



# JavaOne™

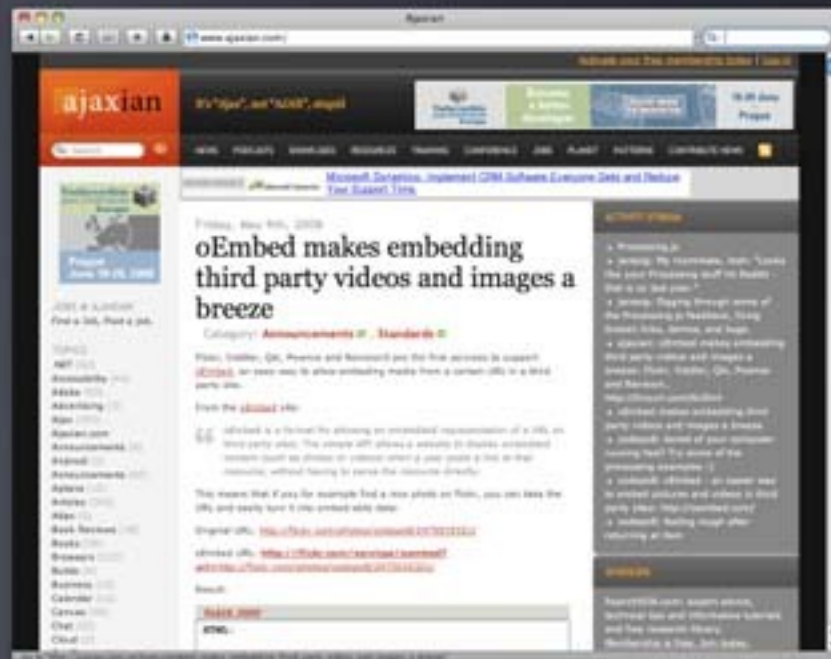
[java.com.sun.com/javaone](http://java.com.sun.com/javaone)

## What's New in Ajax

Ben Galbraith and Dion Almaer  
Founders, Ajaxian.com

TS-6807







**JOBS @ AJAXIAN**  
Find a Job, Post a job.

## TOPICS

.NET (62)  
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ADVERTISEMENT Microsoft Dynamics [Microsoft Dynamics: Implement CRM Software Everyone Gets and Reduce Your Support Time.](#)

Friday, May 9th, 2008

## oEmbed makes embedding third party videos and images a breeze

Category: [Announcements](#) , [Standards](#)

Flickr, Viddler, Qik, Pownc and Revision3 are the first services to support [oEmbed](#), an easy way to allow embedding media from a certain URL in a third party site.

From the [oEmbed](#) site:

“oEmbed is a format for allowing an embedded representation of a URL on third party sites. The simple API allows a website to display embedded content (such as photos or videos) when a user posts a link to that resource, without having to parse the resource directly.

This means that if you for example find a nice photo on flickr, you can take the URL and easily turn it into embed-able data:

Original URL: <http://flickr.com/photos/codepo8/2475016321/>

oEmbed URL: <http://flickr.com/services/oembed?url=http://flickr.com/photos/codepo8/2475016321/>

Result:

## PLAIN TEXT

HTML:

## ACTIVITY STREAM

- Processing.js
- jerjesig: My roommate, Josh: "Looks like your Processing stuff hit Reddit - that is so last year."
- jerjesig: Digging through some of the Processing.js feedback, fixing broken links, demos, and bugs.
- ajaxian: oEmbed makes embedding third party videos and images a breeze: Flickr, Viddler, Qik, Pownc and Revision.. <http://tinyurl.com/6x5hnl>
- oEmbed makes embedding third party videos and images a breeze
- codepo8: bored of your computer running fast? Try some of the processing examples :)
- codepo8: oEmbed - an easier way to embed pictures and videos in third party sites: <http://oembed.com/>
- codepo8: feeling rough after returning at 4am

## SPONSORS

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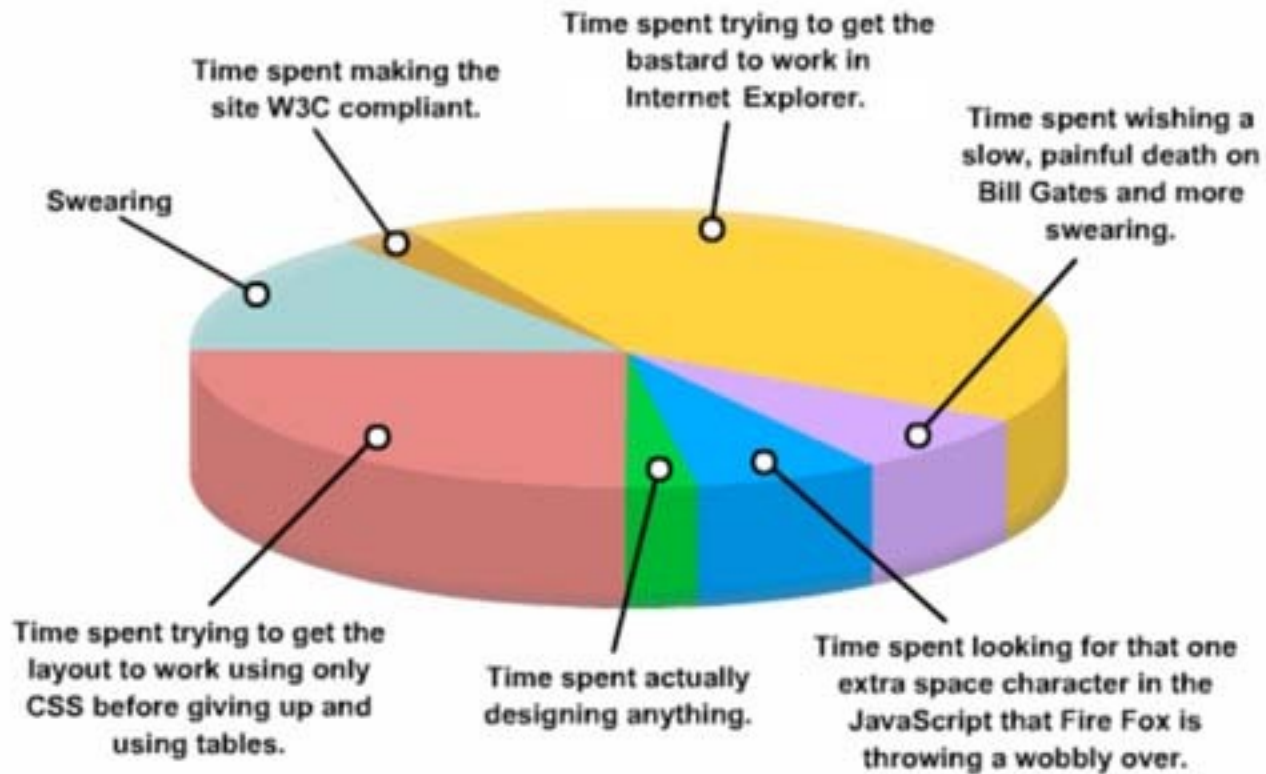








# The Breakdown of Modern Web Development



**Great User Experience**  
**Great Developer Experience**

Great Science  
Great Learning Experience

**The Future!**



*The Web didn't used to be a beautiful place...*

301 Fábulas de Esopo en Español - Imprimelas individualmente y forma tu propio libro usando las páginas web.

## Fábulas de Esopo

Índice de  
**301**

Fábulas de Esopo  
en Español

- Portada para imprimir -



Baje gratuitamente sus 301 fábulas  
especialmente editadas  
y con ilustraciones a color.  
Presione aquí  
para ver detalles.

Gracias por su visita N°

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Cuentos de Hadas  
de los  
HERMANOS GRIMM



**EN ESPAÑOL**  
(en constante crecimiento)

Google

Búsqueda

Web www.edyd.com

**<--- GOOGLE:** para búsquedas en las fábulas de este sitio  
ingrese una o más palabras y luego presione "Búsqueda". Ej:  
*león zorra lobo perro hambre comida*  
Para búsquedas generales en la Web. Seleccione el botón "Web"

Prueba a CREAR tus propias nuevas palabras. Presiona aquí para ir a  
www.comohacer.edyd.com y adquiere un nuevo conocimiento y entretenimiento.

Algunos personajes que podrías encontrar: águila, cuervo, pastor, escarabajo, zorra, gallina, gallo, espio, leñador, serpiente, uva, cocodrilo, pantera, mono, perro, hivo, león, cangrejo, liebre, leona, oso, rana, buey, mosquito, ciervo, jabalí, delfín, asno, ratón, elefante, toro, lobo, camero, condem, cabra, grulla, caballo, oveja, ombre, almeja, comeja, culebra, ruiseñor, golondrina, comadreja, perdiz, caballo, mula, camello, becerro, víbora, cisne, gato, rata, ratón, milano, gaviota, alción, tordo, aloma, hormiga, murciélago, jilguero, alondra, caracol, cerdo, atún, mosca, ballena, caballa, langosta, castor, mujer, pájaro, aspid, tortuga, abeja, roble, granada, igüña, escorpión, grulla.

Última actualización: Octubre 20, 2006

**CUENTOS Y ENSAYOS  
D.R.O. MORALES**

[saludnatural.edyd.com](http://saludnatural.edyd.com)

Fundación Católica  
de Ayuda al Necesitado  
*Quizás Ud. pueda ayudarnos a ayudar*



**EL RINCON DEL MAESTRO.COM**

lecturas de alto contenido moral y educativo, para todos los miembros de la familia: niños, adolescentes, jóvenes, adultos y adultos mayores. También puede encontrarlas en librerías (no éstas de edyd.com) en diferentes formatos y representaciones según la imaginación de cada editor o cada casa editora.



# Apple Store

1-800-MY-APPLE | Chat

Search Store

Shop Mac

Shop iPod

Shop iPhone

## Similar Products



Brenthaven Trek  
Sleeve...



\$29.95



Incase Nylon  
Sling Pack...



\$89.95



Incase Hardshell  
Case for...



\$49.95



Shop Mac

Mac Accessories

Notebook Cases

## SwissGear Neon Backpack for 15" MacBook Pro

Created specially for the 15-inch MacBook Pro or smaller models, Neon features the meticulous attention to detail that distinguishes all SwissGear computer backpacks.

[Learn more](#)



[Enlarge Images](#)

### Customer Rating



(Based on 5 reviews)

[Read all reviews](#) | [Write a review](#)

## Overview

Built to the same stringent standards as the Genuine Swiss Army Knife, the SwissGear Neon backpack offers a special pocket that completely encloses and protects your 15-inch MacBook Pro. Its construction pays special attention to incorporating air-flow back padding and shock-absorbing shoulder straps, including two special ergonomic hand



Store

Mac

iPod + iTunes

iPhone

Downloads

Support

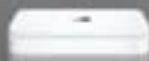
Search



AirPort Express



AirPort Extreme



Time Capsule



Keyboard



Mighty Mouse



Cinema Displays



Mac Pro

W-Fi Accessories Macs Applications Servers

Inbox

Folders

Folders

From	Subject	Sent on
Carrey Crown	Hey, look!	12/17/05
Rob Raxter	congratulations	12/18/05
Bob Baxter	lunch	12/17/05
Jack Jackson	lunch	12/17/05
Jill Jones	lunch	12/17/05

**From:** Carrey Crown  
**Subject:** Hey, look!  
**Date:** December 17, 2005

This is our new simple mail app. What do you think?

You can navigate around this demo with arrows and tabs ...

Regards,  
Carrey

Address Book



USER  
INTERFACE

**Ext JS** a foundation you can build on



*dijit*

impressive results, fast.

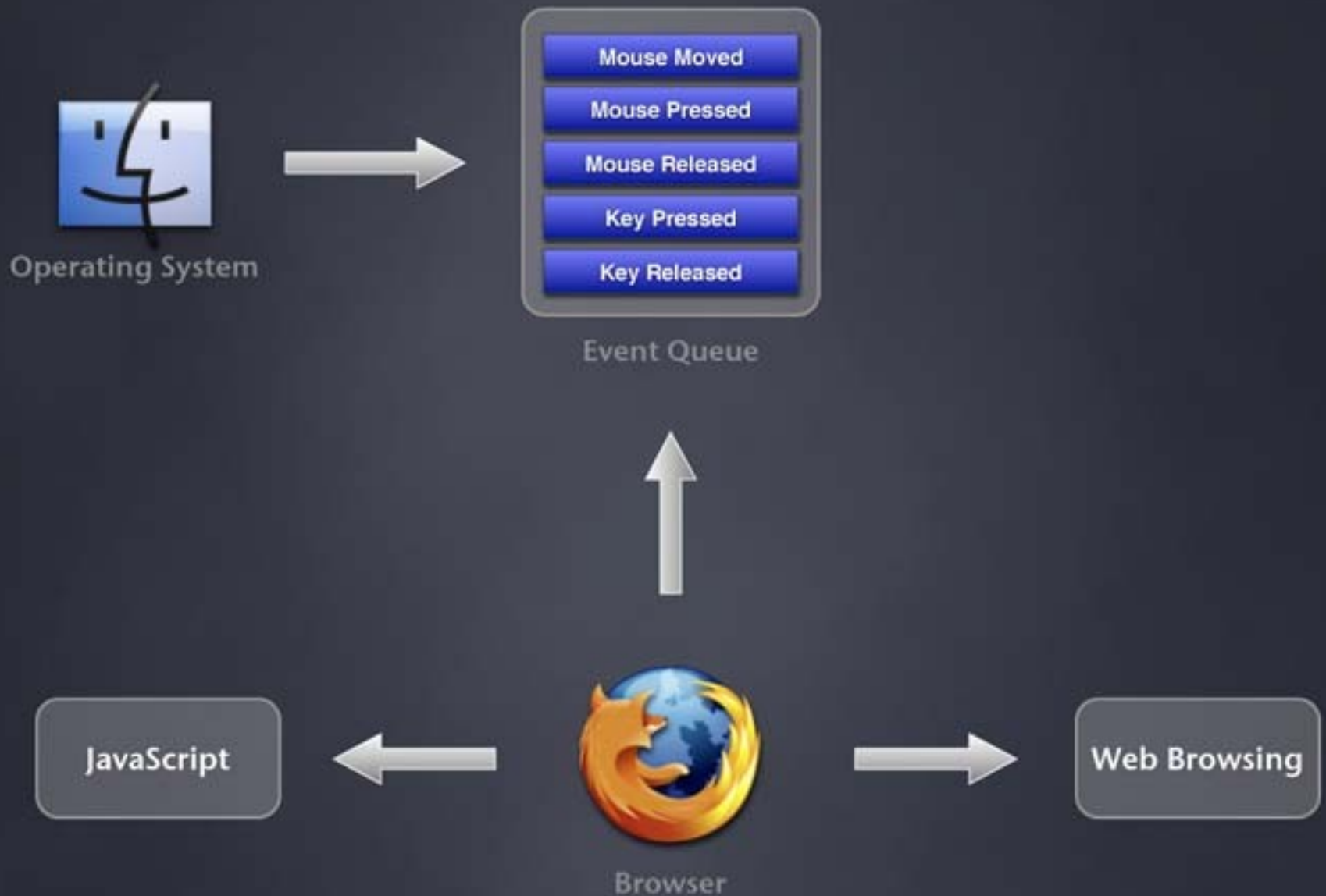
*script.aculo.us*  
it's about the user interface, baby!



Browser

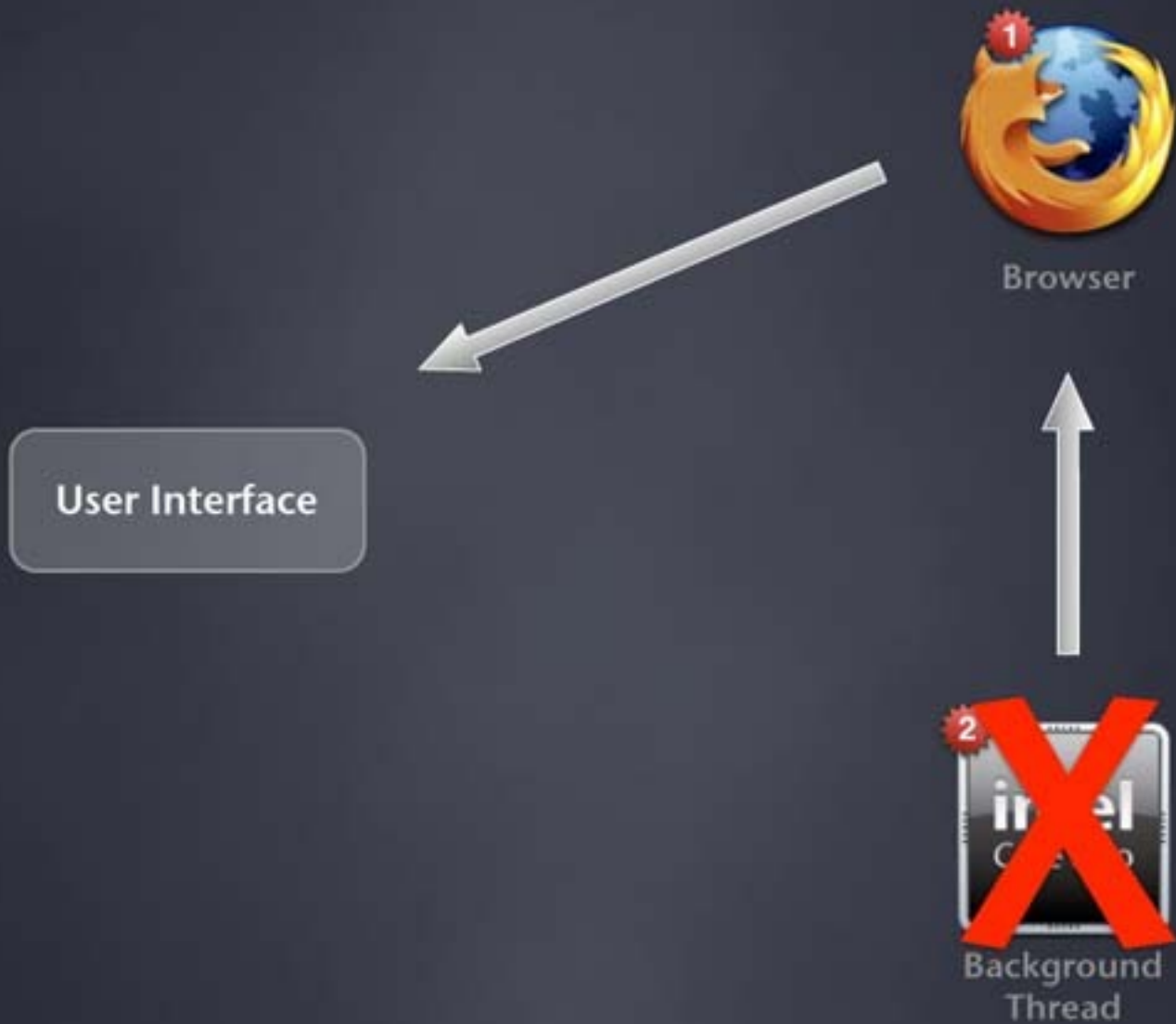






















**"You just got another email from your wife!"**





**"You just got another email from your wife!"**







**"You just got another email from your wife!"**







Fluid



Mozilla  
Prism



Adobe AIR



Fluid





Fluid



37signals'  
Campfire



Fluid



GreaseMonkey /  
GreaseKit



37signals'  
Campfire



Aptana Jaxer



Aptana Jaxer







Aptana Jaxer





Aptana Jaxer



Netscape LiveWire

1995



Browser



Server



Browser



JavaScript

Server



*In the beginning, there was JavaScript in the browser*

Browser



JavaScript



Java

Server



*Then Oak became Java and it entered the browser, too*

Browser



JavaScript

Server



Java

*Applets sucked, but Servlets caught on*



Browser



Server



JavaScript



Java

*Netscape tries to get JavaScript on the server*

Browser



JavaScript

Server



Java

*But, server-side JavaScript never caught on, and client-side JavaScript was mocked*

Browser



JavaScript

Server



Java

*Ajax comes along and JavaScript gets some respect once again*

Browser



JavaScript

Server



JavaScript



Java

*Then Aptana moves Ajax to the server*

Browser



JavaScript



Java/JavaScript  
Hybrid Monster

Server



JavaScript



Java

*Don't forget GWT, which uses Java and embedded JavaScript to emit client-side JavaScript*

## Browser



JavaScript



Java/JavaScript  
Hybrid Monster



Java

## Server

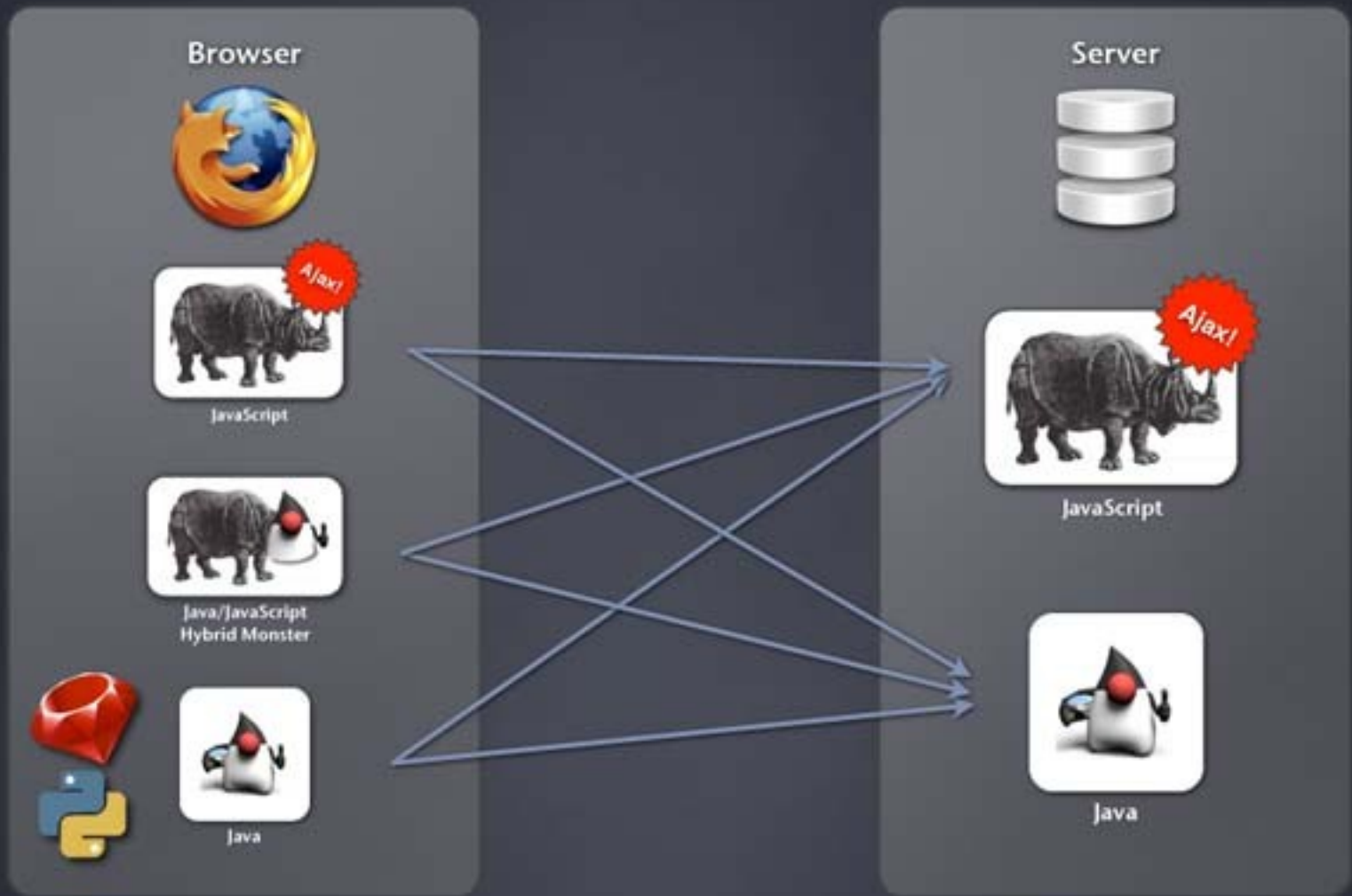


JavaScript



Java

*And now, finally, after nearly 15 years, we have a decent Java plug-in*



*And now, finally, after nearly 15 years, we have a decent Java plug-in*







# Amazon EC2

Elastic Compute Cloud





# Amazon EC2

Elastic Compute Cloud



# Amazon EC2

Elastic Compute Cloud



# Google App Engine



# Amazon EC2

Elastic Compute Cloud



# Google App Engine



# Aptana Cloud



Your Application

**Web Services**



Your Application



**Web Services**





Your Application

Area/Zip Code Lookup

Enter area code, zip code or city/state:

Zip Code: 53705 [View Map](#)

Area Code: 608 6:30 PM

City	State	County
MADISON	WI	DANE

[Collapse](#)

Web Services



Your Application

Code :

```
function jIRocks(session) {  
    alert('I really enjoyed your session: ' +  
session);  
}  
  
function jIRocks(session) {  
    alert('I really enjoyed your session: ' + session);  
}
```

Language : JavaScript

Output : HTML

Format

#### Area/Zip Code Lookup

Enter area code, zip code or city/state:

Search

Zip Code: 53705

[View Map](#)

Area Code: 608

6:30 PM

City	State	County
MADISON	WI	DANE

[Collapse](#)

Web Services



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    session);  
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```

Language : JavaScript

Output : HTML

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Enter area code, zip code or city/state:

53705

Search

Zip Code: 53705

Area Code: 608

[View Map](#)

6:30 PM

City	State	County
MADISON	WI	DANE

[Collapse](#)

bon allez je vais me détendre sur seesmic ... 36 minutes ago from im

@tybo nope avant je disais lucile  
/ benjamin about 1 hour ago from Good going I will relax on seesmic

@amblome comment ut vas ? about 1 hour ago from im in reply to Amblome

ouch about 1 hour ago from im

Language detected: fr

# Web Services

## How to Choose an Ajax Framework

## How to Choose an Ajax Framework



## How to Choose an Ajax Framework



*script.aculo.us*  
It's about the user experience, baby!



# The Old Taxonomy



# The Old Taxonomy

**Prototype**

Lightweight Ajax/JavaScript helpers

# The Old Taxonomy

## Prototype

Lightweight Ajax/JavaScript helpers

## GWT

Hate JavaScript? No problem, use Java.

# The Old Taxonomy

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Lightweight Ajax/JavaScript helpers

## GWT

Hate JavaScript? No problem, use Java.

## jQuery

New, DOM-centric JavaScript helper

# The Old Taxonomy



Your Soup-to-Nuts Ajax/Javascript  
Platform

## Prototype

Lightweight Ajax/JavaScript helpers

## GWT

Hate JavaScript? No problem, use Java.

## jQuery

New, DOM-centric JavaScript helper

# The New Taxonomy

# The New Taxonomy

Prototype

jQuery

Dojo Core

# The New Taxonomy

Plug-in Community  
*scripteka.com*

Plug-in Community  
*plugins.jquery.com*

Plug-in Community  
*dojox*

Prototype

jQuery

Dojo Core



# The New Taxonomy

Script.aculo.us

jQuery UI

dijit

Plug-in Community  
*scripteka.com*

Plug-in Community  
*plugins.jquery.com*

Plug-in Community  
*dojox*

Prototype

jQuery

Dojo Core

```
var SiteMap = Class.create(RuledTable, {  
  initialize: function($super, id, expanded) {  
    $super(id);  
    this.expandedRows = expanded;  
  },  
  
  ...  
  
});
```



# DOM Goodness

```
$(document).bind("ready", function() {  
  
    $("div").bind("mousewheel", function(event, delta) {  
        if (delta < 0) {  
            $(this).append("up");  
        } else {  
            $(this).append("down");  
        }  
    });  
  
});
```



## CSS and Animations

```
dojo.query("#nav> .focusable").  
  attr("tabIndex", 0).  
  style("border", "1px solid transparent").  
  anim({  
    "borderColor": { start: "yellow",  
                     end: "white" }  
  });
```



## GWT Panels

```
String html = "<div id='one' "  
    + "style='border:3px dotted blue;'"  
    + "</div><div id='two' "  
    + "style='border:3px dotted green;'"  
    + "></div>";
```

```
HTMLPanel panel = new HTMLPanel(html);  
panel.setSize("200px", "120px");  
panel.addStyleName("demo-panel");  
panel.add(new Button("Do Nothing"), "one");  
panel.add(new TextBox(), "two");  
RootPanel.get("demo").add(panel);
```



*Prototype was one of the first mainstream Ajax frameworks. Originally a Ruby-on-Rails helper library, it has been widely adopted as a JavaScript/Ajax helper library.*

## Key Points:

**pdoc**

inline documentation

**Sprockets**

Component packaging

**Events**

New event bubbling sub system

Sam Stephenson, Creator of Prototype



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## Key Points:

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*jQuery pioneered the “CSS selector first” technique of applying behaviour to the DOM*

## Key Points:

### jQuery Core 1.2.4

Cross browser offset and DOM sizes  
New event handlers for speed bump

### jQuery Core 1.3

New CSS selector engine  
DOM manipulation simplified

### jQuery UI 1.5

Ground rewrite  
Large number of examples

John Resig, Creator of jQuery





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Ground rewrite  
Large number of examples



---

*From its earliest days, Dojo has had the goal of being the JavaScript community's de facto platform, for both client-side and server-side applications.*

---

Key Points:

**Responsive applications**

For all.

**Accessibility**

Really, all.

**Full GUI toolkit**

Dijit

Alex Russell, Dojo Co-founder

---



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Alex Russell, Dojo Co-founder

Key Points:

## Responsive applications

*For all.*

## Accessibility

*Really, all.*

## Full GUI toolkit

*Dijit*



---

*GWT is the framework for Java developers who don't wish to learn JavaScript. A sort of Swing/SWT for the Web, it focuses on productivity and performance.*

---

Key Points:

## Java 5 Support

Generics, for loop, etc...

## Performance

With a simple recompilation

## JavaScript Integration

New simpler system

## Rich components

Native, and via community (Ext - GWT - Ext)

Bruce Johnson, Founder of GWT

---



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Bruce Johnson, Founder of GWT

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Welcome to

2008 JavaOne Conference

JAVA + YOU



JAVA + YOU









wiiuse library







[Animator](#)  
[ArcTest](#)  
[BarChart](#)  
[Blink](#)  
[CardTest](#)  
[Clock](#)  
[DitherTest](#)  
[DrawTest](#)  
[Fractal](#)  
[GraphicsTest](#)  
[GraphLayout](#)  
[ImageMap](#)  
[JumpingBox](#)  
[MoleculeViewer](#)  
[NervousText](#)  
[SimpleGraph](#)  
[SortDemo](#)  
[SpreadSheet](#)  
[TicTacToe](#)  
[WireFrame](#)

# The New Java Plug-in

Beta Shipping Today with Java 1.6 “Update 10”

1

## Java plug-in now out-of-process

*No more locking up the browser UI on launch*

*Applets can persist across browser sessions*

*More control over the Applet's JVM*

2

## Improved Applet deployment

*JavaScript-based “Deployment Toolkit”*

*Mature JNLP-based Applet metadata*

3

## A smaller JDK

*Micro-kernel gives streamlined download option*

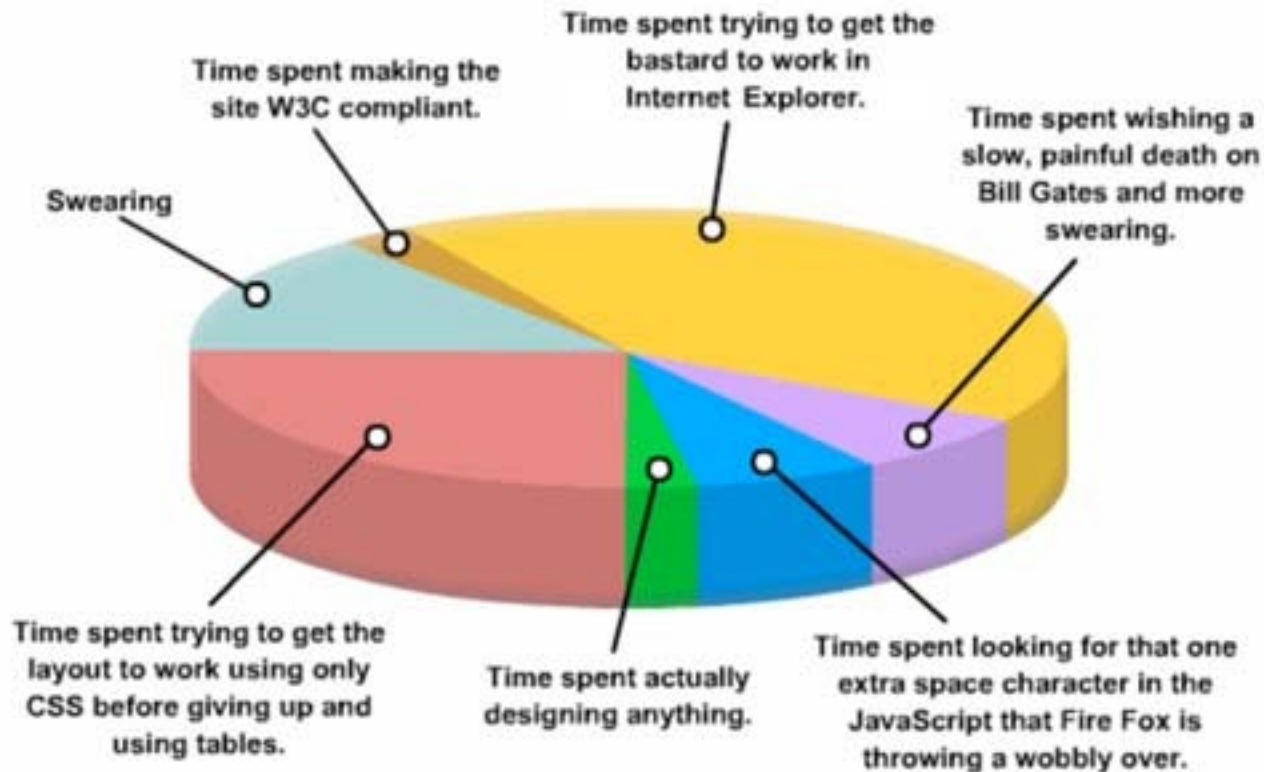
# The Future?



TM & © Hanna-Barbera.



# The Breakdown of Modern Web Development



# Safari CSS Animations

*transition-property* - What property should animate, e.g., opacity.

*transition-duration* - How long the transition should last.

*transition-timing-function* - The timing function for the transition (e.g., linear vs. ease-in vs. a custom cubic bezier function).

*transition* - A shorthand for all three properties.

Here is a simple example:

```
div {  
  opacity: 1;  
  -webkit-transition: opacity 1s linear;  
}  
  
div:hover {  
  opacity: 0;  
}
```

This div will fade out when hovered over. In browsers that do not support this animation, there will be graceful degradation, as the div will simply fade out immediately.

Each of these properties supports a comma separated list of values, like CSS3 multiple backgrounds, which allows different transitions for individual properties to be described in a single style rule. Each value in the list corresponds to the value at that same position in the other properties.

For example:

```
div {  
  -webkit-transition-property: opacity, left;
```

# Safari CSS Reflections and Masks

## CSS Reflections

Posted by Dave Hyatt on Tuesday, April 29th, 2008 at 1:07 pm

WebKit now supports reflections in CSS. Continuing the trend of using adorable baby photos to make features appear more impressive, let me introduce Kate again. 😊

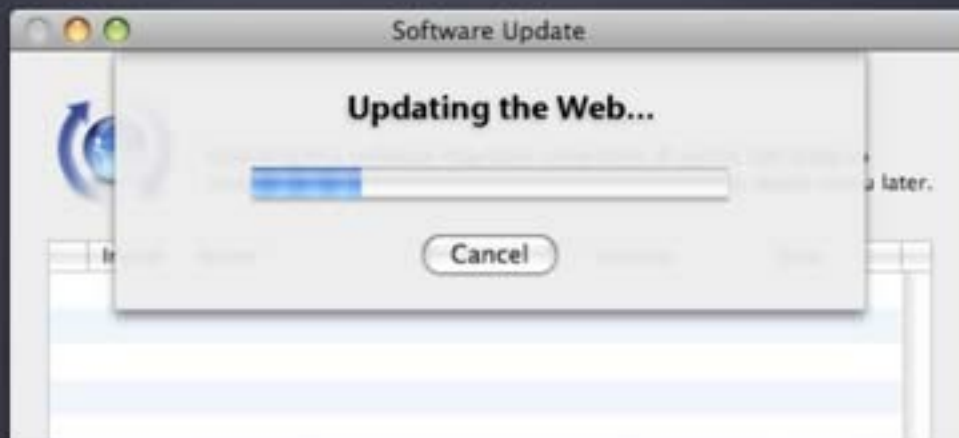


# Mozilla's Monkeys?











*Future*

*Present*

*Past*

*A bleeding  
edge version  
of HTML 5!*

# HTML 5



- Standards
- Long term
- All browsers
- No plugin

# Gears



- Implementation
- Battle hardened
- A place for innovation
- Cross browser
- Plugin





# THANK YOU



What's New in Ajax  
Dion Almaer and Ben Galbraith

TS-6807

