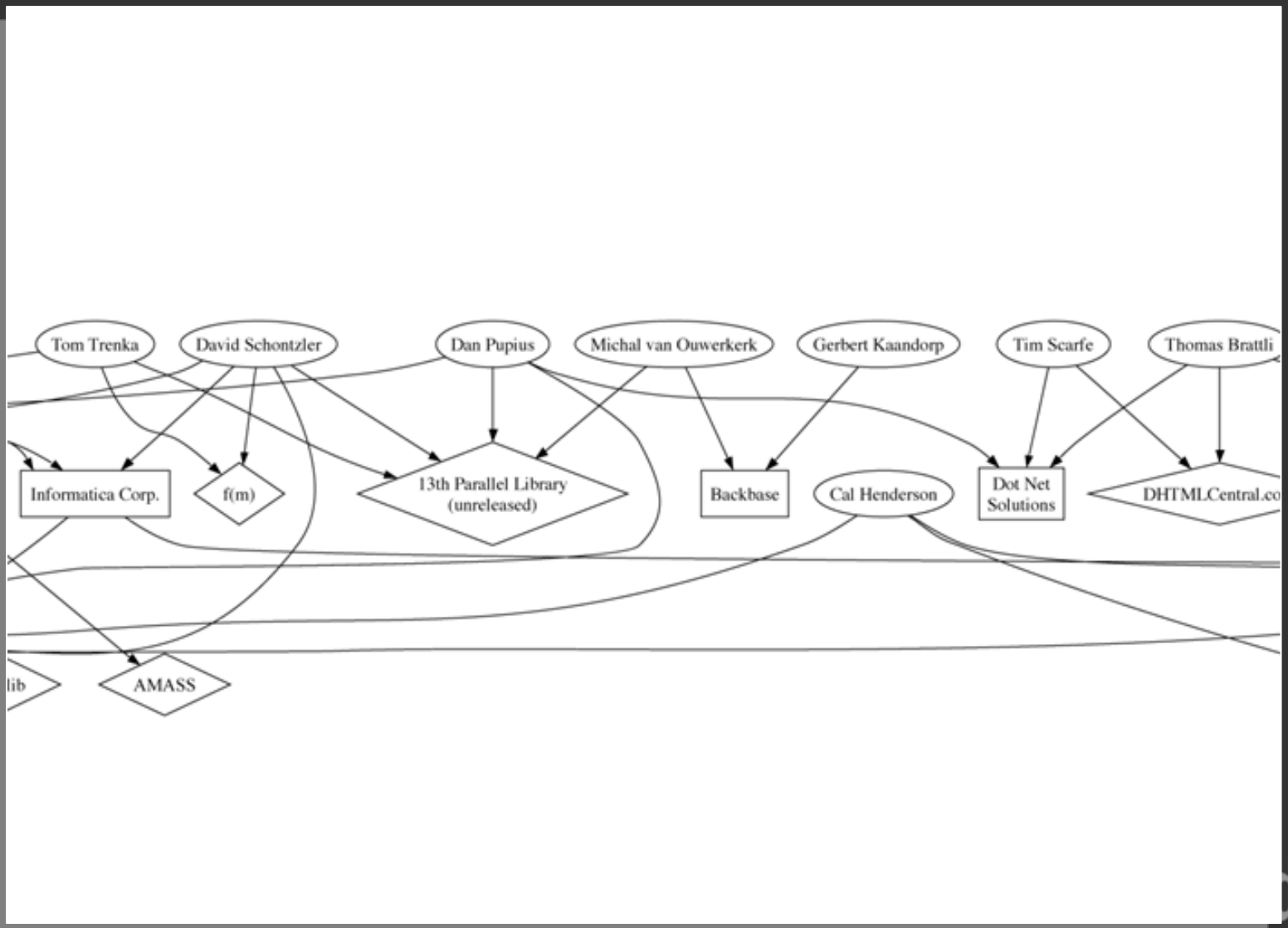
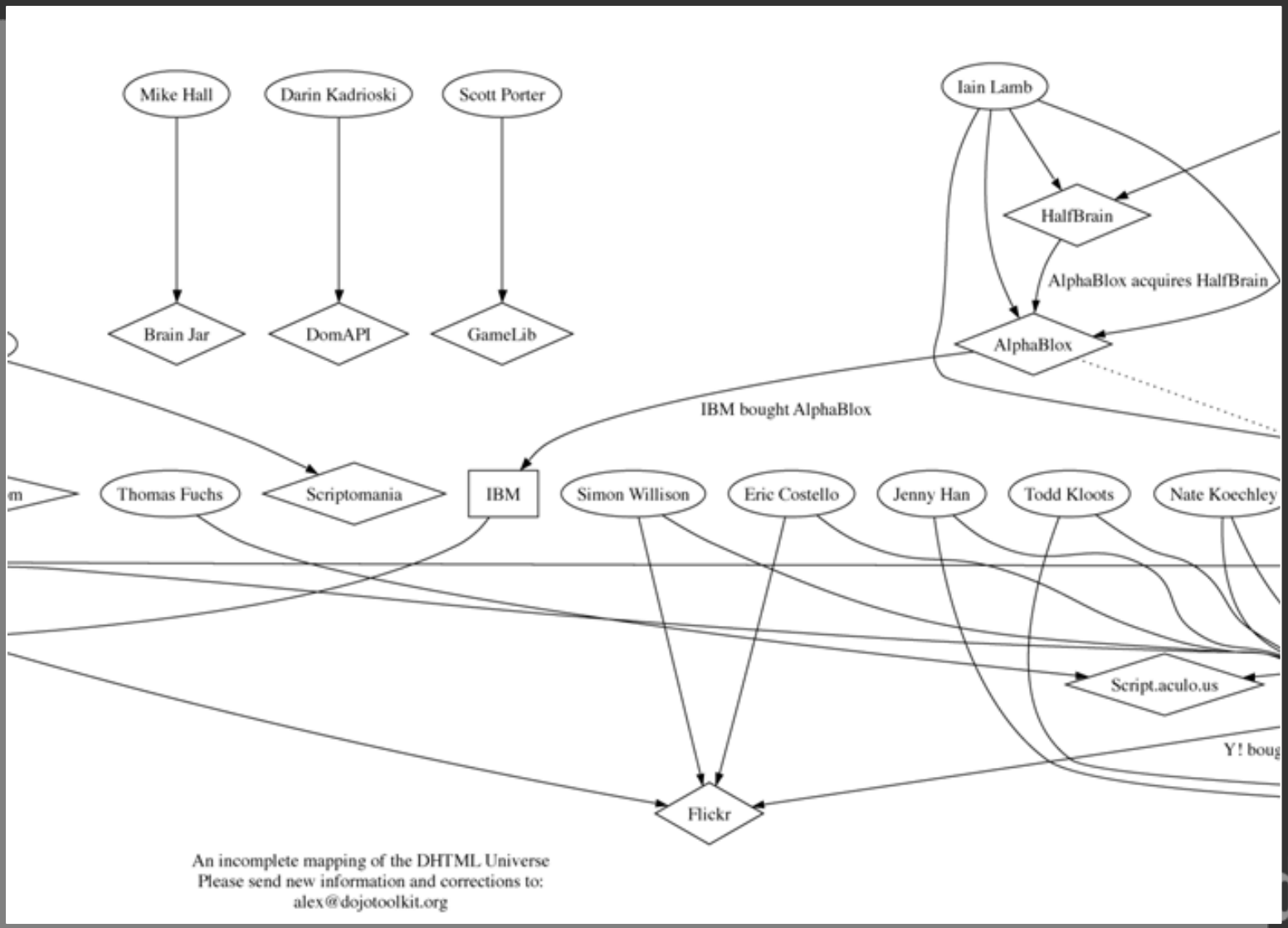
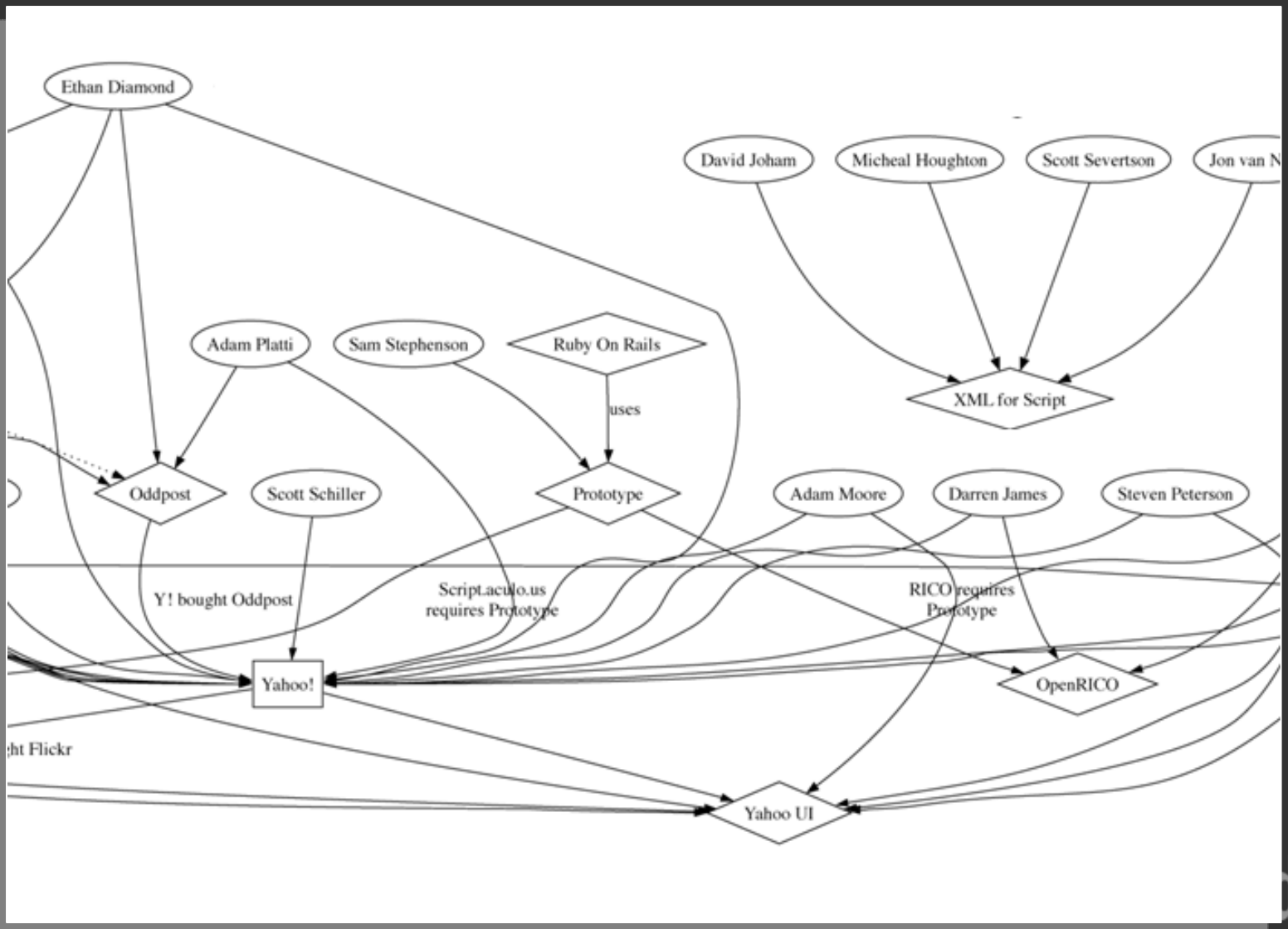
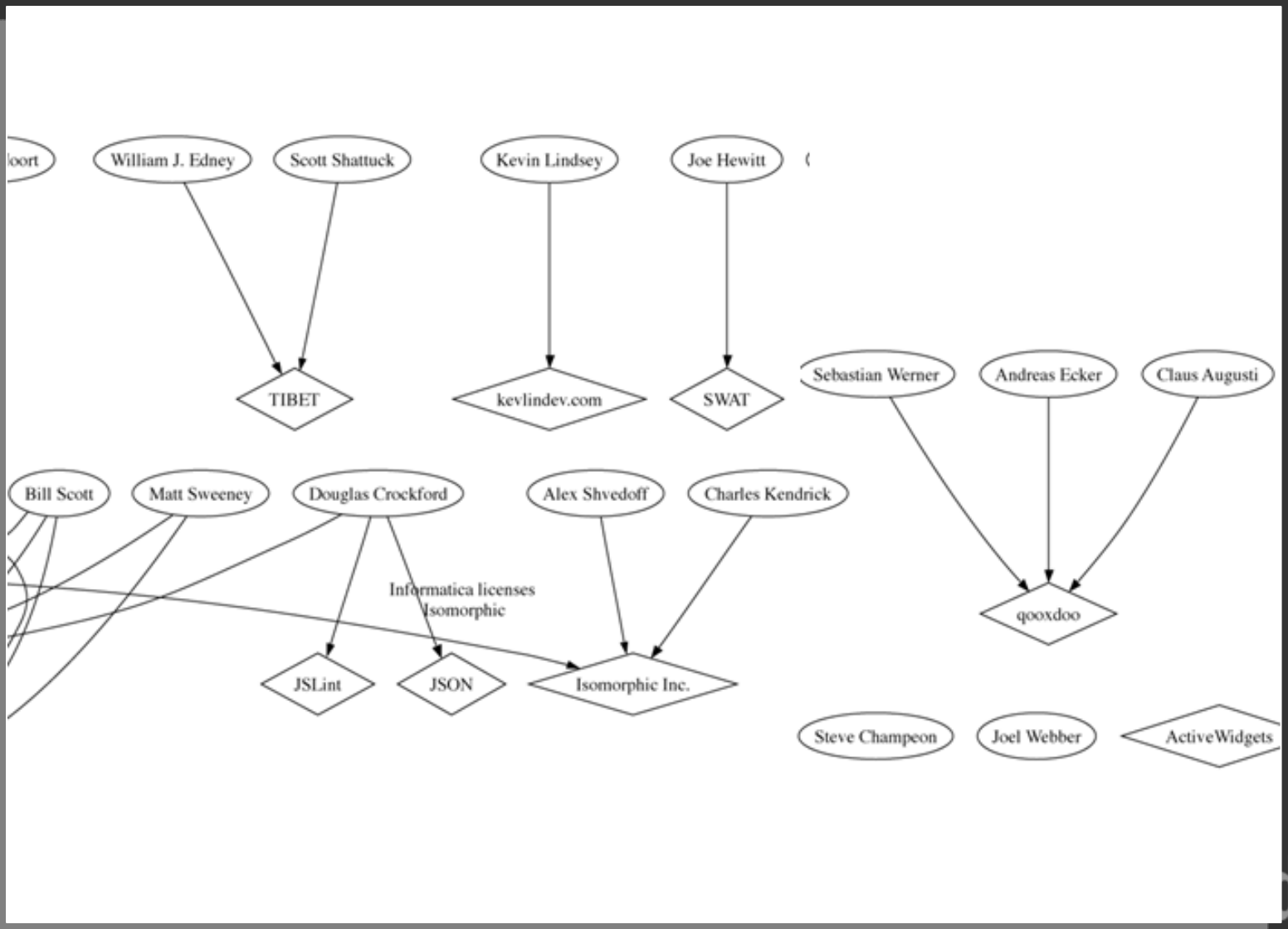
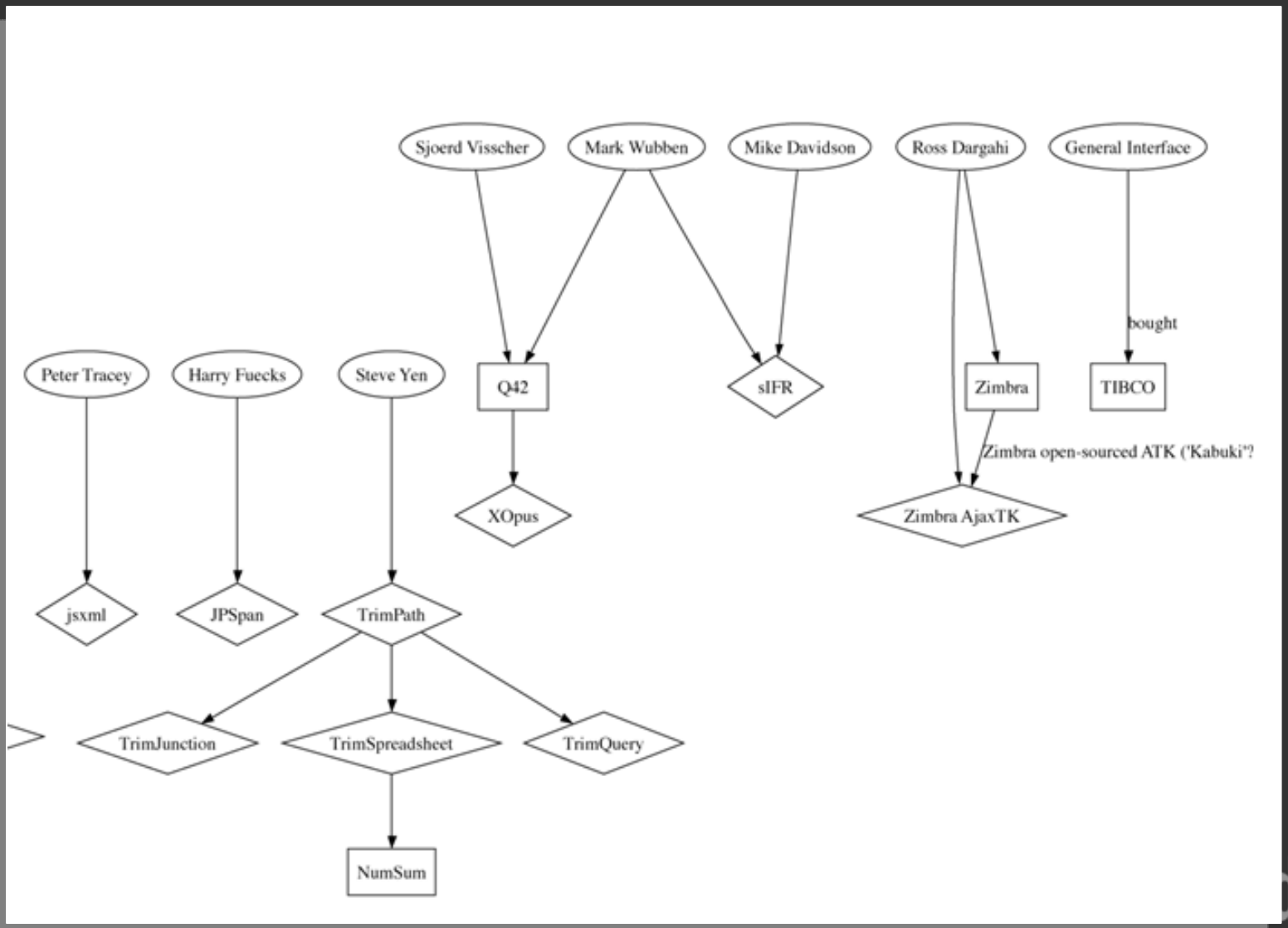

Tom Trenka
David Schontzler
Dan Pupius
Michal van Ouwerkerk
Gerbert Kaandorp
Tim Scarfe
Thomas Brattli
Informatica Corp.
f(m)
13th Parallel Library
(unreleased)
Backbase
Cal Henderson
Dot Net
Solutions
DHTMLCentral.co
lib
AMASS

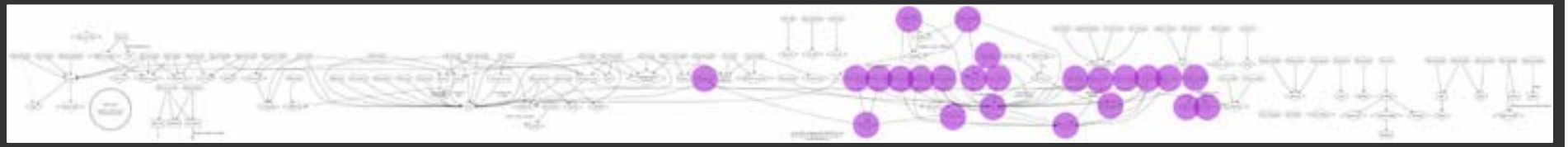

Mike Hall
Darin Kadrioski
Scott Porter
Iain Lamb
HalfBrain
AlphaBlox acquires HalfBrain
Brain Jar
DomAPI
GameLib
AlphaBlox
IBM bought AlphaBlox
Thomas Fuchs
Scriptomania
IBM
Simon Willison
Eric Costello
Jenny Han
Todd Kloots
Nate Koechley
Script.aculo.us
Flickr
An incomplete mapping of the DHTML Universe
Please send new information and corrections to:
alex@dojotoolkit.org


Ethan Diamond
David Joham
Micheal Houghton
Scott Severtson
Jon van N
Adam Platti
Sam Stephenson
Ruby On Rails
uses
XML for Script
Oddpost
Scott Schiller
Prototype
Adam Moore
Darren James
Steven Peterson
Y! bought Oddpost
Script.aculo.us
requires Prototype
RICO requires
Prototype
Yahoo!
OpenRICO
ght Flickr
Yahoo UI


oort
William J. Edney
Scott Shattuck
Kevin Lindsey
Joe Hewitt
TIBET
kevlindev.com
SWAT
Sebastian Werner
Andreas Ecker
Claus Augusti
Bill Scott
Matt Sweeney
Douglas Crockford
Alex Shvedoff
Charles Kendrick
Informatica licenses
Isomorphic
qooxdoo
JSLint
JSON
Isomorphic Inc.
Steve Champeon
Joel Webber
ActiveWidgets


Sjoerd Visscher
Mark Wubben
Mike Davidson
Ross Dargahi
General Interface
bought
Peter Tracey
Harry Fuecks
Steve Yen
Q42
sIFR
Zimbra
TIBCO
Zimbra open-sourced ATK ('Kabuki'?
XOpus
Zimbra AjaxTK
jsxml
JPSpan
TrimPath
TrimJunction
TrimSpreadsheet
TrimQuery
NumSum

A Great Community at Yahoo!



(praise them – blame me)

WEBBuilder2.0

Nate Koechley – natek@yahoo-inc.com

A quick history:

Nate Koechley – natek@yahoo-inc.com

A bit of evolution over the years...

Yahoo

[What's New? | What's Cool? | What's Popular? | A Random Link]

[*Yahoo* | Up | Search | Suggest | Add | Help]

- Art *(619)* [new]
- Business *(8546)* [new]
- Computers *(3266)* [new]
- Economy *(898)* [new]
- Education *(1839)* [new]
- Entertainment *(8814)* [new]
- Environment and Nature *(268)* [new]
- Events *(64)* [new]
- Government *(1226)* [new]
- Health *(548)* [new]
- Humanities *(226)* [new]
- Law *(221)* [new]
- News *(301)* [new]
- Politics *(184)* [new]
- Reference *(495)* [new]
- Regional Information *(4597)* [new]
- Science *(3289)* [new]
- Social Science *(115)* [new]
- Society and Culture *(933)* [new]

*There are currently **31897** entries in the Yahoo database*

1994

A bit of evolution over the years...

1994

1995

Nate Koechley – natek@yahoo-inc.com

A bit of evolution over the years...

1994

1995

1997

Nate Koechley – natek@yahoo-inc.com

A bit of evolution over the years...

1994

1995

1997

2000

A bit of evolution over the years...

1994

1995

1997

2000

2002

A bit of evolution over the years...

1994

1995

1997

2000

2002

2004

Nate Koechley – natek@yahoo-inc.com

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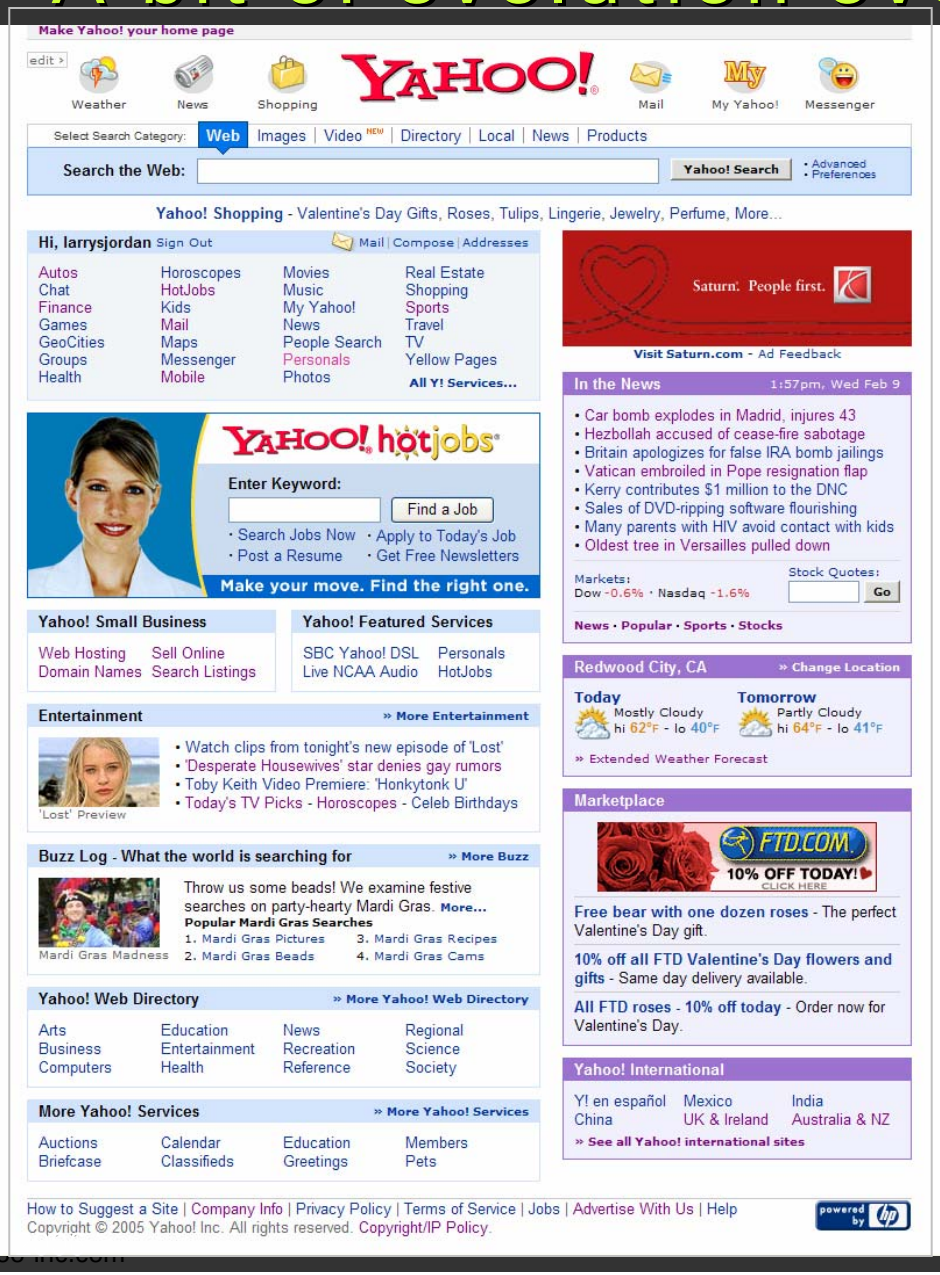
A bit of evolution over the years...



1994

1995

1997

2000

2002

2004

Today per month:

188m users

5.2 billion hits

Source: Comscore, Feb

Make Y! your home page

Yahoo! Small Business - Get a domain for $2.99/yr., build a web site, sell online

YAHOO!

My Yahoo! | My Mail

Web | Images | Video | Audio | Directory | Local | News | Shopping

Search: [ ] Web Search

Yahoo! Answers: Ask a question | Answer questions

Page Options

- Autos
- Calendar
- Finance
- Games
- GeoCities
- Groups
- Horoscopes
- HotJobs
- Kids
- Maps
- Music
- News
- Personals
- Photos
- Real Estate
- Shopping
- Sports
- TV
- Travel
- Yellow Pages

All Yahoo! Services

Small Business

- Web Hosting

Featured | Entertainment | Sports | Money

NHL measures success at winning back the fans

Stanley Cup finalists have done their part after the lockout. ›› More

- Carolina handed Game 1 win
- Series breakdown Photos

Brien's wrong: Did pride cost Taylor his career?

World Cup: Can the U.S. survive Group E?

Wie fails to qualify for men's U.S. Open

NHL measures success at winning back fans

›› More Sports

In the News | World | Video

- More arrests likely in Canadian probe
- Security Council arrives in wary Sudan
- Islamic militia seizes Somalia's capital
- Abbas to call referendum on Israel
- Kidnappers challenge new Iraq government
- Peru election won't end Chavez's influence
- Syrian opposition urges regime's ouster
- E. Timor government shows signs of revival

›› More World News

Markets: **Dow: -1.8%** **Nasdaq: -2.2%**

Marketplace

HP Color LaserJet 2600n
Now $349.99 with rebate. Network-ready and prints up to 8 pages a minute. Learn more >>

Hi, **nate.koechley** Sign Out

Mail | Messenger | Radio | Weather 53° - 60° | Local | Movies

$1,000,000 Reward

Inside Yahoo! Shopping

Gadgets for Dads & Grads

- Computers
- Digital Cameras
- MP3 Players
- Camcorders
- DVRs
- TVs

Special Offer

Casio Pathfinder: 10% off

Yahoo! Pulse

Top User Rated Animated Movies

1. **The Incredibles** Read user reviews
2. **Finding Nemo** Read user reviews
3. **The Lion King** Read user reviews
4. **Shrek** Read user reviews

Video: http://nate.koechley.com/talks/2006/12/webbuilder/Yahoo-vs-Yahoo/fp_2.avi

It is *immensely* telling
that the new Yahoo!
homepage is a DHTML
and Ajax homepage.

Why is this noteworthy?

- “Content delivery” to “software development”
- Browser as application platform is “the most hostile environment possible”
- Massive edge-case populations

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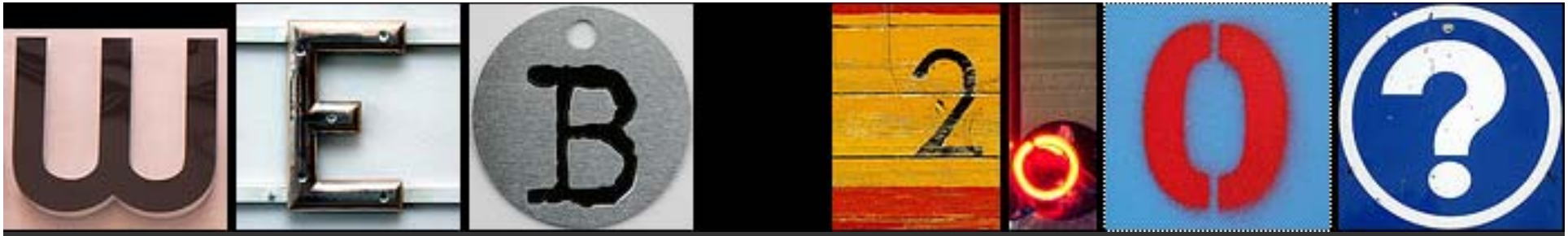

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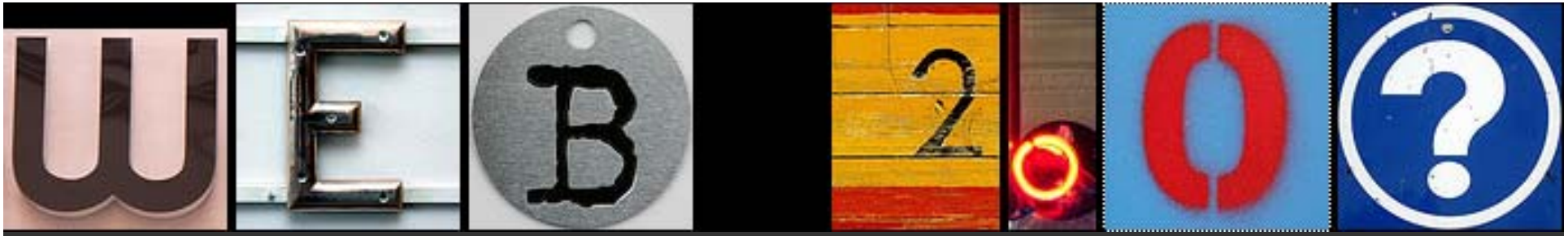

“Getting It Right The Second Time”

(matt sweeney)

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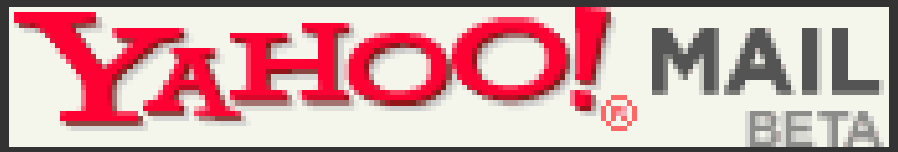
Three Case Studies



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Case Study #1
www.yahoo.com

- History
  - From scratch
- Massive Scale
  - 5.2 billion views / month
  - 188 million unique users / month
- DHMTL and Ajax Implementation

(all data from comScore)

WEBBuilder 2.0

Nate Koechley – natek@yahoo-inc.com

Video: http://nate.koechley.com/talks/2006/12/webbuilder/Yahoo-vs-Yahoo/fp_2.avi

Case Study #2
photos.yahoo.com

- History
  - –From scratch
  - –Agile design and development project
- Massive Scale
  - –30 million unique users
  - –2 billion photos
- Major DHTML and Ajax Implementation

WEBBuilder2.0

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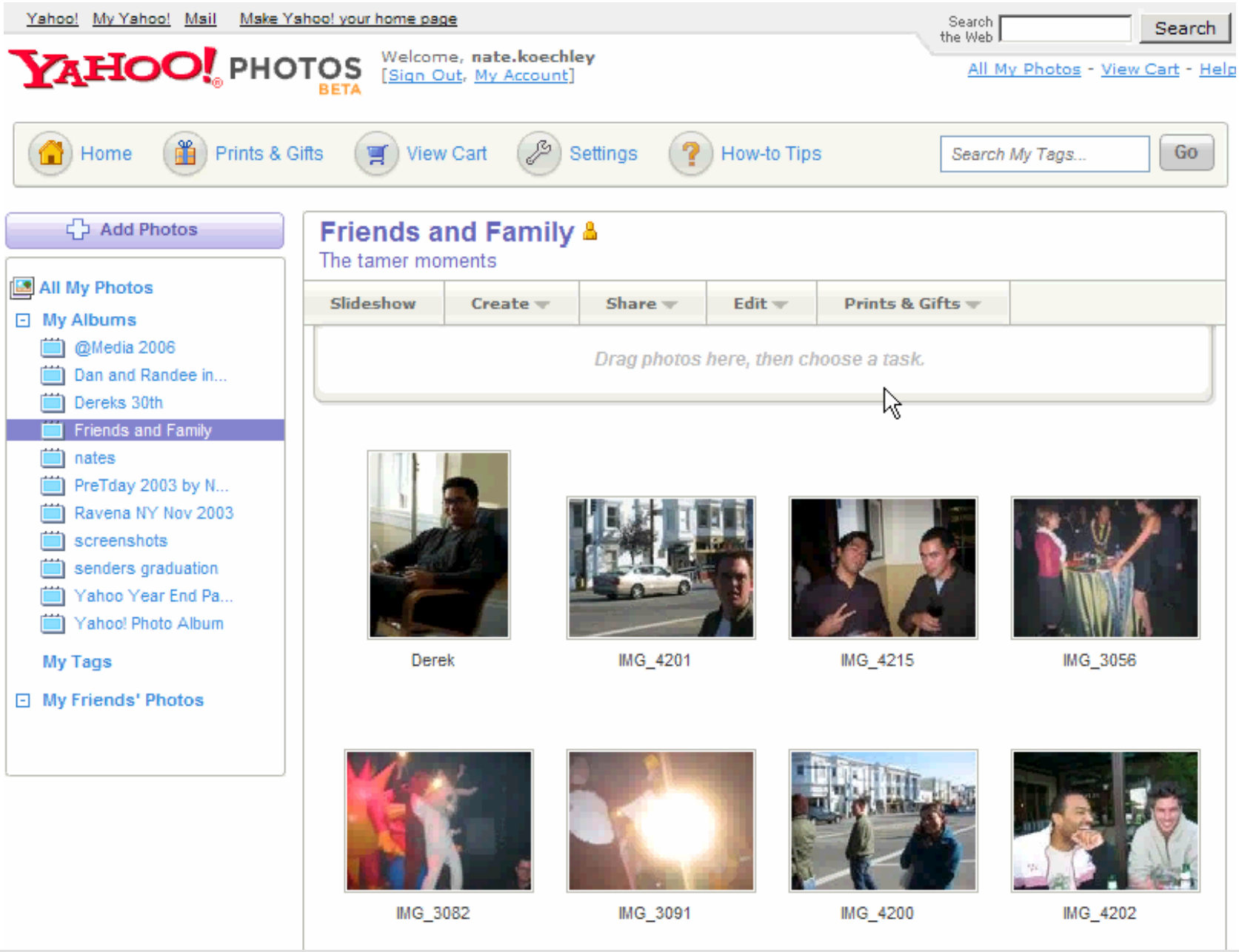


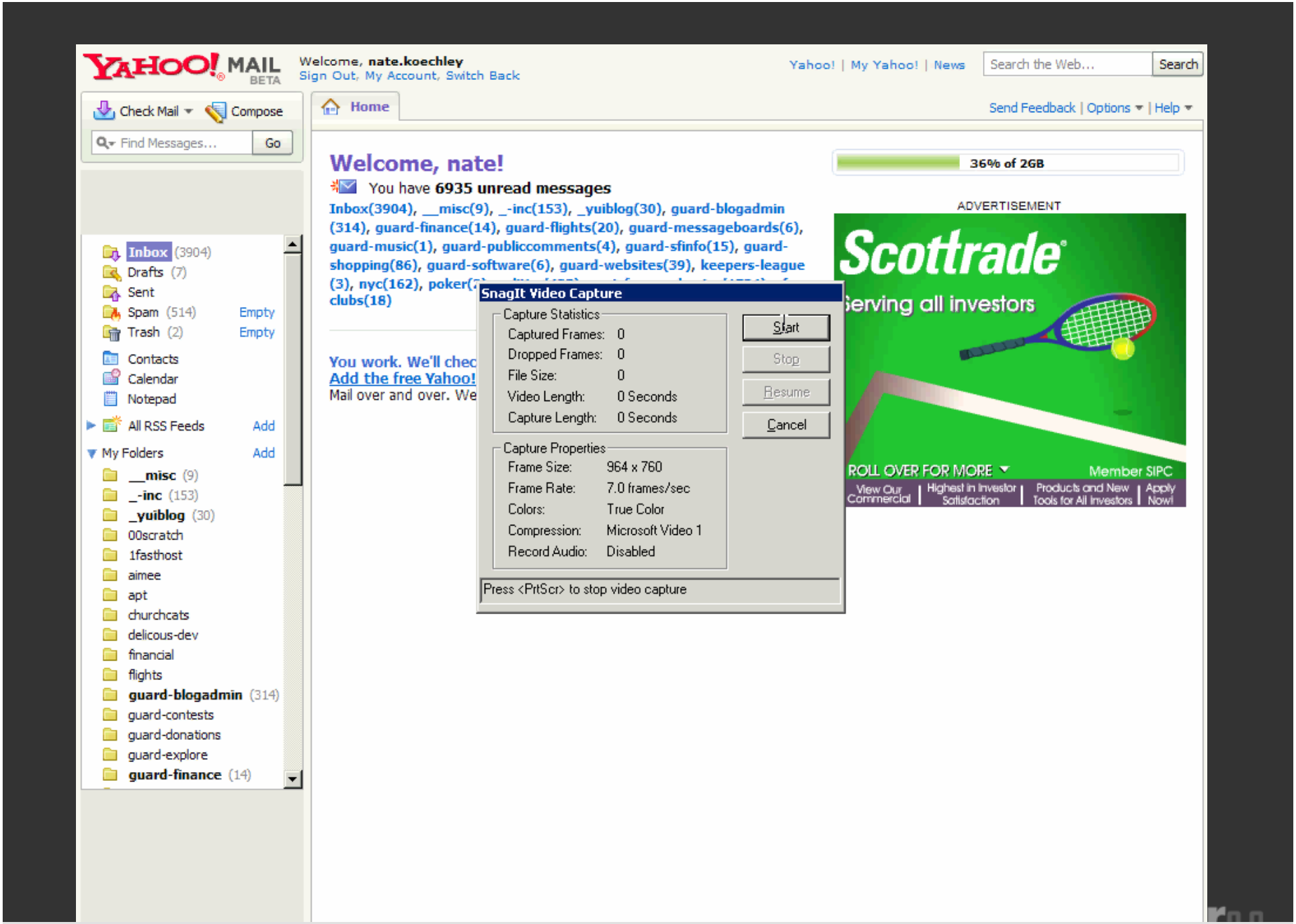
Video: http://nate.koechley.com/talks/2006/12/webbuilder/Yahoo-vs-Yahoo/photos3_2.avi

Case Study #3
mail.yahoo.com

- History
  - Beta release about 1.5 years ago
  - Legacy-ish! (was Oddpost.com since 1999)
- Massive Scale
  - World's largest email provider ~257MM
  - Available in 21 languages
- Preeminent DHTML and Ajax Application

WEBBuilder2.0

Nate Koechley – natek@yahoo-inc.com



Video: http://nate.koechley.com/talks/2006/12/webbuilder/Yahoo-vs-Yahoo/mail_1.avi

(Don’t worry – not a product pitch)

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Common Goals:

Common Goals:

1) Performance

Performance:

- time-to-paint
- time-to-onLoad
- speed on the wire
- speed of development
- memory & CPU footprint

Common Goals:

1) Performance
2) Interactivity

Common Goals:

1) **Performance**
2) **Interactivity**
3) **Make Good Choices**

Common Approaches

	YAHOO!	YAHOO! PHOTOS BETA	YAHOO! MAIL BETA
Doctype	**HTML 4.01 Strict**	*XHTML 1.0 Strict*	*None*
Render Mode	**Strict**	Strict	*Quirks*
CSS Sprites	**Yes**	Yes	Yes
Font-size Responsive	**Yes**	Yes	*No*
Keyboard	**Yes**	Yes	Yes
Absolute Pos	**No**	No	No
Minimization	**Yes**	Yes	Yes
Obfuscation	**No**	No	*Yes*
Compression	**Yes**	Yes	Yes

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from Documents
& Pages
to Applications

The Page—Application Spectrum

- Historically Web
- Shallow Interaction
- Simple Idioms
- Reading
- Markup + Skin
- Sequential
- Passive

- Historically Desktop
- Deep Interaction
- Sophisticated Idioms
- Doing
- DOM + Ajax
- Contained
- Active

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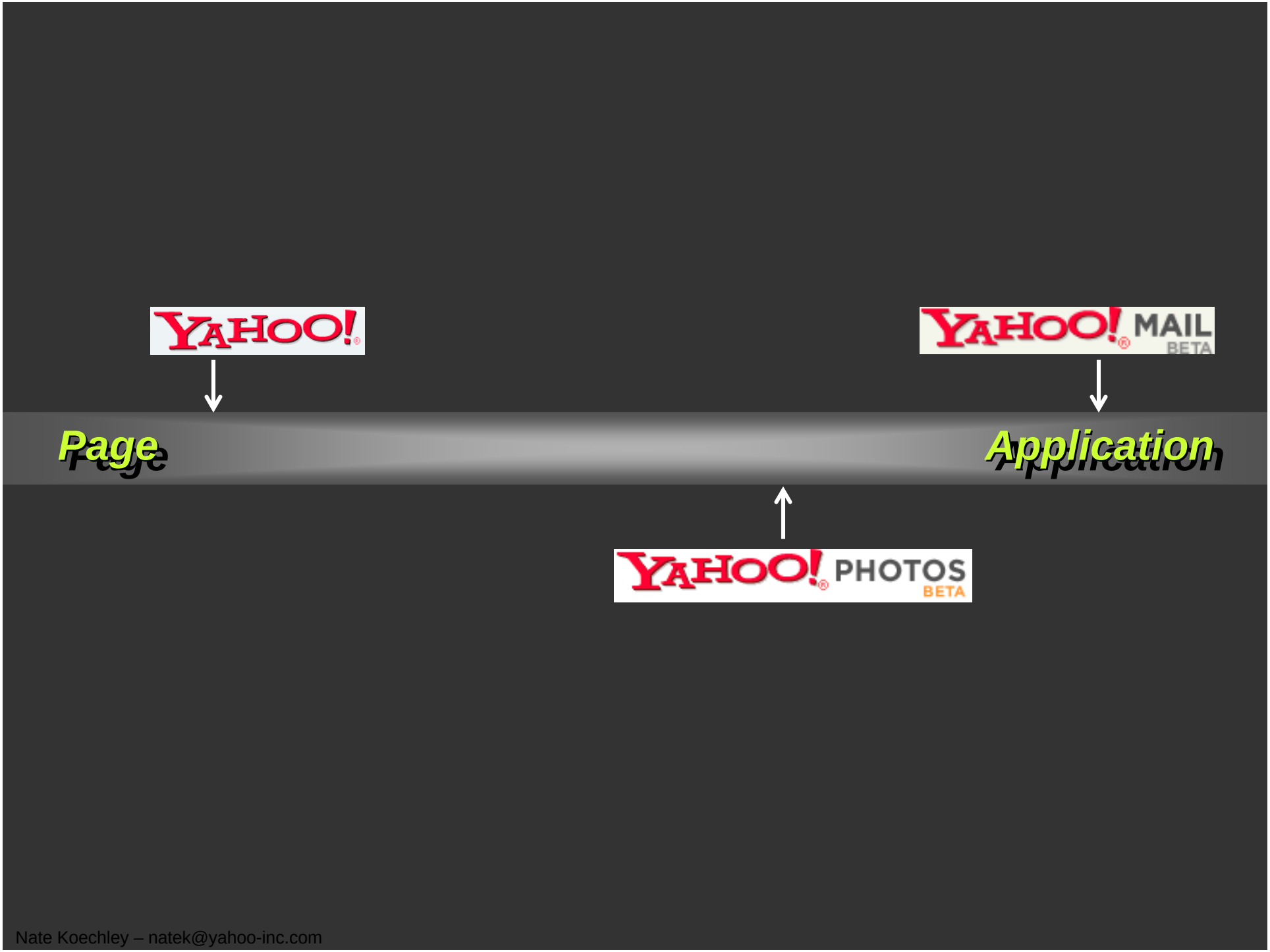

Nate Koechley – natek@yahoo-inc.com

Looking Across the Spectrum

1. Tracking Events
2. Memory Management
3. Delivering JS and CSS
4. Data Format
5. Pagination
6. Browser Support

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Looking Across the Spectrum

1. **Tracking Events**
2. Memory Management
3. Delivering JS and CSS
4. Data Format
5. Pagination
6. Browser Support

WEBBuilder2.0

Nate Koechley – natek@yahoo-inc.com

From: Page-Granular
To: Event-Granular

Use an Event Utility:

- No JS in markup attribute space
- Many great utilities
  - Dojo
  - YUI Event Utility
  - many more...
- Watch out for memory leaks!!! (yes, three !'s)

Event Attachment

WEBBuilder2.0

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What happens as your app gets more complex?

(more events * more objects)

Feeling lucky?

Feeling lucky?

Tracking Events: The Challenge

- How can we minimize the number of objects in play?
- How can we minimize the number of events attached and tracked?

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From Attachment to Delegation

WEBBuilder2.0

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From Attachment to Delegation

WEBBuilder2.0

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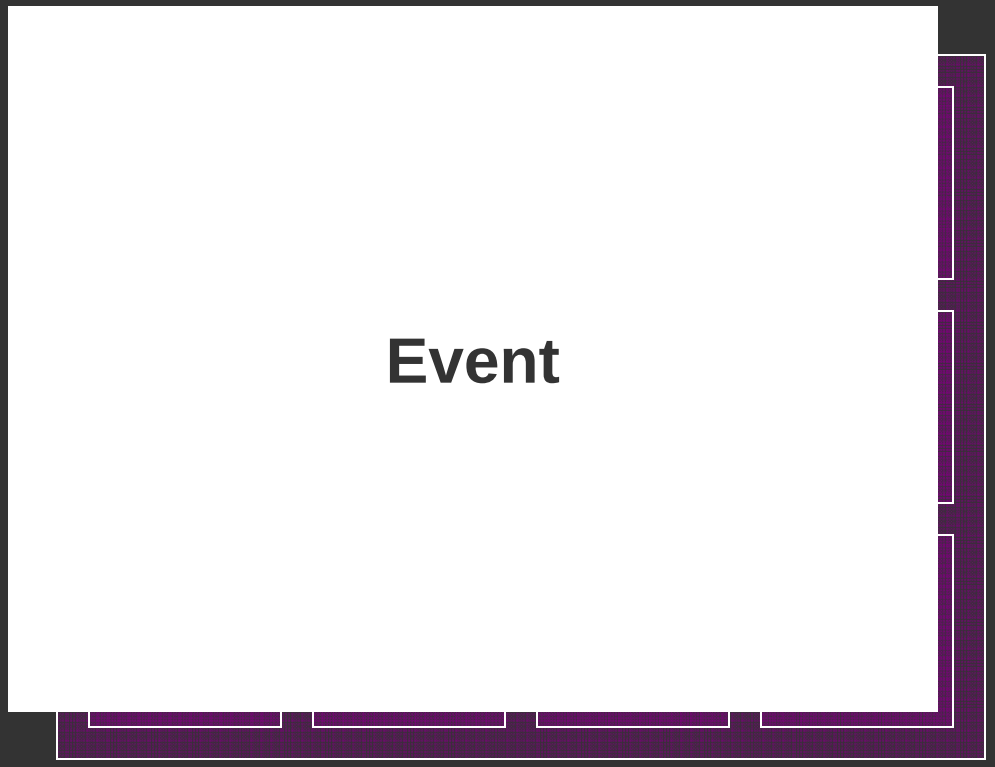
From Attachment to Delegation



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More on “Delegation”

Minimize Object and Event Count by:

1. Only listen to native `document.onmousedown`

   (or whatever node makes sense)

2. *Then* determine which `event.target` (native)
3. *Just-in-time* handler attachment

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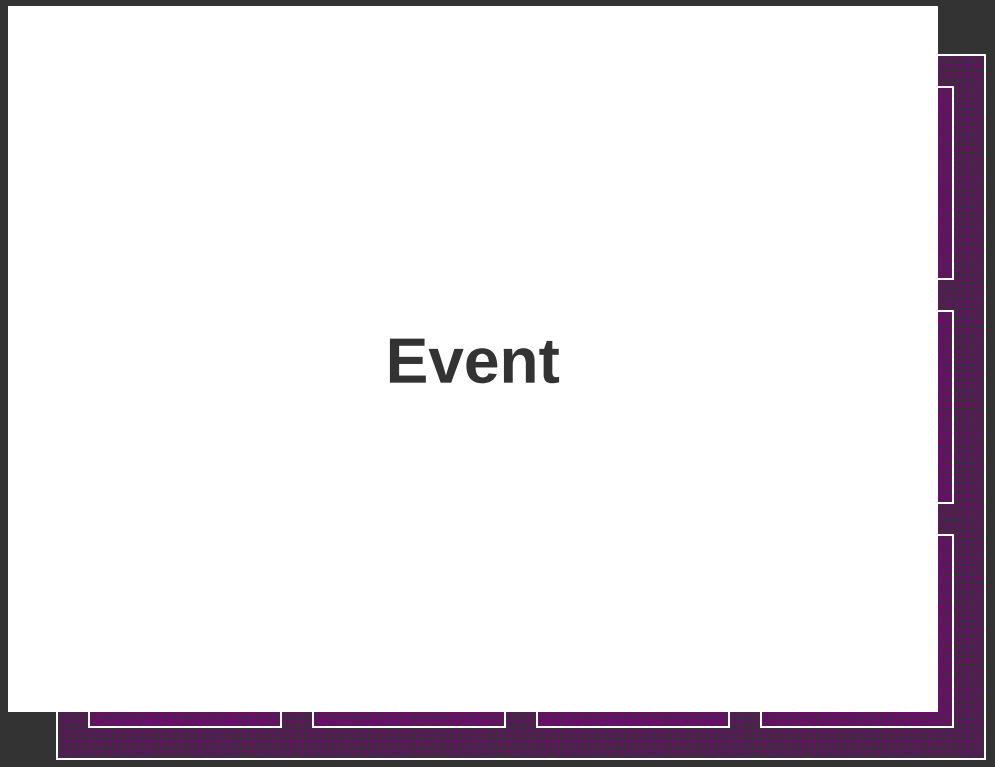
Tracking Events: Event Delegation



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```
//listen on parent
YUI.Event.on('parent', 'click', clickDelegate   );

   function clickDelegate(e){
         // get the target
         var origin = YUI.Event.getTarget(e, false);
         // delegate “just in time”
         if(YUI.Dom.hasClass(origin, 'child'))
         alert(origin.innerHTML + ' was clicked.');
   }

<div id="parent">
   <div class="child">Foo</div>
   <div class="child">Bar</div>
</div>
```

http://yuiblog.com/sandbox/yui/v0114/examples/event/delegation.php

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WEBBuilder 2.0

Tracking Events:

- Limited objects & simple handlers
- Attachment

- Many objects & multiple handlers
- Delegation

- Many objects & multiple handlers
- Delegation

Page ***Application***

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Looking Across the Spectrum

1. Tracking Events
2. **Memory Management**
3. Delivering JS and CSS
4. Data Format
5. Pagination
6. Browser Support

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Memory Management

- Things can get out of hand.
- Goals:
  1) **Don’t leak memory**
  2) **Keep overall footprint minimal**
  3) **Always-responsive, stable interface**

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Destructor for each Constructor

- Thoroughly Unhook and Remove Handlers and References

Three Approaches

1. DOM Destruction
2. DOM Conservation
3. DOM Recycling

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Memory Management

- Conservation (based on use case)

- Destruction

- Destruction, but also...
- Recycling (of iframes)

Page ***Application***

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Memory Management Tip:

- Measure and Test
  - Drip is a great tool
- Test:
  - Extreme object counts
  - Long interactions
  - Extensive navigation

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Drip:

- http://outofhanwell.com/ieleak/index.php?title=Main_Page
- MSDN: Understanding and Solving Internet Explorer Leak Patterns

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Looking Across the Spectrum

1. Tracking Events
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6. Browser Support

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General Best Practice

- Single large file is fastest
  - Avoid HTTP requests
- CSS near top
- JS near </body>

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Other Approaches (1):

1) Many small files ***at once***
   - Enables atomic/team development
   - Enables partial caching while other parts change

(build process can clean up and concat.)

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Other Approaches (2):

2) Many small files ***on demand***
   - Tuning in response to use case analysis
   - Overall time faster, individual time slower

(bait and switch)

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Other Approaches (3):

3) Inline in the <head>
   - Caching doesn't always work.
     In particular: browser's home page.

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Delivering CSS and JS:

YAHOO!

- Many smaller files, on demand. Some inline.
- Every feature not used every time. Content is key.

YAHOO! PHOTOS BETA

- Über files of interface JS/CSS. Pay once.
- Then, data and objects on demand

YAHOO! MAIL BETA

- Single file (anti-example)
- Functionality is key. Highly interconnected.

Page ***Application***

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Looking Across the Spectrum

1. Tracking Events
2. Memory Management
3. Delivering JS and CSS
4. **Data Format**
5. Pagination
6. Browser Support

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General Best Practice

- Use JSON for data interchange
  - "The fat-free alternative to XML"
  - Natively understood. No parsing or crawling.
  - It's A**jax** not AJA**X**
- http://www.json.org
  - Tools in every known programming language

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Other Approaches:

- *Somebody* pays to render the View
  - Pass DOM states as strings
  - Important architectural decision

- Finding: Parsing XML degrades performance greater-than-linearly as XML size increases.

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Data Format:

"JSON rocks"

"We want to move to JSON"

"We're using some JSON, and will be much more soon"

"Recognize strengths of client and server"

Page ***Application***

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Disclaimer:

JSON is great, but an intimate understanding of your application is best.

Looking Across the Spectrum

1. Tracking Events
2. Memory Management
3. Delivering JS and CSS
4. Data Format
5. **Pagination**
6. Browser Support

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could != should

Pagination

- In all cases:
  - Know your DOM.
  - Know your footprint.
  - Know your users.

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Pagination vs. Endless Scrolling:

- N/A (single page)
- Some Ajax pagination

- Heavy objects
- Pagination with Ajax (new group in memory)

- Light objects
- Endless-scrolling (and clever caching)

Page ***Application***

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Looking Across the Spectrum

1. Tracking Events
2. Memory Management
3. Delivering JS and CSS
4. Data Format
5. Pagination
6. **Browser Support**

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Browsers: The Dirty Truth

- **The Web is the most hostile software engineering environment imaginable.**

– Douglas Crockford

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Binary Browser Support

- Do I need to support Browser XYZ on this project?

Same as saying:

Those users aren't welcome.

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Graded Browser Support

1. “Support” does not mean “Same”

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The Web is Heterogeneous!

“Expecting two users using different browser software to have an identical experience fails to embrace or acknowledge the heterogeneous essence of the Web.”

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Graded Browser Support

1. "Support" does not mean "Same"
2. *Grades* of support provide an [appropriate] experience for all.

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The Web is about Availability

A graded approach is inclusive and brings sanity to QA testing.

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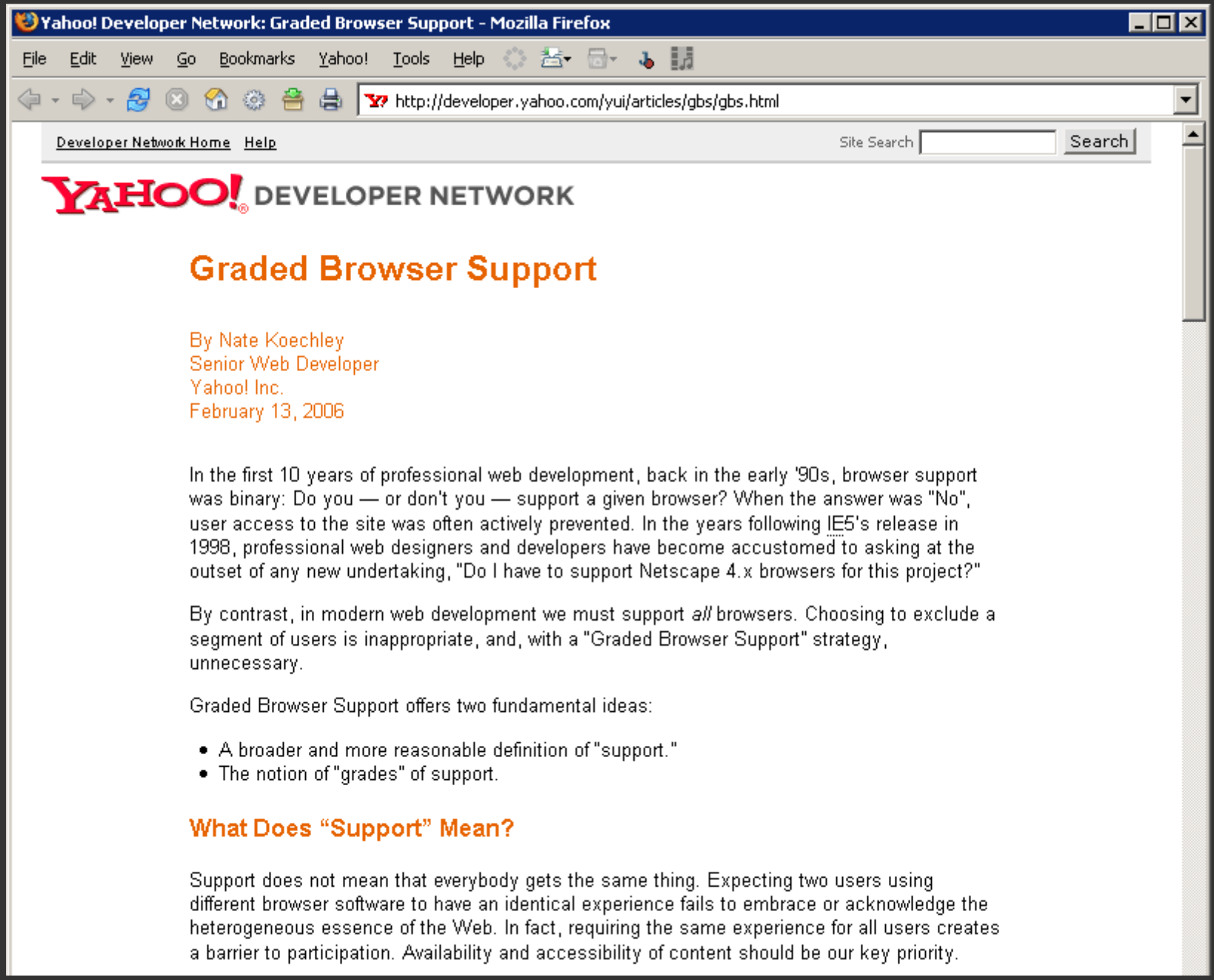

http://developer.yahoo.com/yui/articles/gbs/gbs.html

Three Grades of Browser Support

- C-grade support (**core** support, 2%)
- A-grade support (**advanced** support, 96%)
- X-grade support (the **X-Factor**, 2%)

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Table of A-Grade Support

A-grade browsers must be thoroughly and systematically developed for and QA tested. C-grade browsers must be spot-tested, while development and QA resources should not address X-grade browsers.

	Win 98	Win 2000	Win XP	Mac 10.3.x	Mac 10.4.x
IE 7.0	n/a	n/a	A-grade	n/a	n/a
IE 6.0	A-grade	A-grade	A-grade	n/a	n/a
Firefox 2.0.*	A-grade	A-grade	A-grade	A-grade	A-grade
Firefox 1.5.*	A-grade	A-grade	A-grade	A-grade	A-grade
Opera 9.*	A-grade	A-grade	A-grade	A-grade	A-grade
Safari 2.0*	n/a	n/a	n/a	n/a	A-grade

http://developer.yahoo.com/yui/articles/gbs/gbs_browser-chart.html

Search Results

1 - 100 of about 192,000,000 for **javascript** - 0.22 sec. (About this page)

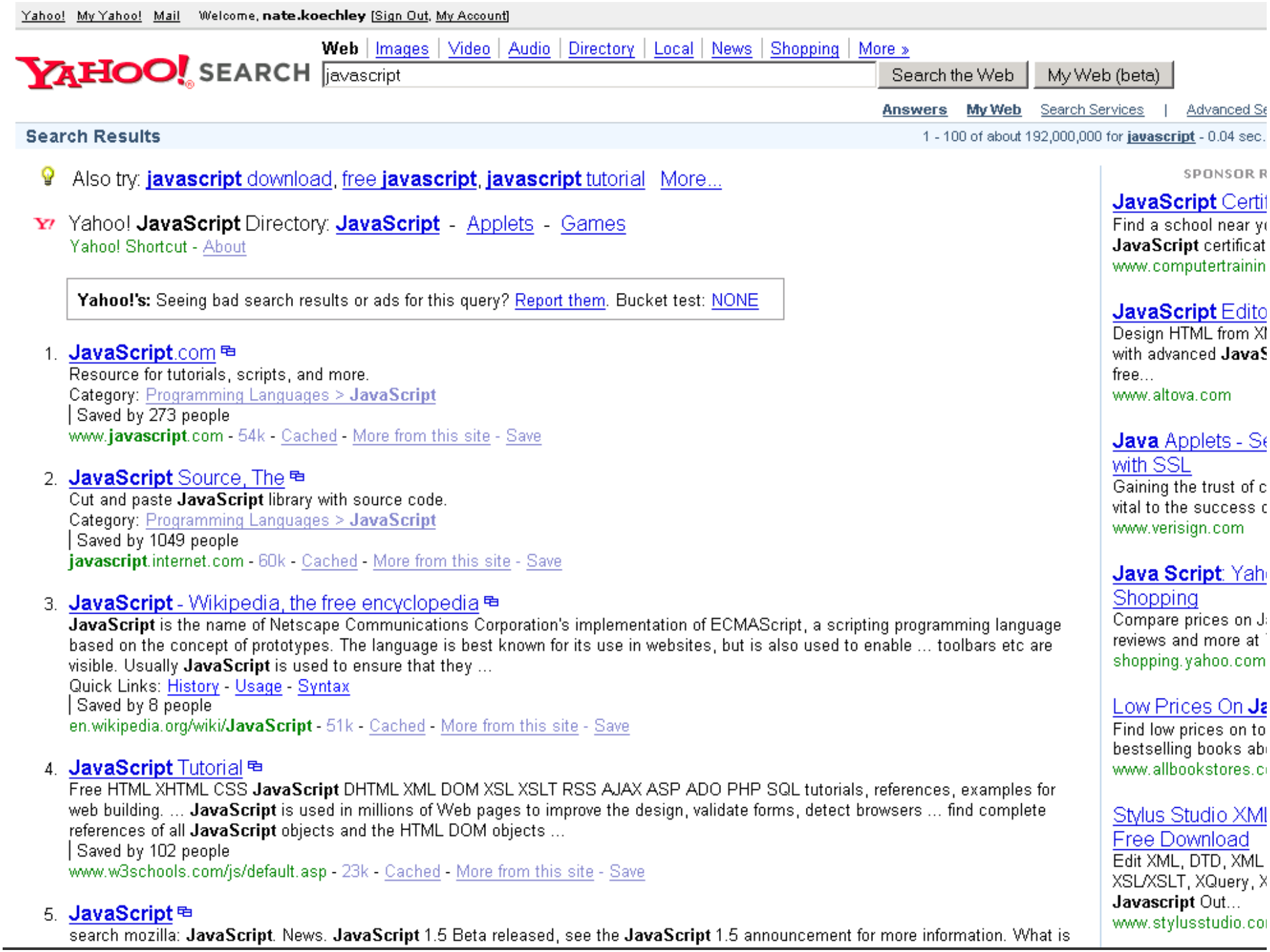
Also try: **javascript** download, free **javascript**, **javascript** tutorial More...

Yahoo! **JavaScript** Directory: **JavaScript** - Applets - Games
Yahoo! Shortcut - About
*My Web Results for **javascript** (53,199)*

WEB RESULTS

Yahoo!'s: Seeing bad search results or ads for this query? Report them. Bucket test: NONE

1. **JavaScript**.com
   Resource for tutorials, scripts, and more.
   Category: Programming Languages > **JavaScript**
   Saved by 273 people
   *www.**javascript**.com - 54k - Cached - More from this site - Save*
2. **JavaScript** Source, The
   Cut and paste **JavaScript** library with source code.
   Category: Programming Languages > **JavaScript**
   Saved by 1049 people
   ***javascript**.internet.com - 60k - Cached - More from this site - Save*
3. **JavaScript** - Wikipedia, the free encyclopedia
   JavaScript is the name of Netscape Communications Corporation's implementation of ECMAScript, a scripting programming language based on the conce
   The language is best known for its use in websites, but is also used to enable ... toolbars etc are visible. Usually **JavaScript** is used to ensure that they ...
   Quick Links: History - Usage - Syntax
   Saved by 8 people


Yahoo! My Yahoo! Mail Welcome, nate.koechley [Sign Out, My Account]
Web | Images | Video | Audio | Directory | Local | News | Shopping | More »
YAHOO! SEARCH
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Search the Web
My Web (beta)
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1 - 100 of about 192,000,000 for javascript - 0.04 sec.
Also try: javascript download, free javascript, javascript tutorial More...
Yahoo! JavaScript Directory: JavaScript - Applets - Games
Yahoo! Shortcut - About
Yahoo!'s: Seeing bad search results or ads for this query? Report them. Bucket test: NONE
1. JavaScript.com
Resource for tutorials, scripts, and more.
Category: Programming Languages > JavaScript
Saved by 273 people
www.javascript.com - 54k - Cached - More from this site - Save
2. JavaScript Source, The
Cut and paste JavaScript library with source code.
Category: Programming Languages > JavaScript
Saved by 1049 people
javascript.internet.com - 60k - Cached - More from this site - Save
3. JavaScript - Wikipedia, the free encyclopedia
JavaScript is the name of Netscape Communications Corporation's implementation of ECMAScript, a scripting programming language based on the concept of prototypes. The language is best known for its use in websites, but is also used to enable ... toolbars etc are visible. Usually JavaScript is used to ensure that they ...
Quick Links: History - Usage - Syntax
Saved by 8 people
en.wikipedia.org/wiki/JavaScript - 51k - Cached - More from this site - Save
4. JavaScript Tutorial
Free HTML XHTML CSS JavaScript DHTML XML DOM XSL XSLT RSS AJAX ASP ADO PHP SQL tutorials, references, examples for web building. ... JavaScript is used in millions of Web pages to improve the design, validate forms, detect browsers ... find complete references of all JavaScript objects and the HTML DOM objects ...
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www.w3schools.com/js/default.asp - 23k - Cached - More from this site - Save
5. JavaScript
search mozilla: JavaScript. News. JavaScript 1.5 Beta released, see the JavaScript 1.5 announcement for more information. What is
SPONSOR R
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Find a school near y
JavaScript certificat
www.computertrainin
JavaScript Edito
Design HTML from XI
with advanced JavaS
free...
www.altova.com
Java Applets - Se
with SSL
Gaining the trust of c
vital to the success c
www.verisign.com
Java Script: Yah
Shopping
Compare prices on J
reviews and more at
shopping.yahoo.com
Low Prices On Ja
Find low prices on to
bestselling books ab
www.allbookstores.c
Stylus Studio XMl
Free Download
Edit XML, DTD, XML
XSL/XSLT, XQuery, X
Javascript Out...
www.stylusstudio.co

Browser Support:

- GBS A-grade
- Developed in Gecko

- GBS A-grade
- Developed in Gecko

- IE and FF
- Developed in IE, then built IE-emulation layer.

Page ***Application***

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Bad decisions are tomorrow's constraints.

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Bad decisions are tomorrow's constraints.

Good decisions are tomorrow's opportunities.

Nate Koechley – natek@yahoo-inc.com

We're hiring!

(Josie Arguada: jaguada@yahoo-inc.com)

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Questions?

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I don’t know.

natek@yahoo-inc.com
http://nate.koechley.com/talks

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Namespaces

- History
  - JS is load-and-go; text is eval'd; Implied global variables were a nicety
- Bad because of unreliability and insecurity
  - Trouble when we mashup, have many devs, and programs get large
- Many global variables is bad
- Ideally, only a single global per app|lib|widget
  - An object which contains all others
- Speed unaffected; self documentation; reliable
- Shorten locally if you want.
- http://yuiblog.com/blog/2006/06/01/global-domination/

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Single Page vs. Multiple Page

- What's the sweet spot?

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Thank you.

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http://nate.koechley.com/talks

http://developer.yahoo.com/yui
http://yuiblog.com
http://nate.koechley.com/blog

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