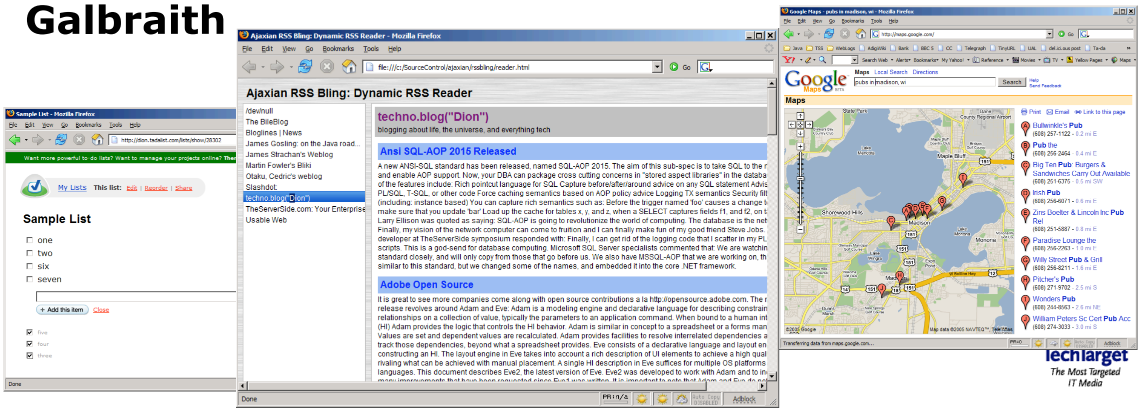
Cleaning your website with Ajax:

Creating Next-Generation, Highly Dynamic, Off-line Capable Web Applications with HTML and JavaScript

Justin Gehtland, Dion Almaer & Ben Galbraith


File Edit View Go Bookmarks Tools Help
Go
Java TSS WebLogs AdigiWiki Bank BBC 5 CC Telegraph TinyURL UAL del.ici.ous post Ta-da
Search Web Alerts Bookmarks My Yahoo! Reference Movies TV Yellow Pages Maps
Maps Local Search Directions
Search
Help
Send Feedback
Print Email Link to this page
My Lists This list: Edit | Reorder | Share
+ Add this item
Close
Done
PR:n/a
Auto Copy DISABLED
Adblock
State Park
Dane County Regional Airport
Lake Mendota
Maple Bluff
Shorewood Hills
Madison
Lake Monona
Monona
Lake Wingra
W Beltline Hwy
151
12
14
18

Sample List - Mozilla Firefox

http://dion.tadalist.com/lists/show/28302

Want more powerful to-do lists? Want to manage your projects online? Then

Sample List

- □ one
- □ two
- □ six
- □ seven

- ☑ five
- ☑ four
- ☑ three

Ajaxian RSS Bling: Dynamic RSS Reader - Mozilla Firefox

file:///c:/SourceControl/ajaxian/rssbling/reader.html

Ajaxian RSS Bling: Dynamic RSS Reader

- /dev/null
- The BileBlog
- Bloglines | News
- James Gosling: on the Java road...
- James Strachan's Weblog
- Martin Fowler's Bliki
- Otaku, Cedric's weblog
- Slashdot:
- techno.blog("Dion")
- TheServerSide.com: Your Enterprise
- Usable Web

techno.blog("Dion")

blogging about life, the universe, and everything tech

Ansi SQL-AOP 2015 Released

A new ANSI-SQL standard has been released, named SQL-AOP 2015. The aim of this sub-spec is to take SQL to the r
and enable AOP support. Now, your DBA can package cross cutting concerns in "stored aspect libraries" in the databa
of the features include: Rich pointcut language for SQL Capture before/after/around advice on any SQL statement Advis
PL/SQL, T-SQL, or other code Force caching semantics based on AOP policy advice Logging TX semantics Security filt
(including: instance based) You can capture rich semantics such as: Before the trigger named 'foo' causes a change t
make sure that you update 'bar' Load up the cache for tables x, y, and z, when a SELECT captures fields f1, and f2, on t
Larry Ellison was quoted as saying: SQL-AOP is going to revolutionize the world of computing. The database is the net
Finally, my vision of the network computer can come to fruition and I can finally make fun of my good friend Steve Jobs.
developer at TheServerSide symposium responded with: Finally, I can get rid of the logging code that I scatter in my PL
scripts. This is a god-send for database computing. Microsoft SQL Server specialists commented that: We are watchin
standard closely, and will only copy from those that go before us. We also have MSSQL-AOP that we are working on, th
similar to this standard, but we changed some of the names, and embedded it into the core .NET framework.

Adobe Open Source

It is great to see more companies come along with open source contributions a la http://opensource.adobe.com. The r
release revolves around Adam and Eve: Adam is a modeling engine and declarative language for describing constrain
relationships on a collection of value, typically the parameters to an application command. When bound to a human int
(HI) Adam provides the logic that controls the HI behavior. Adam is similar in concept to a spreadsheet or a forms man
Values are set and dependent values are recalculated. Adam provides facilities to resolve interrelated dependencies a
track those dependencies, beyond what a spreadsheet provides. Eve consists of a declarative language and layout en
constructing an HI. The layout engine in Eve takes into account a rich description of UI elements to achieve a high qual
rivaling what can be achieved with manual placement. A single HI description in Eve suffices for multiple OS platforms
languages. This document describes Eve2, the latest version of Eve. Eve2 was developed to work with Adam and to in

Google Maps - pubs in madison, wi - Mozilla Firefox

http://maps.google.com/

pubs in madison, wi

Maps

- A Bullwinkle's **Pub** (608) 257-1122 - 0.2 mi E
- B **Pub** the (608) 256-2464 - 0.4 mi E
- C Big Ten **Pub**: Burgers & Sandwiches Carry Out Available (608) 251-6375 - 0.5 mi SW
- D Irish **Pub** (608) 256-6071 - 0.6 mi E
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- I Wonders **Pub** (608) 244-8563 - 2.6 mi NE
- J William Peters Sc Cert **Pub** Acc (608) 274-3033 - 3.0 mi S

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Transferring data from maps.google.com...

TechTarget
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IT Media

Who am I?

Justin Gehtland

- •Founding partner of Relevance
- •http://www.relevancellc.com
- •Author of upcoming "Pragmatic Ajax"
- •http://www.pragmaticprogrammer.com
- •Consultant, speaker, author, dad

TechTarget
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Roadmap

- **What is Ajax?**
  - **History of rich clients on the web**
  - **JavaScript Pain**
  - **XMLHttpRequest (Example)**
- Who is using this now?
  - Google Maps
  - Google Suggest
  - Tadalist
  - Generic use cases
- Ajax Architecture Pieces
  - Ajax Engine Abstractions
  - Remoting Toolkits
  - UI Toolkits
  - Ajaxian Web Frameworks
- Ajax Usability
- Doing JavaScript Right
  - Actually a nice language!
  - Unit Testing
  - E4X: No more DOM!
- RSS Reader Demo
- Conclusion / Warnings

JavaScript Pain

- **Worked on a dHTML version of WebMail around 1998**
  - **Was not part of the core business**
  - **Were able to enforce the browser (IE 4)**
    - ***Without this, it was impossible***
  - **Had a lot of restrictions**
  - **Some powerful hooks (e.g. data binding)**
  - **Very tough to use, and frustrating experience**
- **Learned?**
  - **Painful to use**
  - **JavaScript was a quirky language at the time**
  - ***Should have kept working on that to create GMail!***

This lead to…

The Myth

Compelling rich UI’s can not be delivered with browser technology

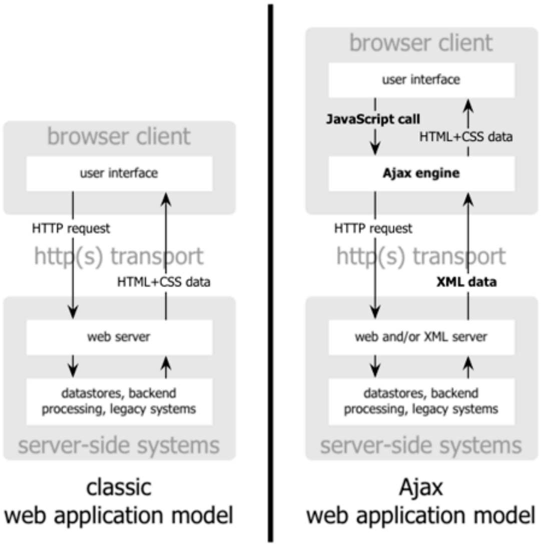
Defining Ajax

- **Ajax**
  - **standards-based presentation using XHTML and CSS**
  - **dynamic display and interaction using the Document Object Model**
  - **data interchange and manipulation using XML and XSLT**
  - **asynchronous data retrieval using <u>XMLHttpRequest</u>**
  - **and JavaScript binding everything together**

Core New Technology

Ajax Client Model

- **No more single request/response restrictions**
  - **Have flexibility to go back to the server when we want!**



http://www.adaptivepath.com/publications/essays/archives/000385.php

Server Events Everywhere

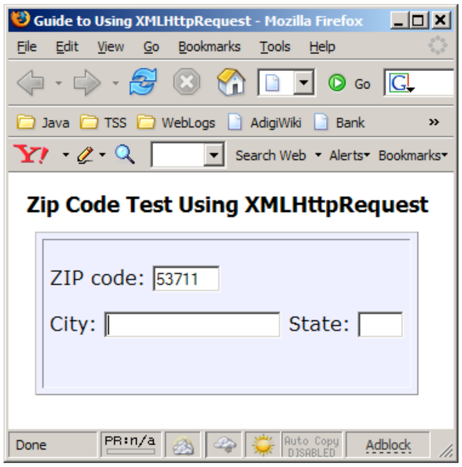
- **Web 1.0**
  - **GET via links on text and images**
  - **POST via SUBMIT buttons and type="image"**
- **Web 2.0**
  - **All of the above plus**
  - **Blur**
  - **Key press**
  - **Hover**
  - **Sneeze? ☺**

XMLHttpRequest

- **Asynchonous Processing is here**
  - **Allows you to kick off an HTTP request in the background**
  - **Callbacks kick back into the JavaScript code**
  - **Supported in various browsers**
- **Why the big deal?**
  - **Changes the request/response paradigm…**

XMLHttpRequest: Example

- **Asynchronously update fields**


Guide to Using XMLHttpRequest - Mozilla Firefox
File Edit View Go Bookmarks Tools Help
Go
Java TSS WebLogs AdigiWiki Bank
Y! Search Web Alerts Bookmarks
Done PR:n/a Auto Copy DISABLED Adblock

Zip Code Test Using XMLHttpRequest

ZIP code: 53711

City: State:

XMLHttpRequest: Working With Browsers

- **Browser Dependent Code**
  - **The old problems never die ☹**

```
function getHTTPObject() {
  var xmlhttp;
/*@cc_on
  @if (@_jscript_version >= 5)
  try {
    xmlhttp = new ActiveXObject("Msxml2.XMLHTTP");
  } catch (e) {
    try {
      xmlhttp = new
ActiveXObject("Microsoft.XMLHTTP");
    } catch (E) {
      xmlhttp = false;
    }
  }
  @else
    xmlhttp = false;
  @end @*/
  if (!xmlhttp && typeof XMLHttpRequest !=
'undefined') {
    try {
      xmlhttp = new XMLHttpRequest();
    } catch (e) {
      xmlhttp = false;
    }
  }
  return xmlhttp;
}
```

Cross Browser XMLHttpRequest Code:

Supports: IE, Opera (Gecko built in!)
http://www.scss.com.au/family/andrew/webdesign/xmlhttprequest/

XMLHttpRequest: Make the XMLHttpRequest

- **Handle the response from the server**
  - **Setup the HTTP request URL**
  - **Configure the callback for the response**
  - **Send the async message**

```
function updateCityState() {
  if (!isWorking) {
    var zipValue = document.getElementById("zip").value;
    xmlhttp.open("GET", url + escape(zipValue), true);
    isWorking = true;
    xmlhttp.onreadystatechange = handleHttpResponse;
    xmlhttp.send(null);
  }
}
```

```
<input size="5" name="zip" id="zip" onblur="updateCityState();" type="text">
```

XMLHttpRequest: Handling HTTP Response

- **Handle the response from the server**
  - **State checking**
  - **Getting response text**
  - **Handling XML DOM returned**

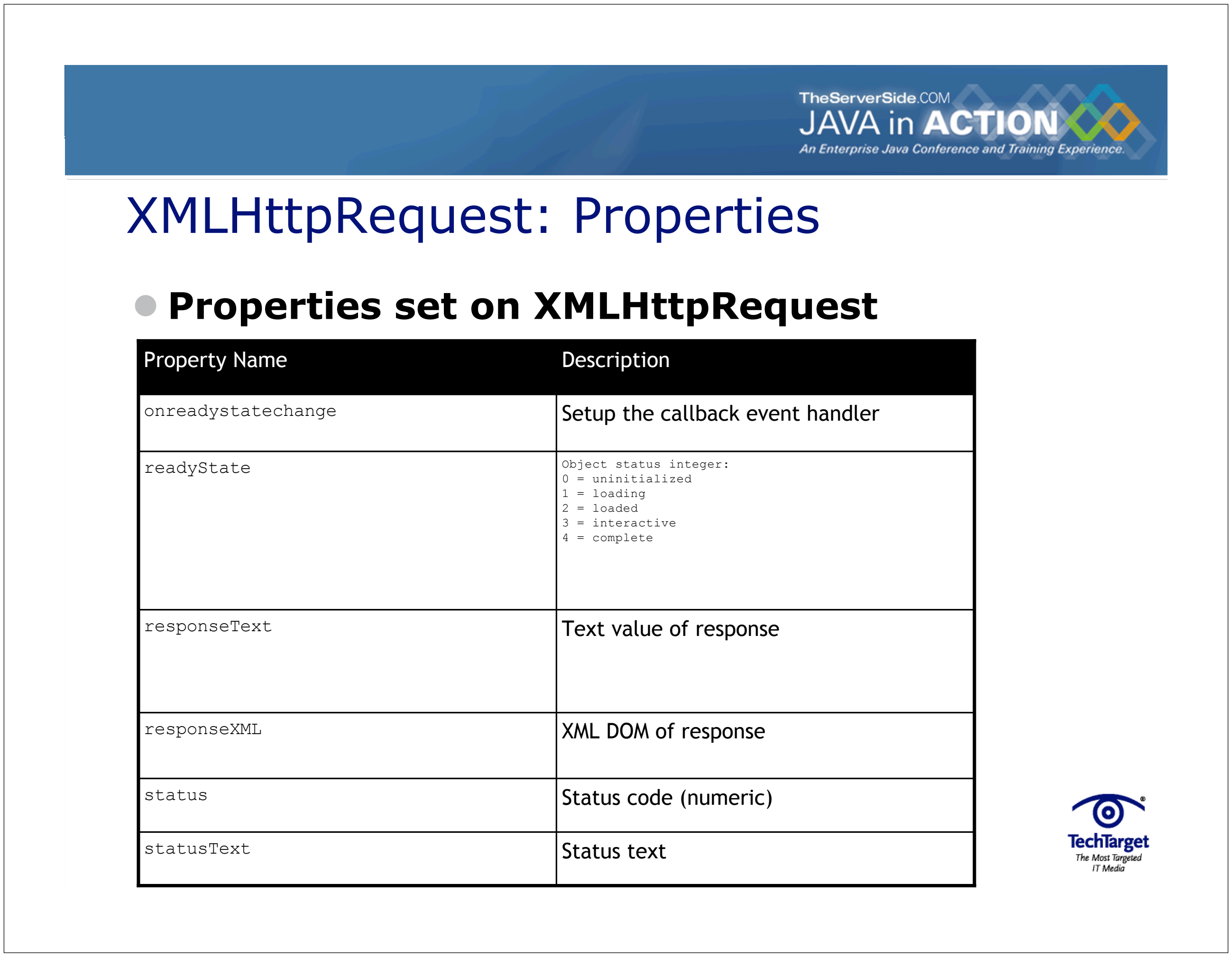
```
function handleHttpResponse() {
  if (xmlhttp.readyState == 4) {
    isWorking = false;
    if (xmlhttp.responseText.indexOf('invalid') == -1) {
      var xmlDocument = xmlhttp.responseXML;
      var city = xmlDocument.getElementsByTagName('city').item(0).firstChild.data;
      var state = xmlDocument.getElementsByTagName('state').item(0).firstChild.data;
      document.getElementById('city').value = city;
      document.getElementById('state').value = state;
    }
  }
}
```

Magic Numbers :/

XMLHttpRequest: Methods

- **Methods available on XMLHttpRequest**

Method Name	Description
`open("method", "URL"[, asyncFlag[, "userName"[, "password"]]])`	Setup a request (note async)
`send(content)`	Send the request (content = post data)
`abort()`	Stop any request
`getAllResponseHeaders()`	Return a Map of headers
`getResponseHeader("header")`	Return the header value
`setRequestHeader("label", "value")`	Set headers



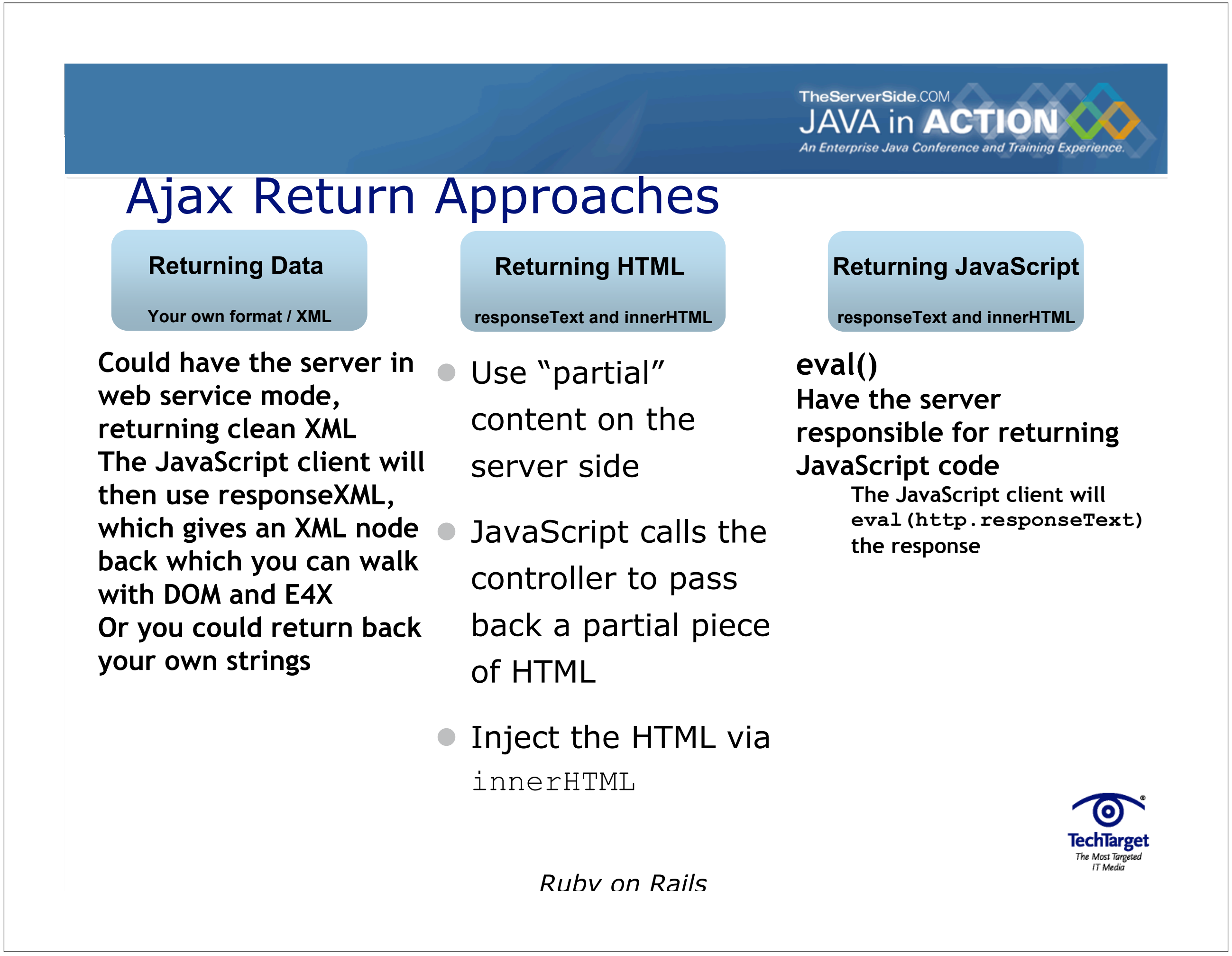
XMLHttpRequest: Properties

- **Properties set on XMLHttpRequest**

Property Name	Description
`onreadystatechange`	Setup the callback event handler

`readyState`	`Object status integer:`
	`0 = uninitialized`
	`1 = loading`
	`2 = loaded`
	`3 = interactive`
	`4 = complete`

`responseText`	Text value of response
`responseXML`	XML DOM of response
`status`	Status code (numeric)
`statusText`	Status text



Ajax Return Approaches

Returning Data

Your own format / XML

Could have the server in web service mode, returning clean XML
The JavaScript client will then use responseXML, which gives an XML node back which you can walk with DOM and E4X
Or you could return back your own strings

Returning HTML

responseText and innerHTML

- Use "partial" content on the server side
- JavaScript calls the controller to pass back a partial piece of HTML
- Inject the HTML via `innerHTML`

Returning JavaScript

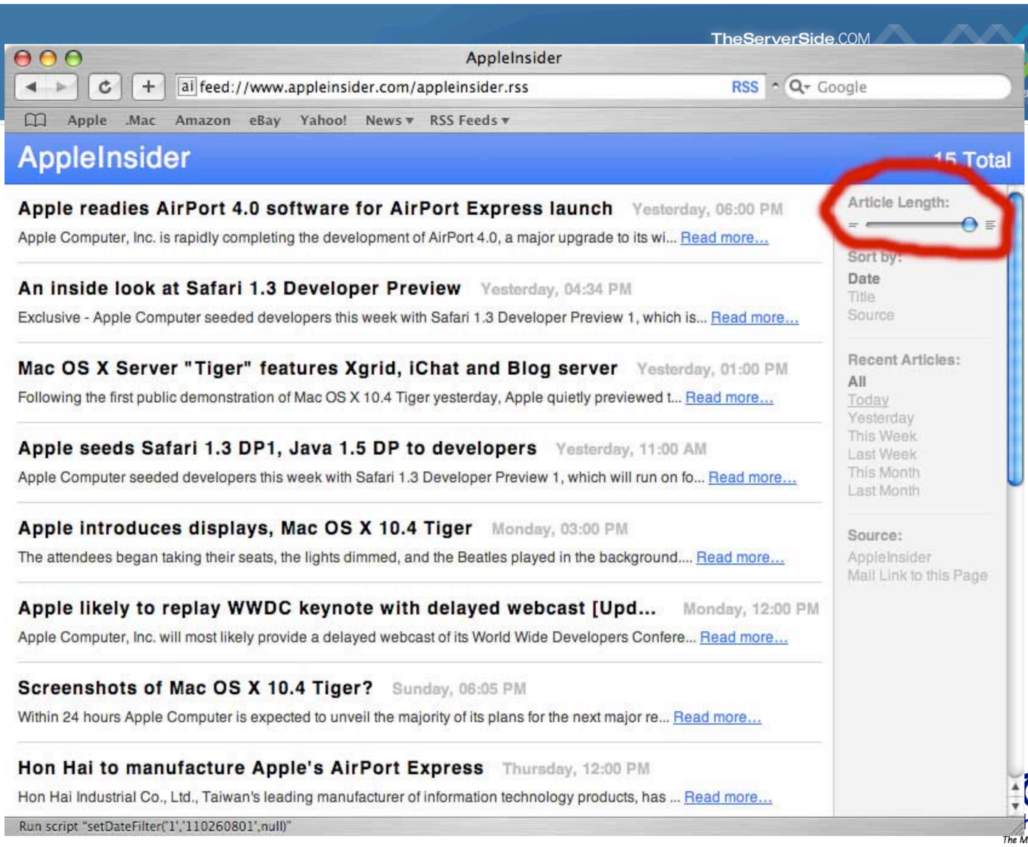
responseText and innerHTML

eval()
Have the server responsible for returning JavaScript code

The JavaScript client will `eval(http.responseText)` the response

Is Flash Ajax?

- **A common question/debate surrounds Flash, and its role**
- **Is Flash Ajax itself?**
  - **It does allow you to follow a similar architecture**
  - **ActionScript is even *almost* JavaScript**
- **Our View:**
  - **Flash is a fantastic tool in the toolbox for developers**
  - **Now, you can bridge JavaScript from a HTML page, with ActionScript in a Flash component**
  - **Some components are impossible, or very hard to implement with HTML/CSS/JS, and we can fall back to Flash**



AppleInsider 15 Total

Apple readies AirPort 4.0 software for AirPort Express launch Yesterday, 06:00 PM
Apple Computer, Inc. is rapidly completing the development of AirPort 4.0, a major upgrade to its wi... Read more...

An inside look at Safari 1.3 Developer Preview Yesterday, 04:34 PM
Exclusive - Apple Computer seeded developers this week with Safari 1.3 Developer Preview 1, which is... Read more...

Mac OS X Server "Tiger" features Xgrid, iChat and Blog server Yesterday, 01:00 PM
Following the first public demonstration of Mac OS X 10.4 Tiger yesterday, Apple quietly previewed t... Read more...

Apple seeds Safari 1.3 DP1, Java 1.5 DP to developers Yesterday, 11:00 AM
Apple Computer seeded developers this week with Safari 1.3 Developer Preview 1, which will run on fo... Read more...

Apple introduces displays, Mac OS X 10.4 Tiger Monday, 03:00 PM
The attendees began taking their seats, the lights dimmed, and the Beatles played in the background.... Read more...

Apple likely to replay WWDC keynote with delayed webcast [Upd... Monday, 12:00 PM
Apple Computer, Inc. will most likely provide a delayed webcast of its World Wide Developers Confere... Read more...

Screenshots of Mac OS X 10.4 Tiger? Sunday, 06:05 PM
Within 24 hours Apple Computer is expected to unveil the majority of its plans for the next major re... Read more...

Hon Hai to manufacture Apple's AirPort Express Thursday, 12:00 PM
Hon Hai Industrial Co., Ltd., Taiwan's leading manufacturer of information technology products, has ... Read more...

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Last Month

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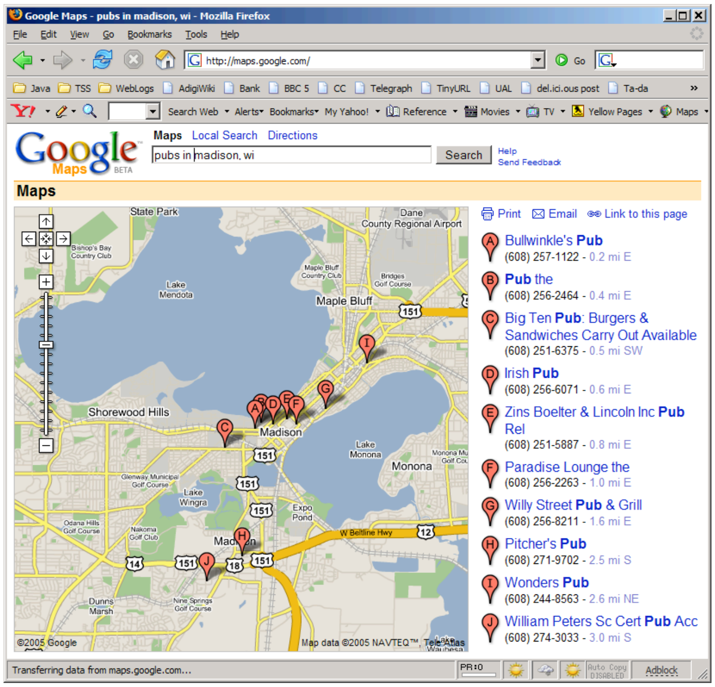
Run script "setDateFilter('1','110260801',null)"

Roadmap

- What is Ajax?
- **Who is using this now?**
  - **Google Maps**
  - **Google Suggest**
  - **Tadalist**
  - **General Use Cases**
- Ajax Architecture Pieces
- Ajax Usability
- Doing JavaScript Right
- RSS Reader Demo
- Warnings

Google Maps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File Edit View Go Bookmarks Tools Help
http://maps.google.com/
Go
Java TSS WebLogs AdigiWiki Bank BBC 5 CC Telegraph TinyURL UAL del.icio.us post Ta-da
Search Web Alerts Bookmarks My Yahoo! Reference Movies TV Yellow Pages Maps
Google Maps BETA
Maps Local Search Directions
Search
Help
Send Feedback
Maps
State Park
Dane County Regional Airport
Lake Mendota
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Madison
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W Beltline Hwy
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pubs in madison, wi

A Bullwinkle's Pub
(608) 257-1122 - 0.2 mi E

B Pub the
(608) 256-2464 - 0.4 mi E

C Big Ten Pub: Burgers & Sandwiches Carry Out Available
(608) 251-6375 - 0.5 mi SW

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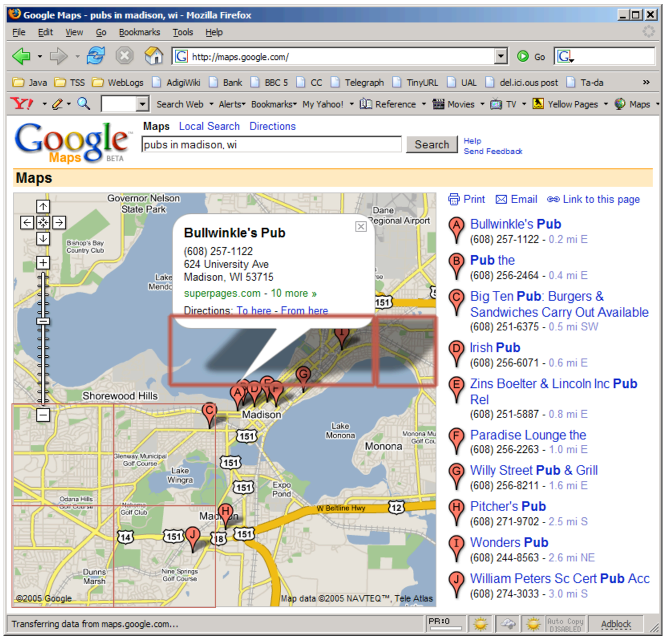
(608) 244-8563 - 2.6 mi NE

J William Peters Sc Cert Pub Acc
(608) 274-3033 - 3.0 mi S

- Map Pane
- Push Pins
- Shadows
- Scrolling

Google Maps: Placing items



Google Maps - pubs in madison, wi - Mozilla Firefox

http://maps.google.com/

pubs in madison, wi

Bullwinkle's Pub
(608) 257-1122
624 University Ave
Madison, WI 53715
superpages.com - 10 more »
Directions: To here - From here

A Bullwinkle's Pub (608) 257-1122 - 0.2 mi E
B Pub the (608) 256-2464 - 0.4 mi E
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Transferring data from maps.google.com...

File Edit View Go Bookmarks Tools Help
Go
Java TSS WebLogs AdigiWiki Bank BBC 5 CC Telegraph TinyURL UAL del.icio.us post Ta-da
Search Web Alerts Bookmarks My Yahoo! Reference Movies TV Yellow Pages Maps
Google Maps BETA
Maps Local Search Directions
Search
Help
Send Feedback
Maps
Print Email Link to this page
Governor Nelson State Park
Dane Regional Airport
Bishop's Bay Country Club
Shorewood Hills
Madison
Lake Monona
Monona
Lake Wingra
Expo Pond
W Beltline Hwy
Dunns Marsh
Nine Springs Golf Course
©2005 Google
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PR:0
Auto Copy DISABLED
Adblock

- Images absolutely placed
- 8 bit alpha channel PNGs
- Shadows
  - Two images
- Scrolling
  - 128x128 panels
  - Infinite scroller

Google Maps: Talking to Server

- Google Maps keeps talking back to get more panes
  - Fixed URL for caching

```
http://mt.google.com/mt?v=.1&x={x tile index}&y={y tile
   index}=2&zoom={zoom level}
```

- Google Maps also talks back to do searches via an iframe
  - Why an iframe? Back button saver

```
http://maps.google.com/maps?q=atlanta&z=13&sll=37.062500%2C-
   95.677068&sspn=37.062500%2C80.511950&output=js
```

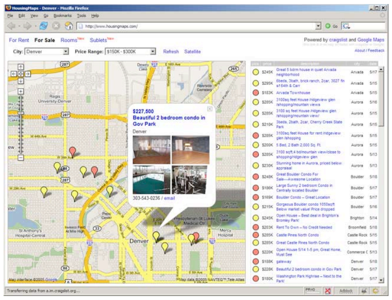
```
function load() {
   if (window.parent && window.parent._load) {
     window.parent._load({big chunk of XML}, window.document);
   }
}
```

Google Maps: Becomes a platform

- When you get into this world, you are building a platform
- If you are lucky, there will be a ***<INSERT PROJECT> Hacks*** book on its way
- Now your users, are no longer passive consumers of your service, but they are actively developing on top of it!

http://www.housingmaps.com

http://libgmail.sourceforge.net

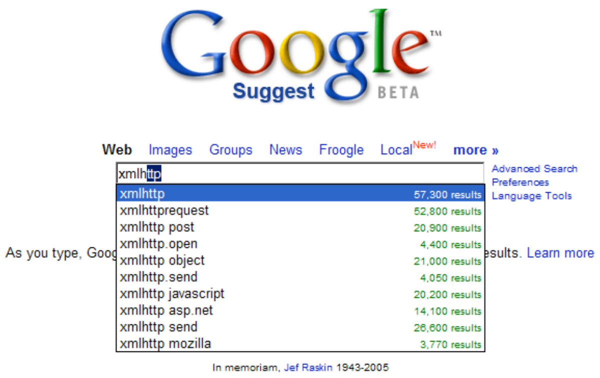


Bookmarklets go crazy!

http://weblog.infoworld.com/udell/2005/02/28.html#a1186

Live Search: Google Suggest

- Aim: Let's you know what people are searching
- Helps with spelling mistakes
- Gets you to popular content
- Uses XHR to call back to server and populates drop down div



xmlhttp

xmlhttp	57,300 results
xmlhttprequest	52,800 results
xmlhttp post	20,900 results
xmlhttp.open	4,400 results
xmlhttp object	21,000 results
xmlhttp.send	4,050 results
xmlhttp javascript	20,200 results
xmlhttp asp.net	14,100 results
xmlhttp send	26,600 results
xmlhttp mozilla	3,770 results

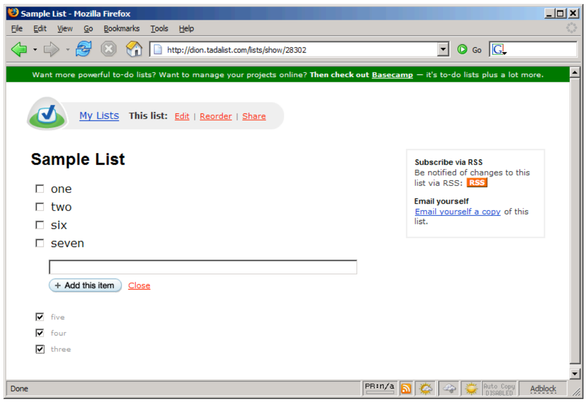
As you type, Goog esults. Learn more

In memoriam, Jef Raskin 1943-2005

eval(http.responseText)

TadaList

- Todo List manager
- Dynamically moves between states
- Easy in place adding



Sample List - Mozilla Firefox

File Edit View Go Bookmarks Tools Help
http://dion.tadalist.com/lists/show/28302
Go

Want more powerful to-do lists? Want to manage your projects online? **Then check out Basecamp** — it's to-do lists plus a lot more.

My Lists **This list:** Edit | Reorder | Share

Sample List

- □ one
- □ two
- □ six
- □ seven

+ Add this item Close

- ☑ five
- ☑ four
- ☑ three

Subscribe via RSS
Be notified of changes to this list via RSS: RSS

Email yourself
Email yourself a copy of this list.

- Doesn't have in place editing

TadaList: Toggle Time

```
 <tr id="185240">
   <td class="check"><input type="checkbox"
onClick="toggle_item(this, this.parentNode.parentNode);"></td>
   <td class="itemtext">
     <span class="movement_control" style="display: none">…
   </td>
</tr>
```

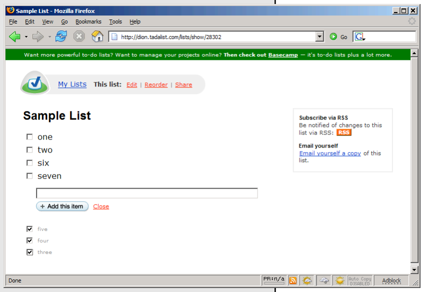
```
function toggle_item(checkbox, item) {
  xml_request(toggle_url + item.id + '?completed=' + (checkbox.checked ? 1 : 0));
  switch_lists(item, checkbox.checked);

  if (movement_controls_on) { toggleMovementControls(); }
  changed_list = true;

  toggle_reorder_link(checkbox.checked);
  toggle_delete_link(checkbox.checked);

  item.children[1].id = 'fade';
  fadeIn(7);

  if (parent_table_of_a_row(item).id == "completed_items") {
    checkbox.checked = true;
  } else {
    checkbox.checked = false;
  }
}
```



Sample List - Mozilla Firefox

Want more powerful to-do lists? Want to manage your projects online? **Then check out Basecamp** — it's to-do lists plus a lot more.

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+ Add this item Close

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Subscribe via RSS
Be notified of changes to this list via RSS: RSS

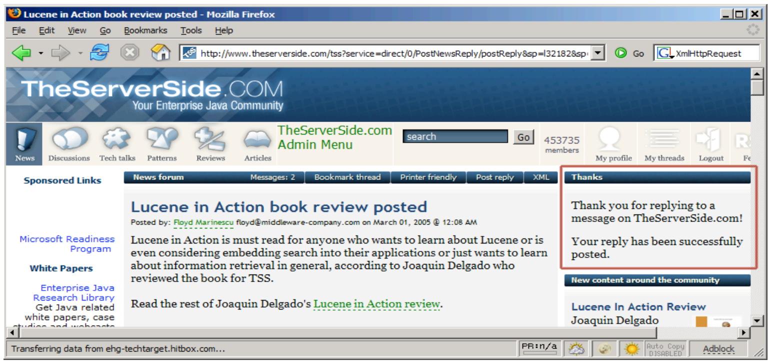
Email yourself
Email yourself a copy of this list.

General Solutions

- There are many areas in which Ajax fits in, including:
  - Generally: CRUD on the DOM
  - Feedback messages
  - Admin Features
  - Updating Calculations
  - Portal

Feedback messages

- Whenever you want to update something on the server and just say “oh, I did it”, why re-render the page that you are on if you don’t need too?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Patterns
Reviews
Articles
TheServerSide.com Admin Menu
search
Go
453735 members
My profile
My threads
Logout
News forum
Messages: 2
Bookmark thread
Printer friendly
Post reply
XML
Thanks
Sponsored Links
Microsoft Readiness Program
White Papers
Enterprise Java Research Library
New content around the community

Lucene in Action book review posted

Posted by: Floyd Marinescu floyd@middleware-company.com on March 01, 2005 @ 12:08 AM

Lucene in Action is must read for anyone who wants to learn about Lucene or is even considering embedding search into their applications or just wants to learn about information retrieval in general, according to Joaquin Delgado who reviewed the book for TSS.

Read the rest of Joaquin Delgado's Lucene in Action review.

Thank you for replying to a message on TheServerSide.com!

Your reply has been successfully posted.

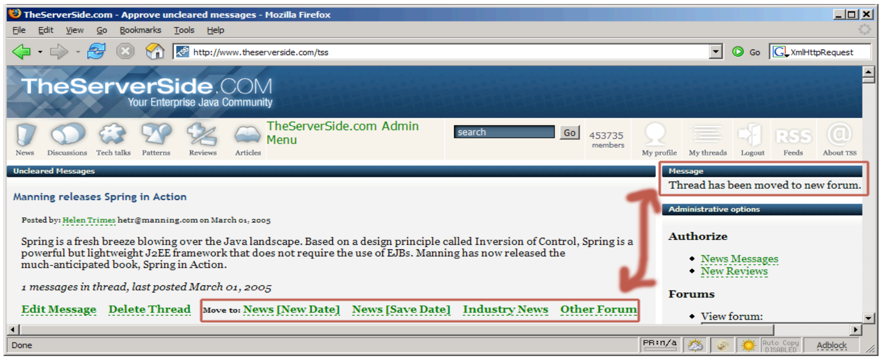
Get Java related white papers, case

Lucene In Action Review
Joaquin Delgado

Transferring data from ehg-techtarget.hitbox.com...

Deleting from the Admin Panel

- When you move something off of your pane (via move/delete) why re-render when you can just delete that element from the DOM?


TheServerSide.com - Approve uncleared messages - Mozilla Firefox
File Edit View Go Bookmarks Tools Help
http://www.theserverside.com/tss
Go
XmlHttpRequest
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Tech talks
Patterns
Reviews
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Go
453735 members
My profile
My threads
Logout
RSS Feeds
About TSS
Done
PR:n/a
Auto Copy DISABLED
Adblock

Uncleared Messages

Manning releases Spring in Action

Posted by: Helen Trimes hetr@manning.com on March 01, 2005

Spring is a fresh breeze blowing over the Java landscape. Based on a design principle called Inversion of Control, Spring is a powerful but lightweight J2EE framework that does not require the use of EJBs. Manning has now released the much-anticipated book, Spring in Action.

1 messages in thread, last posted March 01, 2005

Edit Message Delete Thread Move to: News [New Date] News [Save Date] Industry News Other Forum

Message

Thread has been moved to new forum.

Administrative options

Authorize

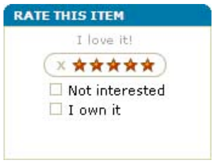
- News Messages
- New Reviews

Forums

- View forum:

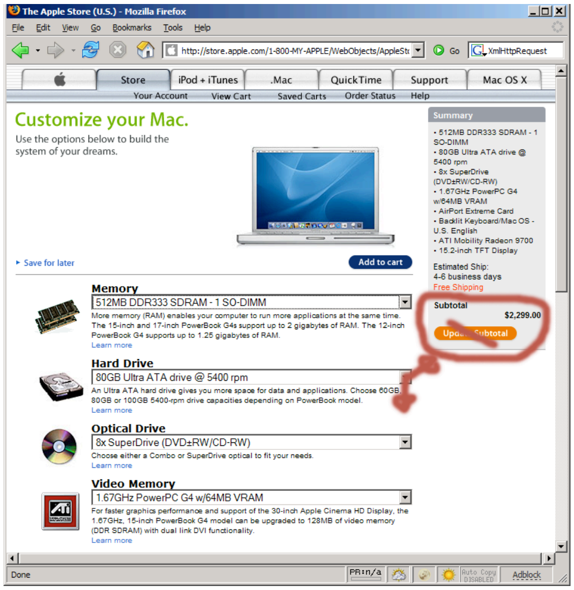
Recalculate

- Why not re-calculate on the fly?
- Why re-render from the server?



☐ Not interested
☐ I own it

amazon.com



Customize your Mac.

Use the options below to build the system of your dreams.

Summary

- 512MB DDR333 SDRAM - 1 SO-DIMM
- 80GB Ultra ATA drive @ 5400 rpm
- 8x SuperDrive (DVD±RW/CD-RW)
- 1.67GHz PowerPC G4 w/64MB VRAM
- AirPort Extreme Card
- Backlit Keyboard/Mac OS - U.S. English
- ATI Mobility Radeon 9700
- 15.2-inch TFT Display

Estimated Ship:
4-6 business days
Free Shipping

Subtotal $2,299.00

Memory

512MB DDR333 SDRAM - 1 SO-DIMM

More memory (RAM) enables your computer to run more applications at the same time. The 15-inch and 17-inch PowerBook G4s support up to 2 gigabytes of RAM. The 12-inch PowerBook G4 supports up to 1.25 gigabytes of RAM.

Hard Drive

80GB Ultra ATA drive @ 5400 rpm

An Ultra ATA hard drive gives you more space for data and applications. Choose 60GB, 80GB or 100GB 5400-rpm drive capacities depending on PowerBook model.

Optical Drive

8x SuperDrive (DVD±RW/CD-RW)

Choose either a Combo or SuperDrive optical to fit your needs.

Video Memory

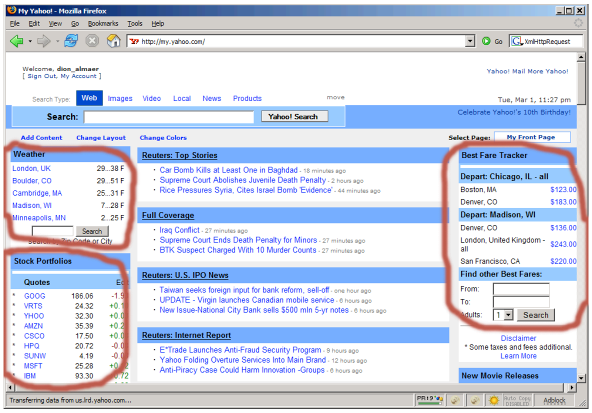
1.67GHz PowerPC G4 w/64MB VRAM

For faster graphics performance and support of the 30-inch Apple Cinema HD Display, the 1.67GHz, 15-inch PowerBook G4 model can be upgraded to 128MB of video memory (DDR SDRAM) with dual link DVI functionality.

Note: there may be valid reasons!

Portal / Componentized

- In a portal, really dealing with separate lifecycles for each component.
- Now each component can truly handle its own work without interfering with other pieces.



Welcome, **dion_almaer**
[Sign Out, My Account]

Tue, Mar 1, 11:27 pm

Celebrate Yahoo!'s 10th Birthday!

Weather

London, UK	29...38 F
Boulder, CO	29...51 F
Cambridge, MA	25...31 F
Madison, WI	7...28 F
Minneapolis, MN	2...25 F

search by Zip Code or City

Stock Portfolios

	Quotes		Edit
*	GOOG	186.06	-1.9
*	VRTS	24.32	+0.1
*	YHOO	32.30	+0.0
*	AMZN	35.39	+0.2
*	CSCO	17.50	+0.0
*	HPQ	20.72	-0.0
*	SUNW	4.19	-0.0
*	MSFT	25.28	+0.2
*	IBM	93.30	0.72

Reuters: Top Stories

- Car Bomb Kills at Least One in Baghdad - 18 minutes ago
- Supreme Court Abolishes Juvenile Death Penalty - 2 hours ago
- Rice Pressures Syria, Cites Israel Bomb 'Evidence' - 44 minutes ago

Full Coverage

- Iraq Conflict - 27 minutes ago
- Supreme Court Ends Death Penalty for Minors - 27 minutes ago
- BTK Suspect Charged With 10 Murder Counts - 27 minutes ago

Reuters: U.S. IPO News

- Taiwan seeks foreign input for bank reform, sell-off - one hour ago
- UPDATE - Virgin launches Canadian mobile service - 6 hours ago
- New Issue-National City Bank sells $500 mln 5-yr notes - 6 hours ago

Reuters: Internet Report

- E*Trade Launches Anti-Fraud Security Program - 9 hours ago
- Yahoo Folding Overture Services Into Main Brand - 12 hours ago
- Anti-Piracy Case Could Harm Innovation -Groups - 6 hours ago

Best Fare Tracker

Depart: Chicago, IL - all	
Boston, MA	$123.00
Denver, CO	$183.00
Depart: Madison, WI	
Denver, CO	$136.00
London, United Kingdom - all	$243.00
San Francisco, CA	$220.00

Find other Best Fares:

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Learn More

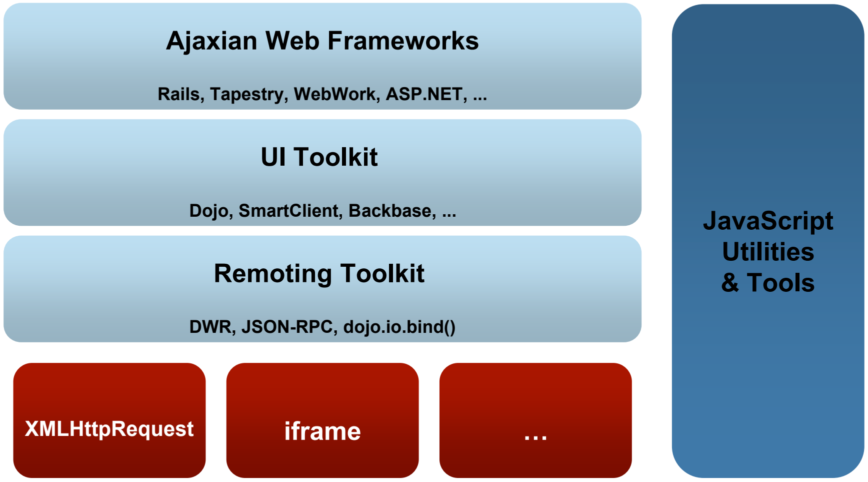
New Movie Releases

Transferring data from us.lrd.yahoo.com...

Roadmap

- What is Ajax?
- Who is using this now?
- **Ajax Architecture Pieces**
  - **Ajax Engine Abstractions**
  - **Remoting Toolkits**
  - **UI Toolkits**
  - **Ajaxian Web Frameworks**
- Ajax Usability
- Doing JavaScript Right
- RSS Reader Demo
- Conclusion / Warnings

Ajax Architecture



Ajaxian Web Frameworks

Rails, Tapestry, WebWork, ASP.NET, ...

UI Toolkit

Dojo, SmartClient, Backbase, ...

Remoting Toolkit

DWR, JSON-RPC, dojo.io.bind()

XMLHttpRequest

iframe

...

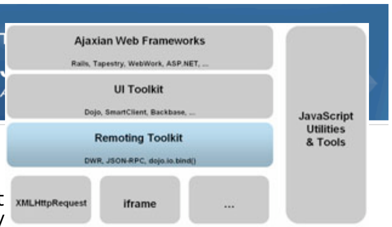
JavaScript Utilities & Tools

Dojo Toolkit

- The Dojo Toolkit has a nice Ajax abstraction
  - Handles the back button
  - Abstraction above XmlHttpRequest / iframes / etc
  - Error handling

```
function divChange() {
        var divToChange =
document.getElementById("divToChange");
        var lastContent;

        dojo.io.bind({
                url: "/samples/dojoSampleText.txt",
                load: function(type, data, evt){
                        divToChange.innerHTML = data;
                },
                error: function(type, error) { alert(error) },
                backButton: function() {
                        lastContent = divToChange.firstChild.nodeValue;
                        divToChange.innerHTML = 'before change.';
                },
                forwardButton: function() {
                        divToChange.innerHTML = lastContent;
                },
                changeURL: true,
                mimetype: "text/plain"
        });
}
```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JavaScript Utilities & Tools

DWR: Direct Web Remoting

- DWR is a way of calling Java code on the server directly from Javascript in the browser.
  - Speaks to a web app
  - Helpful abstractions for the Java and JavaScript side

HTML

```
Credit Card #:
  <input id="cardnum" type="t
onchange="checkCardNum()"/
  <span id="cardnum-error" class="error"></span>
```

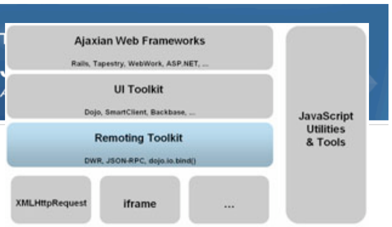
JavaScript

```
<script type='text/javascript'
src='/dwr/dwr/interface/CreditCardValidator.js'></script>
<script type='text/javascript' src='/dwr/dwr/engine.js'></script>
<script type='text/javascript' src='/dwr/dwr/util.js'></script>

function checkCardNum() {
  CreditCardValidator.isValid(replyCardNum,
DWRUtil.getValue("cardnum"));
}
```

Servlet: web.xml

```
<servlet>
  <servlet-name>dwr-invoker</servlet-name>
  <servlet-class>uk.ltd.getahead.dwr.DWRServlet</servlet-class>
</servlet>
<servlet-mapping>
  <servlet-name>dwr-invoker</servlet-name>
  <url-pattern>/dwr/*</url-pattern>
</servlet-mapping>
```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JavaScript Utilities & Tools

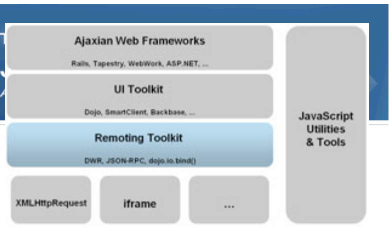
JSON: JavaScript Object Notation

- JSON (JavaScript Object Notation) is a lightweight data-interchange format.
- Bindings for Java, JavaScript, Ruby, Perl, C, …
- No parsing required on the JavaScript side
- Built on:
  - Object, Array, String, Number, Boolean, null

```
[
 { “name”: “Dion Almaer”,
   “age” : 12,
   “pets”: [“sandy”, “fluffy”]
 },
 { “name”: “Ben Galbraith”,
   “age” : 11,
 }
]
```

The X in Ajax: *(Not just XML)*

```
HTML
JavaScript / JSON
SVG?
```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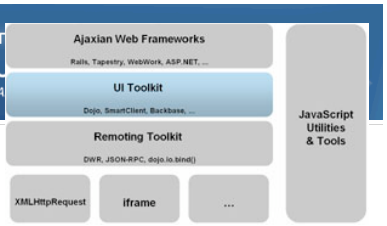
JavaScript Utilities & Tools

JSON-RPC

- Think XML-RPC but with JSON instead of XML ☺
- Java ORB available

```
function onLoad() {
    jsonrpc = new JSONRpcClient("/jsonrpc/JSON-RPC");
}

function clickHello() {
    var whoNode = document.getElementById("who");
    var result = jsonrpc.hello.sayHello(whoNode.value);
    alert("The server replied: " + result);
}
```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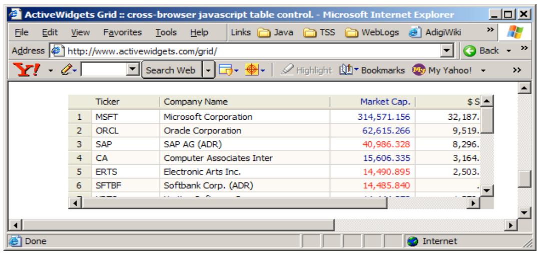
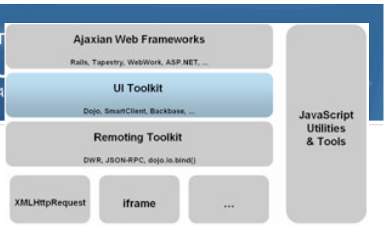
JavaScript Utilities & Tools

UI Toolkit

- JavaScript Widgets have been around for a long time:
  - ActiveWidgets (http://www.activewidgets.com/grid/)
  - Backbase (http://www.backbase.com)
  - SmartClient (http://www.smartclient.com)
  - Dojo *(again)* (http://dojotoolkit.org)


ActiveWidgets Grid :: cross-browser javascript table control. - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Links Java TSS WebLogs AdigiWiki
Address http://www.activewidgets.com/grid/
Back
Search Web
Highlight
Bookmarks
My Yahoo!
Done
Internet

	Ticker	Company Name	Market Cap.	$ S
1	MSFT	Microsoft Corporation	314,571.156	32,187.
2	ORCL	Oracle Corporation	62,615.266	9,519.
3	SAP	SAP AG (ADR)	40,986.328	8,296.
4	CA	Computer Associates Inter	15,606.335	3,164.
5	ERTS	Electronic Arts Inc.	14,490.895	2,503.
6	SFTBF	Softbank Corp. (ADR)	14,485.840	.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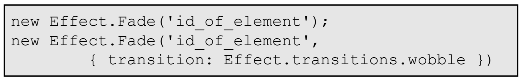
JavaScript Utilities & Tools

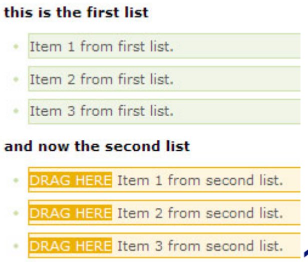
UI Toolkit

- Low level effects have been encapsulated in libraries:



```
new Effect.Fade('id_of_element');
new Effect.Fade('id_of_element',
        { transition: Effect.transitions.wobble })
```

- Scriptaculous:
  - http://script.aculo.us/visual-effects
  - Builds on Prototype effects
- Drag and Drop encapsulated for us

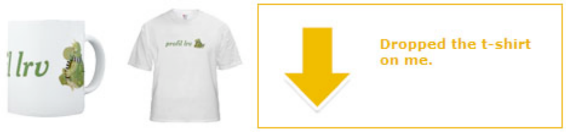


this is the first list

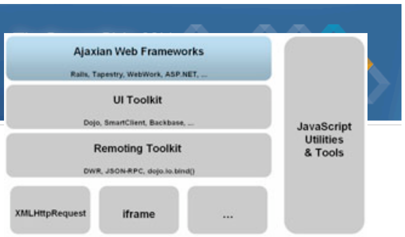
- Item 1 from first list.
- Item 2 from first list.
- Item 3 from first list.

and now the second list

- DRAG HERE Item 1 from second list.
- DRAG HERE Item 2 from second list.
- DRAG HERE Item 3 from second list.



Dropped the t-shirt on me.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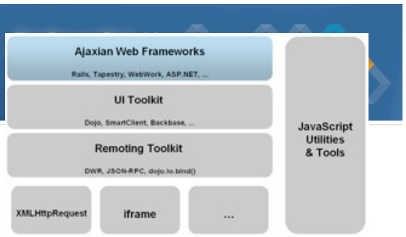
XMLHttpRequest
iframe
...
JavaScript Utilities & Tools

Web Frameworks

- Java Web Frameworks have a chance to offer a clean wrapper on the server-side
- Components:
  - Now components in the web frameworks can understand Ajax (JSON, or XML, or …)
- The various frameworks have a chance to help out developers working with the new medium

How does this fit in with Java web frameworks?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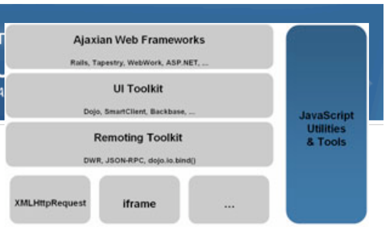
JavaScript Utilities & Tools

- This is happening right now:
  - **JavaServer Faces**
    - Ajaxian components to be released
    - Creator announced new components at JavaOne
    - AjaxFaces (http://www.ajaxfaces.com)
  - **WebWork2**
    - Top support for server-side validation via Ajax
    - Pub/Sub functionality, and much more
    - *Runs on top of DWR*
  - **Tapestry**
    - Ajaxian components released
    - TACOS: http://tacos.sourceforge.net/
    - Focus for Tapestry 4.1
  - **Struts/Shale**
  - **Echo2:** Heavily Ajax Based
  - **ASP.NET**
    - Has had support for Ajaxian components for awhile now
    - Microsoft Atlas Announced

JavaScript Utilities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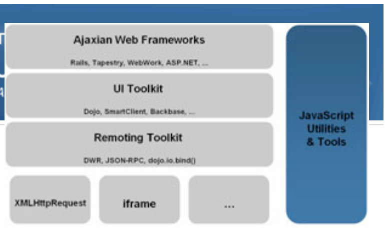
...
JavaScript Utilities & Tools

- There are many tools that you need to make life barable in JavaScript land:
  - **JavaScript Munging**
    - Jazmin / JavaScript Minifier (http://www.crockford.com/javascript/jsmin.html)
    - Obfuscator (http://www.shaneng.bobos.ca/#jso_description)
  - **Debugging**
    - Ajax Debugging Tool (http://blog.monstuff.com/archives/000252.html)
    - IE Leak Detector (http://blog.monstuff.com/archives/000252.html)
    - DOM Inspector (built into Mozilla, need to grab IE plugins)
    - TrimBreakpoint (http://trimpath.com/project/wiki/TrimBreakpoint)
  - **XML Munging**
    - Google AJAXSLT (http://goog-ajaxslt.sourceforge.net)
    - JSXML (http://sourceforge.net/projects/jsxml)
    - E4X
  - **Misc**
    - JSDoc (http://jsdoc.sourceforge.net/)
    - JsLint (http://www.crockford.com/javascript/lint.html)
  - **Unit Testing**
    - JsUnit (http://sourceforge.net/projects/jsunit)
    - Selenium (http://selenium.thoughtworks.com)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JavaScript Utilities & Tools

JsUnit: Testing in the client

- The Test First/Driven folks will be happy to know that they can write a few thousand lines of unit test code for their JavaScript too

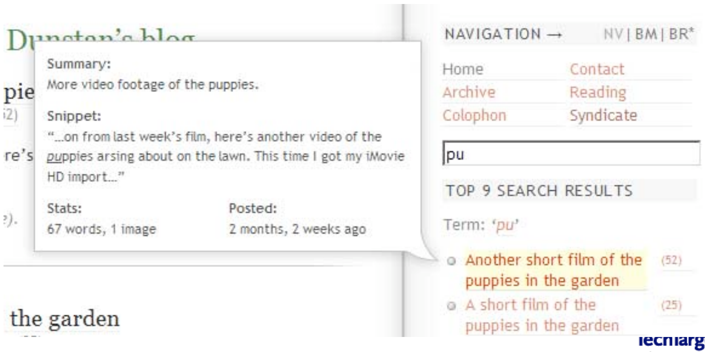
```
 <script language="javascript" src="jsUnitCore.js"></script>
 <script language="javascript" src="myJsScripts.js"></script>

 <script language="javascript">
    function testWithValidArgs() {
        assertEquals("2 times 3 plus 5 is 11", 11, multiplyAndAddFive(2, 3));
        assertEquals("Should work with negative numbers", -15,
multiplyAndAddFive(-4, 5));
    }
    function testWithInvalidArgs() {
        assertNull("A null argument should result in null",
multiplyAndAddFive(2, null));
        assertNull("A string argument should result in null",
multiplyAndAddFive(2, "a string"));
    }
    function testStrictReturnType() {
        assertNotEquals("Should return a number, not a string", "11",
multiplyAndAddFive(2, 3));
    }
    function testWithUndefinedValue() {
        assertNull("An undefined argument should result in null",
multiplyAndAddFive(2, JSUNIT_UNDEFINED_VALUE));
    }
  </script>
```

Selenium:
- New opensource project
- Test runner in your browser

Roadmap

- What is Ajax?
- Who is using this now?
- Ajax Approaches
- **Ajax Usability**
  - **Graceful failback**
  - **Better UI**
- JavaScript Right
- RSS Reader Demo
- Conclusion



Summary:
More video footage of the puppies.

Snippet:
"…on from last week's film, here's another video of the puppies arsing about on the lawn. This time I got my iMovie HD import…"

Stats: 67 words, 1 image
Posted: 2 months, 2 weeks ago

NAVIGATION → NV | BM | BR*

Home	Contact
Archive	Reading
Colophon	Syndicate

pu

TOP 9 SEARCH RESULTS

Term: 'pu'

- Another short film of the puppies in the garden (52)
- A short film of the puppies in the garden (25)

http://www.1976design.com/blog/

Graceful Failback?

- There is a lot of discussion on handling graceful failback
  - As always, it is a balance!
  - Are you using Ajax to do a few subtle things?
  - Are you building a crazy rich framework?
- Some helpful techniques
  - Sam Pullara has an interesting solution to try to help out
    - XPath + Ajax
  - CSS Selectors
    - http://ripcord.co.nz/behaviour/
  - HTTP 204

BAD

```
<li>
<a onclick="this.parentNode.removeChild(this)" href="#">
  Click me to delete me
</a>
</li>
```

BETTER

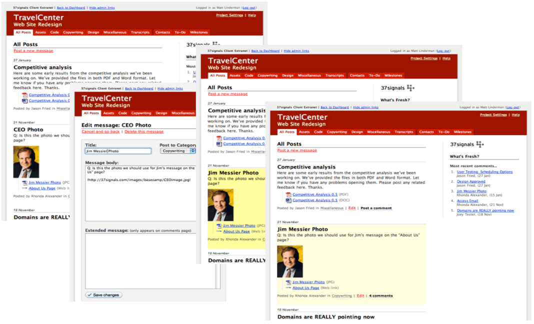
```
<ul id="example">
<li>
<a href="/someurl">Click me to delete me</a>
</li>
</ul>

var myrules = {
            '#example li' : function(el) {
el.onclick = function(){
            this.parentNode.removeChild(this);
            }
}
};

Behaviour.register(myrules);
```

Better Usability: Yellow Fade Technique

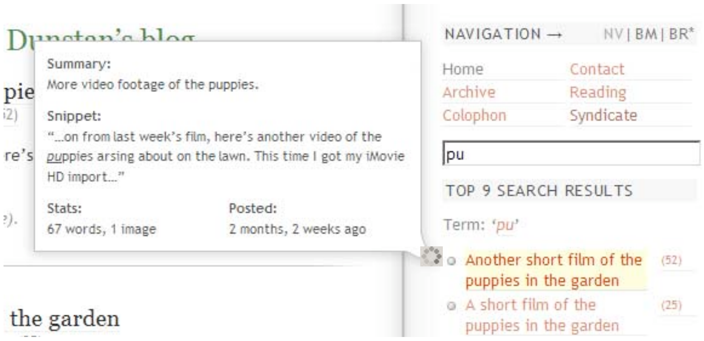
- This is an example of how you can make better usability



37 Signals pattern:
http://www.37signals.com/svn/archives/000558.php

Denoting Server Access

- Web users are trained to expect server access at certain points
- To help usability we need to give feedback when a piece of the page is hitting the server



Dunstan's blog

pie

2)

re's

).

the garden

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Roadmap

- What is Ajax?
- Who is using this now?
- Ajax Architecture Pieces
- Ajax Usability
- **Doing JavaScript Right**
  - **The language**
  - **Treating it right**
- RSS Reader Demo
- Conclusion / Warnings

JavaScript isn’t as bad as you think

- JavaScript got a bad rap
  - Buggy implementations
  - Copy ‘n paste reuse
  - Web hacking versus “programming”
- JavaScript is OO
  - Prototype-based OO versus class based
  - Everything is an object
  - Even functions

```
Number.prototype.toColorPart = function() {
  var digits = this.toString(16);
  if (this < 16) return '0' + digits;
  return digits;
}
```

- Spend the time to grok it

Treating JavaScript as a first class citizen

- JavaScript doesn’t get treated like our other programming assets on projects
- We need to change this:
  - Testing matters
  - Having releases of JavaScript matters
- I even created a Maven plugin that lets me define JavaScript dependencies

```
<dependency>
    <groupId>ajaxian</groupId>
    <artifactId>ajaxian-permissions</artifactId>
    <version>0.1</version>
   <type>js</type>
</dependency>
```

ECMAScript for XML (E4X)

- **Sick of DOM?**

```
xmlDocument.getElementsByTagName('city').item(0).firstChild.data;
```

- **ECMAScript for XML == first class citizenship for XML**

Create a DOM

```
var order = <order>
    <customer>
      <firstname>John</firstname>
      <lastname>Doe</lastname>
    </customer>
    <item>
       <description>Big Screen
Television</description>
       <price>1299.99</price>
       <quantity>1</quantity>
    </item>
</order>
```

Walk the XML tree a la XPath

```
// Construct the full customer name
var name = order.customer.firstname + "
" + order.customer.lastname;

// Calculate the total price
var total = order.item.price *
order.item.quantity;
```

JavaScript Templates

- Now the browser is doing a lot of work… how about using templates?

```
Hello ${customer.firstName|default:\"Mr.\"} ${customer.lastName}<br/>
Your recent orders are:
<ul>
  {for order in customer.getRecentOrders()}
    <li>${order.orderNum} - ${order.status|capitalize}:
${order.grandTotal}
        {if order.requestedShipDate < new Date().getTime() &&
order.status != \"shipped\"}
        Please contact customer service.
        {/if}
    </li>
  {forelse}
    <li>You have no orders yet. </li>
  {/for}
</ul>
```

AOP?

- Now we know that JavaScript is cool ;)

```
<script language=“text/javascript”>
Aspects.addBefore(this, "makeGreeting", aopizeAdvice);
alert(makeGreeting("world")); // Hello AOP world!

Aspects.addAfter(this, "makeGreeting", shoutAdvice);
alert(makeGreeting("world")); // HELLO AOP WORLD!

Aspects.addAround(this, "makeGreeting", ciaoAdvice);
alert(makeGreeting("world")); // Bye-bye!
</script>
```

```
Aspects = new Object();

Aspects.addBefore = function(obj, fname, before) {
    var oldFunc = obj[fname];
    obj[fname] = function() {
        return oldFunc.apply(this, before(arguments, oldFunc, this));
    };
};

Aspects.addAfter = function(obj, fname, after) {
    var oldFunc = obj[fname];
    obj[fname] = function() {
        return after(oldFunc.apply(this, arguments), arguments, oldFunc, this);
    };
};

Aspects.addAround = function(obj, fname, around) {
    var oldFunc = obj[fname];
    obj[fname] = function() {
        return around(arguments, oldFunc, this);
    };
};
```

SOAP Access?

```
search="Word"
 xmlhttp.open("POST", "http://api.google.com/search/beta2",true);
 xmlhttp.onreadystatechange=function() {
  if (xmlhttp.readyState==4) {
   alert(xmlhttp.responseText)
  }
 }
 xmlhttp.setRequestHeader("Man", "POST http://api.google.com/search/beta2
HTTP/1.1")
 xmlhttp.setRequestHeader("MessageType", "CALL")
 xmlhttp.setRequestHeader("Content-Type", "text/xml")

 xmlhttp.send("<?xml version='1.0' encoding='UTF-8'?>"+"\n\n"+"<SOAP-
ENV:Envelope"+
       ' xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"'+
       ' xmlns:xsi="http://www.w3.org/1999/XMLSchema-instance"'+
       ' xmlns:xsd="http://www.w3.org/1999/XMLSchema">'+
       '<SOAP-ENV:Body><ns1:doGoogleSearch'+
       ' xmlns:ns1="urn:GoogleSearch"'+
       ' SOAP-ENV:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/">'+
       '<key xsi:type="xsd:string">GOOGLEKEY</key> <q'+
           …
'</ns1:doGoogleSearch>'+
    '</SOAP-ENV:Body></SOAP-ENV:Envelope>')
```

Google™

- REST fits in nicely ☺ **SOAP is possible :/**

JavaScript Survival Tips

- You will miss your IDE(A)
  - Code completion etc
- Packaging as source only
  - GoogleBrowser will offer a binary version? ☺
- Debugging: tougher
  - Use debugging tools in Firefox / MS debugger
  - Watch out for misspelling variable names
- Packaging of libraries
  - Leads to hacking and many foo.js 'libraries'
  - Be wary of namespace
- innerHTML property will well-form any bad HTML

JavaScript Limitations: Signing Code

- Limitation: "Can't request other resources on the web"
  - WRONG: You can, as long as you sign your code
  - Mozilla is anal about this security
  - IE? Not so much ☺

Limitation: "But I want to read **from the file system!"**
WRONG: You can, as long as you sign your code

Limitation: "But I want to write **to the file system!"**
WRONG: You can, as long as you sign your code

JavaScript Limitations: Ugly Security Code

- Need to get permission in every function
  - Mozilla reverts your priv when it comes out of the function

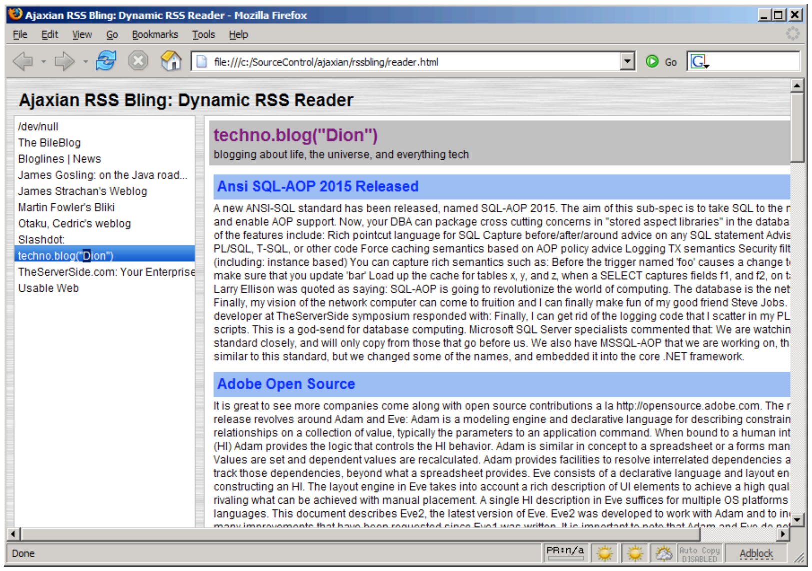
```
try {
   if (netscape.security.PrivilegeManager.enablePrivilege) {
      netscape.security.PrivilegeManager.enablePrivilege('UniversalBrowserRead');
   }
} catch (ex) { // eat it
}
```

```
function applyPriviledge(priviledge, functionCallback) {
  try {
    if (netscape.security.PrivilegeManager.enablePrivilege) {
      netscape.security.PrivilegeManager.enablePrivilege(priviledge);
    }
  } catch (ex) { // eat it
  }
  functionCallback()
}
```

Roadmap

- What is Ajax?
- Who is using this now?
- Ajax Approaches
- Doing JavaScript Right
- Ajax Usability
- **RSS Reader Demo**
- Conclusion / Warnings

RSS Bling


Ajaxian RSS Bling: Dynamic RSS Reader - Mozilla Firefox
File Edit View Go Bookmarks Tools Help
file:///c:/SourceControl/ajaxian/rssbling/reader.html
Go
Done
PR:n/a
Auto Copy DISABLED
Adblock

Ajaxian RSS Bling: Dynamic RSS Reader

/dev/null
The BileBlog
Bloglines | News
James Gosling: on the Java road...
James Strachan's Weblog
Martin Fowler's Bliki
Otaku, Cedric's weblog
Slashdot:
techno.blog("Dion")
TheServerSide.com: Your Enterprise
Usable Web

techno.blog("Dion")
blogging about life, the universe, and everything tech

Ansi SQL-AOP 2015 Released

A new ANSI-SQL standard has been released, named SQL-AOP 2015. The aim of this sub-spec is to take SQL to the r
and enable AOP support. Now, your DBA can package cross cutting concerns in "stored aspect libraries" in the databa
of the features include: Rich pointcut language for SQL Capture before/after/around advice on any SQL statement Advis
PL/SQL, T-SQL, or other code Force caching semantics based on AOP policy advice Logging TX semantics Security filt
(including: instance based) You can capture rich semantics such as: Before the trigger named 'foo' causes a change t
make sure that you update 'bar' Load up the cache for tables x, y, and z, when a SELECT captures fields f1, and f2, on t
Larry Ellison was quoted as saying: SQL-AOP is going to revolutionize the world of computing. The database is the net
Finally, my vision of the network computer can come to fruition and I can finally make fun of my good friend Steve Jobs.
developer at TheServerSide symposium responded with: Finally, I can get rid of the logging code that I scatter in my PL
scripts. This is a god-send for database computing. Microsoft SQL Server specialists commented that: We are watchin
standard closely, and will only copy from those that go before us. We also have MSSQL-AOP that we are working on, th
similar to this standard, but we changed some of the names, and embedded it into the core .NET framework.

Adobe Open Source

It is great to see more companies come along with open source contributions a la http://opensource.adobe.com. The r
release revolves around Adam and Eve: Adam is a modeling engine and declarative language for describing constrain
relationships on a collection of value, typically the parameters to an application command. When bound to a human int
(HI) Adam provides the logic that controls the HI behavior. Adam is similar in concept to a spreadsheet or a forms man
Values are set and dependent values are recalculated. Adam provides facilities to resolve interrelated dependencies a
track those dependencies, beyond what a spreadsheet provides. Eve consists of a declarative language and layout en
constructing an HI. The layout engine in Eve takes into account a rich description of UI elements to achieve a high qual
rivaling what can be achieved with manual placement. A single HI description in Eve suffices for multiple OS platforms
languages. This document describes Eve2, the latest version of Eve. Eve2 was developed to work with Adam and to in
many improvements that have been requested since Eve1 was written. It is important to note that Adam and Eve do not

Roadmap

- What is Ajax?
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- RSS Reader Demo
- **Conclusions / Warnings**
  - **Issues we found**

Conclusion

- Don’t use for the technologies sake
- Understand usability testing
  - We have been trained with the SUBMIT button
  - Can’t redefine the way a UI works, has to be natural
- Understand restrictions
  - Implicit JavaScript restrictions
  - Programming constructs that you wish you had
- Still in creative mode
  - Many frameworks coming out there
  - Will take time to work out the better solutions
- Still learning

ajaxian.com

- Ajax is changing at a rapid rate
- Ben and Dion try to keep you up to date at:

Ajaxian.com

Dion and Ben's AJaX Mission