

# explaining Ajax

explaining Ajax



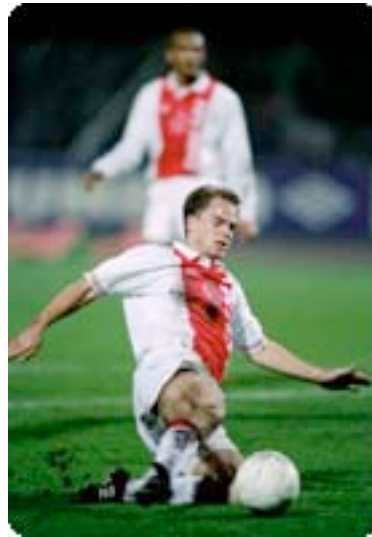
**“It’s really several technologies, each flourishing in its own right, coming together in powerful new ways.”**

**word**

**Sapir-Whorf**

**hypothesis**

# buzzword



Αἶψα

# the X factor

XForms XML

excalibur

OS X XPath

excelsior

XHTML

Macromedia MX

luxor

Windows XP

XSLT

# buzzword 2.0

long tail

participation

RSS

Ajax mashups

open data

folksonomy

APIs

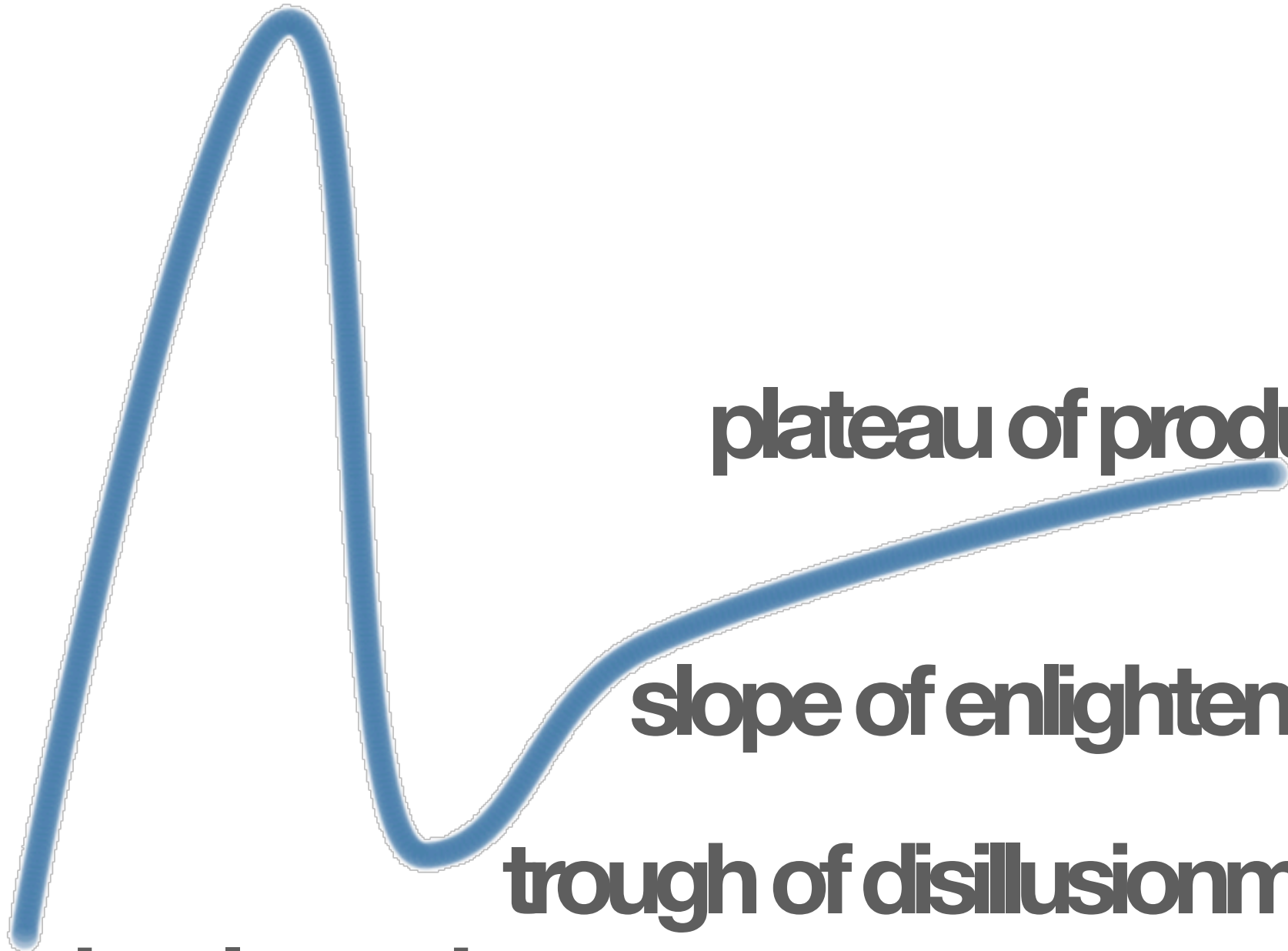
**peak of inflated expectations**

**plateau of productivity**

**slope of enlightenment**

**trough of disillusionment**

**technology trigger**







**“The name is  
shorthand for  
Asynchronous  
JavaScript + XML”**

# Asynchronous JavaScript And XML

Asynchronous  
JavaScript

And

**XML**

**HTML**

**JSON**

Asynchronous

**JavaScript**

And

**DHTML**

**XML**

**DOM Scripting**

# Asynchronous

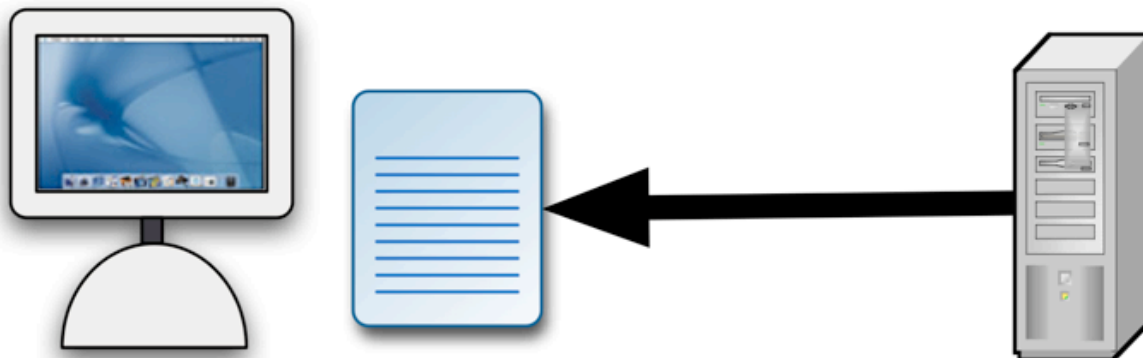
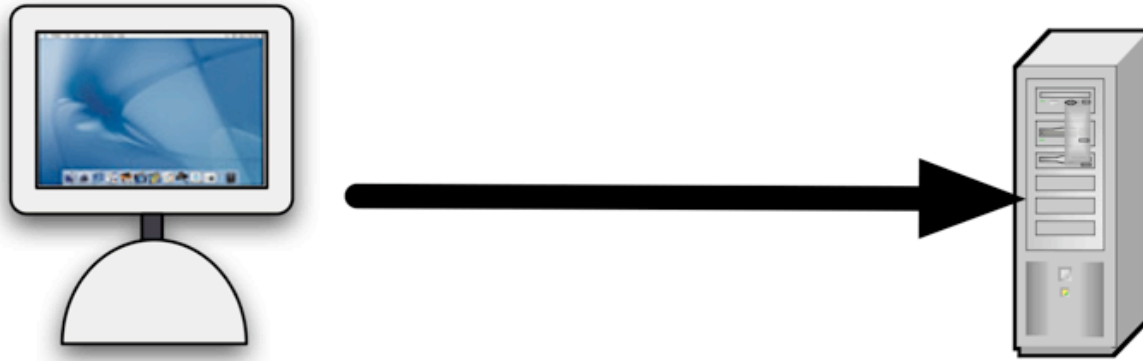
# JavaScript

**“Not at the same time”**

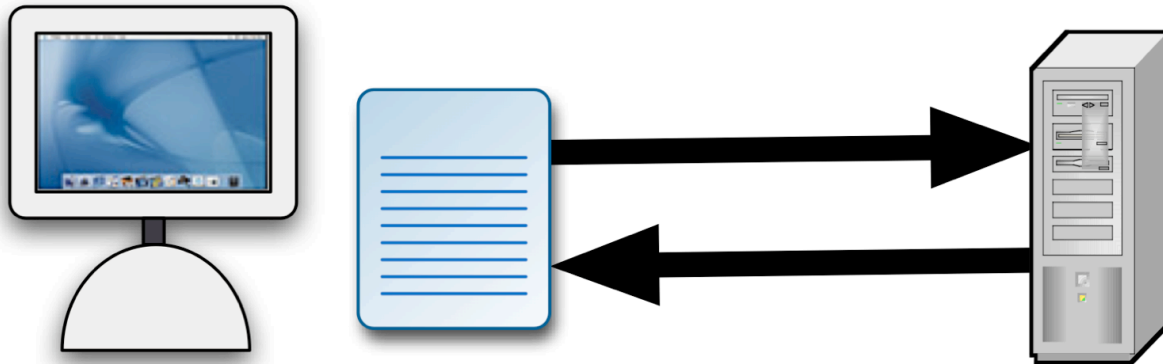
# And

# XML

# synchronous



# Asynchronous





speed





**“If the traditional web  
was letter writing,  
Ajax is instant  
messaging.”**



**“Ajax is like roller  
skates for the Web.”**



**“Ajax is a way of communicating with the server without refreshing the whole page.”**

**frames**

**iframe**

**Flash**

**XMLHttpRequest**

***Microsoft* IE5**

**Mozilla Safari Opera**

**W3C**

**X**MLHttpRequest



**“Big deal! I’ve been  
doing remote  
scripting for years.”**



**“It’s a whole new  
paradigm, baby!”**

**Am I Ajax or not?**





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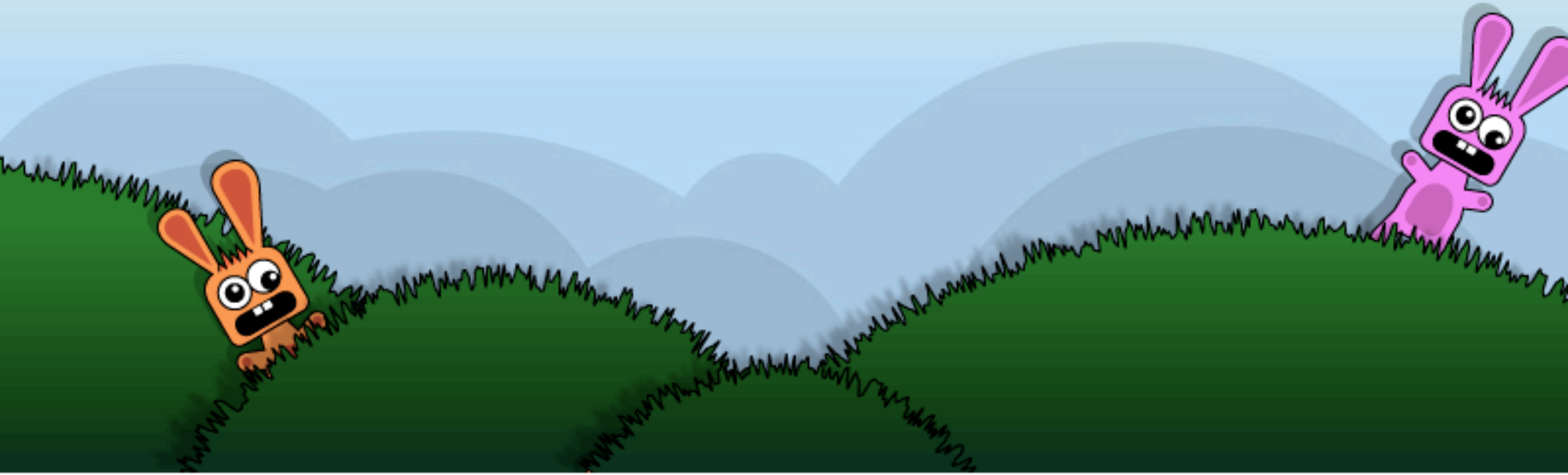
Google



LEVEL: 2 

LIVES: 

SCORE: 0



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# Topless Cameron Diaz



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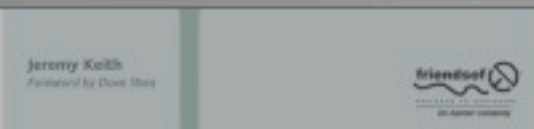
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by

- All
- 2006
- 2005

session

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- **Designing the Complete User Experience**  
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- **Understanding Folksonomy (Tagging that Works)**  
4:00 PM-4:45 PM Fri 08 Sep
- **Accessible Web Applications in a Post Web 1.0 World**  
2:45 PM-3:30 PM Fri 08 Sep
- **Mash my Flex up**  
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- **The Joy of APIs**  
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[Back to School!](#)

My autumn term is almost underway. In 9 days I'll be winging my way around the world to present an international series of workshops, conference talks and training events. I hope to visit with many friends and friends-to-be-met along the way; talk web standards and life; share knowledge and good times.

Here's the entire public schedule for your enjoyment. Seats are limited at all the events, so if you are planning to go and haven't registered, register soon. Also, drop me a line in comments if you have questions, you'll be attending one of the events, or even just in the area.

Sydney, Australia: [Web Directions South](#)

**webdirections**  
Workshop  
Extreme Standards  
Molly Holzschlag  
& Andy Clarke  
September 26 2006

The idea of being back in Australia for [Web Directions South](#) is so exciting I just don't know what to say! I had such a wonderful time last year the




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**B** ***I*** **U** **A**  Arial ▾ 10 ▾


























Wow! This is pretty weird.



wordridden is online


## Buddy List



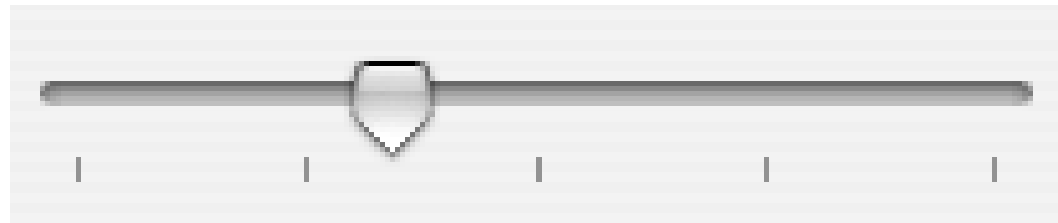
I'm available ▾

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-  cowpiesurprise - Away
-  dori@mac.com - Away
-  dpowazek
-  drewinthehead - Away
-  gaincms
-  garrettdimon
-  geekredheaded - Away
-  heknuks - Away
-  jasonkit@mac.com - Sorry b
-  lealeadotnet
-  michaelm8000
-  monkeycyclops - Away
-  msbekk
-  nicknotned
-  petejlambert - I am away from
-  realityartstudio - I am current
-  sergioivp2
-  vanderwal
- ▼ **Co-Workers (4)**
-  danrubin@mac.com - show
-  hereimonaimhappy
-  scottcleverdon
-  snarferx
- ▼ **Family (1)**
-  wordridden
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-  buranfilm - Away

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**pagination?**

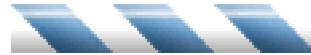
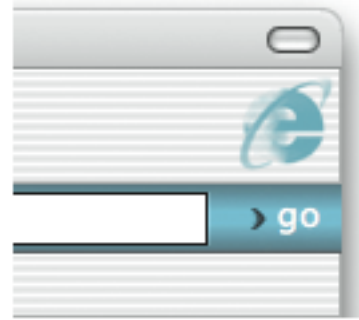
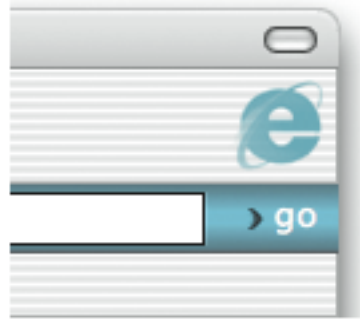
# design challenges





**“Don’t be too proud  
of this technological  
terror you have  
created.”**

# what's happening?





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## Sisyphean tasks

- Build a better mousetrap
- Solve world hunger
- Write a book about Ajax

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**conventions**

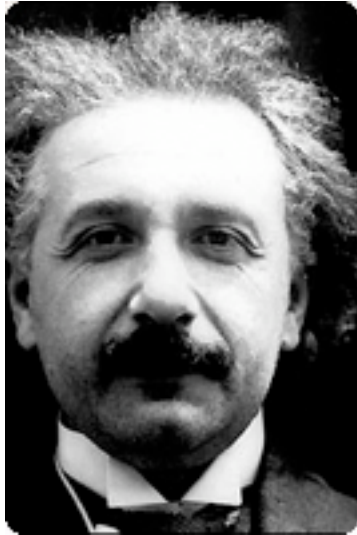
**status indicators**

**yellow fade**

**drag'n'drop**

# interesting moments

	Page Generation	Mouse Hover	Drag Initiated	Drag over Valid	Drag over Invalid	Drag over Original	Drop Accepted	Drop Rejected	Drop on Original
<b>Page Content</b>	Hint	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Cursor</b>	Normal	Move Cursor	Move Cursor	Move Cursor	Move Cursor	Move Cursor	Normal	Normal	Normal
<b>Drag Object</b>	Normal	Normal	Reduced Opacity & Tracking	Reduced Opacity & Tracking	Reduced Opacity & Tracking + Invalid Badge	Reduced Opacity & Tracking	2. Modules animates into the area just below insertion bar 3. Module comes to rest in new area 4. Modules slide up in a self-healing transition to close hole	Normal Opacity + Zoom Back to Original	Normal Opacity + Zoom Back to Original
<b>Orig Location</b>	Normal	Normal	Hole Opens	Hole Remains	Hole Remains	Hole Remains	Hole Remains	Hole refilled with drag object	Hole refilled with drag object
<b>Drop Target</b>	Normal	Normal	Normal	Insertion Bar	N/A	N/A	1. Insertion Bar Removed	N/A	N/A



**“As simple as possible... but no simpler.”**



**beyond the browser**

**the back button**

**bookmarking**

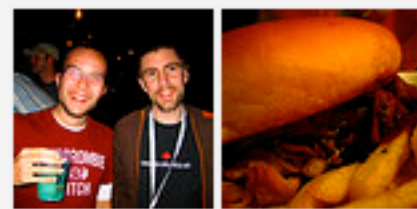
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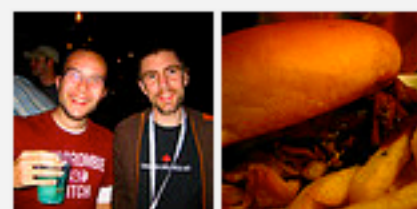


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**“Being able to justify  
every pixel.”**

# user testing



**Accessibility**

**Just**

**Ain't**

**eXciting**



**“It must still be accessible. It must be usable. If not, it is a cool useless piece of rubbish for some or many people.”**

Please Ring  
for Assistance

אנא לחצו על הפעמון  
עבור עזרה



**“Unless a way can be found to notify screen readers of updated content, AJAX techniques cannot be considered accessible.”**





**“This Ajax application is usable by screen-reader users some of the time. They aren’t totally shut out, but it isn’t totally easy for them, either.”**



**“The power of the Web is in its universality. Access by everyone regardless of disability is an essential aspect.”**

# thank you

adactio.com



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