

Designing for Ajax

Principles and Patterns for Designing Rich Internet Applications

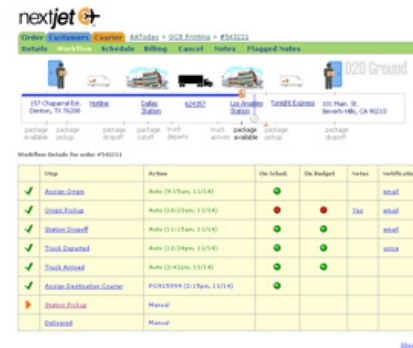
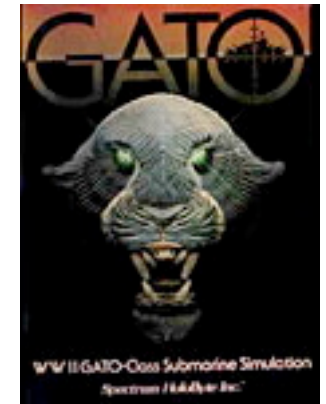
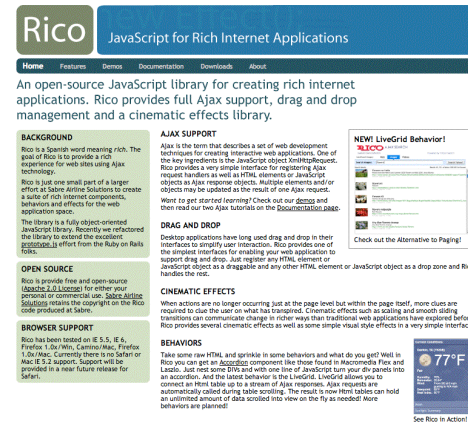


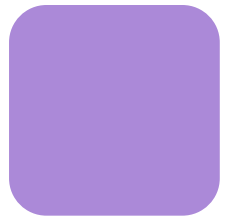
Bill W. Scott, Y! Ajax Evangelist

bscott@yahoo-inc.com

Background

- Games, research, science, military, biz
- Apps, frameworks, widget sets
- Developer, designer
- Object-oriented background
- Software architect, user experience manager
- Current: Yahoo! Ajax Evangelist





Ajax @ Yahoo


Yahoo! Pattern Library Release

<http://developer.yahoo.net/ypatterns/>

The image displays three screenshots of the Yahoo! Developer Network Design Pattern Library website. The first screenshot shows the home page with a sidebar containing navigation links like 'NAVIGATE', 'EXPLORE DATA', 'ORGANIZE DATA', 'GIVE FEEDBACK', 'PERFORM ACTION', 'CUSTOMIZE', and 'APPLICATION NEEDS TO'. The main content area includes a 'Welcome' message and a 'What's a Pattern?' section. The second screenshot shows the 'Ratings and Reviews' pattern page, which includes a 'Problem Summary', 'Solution Patterns' (with examples like 'Architecture of a Review' and 'Rating an Object'), and a 'Use When' section. The third screenshot shows the 'Rating An Object' example page, which includes a 'Problem Summary', 'Use When' section, and a 'Solution' section. The website has a clean, professional design with a purple header and a white background.



```
YAHOO.util.Motion = function(el, attributes, duration, method) {  
    if (el) {  
        this.initMotion(el, attributes, duration, method);  
    }  
};  
YAHOO.util.Motion.prototype = new YAHOO.util.Anim();  
YAHOO.util.Motion.prototype.initMotion = function(el, attributes, duration, method) {  
    YAHOO.util.Anim.call(this, el, attributes, duration, method);  
};
```



YAHOO! USER INTERFACE BLOG

News and Articles about Designing and Developing with Yahoo! Libraries.

[Blog](#) [About](#)

Yahoo! Design Pattern Library Released

February 13, 2006 on 7:54 am by Bill Scott | In [Design](#) |

I'm excited to announce that today we are releasing the [Yahoo! Design Pattern Library](#) to the public under a friendly [Creative Commons License](#). The goal in releasing this library is for us to share the common patterns that we see emerging at Yahoo! It is hoped that by opening up our design patterns we can share our current thinking as well as solicit your valuable feedback.

We believe design patterns are [powerful](#). First, they offer a solution in context of a problem. Second, they provide a name for the solution. Taken together as a set, pattern libraries form a solution language that can enhance our ability to communicate design ideas. Lastly, they provide us a context in which to discuss a number of associated issues: the thinking behind a solution; issues around accessibility, and de-gradeability; other related patterns; examples of usage; and code samples to name a few.

In case patterns are a new concept to you, here's a little history to get you up to speed.

Background on Patterns

SYNDICATE

All Entries:

[+ MY YAHOO!](#) [RSS](#)

All Comments:

[+ MY YAHOO!](#) [RSS](#)

RECENT POSTS

- [Developing a JavaScript Library for Yahoo!](#)
- [Welcome to the Yahoo! User Interface Blog](#)
- [The Yahoo! User Interface Library](#)
- [Yahoo! Design Pattern Library Released](#)
- [Search Pagination Design Pattern](#)
- [Item Pagination Design Pattern](#)
- [Rating an Object Pattern](#)

Yahoo! Patterns Discussion Group


<http://groups.yahoo.com/group/ydn-patterns/>

[Yahoo!](#) [Yahoo! Plus Home](#) [Mail](#)

Search the Web

YAHOO! PLUS GROUPS Welcome, **billwaynescott**
[[Sign Out](#), [My Account](#)]

[Groups Home](#) | [Help](#)

IS IT EASY TO START AN ONLINE STORE ? 

billwaynescott · bscott@yahoo-inc.com | Group Moderator - [Edit Membership](#)

[Start a Group](#) | [My Groups](#)

ydn-patterns · Yahoo! Design Pattern Discussion Group

[Home](#)
[Messages](#)
 [Pending](#)
 [Post](#)
[Files](#)
[Photos](#)
 [Pending](#)
[Links](#)
[Database](#)
[Polls](#)
[Members](#)
 [Pending](#)

[Promote](#)
[Invite](#)










[Management](#)

Messages Message # Search: [Messages Help](#)

[Post Message](#)

View: [Simple](#) | [Summary](#) | [Expanded](#)
As: [Msg List](#) | [Thread](#)

1 - 23 of 23 First | < Previous | Next > | Last

	Subject	Author	Date 
<input type="checkbox"/>	1 Welcome! We are excited about the launch of our Yahoo! Design Patterns Library < http://developer.yahoo.net/ypatterns/index.php > . While our internal patterns site is...	billwaynescott  	Feb 13, 2006 2:31 pm
<input type="checkbox"/>	2 Re: Welcome! Great work! I hope to see more soon :) One navigation suggestion I have is some kind of linear navigation within the details so I can go to the next design...	Gilbert Lee gilbertlee   	Feb 13, 2006 7:49 pm
<input type="checkbox"/>	3 Re: Welcome! Great work, I just scanned through the two libraries and have to say: You guys rock. :) Thanks....	Dominik Schwind d_schwind   	Feb 14, 2006 12:41 am



**Breadcrumbs. Module Tabs.
Navigation Tabs. Auto Complete.
Pagination. Item Pagination.
Search Pagination. Ratings and
Reviews. Architecture of a Review.
Rating an Object. Writing a
Review. Drag and Drop. Drag and
Drop Modules.**

Drag and Drop. Drag and Drop Modules. In Page Editing. In Page Custom Editing. Direct State Editing. Grid Cell Editing. Inline Custom Editing. Inline Tag Editing. Popup Custom Editing. Slide-out Custom Editing. Inline Text Editing. Persistent Portals. Inline Reordering. Indication. Busy Indication. Cursor Busy. In Context Busy. In Context Progress. Inline Status. Auto Complete. Balloon Error Tip. Deferred Content Loading. Dynamic Goal. Narrowing Choices. Refining Search. Live Search. Dynamic Filter. Invitation. Cursor Invitation. Drop Invitation. Tool Tip Invitation. Hover Invitation. Detail Zoom. Opacity Focus. Configurable Module - Faceplate. Configurable Module - Flip It. Configurable Module - Inline Configure. Configurable Module - Slide Out Drawer. Slide Out. Flip. Opacity Fade. Endless Scrolling. Expandable Paging Boundary. Fresh Content. Hover Detail. In Place Drill Down. Inline Assistant. Inline Validation. Validate Then Suggest. On Demand Refresh. Periodic Refresh. Resizable Modules. Scrolling Modules. Auto Save. In Context Tools. Remembered Collection. Remembered Preferences. Auto Form Fill. Rating an Object. Transition. Brighten Transition. Cross Fade Transition. Dim Transition. Expand Transition. Fade In Transition. Fade Out Transition. Flip Transition. Move Transition. Self-Healing Transition. Collapse Transition. Slide Transition. Rich Internet Object. Available. Selected. Identifiable Object.

Yahoo! UI Library

- Normalization (Event Utility)
- Messaging (Connection Manager for AJAX)
- Direct Representation (Animation and Position)
- Direct Manipulation (Drag and Drop)
- Rich Interactive Widgets (Slider, TreeView, Calendar, AutoComplete)

Designing for Ajax

- **Richness**

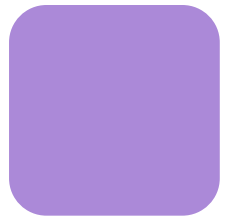
What is richness?

- **Ajax Patterns**

DNA of an Ajax Pattern

- **Principles**

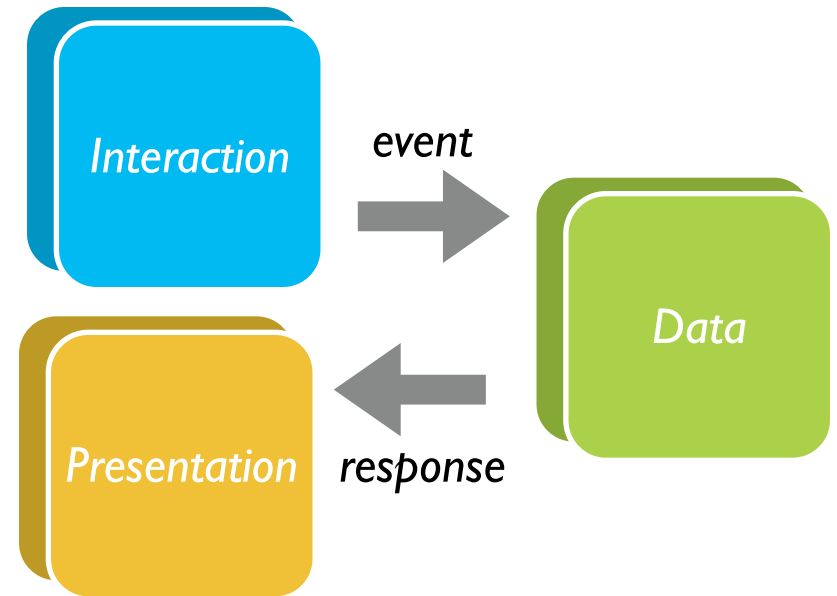
Principles for Ajax Design



Richness

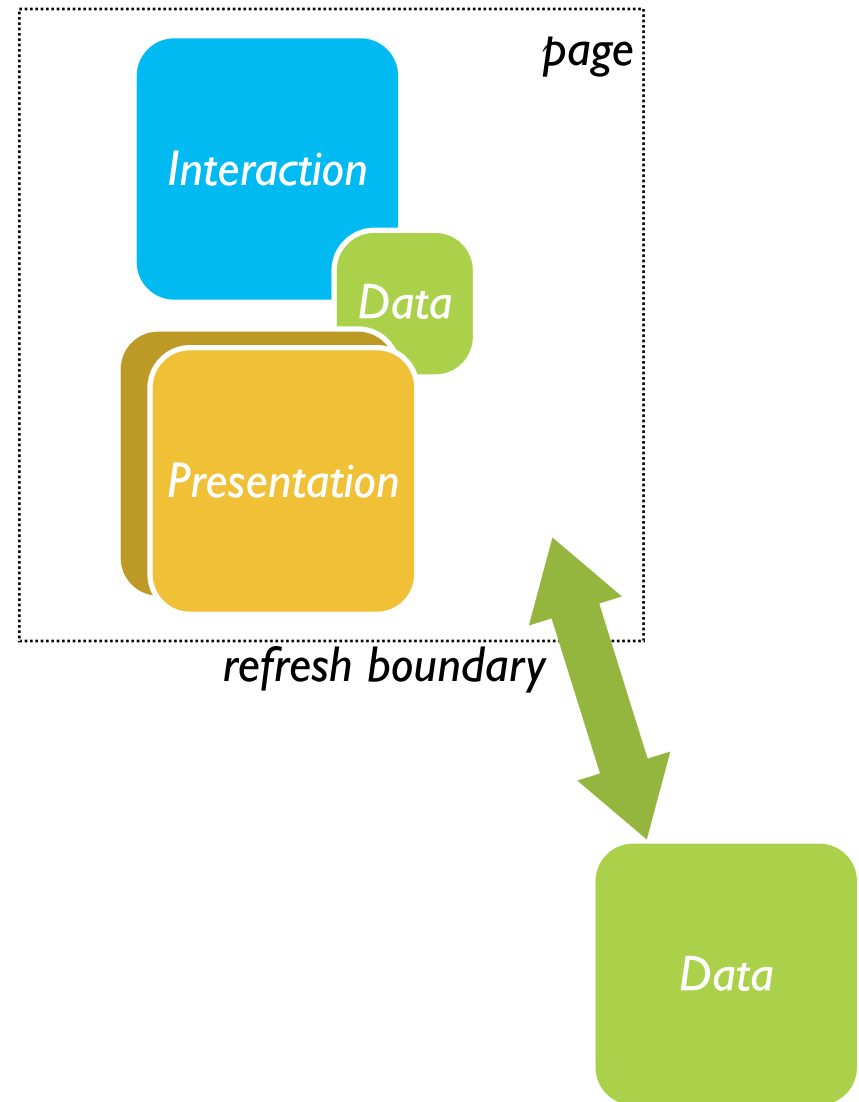
Defining Richness: Web in 3D

- Interaction Dimension
- Data Dimension
- Presentation Dimension

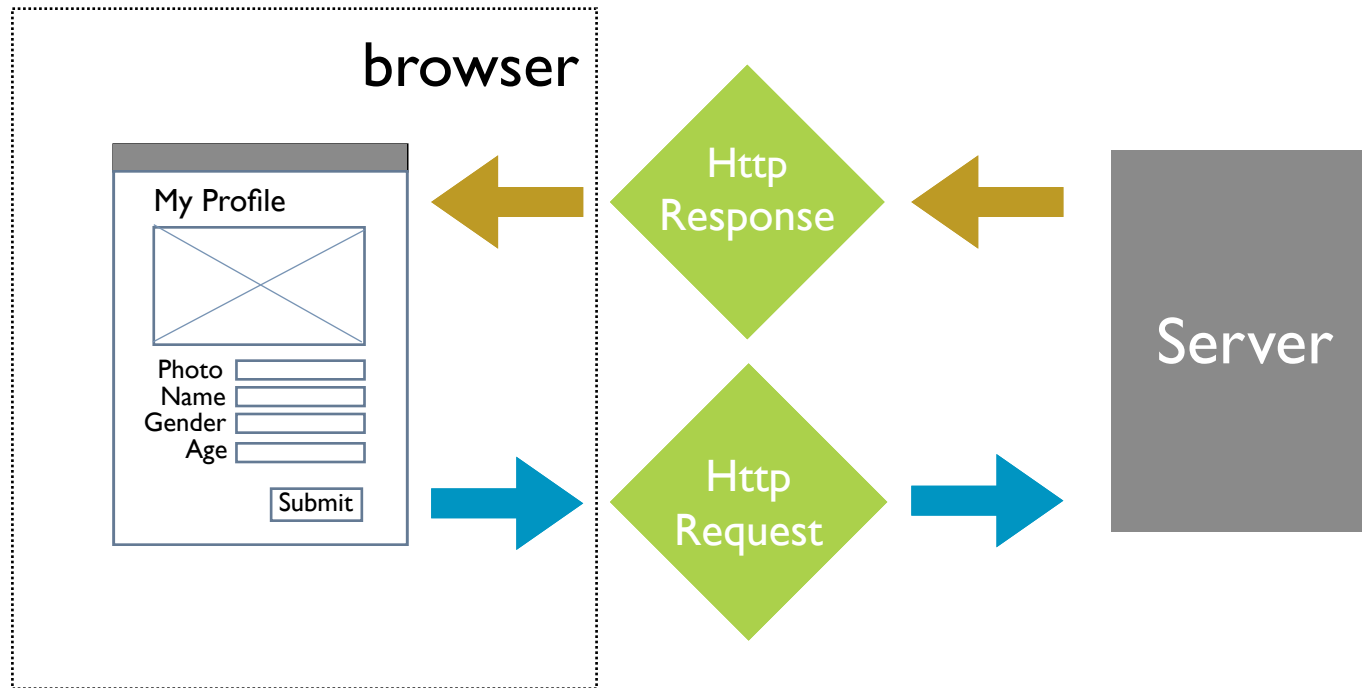


Classic Web

- Interaction course-grained
- Data loaded with the page or obtained via refresh
- Presentation: page-based updates



Classic Web Illustrated



Ajax = Just-in-Time. Immediacy.

Most Popular

Most Emailed | Most Viewed | Most Recommended | My Sources

- Lonely elephants, edgy apes baffled by post-Katrina life at zoo Knight Ridder - Sun Oct 16, 4:40 PM ET
 - Scientists Study Gorilla
 - Inflation Soars Higher
 - Rick Springfield's Soap
 - Feds Want Banks to
- » All Most Emailed



NEW ORLEANS - An AWOL alligator has resurfaced, elephants are forlorn and apes are agitated at Audubon Zoo, one of the nation's most renowned animal sanctuaries, left by Hurricane Katrina both broken and broke.

World

Just-in-time data

Google™
Suggest BETA

Web | Images | Groups | News | Froogle | Local ^{New!} | more »

tom cruise	
tom cruise	6,670,000 results
tom clancy	1,990,000 results
tom cruise movies	2,670,000 results
height	215,000 results
	5,780,000 results
books	145,000 results
filmography	730,000 results
	481,000 results
ne	552,000 results
	347,000 results

Just-in-time presentation

Students to Enroll		
Crew Id	Last Name	First Name
600922	Peterson	Shelley
349294	Craft	Adrian
432939	Douglas	Elayne
468370	Hill	Petra
999300	Barnes	James
344935	Smith	James
139204	Miller	Gordon

Students to Enroll		
Crew Id	Last Name	First Name
600922	Peterson	Shelley
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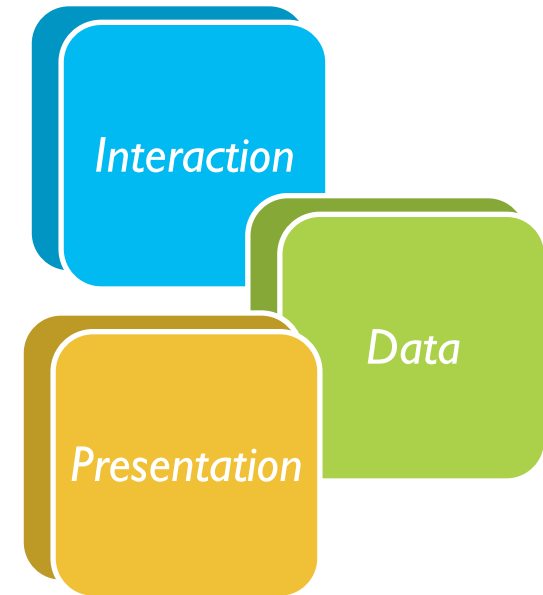
Course Calendar													
DEC 2005													
S	M	T	W	T	F	S	1	2	3	4	5	6	7
							8	9	10	11	12	13	14
							15	16	17	18	19	20	21
							22	23	24	25	26	27	28
							29	30	31				

Course Calendar													
DEC 2005													
S	M	T	W	T	F	S	1	2	3	4	5	6	7
							8	9	10	11	12	13	14
							15	16	17	18	19	20	21
							22	23	24	25	26	27	28
							29	30	31				

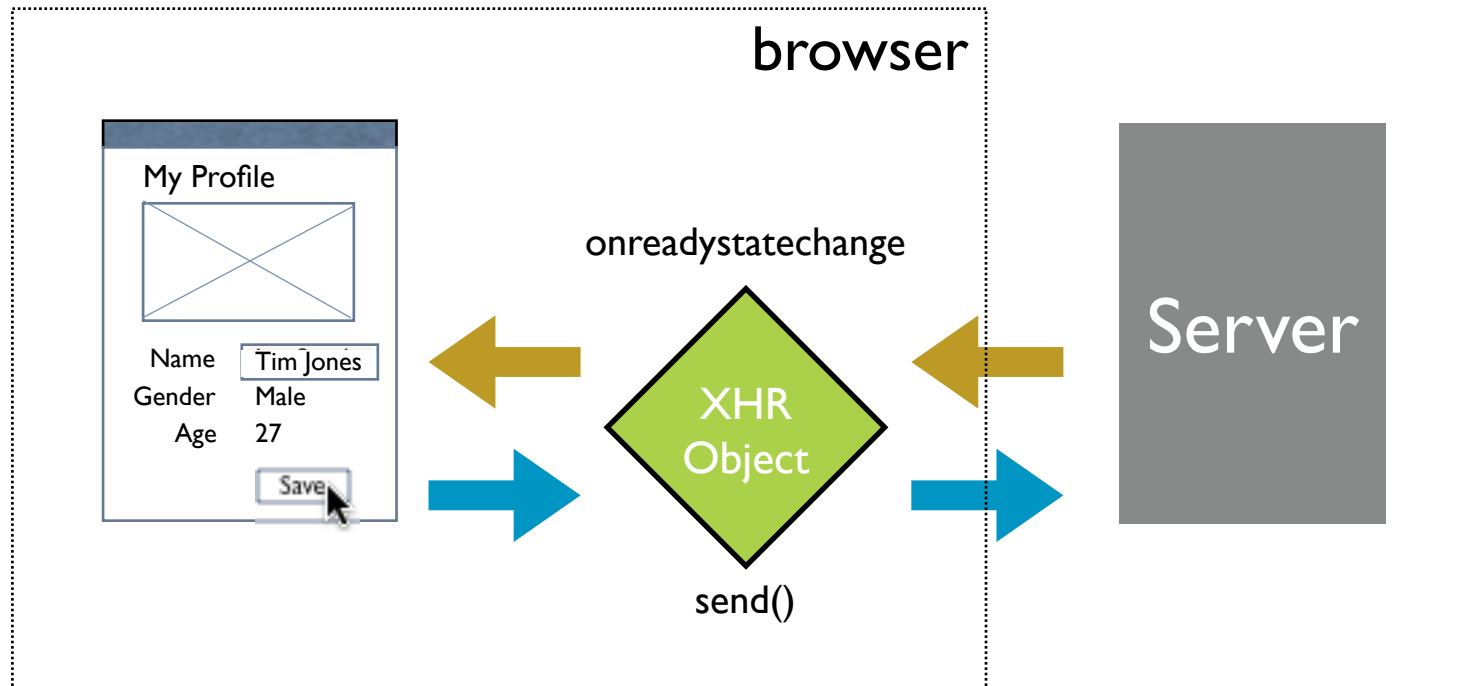
Just-in-time logic

Ajax Model - New & Improved!


- Now with *Deeper Interaction!*
- Now with *Just-in-Time Data & Just-in-Time Logic!*
 - ★ XMLHttpRequest (XHR) is the secret sauce!
- Now with *Richer Interface!*
- *All dimensions are closer*



Ajax Illustrated

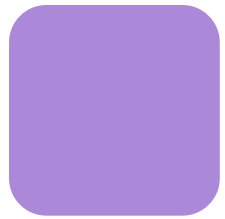


AJAX vs Ajax

- AJAX = Asynchronous JavaScript and XML
 - Strict definition is using XMLHttpRequest (XHR) to retrieve XML within a web page
- Ajax = The set of technologies that allow web applications to provide rich interaction, just-in-time information and dynamic interfaces without required page refresh
- The Secret Sauce 
 - Ajax = XHR + DHTML (HTML, CSS, JavaScript) + Rich design

Other Remote Scripting Techniques

- Hidden IFrame
- ` src`
- `<script> src` hack
- CSS href hack
- JS to faceless Java applets
- JS to faceless Flash
- NO CONTENT Response
- Cookies

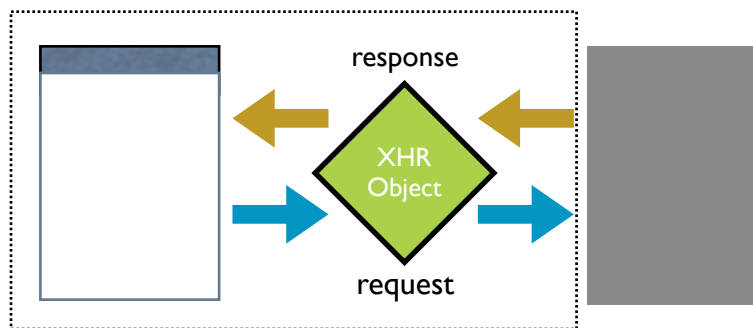


Ajax Patterns

Drag and Drop. Drag and Drop Modules. In Page Editing. In Page Custom Editing. Direct State Editing. Grid Cell Editing. Inline Custom Editing. Inline Tag Editing. Popup Custom Editing. Slide-out Custom Editing. Inline Text Editing. Persistent Portals. Inline Reordering. Indication. Busy Indication. Cursor Busy. In Context Busy. In Context Progress. Inline Status. Auto Complete. Balloon Error Tip. Deferred Content Loading. Dynamic Goal. Narrowing Choices. Refining Search. Live Search. Dynamic Filter. Invitation. Cursor Invitation. Drop Invitation. Tool Tip Invitation. Hover Invitation. Detail Zoom. Opacity Focus. Configurable Module - Faceplate. Configurable Module - Flip It. Configurable Module - Inline Configure. Configurable Module - Slide Out Drawer. Slide Out. Flip. Opacity Fade. Endless Scrolling. Expandable Paging Boundary. Fresh Content. Hover Detail. In Place Drill Down. Inline Assistant. Inline Validation. Validate Then Suggest. On Demand Refresh. Periodic Refresh. Resizable Modules. Scrolling Modules. Auto Save. In Context Tools. Remembered Collection. Remembered Preferences. Auto Form Fill. Rating an Object. Transition. Brighten Transition. Cross Fade Transition. Dim Transition. Expand Transition. Fade In Transition. Fade Out Transition. Flip Transition. Move Transition. Self-Healing Transition. Collapse Transition. Slide Transition. Rich Internet Object. Available. Selected. Identifiable Object.

But What Can XHR Do?

- Make a request
- Return a response
- And do it asynchronously



Anatomy of a Pattern

- Ajax design patterns contain three steps
 - **Trigger** (event or timer)
 - **Operation** (Ajax, remote scripting)
 - **Update** (presentation)



Trigger

- Every pattern starts with
 - a user event
 - a timer event

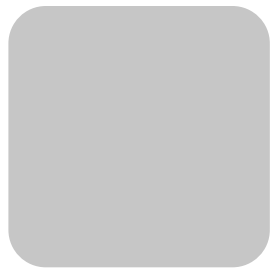
mouseout hover keypress keydown mousedown
drop filter choices mouseup drag click mousedown select
focus blur resize move timeout



Operation

Ajax patterns open the door to immediacy

- **Lookup** I can get information when I need it
- **Persist** I can save in real-time
- **Validate** I can prevent errors early
- **Invoke** I can make things happen now
- **Message** I can communicate instantly



Operation. Lookup

I can get information when I need it

Auto Complete. Deferred Content Loading. Dynamic Goal. Narrowing Choices. Refining Search. Live Search. Dynamic Filter. Detail Zoom. Endless Scrolling. Expandable Paging Boundary. Fresh Content. Hover Detail. In Place Drill Down. On Demand Refresh. Periodic Refresh. Resizable Modules. Scrolling Modules. Auto Form Fill.



Operation. Persist

I can save in real-time

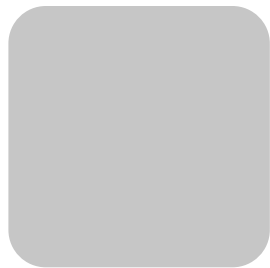
Drag and Drop Modules. In Page Editing. In Page Custom Editing. Direct State Editing. Grid Cell Editing. Inline Custom Editing. Inline Tag Editing. Popup Custom Editing. Slide-out Custom Editing. Inline Text Editing. Inline Reordering. Auto Save. Remembered Collection. Remembered Preferences. Rating an Object.



Update

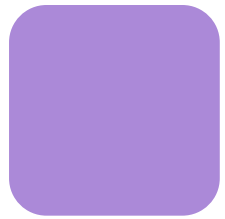
- Finally, patterns reflect a visual change

Indication. Busy Indication. Cursor Busy. In Context Busy. In Context Progress. Inline Status. Transition. Brighten Transition. Cross Fade Transition. Dim Transition. Expand Transition. Fade In Transition. Fade Out Transition. Flip Transition. Move Transition. Self-Healing Transition. Collapse Transition. Slide Transition. Rich Internet Object. Available. Selected. Identifiable Object. Slide-out. Popup Balloon.



Pattern-O-Matic





Principles

Principles for Ajax Design

1. Keep it direct
2. Provide live feedback
3. Offer an invitation
4. Cross borders reluctantly
5. Leave a light footprint
6. Show transitions
7. Think in objects

submit hyperlink



mouseout hover keypress keydown mousedown
drop filter choices mouseup drag click select focus
blur resize move timeout



Keep it Direct

The image displays the Yahoo! Plus web interface, which is a dashboard for various services. The main interface includes a search bar, navigation tabs (Web, Images, Local, News, Shopping), and a personalized greeting. Below the navigation, there are several widgets: a Scoreboard for sports, a Message Center for email and messaging, Software News, a Weather forecast for multiple locations, and a Best Fare Tracker for travel. An inset shows the Yahoo! Mail interface, which includes a welcome message, a search bar, and a list of messages in the inbox.

Yahoo! Plus Dashboard Widgets:

- Scoreboard:**
 - TODAY**
 - NHL**
 - Tampa Bay vs. Dallas: 5-3, 13:15, 2nd
 - NBA**
 - Dallas vs. LA Clippers: 0-0, 10:30, ET
 - YESTERDAY**
 - no games for selected teams
 - Listen to live audio of college games
 - Best Fare Tracker**
 - Depart: New York, NY - all
 - Paris, France - all: \$193.00
 - Depart: Seattle/Tacoma, WA
 - Honolulu, HI: \$333.60
 - Depart: San Francisco, CA
- Message Center:**
 - Check Email
 - Launch Messenger: 14 friends on
 - Weather**
 - Dallas, TX: 40...75 F
 - Denton, TX: 35...75 F
 - Sunnyvale, CA: 42...57 F
 - Boulder Creek, CA: 39...59 F
 - Gilroy, CA: 38...57 F
 - San Jose, CA: 42...58 F
 - Maps**
 - Select From My Locations or Recently Used
 - clear recent
 - My Locations
- Software News:**
 - AccuRev gives software configuration system global focus - 5 hours ago
 - Anti-virus Software: The Next Big Worm Target? - 10 hours ago
 - India's Satyam logs 64 percent rise in third-quarter profit - 10 hours ago

Yahoo! Mail Interface:

Welcome, **b.scott**
[Sign Out](#), [My Account](#), [Switch Back](#)

Inbox 2152 messages

[Check Mail](#) [Compose](#)

[Go](#)

Message List:

From	Subject
Jason Kunesch	RIA/Ajax web-ba
NG-DHTML-request@netwindo	confirm bcd0e1
Mindjet	Activate your Mir
American Kennel Club	YourAKC -- Janua
Mike Milinkovich	RE: Still on for c
Mike Milinkovich	RE: Still on for c
Ryan Freitas	helps when i att
Ryan Freitas	Re: Never got th
Richard Cowin	Re: Backbase Liv
LukeW	Re: RIO & books

Mail Folders:

- Inbox
- Drafts
- Sent
- Spam (252) [Empty](#)
- Trash (14) [Empty](#)
- Contacts
- Calendar

Rocky Waters

ADD NOTE SEND TO GROUP ADD TO SET BLOG THIS ALL SIZES ORDER PRINTS ROTATE DELETE X



Add tags

Test Page

Body List Notes Files Images Writeboards Links Sharing ?

Notes

First Note (modified) Posted 30 Nov

This is just a note that I added. And some more text was added.

Add note



My Grade:

A
B+ B B-
C
D
F


B-
Fair

[write a review](#)

0	1	2
0, 0	0, 1	☆☆☆☆☆
1, 0	1, 1	☆☆☆☆☆
2, 0	2, 1	☆☆☆☆☆

Scheduled Items

Wed 11/23/05 (day 1) - Yosemite Natl Pk, Yosemite National Park



Yosemite Lodge

View | Delete

From \$97.00 to \$146.00 per night. [Reserve Now](#)

559-252-4848

Yosemite Natl Pk, CA 95389

United States


In the valley of Yosemite National Park

Notes: [Edit](#)

Tags: [Edit](#)

Dates: [Add](#)

Wed, Nov 23rd - Fri, Nov 25th [Edit](#)



Tunnel View


+1 209 372 1000



Wawona Rd

Yosemite National Park, CA 95389

United States

This breathtaking and spectacular sight is located on Highway 41 just north of Wawona, and just south of the Valley Floor. This popular spot is the most photographed view of the valley. It received [...](#)



	From	Subject
	Yahoo! Toolbar	Welcome to
	Weekend Extra	5 Tips for

My Saved Pages > ypatternexample

Items 1 - 4 of about 4

Sort by: **Date Saved** | [Title](#) | [URL](#)

[coming_soon.mov \(video/quicktime Object\)](#)

Shared at 4:49 PM PST

[Email](#) - [IM](#) - [Delete](#)

Shared by: Me - [Details](#) - [Edit](#)

Tags: [comment](#), [digg](#), [incontextexpandpatte...](#), [inlinepageeditpatter...](#), [ratinganobjectpatter...](#), [more...](#)

Access: Everyone

[http://sjc.videos.revision3.com/diggnation/coming_soon.mov](#)

[Ajaxian ? New Digg Ajax Comment System](#)

Shared at 4:49 PM PST

[Email](#) - [IM](#) - [Delete](#)

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Tags: [comment](#), [digg](#), [incontextexpandpatte...](#), [inlinepageeditpatter...](#), [ratinganobjectpatter...](#), [more...](#)

Access: Everyone

[http://ajaxian.com/archives/new-digg-ajax-comment-system](#) - [My cached copy](#)

[Yahoo! Groups : scotts-pub Post Message](#)

Saved on February 16, 2006

[Email](#) - [IM](#) - [Delete](#)


Saved by: Me - [Details](#) - [Edit](#)

Note: **rich text editor for blogs**

Tags: [code](#), [inline edit](#), [internalyahoo](#), [patterns](#), [ypatternexample](#), [more...](#)

Access: Just me

[http://f3.corp.yahoo.com/~scotts/xpost.html](#)



DESIGNING FOR AJAX

36

Drag and Drop. Drag and Drop Modules. In Page Editing. In Page Custom Editing. Direct State Editing. Grid Cell Editing. Inline Custom Editing. Inline Tag Editing. Popup Custom Editing. Slide-out Custom Editing. Inline Text Editing. Inline Reordering.

Prefer interaction within the page

What about discoverability?



State park near our home in San Jose

Click to edit

5 photos | [Add a comment?](#)

Photos are from
22 Oct 05.

Prefer interaction within the page

What about discoverability?

Use direct editing on page content

What about save/cancel?

Avoid page jitter

Reduce the feeling of modes



State park near our new home in San Jose
(next to Milpitas)

SAVE OR CANCEL

Prefer interaction within the page

What about discoverability?

Pick Up at the Store


- ☐ Milk
- ☐ Orange Juice
- ☐ Tomatoes
- ☐ Lettuce
- ☐ Bread
- ☐ Chips

[Add Item](#)

[Make a new list](#) [Reorder lists](#)

[Remove from sidebar](#), [Delete this page](#), [Email me this page](#)

✉ Send email to this page: miles12betty@billwscott.backpackit.cc

 [Changes](#) [Help](#) [Text Formatting](#) [Weblog](#) [Forum](#) [Privacy](#)


Use direct editing on page content

What about save/cancel?

Avoid page jitter

Reduce the feeling of modes

☐ Create a home page for the VisDe to make findability easier

 [Edit](#) ☐ Account for experimental patterns as well as established patterns

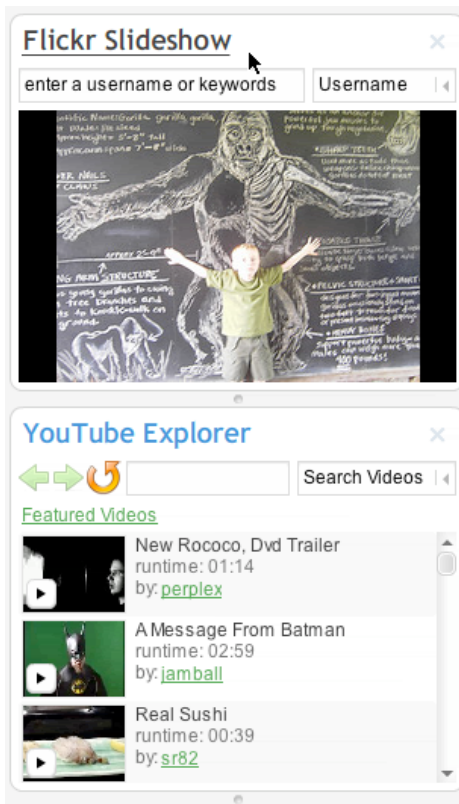
Provide in-context tools

Only good for single operations

Can actually slow you down

Prefer interaction within the page

What about discoverability?



Pick Up at the Store

- ☐ DRAG Chips
- ☐ DRAG Milk
- ☐ DRAG Bread
- ☐ DRAG Orange Juice2
- ☐ DRAG Tomatoes
- ☐ DRAG Lettuce

- What is spam?
- Can I transfer my message credits?
- How do I delete my HandyPay account?
- What if I didn't receive my full message package?
- I need to contact customer care regarding the Compose Text Message service.

Provide in-context tools

Only good for single operations

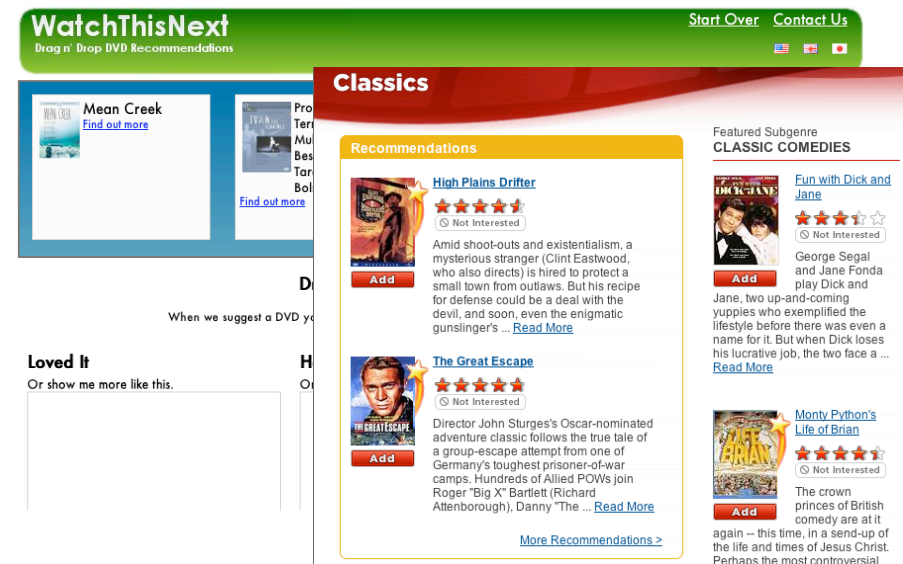
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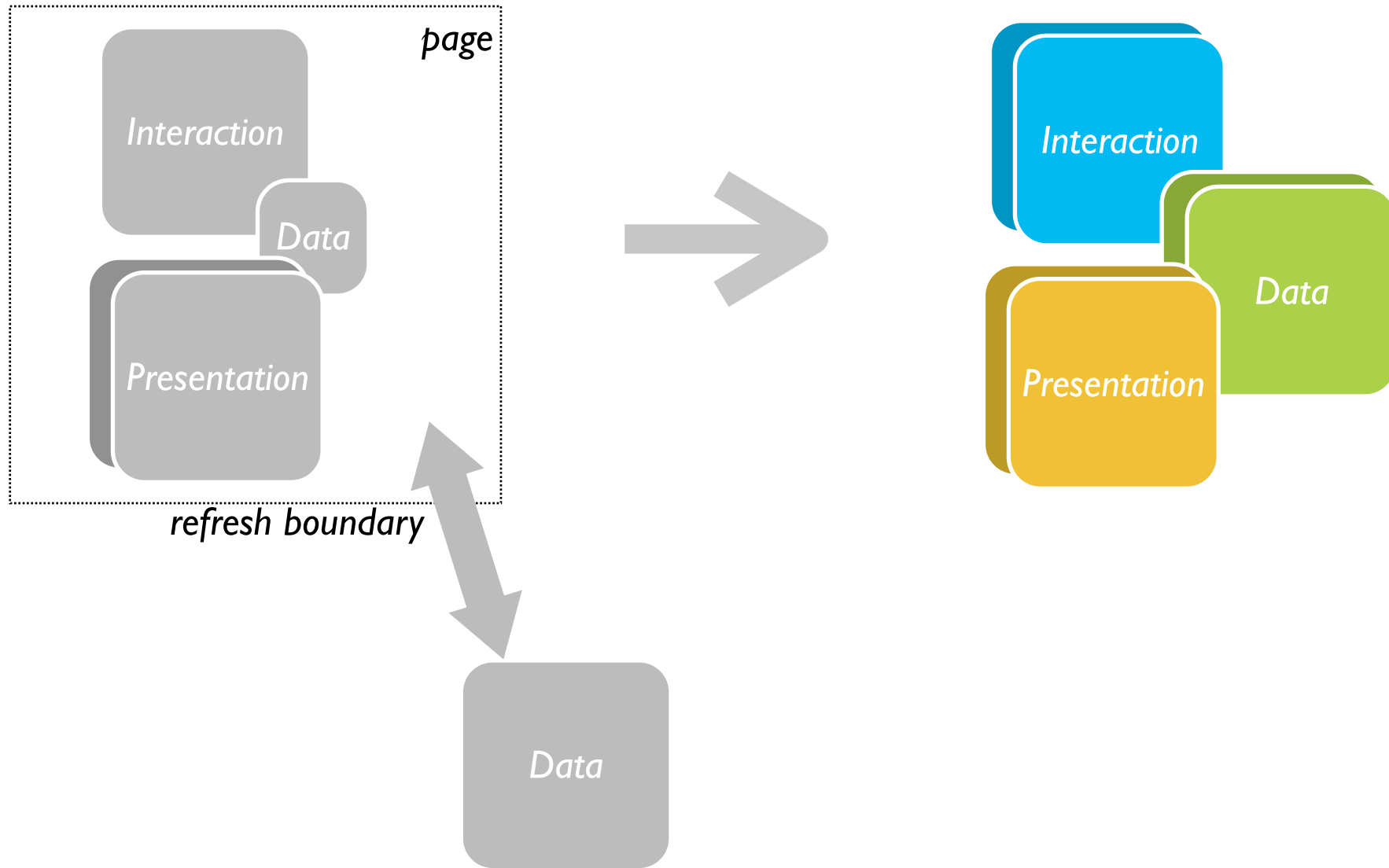


Use drag and drop where appropriate

Not for simply setting an attribute

Good for layout changes or containment

Needs transitions



2

Provide live feedback


**Instant Search** BETA

Instant Search gives you answers as you type -- no more waiting!

Why feel lucky when you can be right? With Instant Search, results instantly appear for [Yahoo! Shortcuts](#) and common searches. Give it a spin! Type in these examples below, or try your own searches:

- boston weather
- wikipedia
- nfl
- 22 5th ave new york ny
- san francisco coffee shops
- dmv





KAYAK™ Search with us, book with them.™

[Flights](#) | [Hotels](#) | [Cars](#) | [Deals](#) | [Best Fare Buzz](#)

☒ Round-trip
 ☐ One-way
 ☐ Multi-city

From To
☒ Show Nearby Airports ☒ Show Nearby Airports

Leave Time
 Return Time

Travelers Cabin

☐ Prefer Nonstop

Search multiple sites for [hundreds of airlines.](#)

Find Athletes and Countries

PRESENTED BY  CHEVROLET

Medal Count

				TOTAL
 GERMANY	11	12	6	29
 UNITED STATES	9	9	7	25
 CANADA	7	10	7	24
 AUSTRIA	9	7	7	23
 RUSSIA	8	6	8	22









» Full Medal Count

[+ MY YAHOO!](#) [RSS](#)

To: [Show BCC](#)

Cc:

Subject: [Plain Text](#)

Times New Roman
B *I* U









KAYAK™

[Flights](#) | [Hotels](#) | [Cars](#) | [Deals](#) | [Buzz](#)

San Jose, CA to Las Vegas, NV Wed 15 Feb 2006 – Wed 22 Feb 2006 / round-

Find [Hotels](#) or [Cars](#) for this trip

[Start search over](#)

Price*	Airports	Airline	Depart	Arrive	Stops (Duration)
\$189	SJC > LAS LAS > SJC	American Airlines	12:57p 10:00a	2:21p 11:25a	0 (1h 24m) 0 (1h 25m)

515 of 515 results shown [show all](#)

Stops

☒ nonstop ☒ 1 stop ☒ 2+ stops

Airlines

[select all](#) | [clear](#)

	nonstop	1+
<input checked="" type="checkbox"/> Alaska Airlines		\$285
<input checked="" type="checkbox"/> America West	\$198	\$212
<input checked="" type="checkbox"/> American Airlines	\$189	\$194
<input checked="" type="checkbox"/> JetBlue Airways		\$192
<input checked="" type="checkbox"/> Multiple Airlines	\$198	
<input checked="" type="checkbox"/> US Airways	\$198	\$212
<input checked="" type="checkbox"/> United	\$193	\$203

Leave ☒ depart ☐ arrive

Wed 5:00a 10:30p

Return ☒ depart ☐ arrive

Wed 6:00a Thu 12:00a

[buy direct at:](#)

\$192 OAK > LAS
LAS > OAK

[buy direct at:](#)

\$192 OAK > LAS
LAS > OAK

[buy direct at:](#)

\$192 OAK > LAS
LAS > OAK

[buy direct at:](#)

\$192 OAK > LAS
LAS > OAK

[buy direct at:](#)

\$192 OAK > LAS
LAS > OAK

[buy direct at:](#)

YAHOO! FARECHASE BETA Welcome, **billwaynescott** [\[Sign Out, My Account\]](#) [FareChase Home](#)

[Save to My Web](#) [Recom](#)

Flight Results

Results 1 - 7 of 7 for San Jose, CA to Las Vegas, NV (02/22 - 03/01) (A)

[Change Your Search](#)

Refine Results:

Flight Times from

DEPARTURE

<input type="checkbox"/> 5am - 9am	\$187
<input type="checkbox"/> 9am - 3pm	\$166
<input type="checkbox"/> 3pm - 9pm	\$166
<input checked="" type="checkbox"/> 9pm - 5am	\$192

RETURN

<input checked="" type="checkbox"/> 5am - 9am	\$196
<input checked="" type="checkbox"/> 9am - 3pm	\$194
<input checked="" type="checkbox"/> 3pm - 9pm	\$192
<input checked="" type="checkbox"/> 9pm - 5am	(n/a)

Airports

<input checked="" type="checkbox"/> Oakland - OAK
<input checked="" type="checkbox"/> San Francisco - SFO
<input checked="" type="checkbox"/> San Jose - SJC

SPONSOR RESULTS

Flight to Vegas: Compare at Travelzoo
Save on flights to Vegas at Travelzoo - Get great deals on flights to Vegas by comparing f...
[www.travelzoo.com](#)

Flights to Las Vegas: Sherman's Travel
Search dozens of sites at once for discount offers on airfare, hotels, cruises, car rental...
[www.shermanstravel.com](#)

Sort by: **Low price** | [Departure times](#) | [Return times](#)


\$192 Ted (flight details)
per person **10:19p-11:43p** Non-stop SFO-LAS
7:17p-8:45p Non-stop LAS-SFO **GO!**
[Book it now](#) - [Email](#) - [IM](#)
[flyted.com](#)

\$194 Multiple Carriers (flight details)
per person **10:19p-11:43p** Non-stop SFO-LAS
10:00a-11:25a Non-stop LAS-SJC† **GO!**
[Book it now](#) - [Email](#) - [IM](#)
[cheaptickets.com](#)


Great Flight + I for Las Vegas
Save with add-on hotel to your flig Vegas and save r
[www.cheapticket](#)

Save with Flight deals for Las V
Build your trip to find a great deal! and Go.
[www.orbitz.com](#)

Las Vegas Vac Packages from Lodging.com
Save more when hotel with your fl Vegas.
[www.lodging.com](#)



measuremap


visitors overview

VISITORS

LINKS


COMMENTS

POSTS

BROWSERS

COUNTRIES

TIMES

 back to DASHBOARD

An overview of visitors during January 2006

Visitors to your blog

1480
740

Today Feb

5271 visitors came to your blog
That's 2140 more than an average 10 day period.

10% of those visitors had been to your blog before
That's 521 visitors, 122 more than an average 10 day period.

Some numbers since you started tracking


Your blog has had 908 web sites have made 1424 links out from

Measure Map is Questions or comments? Visit the

Check Mail

Compose

Find Messages... Go

Your Domain Is Active
Yahoo! Webhosting <wh-professional@yahoo-inc.com> 
To: yuiblogger@yahoo.com
Cc: billwscott@gmail.com

Airports

☒ Oakland - OAK
☒ San Francisco - SFO
☒ San Jose - SJC


Flights to Las Vegas: Sherman's Travel
Search dozens of sites at once for discount offers on airfare, hotels, cruises, car rental...
www.shermanstravel.com

Sort by: **Low price** | [Departure times](#) | [Return times](#)

\$166 **JetBlue** (flight details)
per person 1:55p-5:10p 1-stop OAK-LAS
3 return times available at this price
[Book it now](#) - [Email](#) - [IM](#)
jetblue.com

GO!

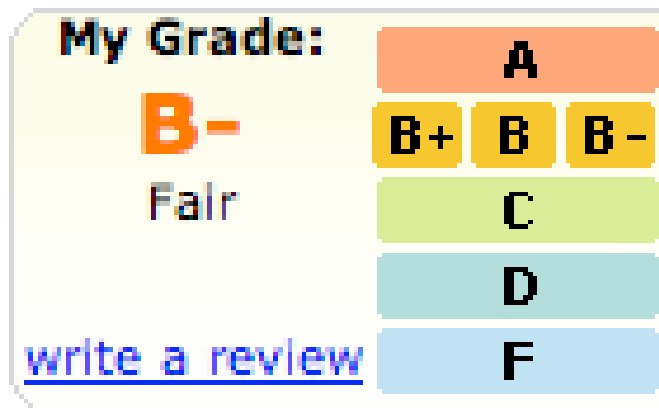
Standard Header ▾ | [Hide Pane](#)
Wed Feb 1 17:06:45 2006



Y!

DESIGNING FOR AJAX

47



My Grade:

B-

Fair

[write a review](#)

A

B+ **B** **B-**

C

D

F

Search **Tags** **Blog Finder** **Popular** **About**

in

882,052 posts about:

president bush

[Search related blogs](#)

Related tags: [Politics](#), [Hurricane Katrina](#), [Iraq](#), [Katrina](#), [Hurricane](#), [Supreme Court](#).

▶ Recent Posts tagged **president bush** [View Tag »](#)

▶ Top Blogs about **president bush** [View Blogs »](#)

20 posts in the last 44 minutes in

Weapons-grade Bullshit

to bring down the evil **Bush**/Cheney/Rumsfeld neo-con cabal, but tragically scoring only collateral... and essentially accused the Vice **President** of the United States of treason—with absolutely no evidence

Posted 9 minutes ago in [protein wisdom](#) [1,004 links](#) [Search this blog](#)

The Shocking Case of Ahmed Omar Abu Ali

members into the U.S. by means of Mexico, to commit aircraft piracy, and to kill **President Bush**

Posted 12 minutes ago in [Cassel: Civil Liberties Watch](#) [0 links](#) [Search this blog](#)

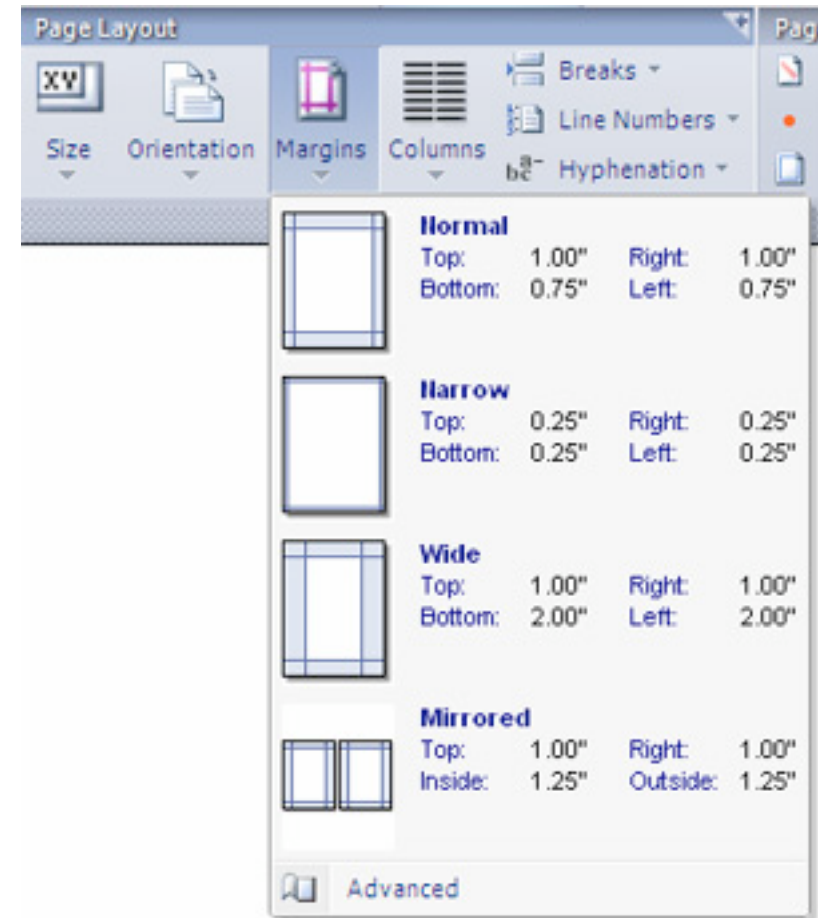
Loading

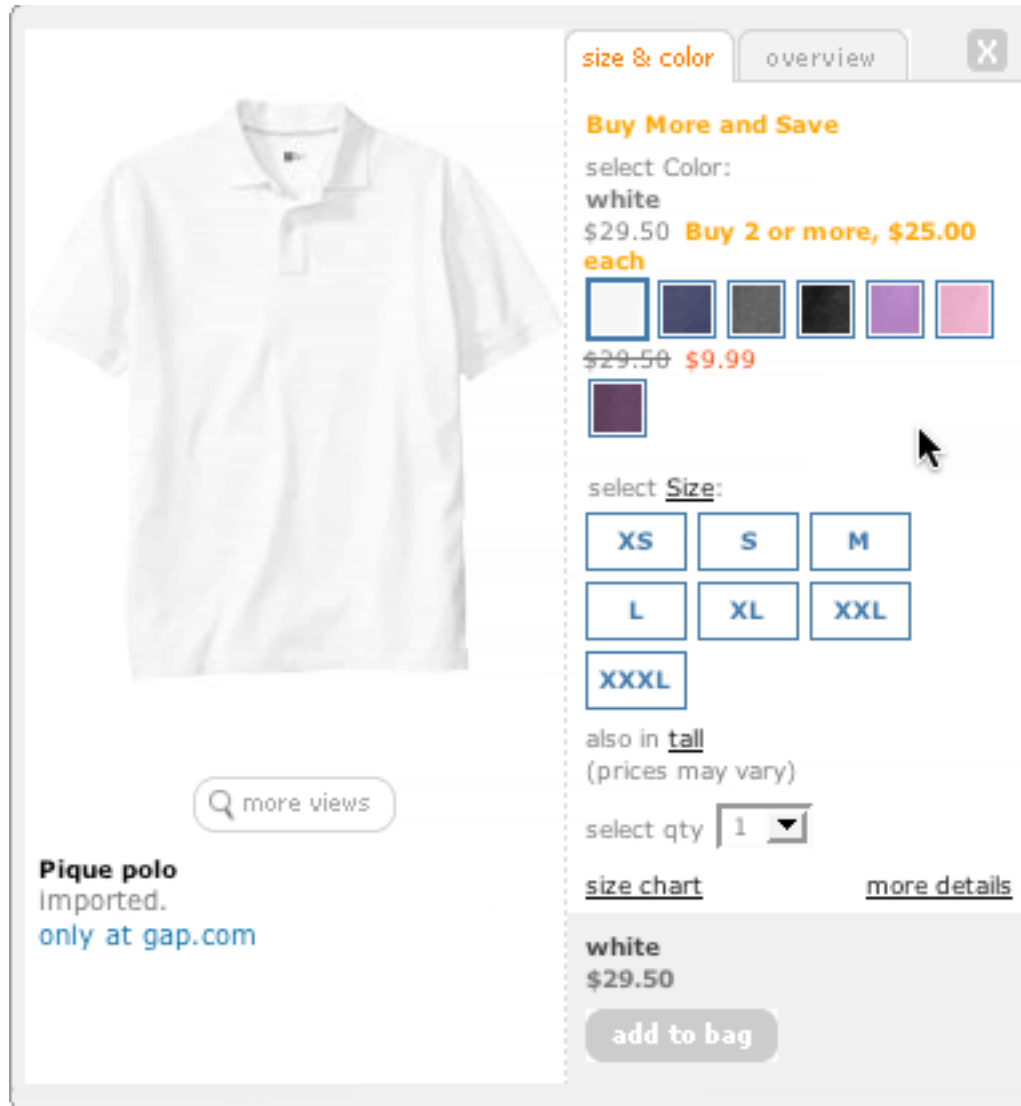
Loading

DESIGNING FOR AJAX

49

- Microsoft Vista/Office 12
 - Hover over gallery item
 - Shows live preview without committing
 - Only on click is the preview accepted
 - At which point the menu goes away and selection is retained
 - Otherwise mouse out returns to normal view





**Indication. Busy Indication.
Cursor Busy. In Context
Busy. In Context Progress.
Inline Status. Auto
Complete. Balloon Error Tip.
Deferred Content Loading.
Dynamic Goal. Narrowing
Choices. Refining Search.
Live Search. Live Preview**

Keep the goal in mind

Design for immediacy

Is it narrowing or is it distracting


Use feedback to boost confidence

Let the user iterate where possible

Most Popular

Most Emailed | Most Viewed | Most Recommended | My Sources

- Lonely elephants, edgy apes baffled by post-Katrina life at zoo Knight Ridder - Sun Oct 16, 4:40 PM ET
- Scientists Study Gorilla
- Inflation Soars Higher
- Rick Springfield's Soa
- Feds Want Banks to S
- All Most Emailed



NEW ORLEANS - An AWOL alligator has resurfaced, elephants are forlorn and apes are agitated at Audubon Zoo, one of the nation's most renowned animal sanctuaries, left by Hurricane Katrina both broken and broke.

World

Just-in-time data

Students to Enroll		
Crew ID	Last Name	First Name
400522	Peterson	Shelley
349294	Craft	Adrian
432939	Douglas	Elyne
468370	Hill	Petra
999380	Barnes	James
344935	Smith	James
139204	Miller	Gordon

Students to Enroll		
Crew ID	Last Name	First Name
400522	Peterson	Shelley
349294	Craft	Adrian
432939	Douglas	Elyne
468370	Hill	Petra
999380	Barnes	James
344935	Smith	James
139204	Miller	Gordon

Course Calendar		
DEC 2005		
S	M	T
4	5	6
11	12	13
18	19	20
25	26	27

Course Calendar		
DEC 2005		
S	M	T
4	5	6
11	12	13
18	19	20
25	26	27

Just-in-time logic



Instant Search **BETA**

 Search the Web

Instant Search gives you answers as you type -- no more waiting!

Why feel lucky when you can be right? With Instant Search, results instantly appear for [Yahoo! Shortcuts](#) and common searches. Give it a spin! Type in these examples below, or try your own searches:

- boston weather
- wikipedia
- nfl
- 22 5th ave new york ny
- san francisco coffee shops
- dmv

YAHOO! search php.net

monterey bay

from the Web next

- + Monterey.com
- + California State University, Monterey Bay
- + Monterey Bay - National Geographic
- + Monterey Bay Aquarium
- + Monterey Bay Aquarium: Live Web Cams
- + City of Monterey
- + NDBC - Station 46042
- + Monterey Bay Aquarium Research Institute
- + Skydive Monterey Bay
- + Monterey Bay

See Also: [monterey bay aquarium](#), [monterey bay clothing](#), [monterey bay ca](#), [cal state monterey bay](#), [monterey bay inn](#), [csu monterey bay](#), [monterey bay suites](#), [monterey bay hotels](#), [monterey bay lodge](#), [monterey bay jobs](#)



Web [Images](#) [Groups](#) [News](#) [Froogle](#) [Local](#) [more »](#)

Google Search I'm Feeling Lucky

pe, Google will offer suggestions. Use the arrow keys to navigate the results. [L](#)

[Feedback](#) - [Discuss](#) - [Terms of Use](#) - [FAQ](#)

©2006 Google

Keep the goal in mind

Design for immediacy

Is it narrowing or is it distracting

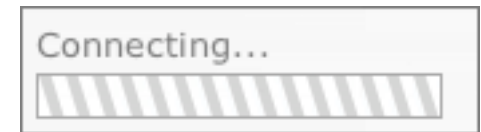
Use feedback to boost confidence

Let the user iterate where possible

Keep the user engaged

Time passes faster

Look for engaging moments



Keep the goal in mind

Design for immediacy

Is it narrowing or is it distracting

Use feedback to boost confidence

Let the user iterate where possible

Keep the user engaged

Time passes faster

Look for engaging moments

Find a domain name:

www.

(ex. widgetdesigns.com)

Search

Required information for Google account

Your current email address:

e.g. myname@example.com. This will be your username and sign-in.

Choose a password:

[Password strength:](#) Too short

Minimum of 6 characters in length.

Use live-previews

Look before you leap

Keep the goal in mind

Design for immediacy

Is it narrowing or is it distracting

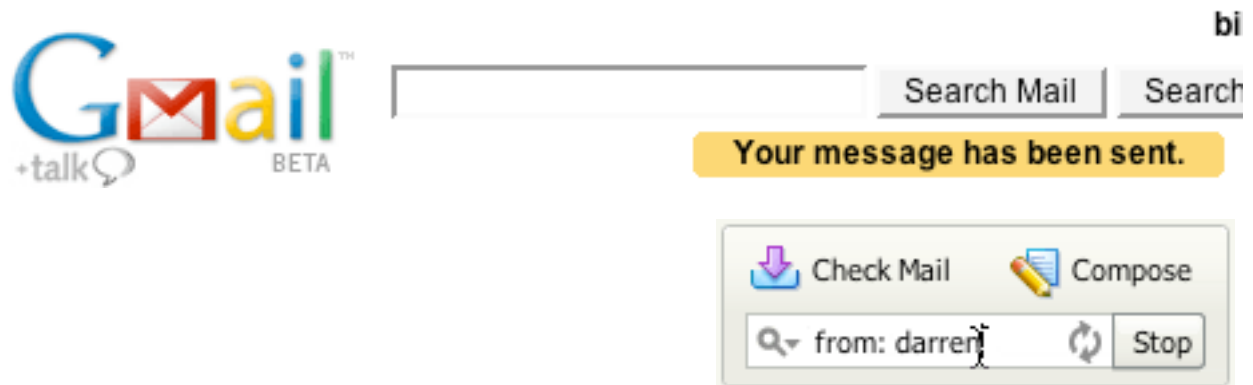
Use feedback to boost confidence

Let the user iterate where possible

Keep the user engaged

Time passes faster

Look for engaging moments



Use live-previews

Look before you leap

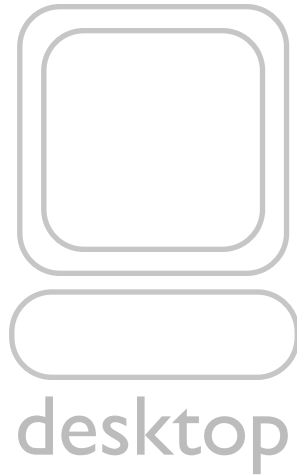
Keep feedback focused

Keep it in context

Updating too many areas at once will be confusing

Show dynamically what is relevant

Avoid creating feedback noise/jitter



hover blur focus **click** key
shiftclick doubleclick
drag dragdrop dragflipdrop
shiftdoubleclick tripleclick shifttripleclick

hover blur focus **click** key
shiftclick doubleclick
drag dragdrop dragflipdrop
shiftdoubleclick tripleclick shifttripleclick



hover blur focus **click**
key shiftclick doubleclick dragdragdrop

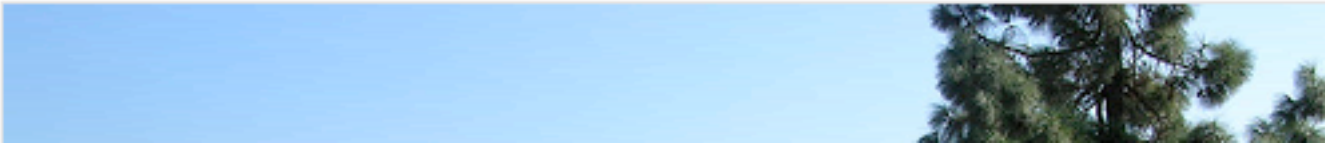
hover blur focus **click**
key shiftclick doubleclick drag dragdrop



Offer an invitation

Park near our new home

 ADD NOTE  SEND TO GROUP  ADD TO SET  BLOG THIS  ALL SIZES  ORDER PRINTS  ROTATE  DELETE 



Lists

☐ Remove this item

Add item or I'm done adding items

Make a new list

My Grade:

A
B+ B B-
C
D
F

B-
Fair

[write a review](#)

classic



Pique polo
~~\$9.99~~-\$29.50
Buy More and Save





double mini striped
pique polo
\$29.50
Buy 2 or more, \$25.00
each [See All](#)



allover striped pique
polo
\$29.50
Buy 2 or more, \$25.00
each [See All](#)



rugby stripe pique polo
\$29.50
Buy 2 or more, \$25.00
each [See All](#)

	From	Subject
	Peter Diersma	Re: [10] Dr.
	Yahoo! Toolbar	Welcome to
	Weekend Extra	5 Tips for

To see a product preview in action, hover over the link below.



Forty Associates recently added product previews to their Web site as part of a small beta program. During the beta, visitors to Associate sites who viewed a product preview clicked through to Amazon.com over 4% of the time; those clicks resulted in a purchase nearly 6% of the time.

Now we're opening the beta up to all Associates to further improve product previews. The first 500 Associates who refer a sale through a product preview-enhanced link will receive a \$5 Amazon gift certificate. [Click here to join your fellow Associates in beta testing product previews.](#)

Don't worry if you don't already have Basic Display Product Links on your Web site. You can create them as part of the sign-up process. [Click here](#) for answers to questions you might have about the beta program.

Hello Bill [Sign Out, My Account]

☁ 48° - 60°

+

Add Content

↕

Change Layout

🎨

Change Colors

▼ Best Fare Tracker

edit ✕

Depart: New York, NY - all

Paris, France - all \$193.00

Depart: Seattle/Tacoma, WA

Honolulu, HI \$333.60

Depart: San Francisco, CA

London, United Kingdom - all \$253.00

Find other Best Fares:

From:

To:

Adults: 1

▼

Search

Disclaimer

* Some taxes and fees additional.

▼ Scoreboard

edit ✕

TODAY

no games for selected teams

YESTERDAY

▼ NHL

Detroit vs. Dallas 1 2 F
ot

▼ NBA

Utah vs. Dallas 89 103 F


Listen to live audio of college games

▼ Message Center

edit ✕

Check Email




Launch Messenger 11 friends on



DESIGNING FOR AJAX

62

Students to Enroll

	Crew Id	Last Name	First Name
	349394	Craft	Adrian
	432939	Douglas	Elayne
	468370	Hill	Petra

Course Calendar

DEC 2005						
S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
	600922/Peterson		999300/Barnes 344935/Smith 139204/Miller			
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

**Invitation. Cursor Invitation.
Drop Invitation. Tool Tip
Invitation. Hover Invitation.**

Make it engaging

Use lightweight events as a welcome mat

Rediscover the hover

My Grade:

A
B+ B B-
C
D
F

B-
Fair

[write a review](#)

Lists

☐ Remove this item

Add item or I'm done adding items

[Make a new list](#)

Make it engaging

Use lightweight events as a welcome mat
Rediscover the hover

Keep actions out of it

Don't make the user afraid to explore
Don't proselytize

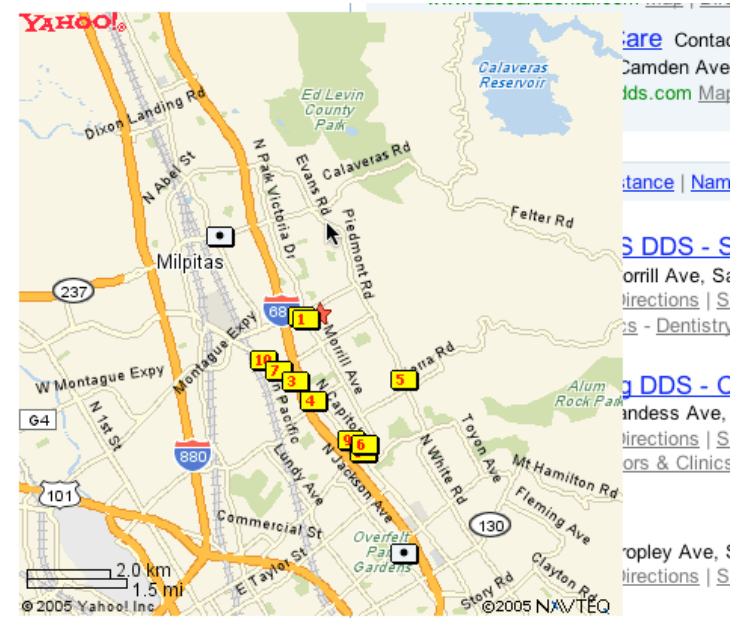
To see a product preview in action, hover over the link below.



Forty Associates recently added product previews to their Web site as part of a small beta program. During the beta, visitors to Associate sites who viewed a product preview clicked through to Amazon.com over 4% of the time; those clicks resulted in a purchase nearly 6% of the time.

Now we're opening the beta up to all Associates to further improve product previews. The first 500 Associates who refer a sale through a product preview-enhanced link will receive a \$5 Amazon gift certificate. [Click here to join your fellow Associates in beta testing product previews.](#)

Don't worry if you don't already have Basic Display Product Links on your Web site. You can create them as part of the sign-up process. [Click here](#) for answers to questions you might have about the beta program.



Make it engaging

Use lightweight events as a welcome mat
Rediscover the hover

Keep actions out of it

Don't make the user afraid to explore
Don't proselytize

Park near our new home

ADD NOTE SEND TO GROUP ADD TO SET BLOG THIS ALL SIZES ORDER PRINTS ROTATE DELETE X



Get the actors involved

Hover Invitation

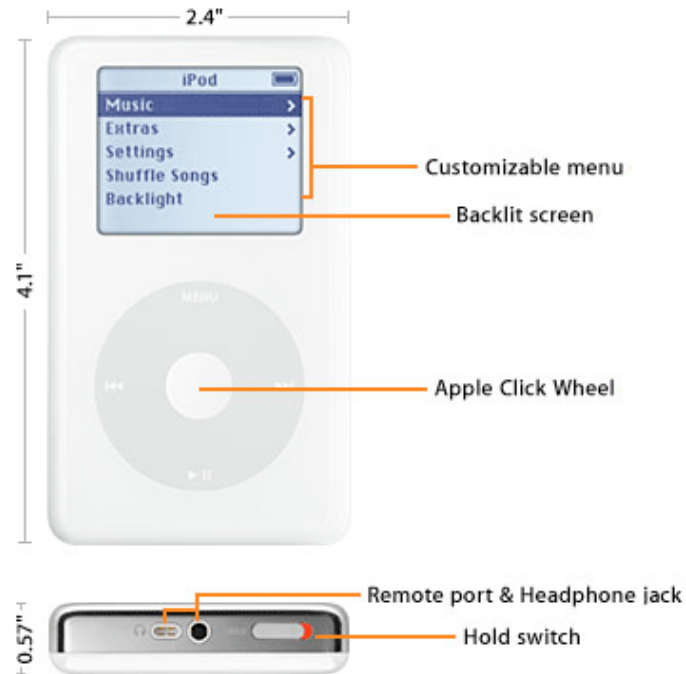
Cursor Invitation

Tooltip Invitation



Make it engaging

Use lightweight events as a welcome mat
Rediscover the hover



Keep actions out of it

Don't make the user afraid to explore
Don't proselytize

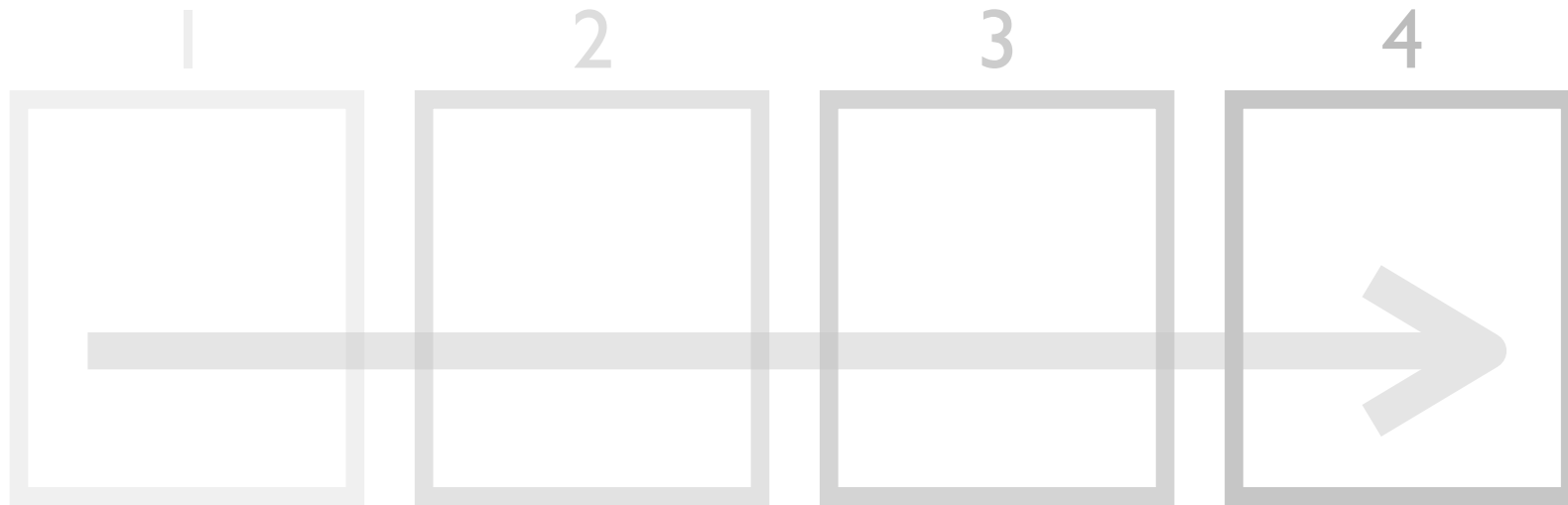


Get the actors involved

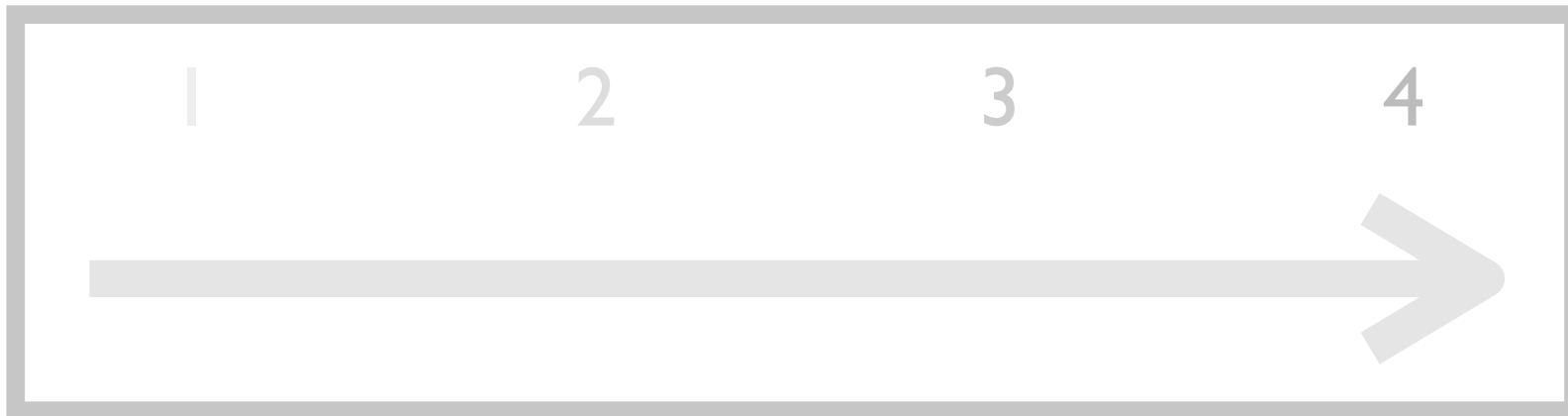
Hover Invitation
Cursor Invitation
Tooltip Invitation

Use invitations to aid discoverability

Two challenges: idiom & feature
Adding signposts, always-on clues doesn't scale
Add tours, help pedals, tips, spotlights



classic flow across pages



rich flow within page

4

Cross borders reluctantly

Rico LiveGrid

RICO AJAX SEARCH

LiveGrid Demonstration

Powered by Yahoo! Search

Select Search Category: **Web** Images Videos

Search the Web:

Search Results Results 1 - 5 of about 10600000 for monterey bay

1. [Monterey.com](http://www.monterey.com/)
guide to attractions, lodging, dining, and more. A service of the Monterey Peninsula Visitors and Conventions Bureau.
<http://www.monterey.com/> - text/html
2. [California State University, Monterey Bay](http://csumb.edu/)
comprehensive state university which values service through high quality education.
<http://csumb.edu/> - text/html
3. [Monterey Bay - National Geographic](http://www.nationalgeographic.com/monterey/ax/primary_fs.html)
Monterey Bay @ nationalgeographic.com ...
http://www.nationalgeographic.com/monterey/ax/primary_fs.html - text/html
4. [Monterey Bay Aquarium](http://www.mbayaq.org/)
mission is to inspire conservation of the seas.
<http://www.mbayaq.org/> - text/html
5. [Monterey Bay Aquarium: Live Web Cams](http://www.mbayaq.org/efc/cam_menu.asp)
Eight live web cameras of the Monterey Bay Aquarium's marine life exhibits and Monterey Bay, Monterey, CA. ... Monterey Bay Aquarium, 886 Cannery Row, Monterey, CA 93940 Tel: (831) 648-4800. A© 1999-20
http://www.mbayaq.org/efc/cam_menu.asp - text/html

YAHOO! MAIL BETA Welcome, **b.scott** [Sign Out](#) [My Account](#) [Switch Back](#) [Yahoo!](#) [My Yahoo!](#) [News](#)

Inbox 2324 messages [Send Feedback](#) [Options](#) [Help](#)

From	Subject	Received
me	Re: rico question	Thu, 1/19/2006 01:13
Bill Scott	[Looks Good Works Well]	Thu, 1/19/2006 01:13
JDJ Industry Newsletter	Java Named "Programming Language of the Year"	Thu, 1/19/2006 01:13
Travelocity Member Services	Price Alert! Flight + 5 Night Hotel to Honolulu	Thu, 1/19/2006 01:13
Theresa Neil	Re: Job Description	Thu, 1/19/2006 01:13
Damon Houglund	Job Description	Thu, 1/19/2006 01:13
Finan, Angelique	RE: Speaking Engagement Opportunity	Thu, 1/19/2006 01:13
David Schontzler	Re: [ng-dhtml] assert(), isNaN(), isOfT	Thu, 1/19/2006 01:13
TagWorld	This week in TagWorld	Thu, 1/19/2006 01:13
me	rico question	Thu, 1/19/2006 01:13
Anonymous	[Looks Good Works Well]	Thu, 1/19/2006 10:22
Anonymous	[Looks Good Works Well]	Thu, 1/19/2006 10:19
Anonymous	[Looks Good Works Well]	Thu, 1/19/2006 10:19
Anonymous	[Looks Good Works Well]	Thu, 1/19/2006 10:19

[Standard Header](#) [Hide Pane](#)

Got your eye on one of those messages up there?
To view your message down here in this handy Reading pane, just click on it. To select more than one, hold the Shift or Command key.

My Folders [Add](#)

- dojo-mailist** (4)
- ID Disc
- Karthik-Referrals
- Keep
- MerchantSpam** (149)
- ux mail lists** (1863)

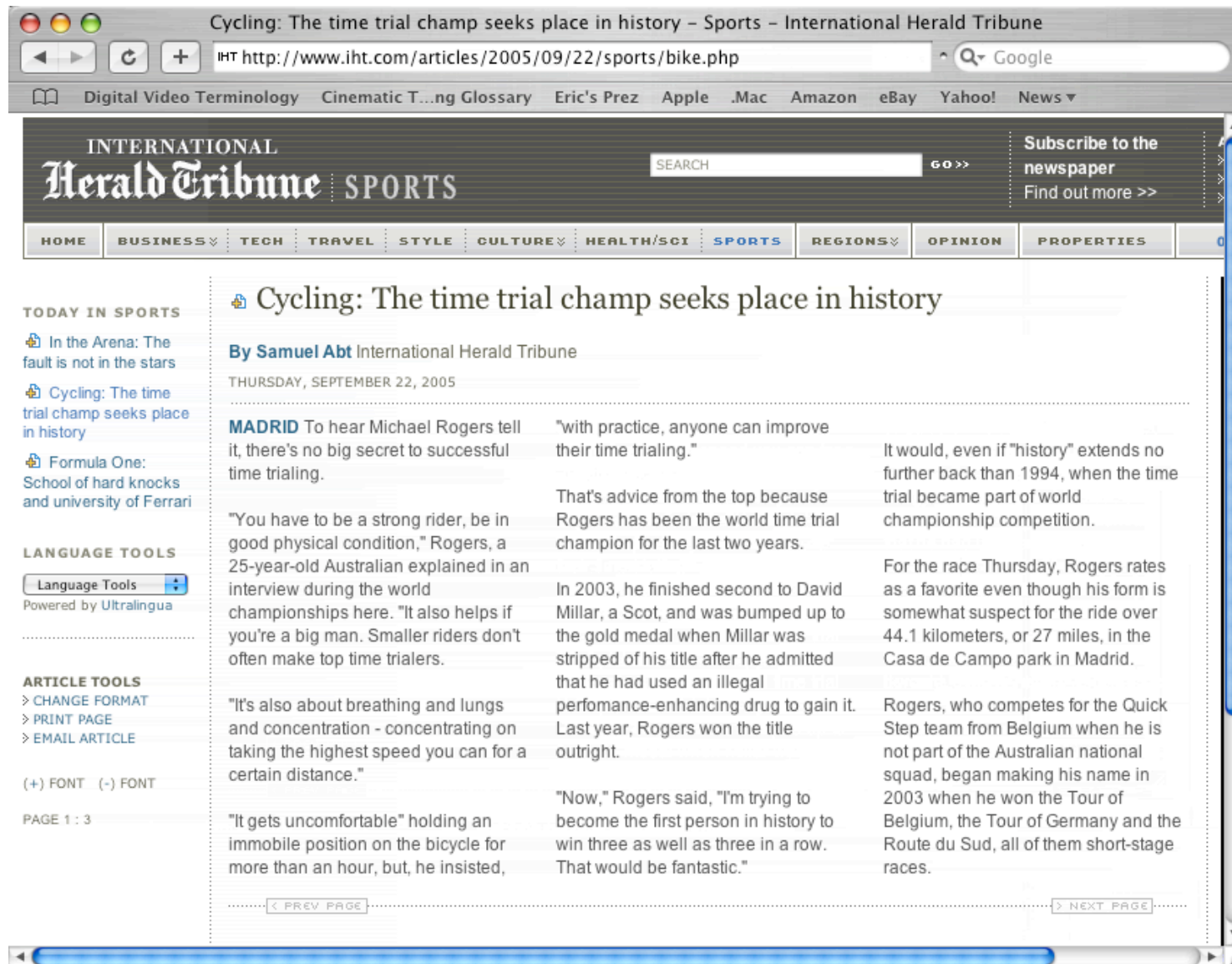
What's your Credit Score?

Netflix-Try Free! No Late Fees

Online Degree Programs


Yahoo! Mail Beta (Oddpost)

- At the very least make your paging fast



Buy 1 or more, save \$14.55 each [See All](#) #308593 prices may vary

select Color: navy
\$44.50 Buy 1 or more, save \$14.55 each [See All](#)



select Waist: 38W select Length: 30L

28W	29W	30W	31W
32W	33W	34W	35W
36W	38W	40W	42W
44W	46W		

[size chart](#)

Quantity: navy, 38W 30L
\$44.50 [add to bag](#)

CH

▼ Search by topic

Contact: [Private](#)

How can we be of service?

Select...

kaboodle

Signed in as [billwscott](#) | [Send Feedback](#) | [Help](#) | [My](#)

- Select Page: or [Create new page](#)
- Review Item:

About VideoEgg

VideoEgg
Added by billwscott (12/1/05) from www.videoegg.com
It means internet video publishing as simple as it ought to be—like posting a photo or frying an egg. VideoEgg, Inc. is an innovative, venture-backed company committed to...

Does it look OK to you? If not, then [fix details](#).
- [Submit](#) [Cancel](#)



select Color: **babe pink combo** #357223
\$14.50

☐ ☐ ☐

select Size:

[size chart](#)

Quantity:

babe pink combo
\$14.50

select

please select a Size before adding to bag

[more views](#)

Required information for Google account

Your current email address:
e.g. myname@example.com. This will be your username and sign-in.

Choose a password:
Minimum of 6 characters in length.

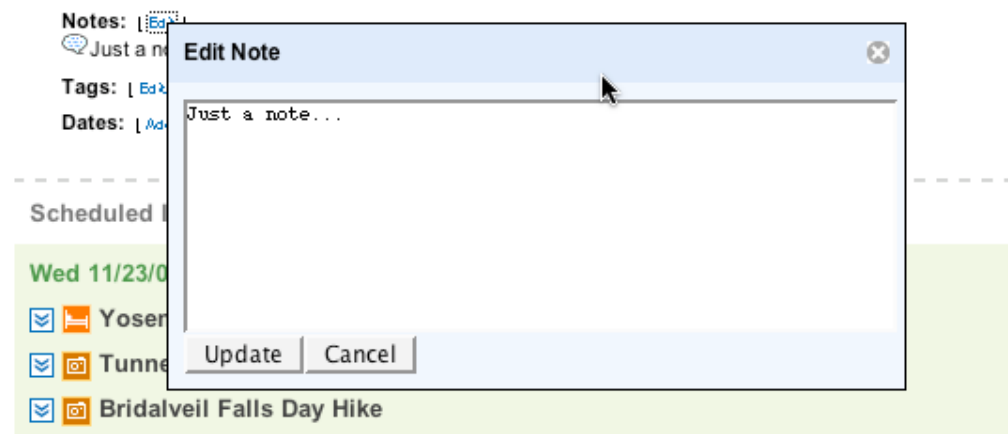
Password strength: Too short

Find a domain name:

www.
(ex. widgetdesigns.com)

Search

- For **introduction** of features
- For giving **instruction**
- For revealing **information**
- For **interrogative** feedback
- For obtaining **input**
- For important **interruptions**
- For **indication** of status or progress
- For offering an **invitation**



Wired News: Top Stories

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[Christians Code Heavenly Games](#)
[Cloning the Best in Show](#)
[Brain Workouts May Tone Memory](#)









Movies

[edit](#) 
[Showtimes for 76208 »](#)


Must Love Doos 1hr 30min - Rated PG-13

Schedule View
Map View
Expand all

+ Add
Hotels
Things to do
Restaurants
Shopping
Entertainment
+ Create Item


Trip Album








Add Photos »


Yosemite National Park


☒

John Muir Vernal Falls Mist Trail Hike
» Schedule

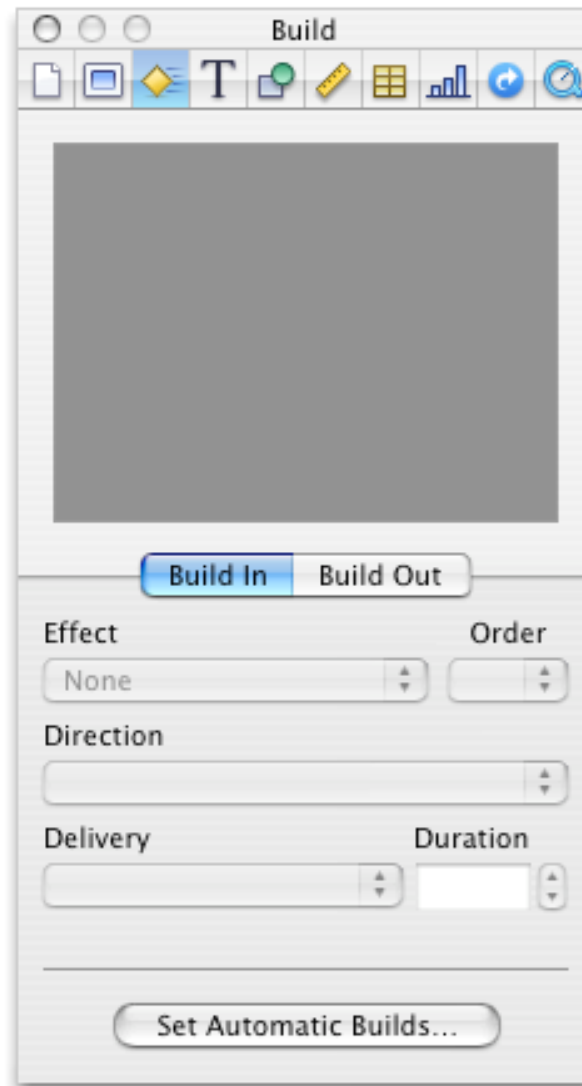
Scheduled Items

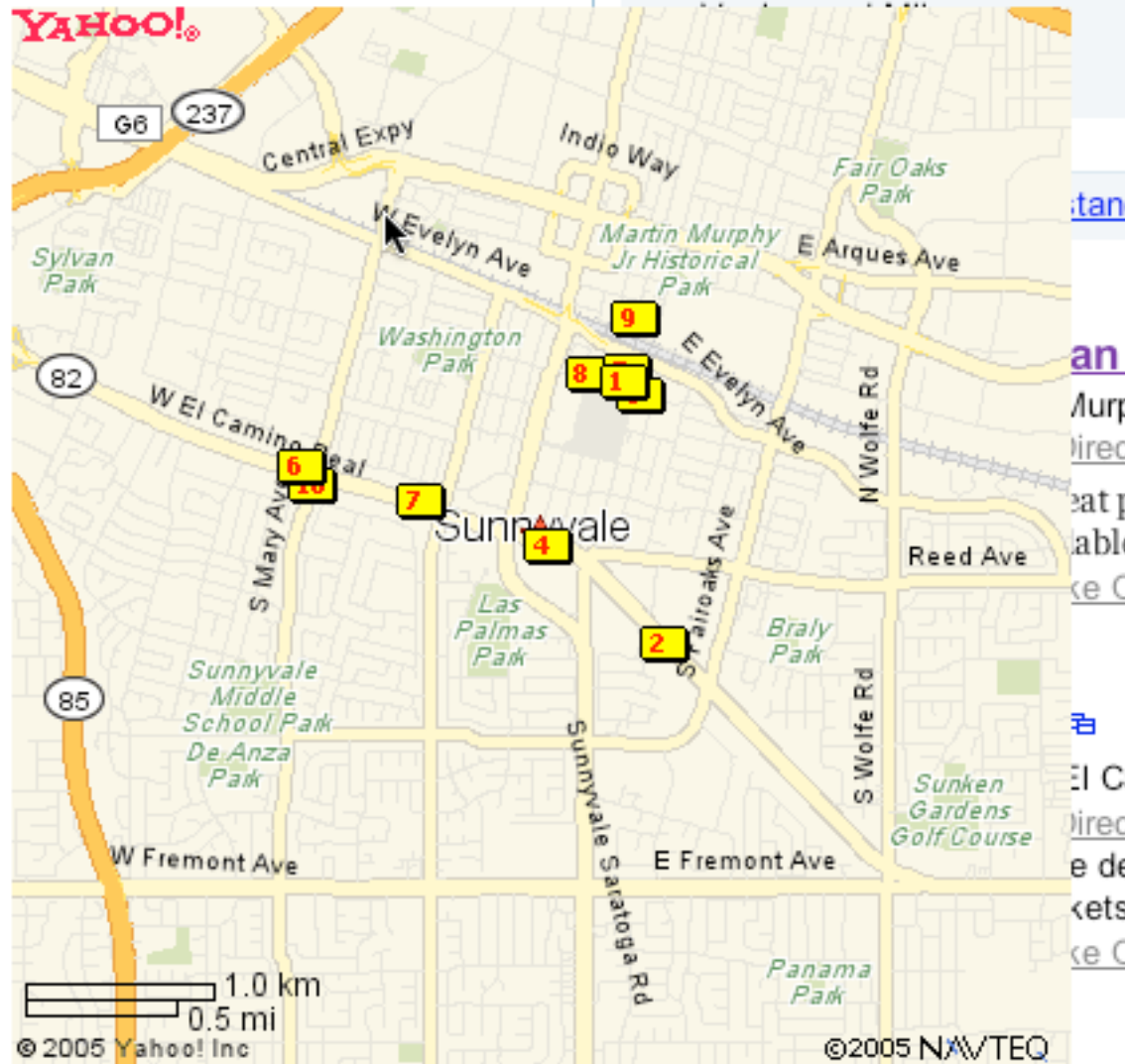
Wed 11/23/05 (day 1) - Yosemite Natl Pk, Yosemite National Park

☒

Yosemite Lodge

☒

Tunnel View

☒

Bridalveil Falls Day Hike





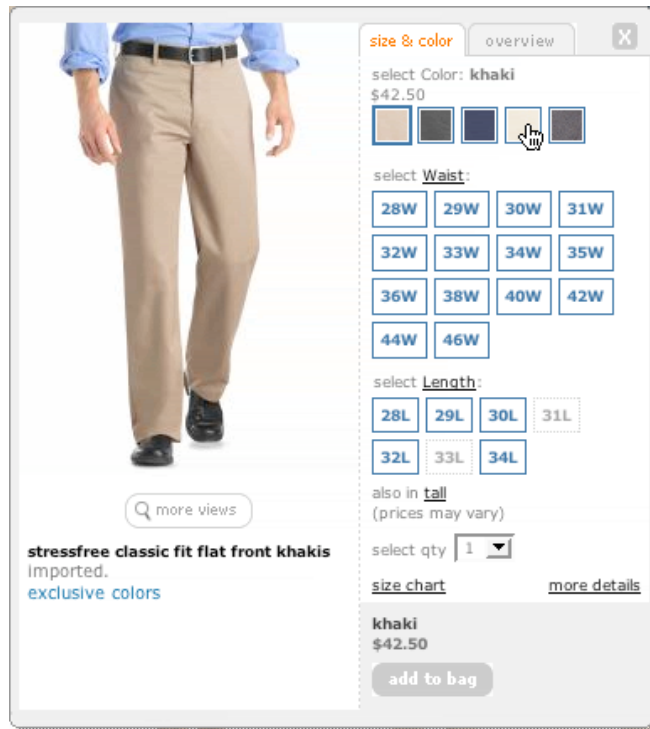
3. [Il Postale](#)

**Endless Scrolling. Expandable Paging
Boundary. Fresh Content. Hover Detail.
In Place Drill Down. Inline Assistant.
Inline Validation. Validate Then Suggest.
On Demand Refresh. Resizable Modules.
Scrolling Modules. Detail Zoom. Opacity
Focus. Configurable Module-Faceplate.
Configurable Module-Flip It.
Configurable Module-Inline Configure.
Configurable Module-Slide Out Drawer.
Slide Out. Flip. Opacity Fade.**

Rethink process flows

Its the user's model, not the page model

Every page jump is a mental speed bump





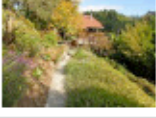




Rethink process flows

Its the user's model, not the page model
Every page jump is a mental speed bump

Rethink paging

Its the user's model, not the paging model
Use scrolling for "owned" data
Watch out for dual scroll bar issue

Photo Click for info	Price	Bd/Ba Sq Ft	Address and Area Presented By	MLS # (Click for info)	More Photos (Click for info)	Virtual Tours (Click for info)
	\$1,750,000 Single Res	6+, 4+ 3700	14080 BEAR CREEK RD Boulder Creek, CA 95006 (San Lore Valley) Schwarzbach Associates			
	\$1,995,000 Single Res	6+, 4+ 5675	17617 MOUNTAIN CHARLIE RD LOS GATOS, CA 95033 (Unincorporated Los Gatos Mtns) Almaden Oaks Realtors			
	\$2,286,000 Single Res	5, 4+ 4800	20930 PANORAMA DR Los Gatos, CA 95033 (Los Gatos Mtns) Alain Pinel Realtors			
	\$2,750,000 Single Res	5, 4+ 5000	155 LARITA DR Ben Lomond, CA 95005 (San Lore Valley) Network Alliance Real Estate			
	\$2,777,000 Single Res	5, 4+ 5819	777 HAPPY VALLEY RD Scotts Valley, CA 95065 (Scotts Valley) Linda Burroughs Real Estate			

RICO AJAX SEARCH


LiveGrid Demonstration

Powered by Yahoo! Search


Select Search Category: Web **Images** Videos

Search Images:


Search Results Results 1 - 5 of about 1580284 for flowers




flowers 025
flowers021.jpg 110k 29Feb2004 flowers022.jpg 783k 29Feb2004 flowers023.jpg 186k
http://wp.li.ru/flowers
1024x768 - jpeg fmt - 0.3MB




flowers 063
flowers059.jpg 122k 29Feb2004 flowers060.jpg 134k 29Feb2004 flowers061.jpg 120k
http://wp.li.ru/flowers
1024x768 - jpeg fmt - 0.1MB



flowers 045
flowers041.jpg 277k 29Feb2004 flowers042.jpg 125k 29Feb2004 flowers043.jpg 744k
http://wp.li.ru/flowers
1024x768 - jpeg fmt - 0.1MB



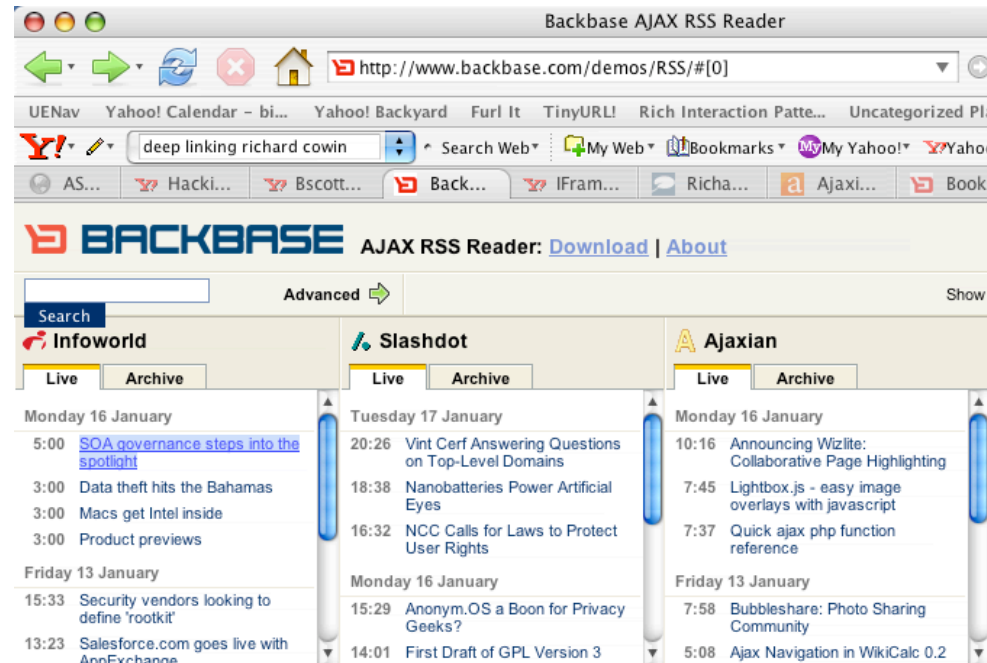
flowers 076
flowers072.jpg 820k 29Feb2004 flowers073.jpg 160k 29Feb2004 flowers074.jpg 120k
http://wp.li.ru/flowers
1024x768 - jpeg fmt - 0.1MB



flowers 019
flowers015.jpg 781k 29Feb2004 flowers016.jpg 455k 29Feb2004 flowers017.jpg 143k
http://wp.li.ru/flowers
1024x768 - jpeg fmt - 0.3MB

Rethink process flows

Its the user's model, not the page model
Every page jump is a mental speed bump



Plan for linking, crawling and back button

Not everything is a single page application
What will the user think the back button does?

Rethink paging

Its the user's model, not the paging model
Use scrolling for "owned" data
Watch out for dual scroll bar issue

Use overlays

For momentary interruption

Replace page transition

When editing an individual, more complex item

Be symmetrical

Not disturb the page

- **Starter Web Page**

Publish basic information on a placeholder [web page](#) — until you're ready to upgrade to a full web site.

[View a sample.](#)

- **Domain Locking**

Safeguard your domain from hijacking and unauthorized transfers with [domain locking](#). Yahoo! Domains secures your domain for you — and only you.

- **Domain Forwarding**

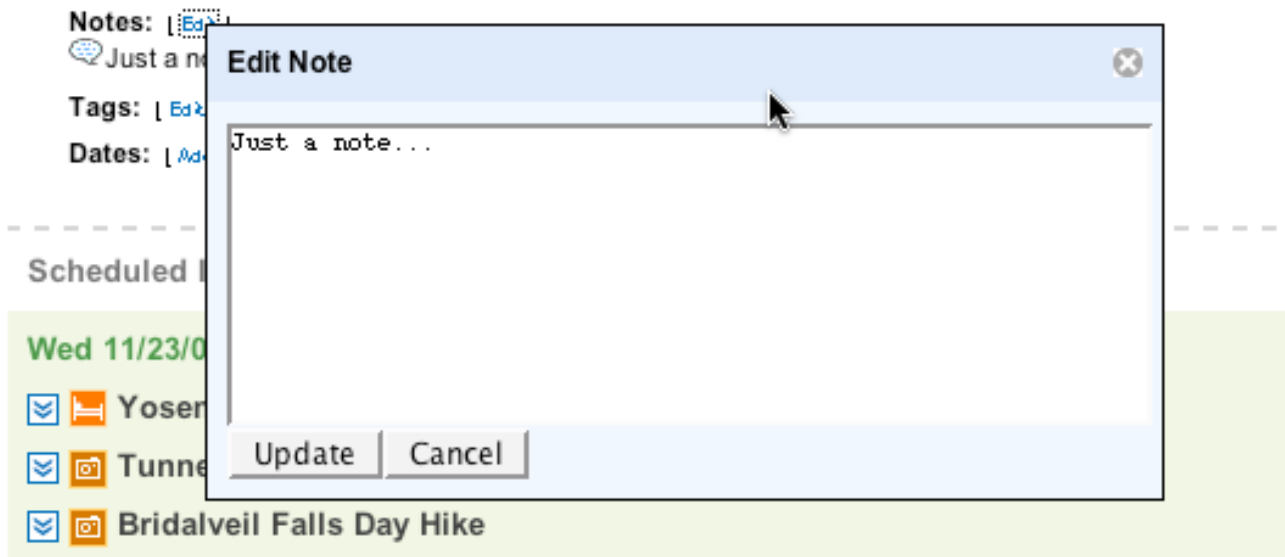
Point your new domain name to a web site you already have with [domain forwarding](#). This is a useful feature if you own multiple domain names.

- **Complete Domain (DNS) Control**

Advanced users: You can easily edit your name servers and [MX](#), [A](#), and [CNAME](#) records for complete control over your domain.

- **Email Forwarding**

Unlimited [forwarding](#) of messages sent to your new domain name into your free Yahoo! email account.



Use overlays

For momentary interruption

Replace page transition

When editing an individual, more complex item

Be symmetrical

Not disturb the page

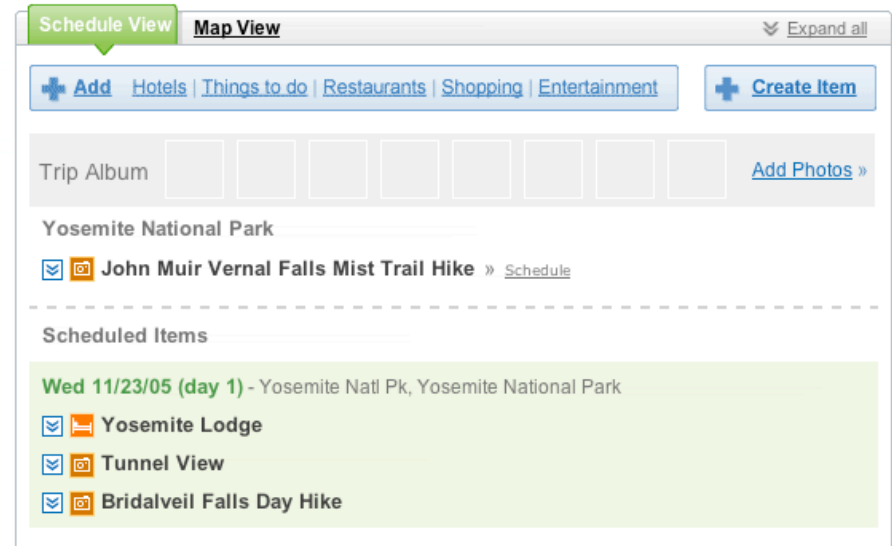


Use in-context expands

For editing part of a collection

Need to see surrounding context

For managing content modules



Use overlays

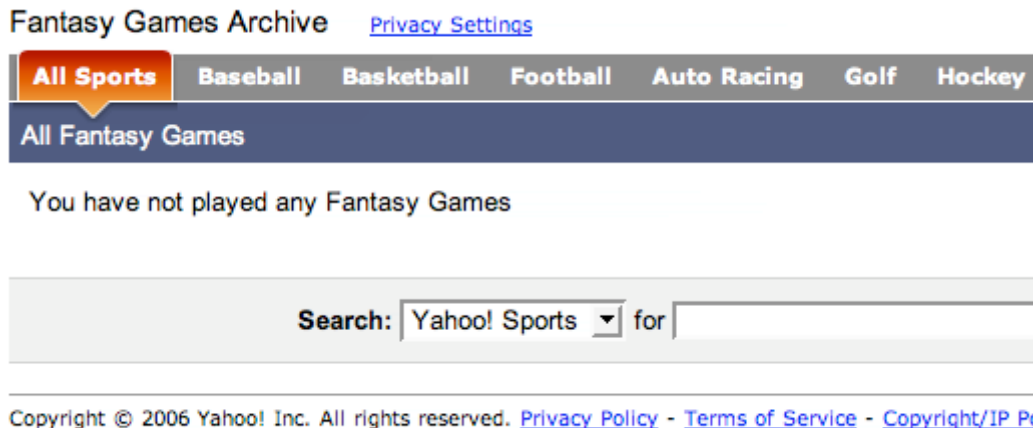
For momentary interruption

Replace page transition

When editing an individual, more complex item

Be symmetrical

Not disturb the page



Use space creatively

Slide, zoom, flip, lens, fade

Think of your backstage

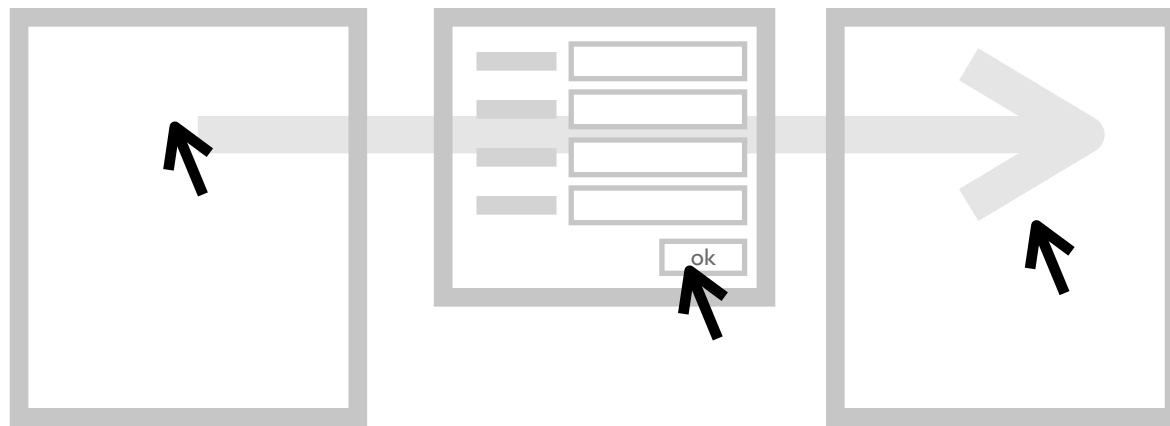
Use in-context expands

For editing part of a collection

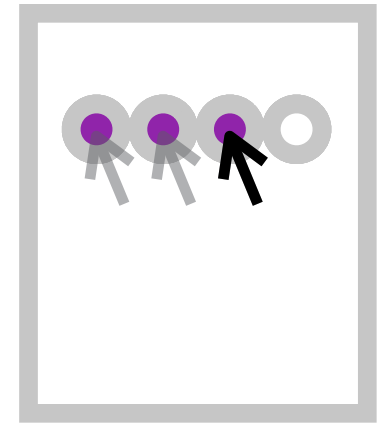
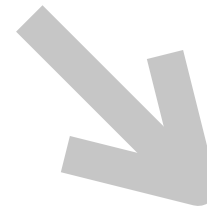
Need to see surrounding context

For managing content modules





heavy click-weight



light-weight
actions



Leave a light footprint

1 2 3 4 >> [See All](#)

straight fit



loose staight fit
(sandblasted vintage)
\$49.50



straight fit corduroy
pants
\$44.50
Buy 1 or more, save
\$14.55 each [See All](#)



straight fit (blasted
black)
\$49.50



straight fit (dark
authentic)
\$44.50

Tunnel View [View](#) | [Map](#) | [Delete](#)

Bridalveil Falls Day Hike

Pages Writeboards Reminders

Add tags

Bill's Work – To Do

Body List Notes Files Images Writeboards Links Sharing ?

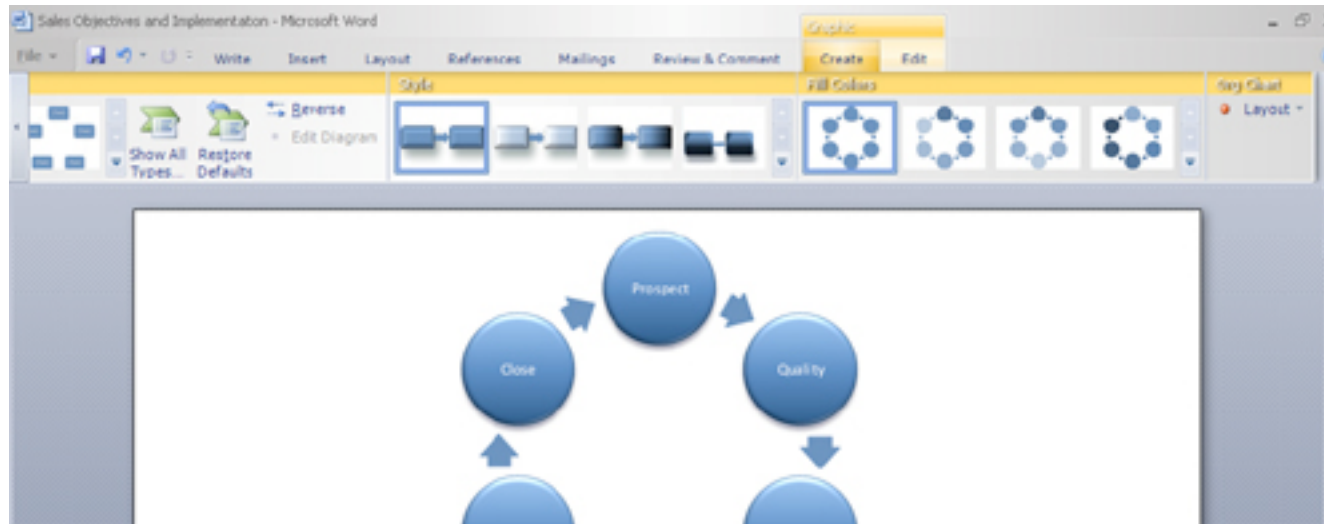
Lists

Public Pattern Project

- ☐ Create Taxonomy Tree for all current patterns
- ☐ Finish Transition Patterns
- ☐ Move public patterns to new template and stage
- ☐ Creative Commons License
- ☐ ----
- ☐ YDN Patterns Blog Article
- ☐ Schedule review meeting for Wed
- ☐ Schedule review meeting for Friday

[Add Item](#) [Reorder](#)

- Microsoft Vista, Office 12
Contextual Command Tabs



RECOMMEND THIS STORY

Recommend It:




Average (63 votes)

**Sauce****(415) 252-1369**131 Gough St
San Francisco, CA 94102Cross Street:
Near intersection of Gough St and Lily Stwww.saucesf.com

Average Rating (10)

[Read 10 reviews](#)**Rate it:**[Write a Review](#)

 0 items in [my bag](#) [checkout](#)

Pique polo

[only at gap.com](#)

overview

you'll also like

Soft cotton pique knit.
Short-sleeved, button neckline.








- [Need large quantities? Click for Corporate Apparel](#)
- 100% Cotton. Machine wash. imported.

regular

tall

Buy More and Save #346927
prices may vary

select Color: **royal grape**
\$29.50 **Buy 2 or more, \$25.00 each**



~~\$29.50~~ **\$9.99**

select Size:

XS

S

M

L

XL

XXL

XXXL

[size chart](#)

Quantity:

royal grape
~~\$29.50~~ **\$9.99**

add to bag


**Auto Save. In Context
Tools. In Page Action.
Remembered Collection.
Remembered
Preferences. Auto Form
Fill. Live Ratings.**

Watch your click weight

Keep actions immediate and light
Count “clicks”

Classics

Recommendations




High Plains Drifter

★★★★★
Not Interested

Amid shoot-outs and existentialism, a mysterious stranger (Clint Eastwood, who also directs) is hired to protect a small town from outlaws. But his recipe for defense could be a deal with the devil, and soon, even the enigmatic gunslinger's ... [Read More](#)

Add



The Great Escape

★★★★★
Not Interested


Director John Sturges's Oscar-nominated adventure classic follows the true tale of a group-escape attempt from one of Germany's toughest prisoner-of-war camps. Hundreds of Allied POWs join Roger "Big X" Bartlett (Richard Attenborough), Danny "The ... [Read More](#)

Add

[More Recommendations >](#)

Featured Subgenre

CLASSIC COMEDIES




Fun with Dick and Jane

★★★★★
Not Interested

George Segal and Jane Fonda play Dick and Jane, two up-and-coming yuppies who exemplified the lifestyle before there was even a name for it. But when Dick loses his lucrative job, the two face a ... [Read More](#)

Add



Monty Python's Life of Brian

★★★★★
Not Interested

The crown princes of British comedy are at it again -- this time, in a send-up of the life and times of Jesus Christ. Perhaps the most controversial

Add

Watch your click weight

Keep actions immediate and light
Count “clicks”

Design for engaging moments

Use invitations

Keep it fun, exciting and light

Treat it like an impulse aisle



Watch your click weight

Keep actions immediate and light
Count “clicks”

Design for engaging moments

Use invitations
Keep it fun, exciting and light
Treat it like an impulse aisle

RECOMMEND THIS STORY

Recommend It:



Average (63 votes)



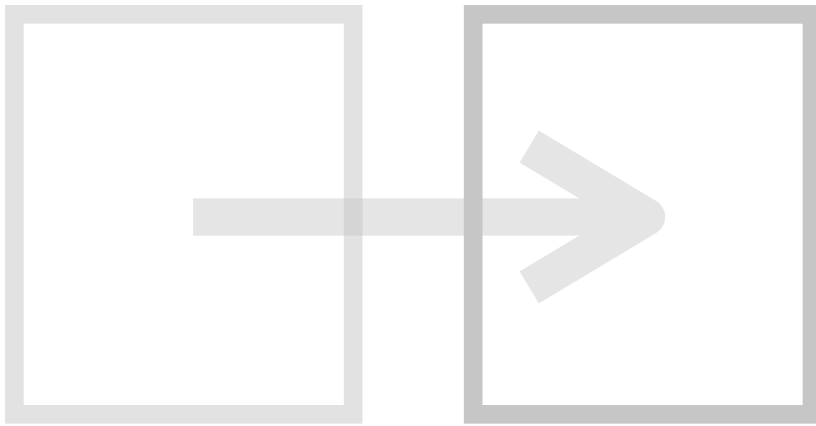
Use lightweight events

Hover

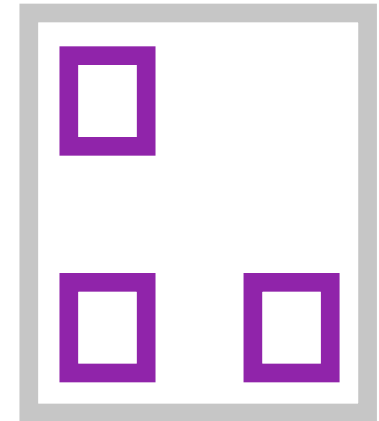
Blur, focus

Click. Avoid double-click





page-based transitions



multiple transitions,
single page



Show transitions



Yosemite Thanksgiving [\[Edit \]](#)

A trip to YOSEMITE NATIONAL PARK
Fun in Yosemite with Daniel & Kids

☒ [This trip is public](#) • [Sharing settings](#) • [Email this trip](#)

[\[Update photos \]](#)

Schedule View

Map View

[Expand all](#)

[+ Add](#) [Hotels](#) | [Things to do](#) | [Restaurants](#) | [Shopping](#) | [Entertainment](#)

[+ Create Item](#)

Trip Album         [Add Photos »](#)

Yosemite National Park

  **John Muir Vernal Falls Mist Trail Hike** » [Schedule](#)

Scheduled Items

Wed 11/23/05 (day 1) - Yosemite Natl Pk, Yosemite National Park

  **Yosemite Lodge**

From \$97.00 to \$146.00 per night. • [Reserve Now](#)

 559-252-4848
Yosemite Natl Pk, CA 95389
United States
In the valley of Yosemite National Park

Notes: [\[Edit \]](#)

Tags: [\[Edit \]](#)
yosemite, hiking




[Women](#) [GapBody](#) [GapMaternity](#) [GapKids](#) [babyGap](#) [my account](#)
see order status
sign in

3 items in [my bag](#) [checkout](#)


Shoes, Belts & More

[1](#) [2 >>](#) [See All](#)


bags




Premium canvas duffle bag
\$49.50



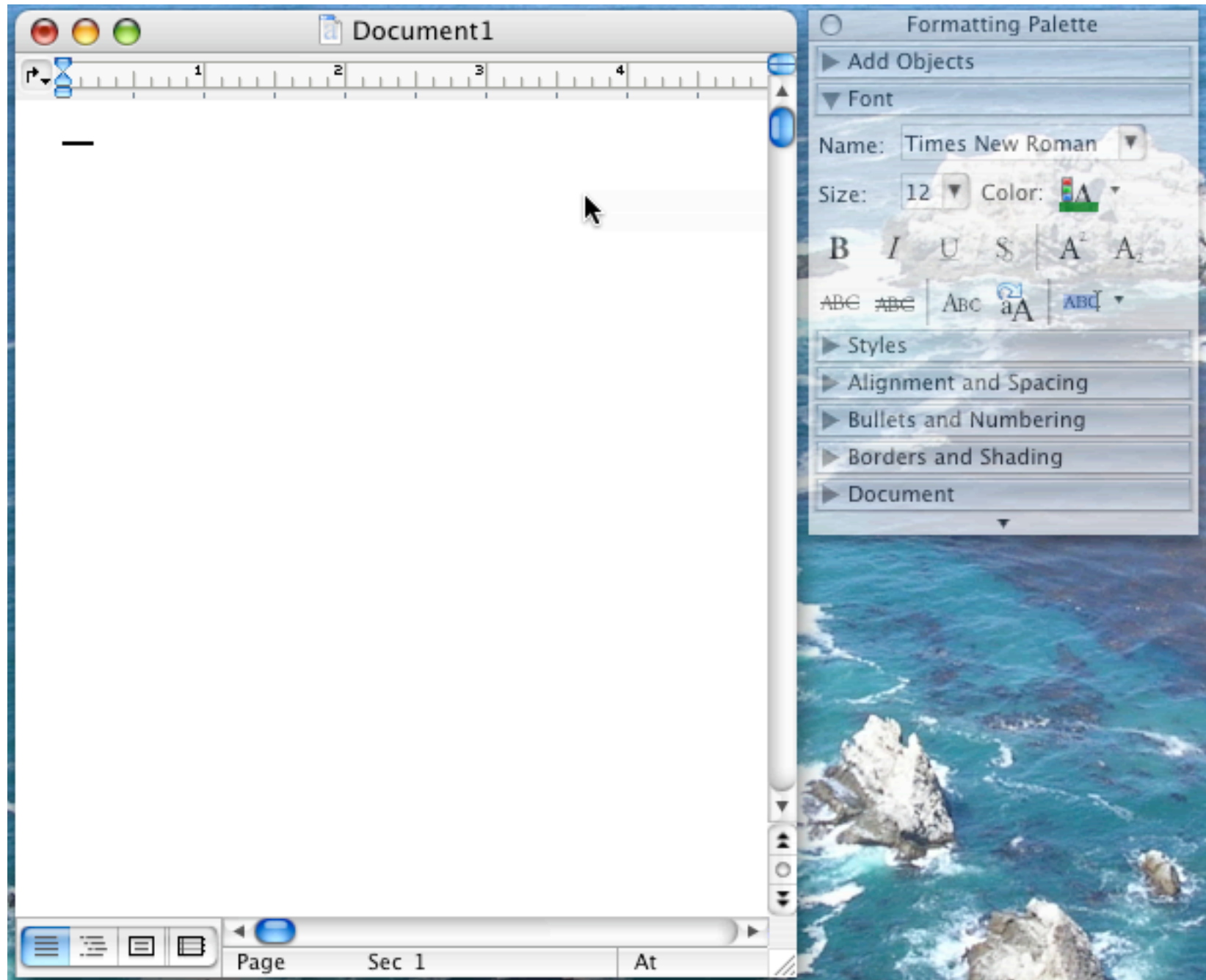
urban nylon sling bag
\$34.50



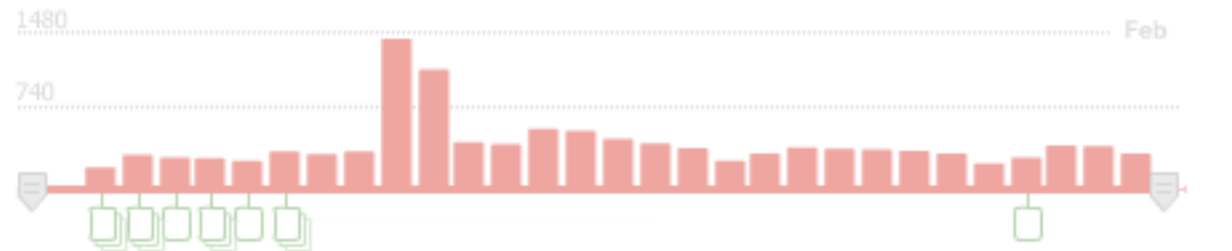
urban nylon backpack
\$29.50



nylon commuter bag
\$68.00







Visitors to your blog

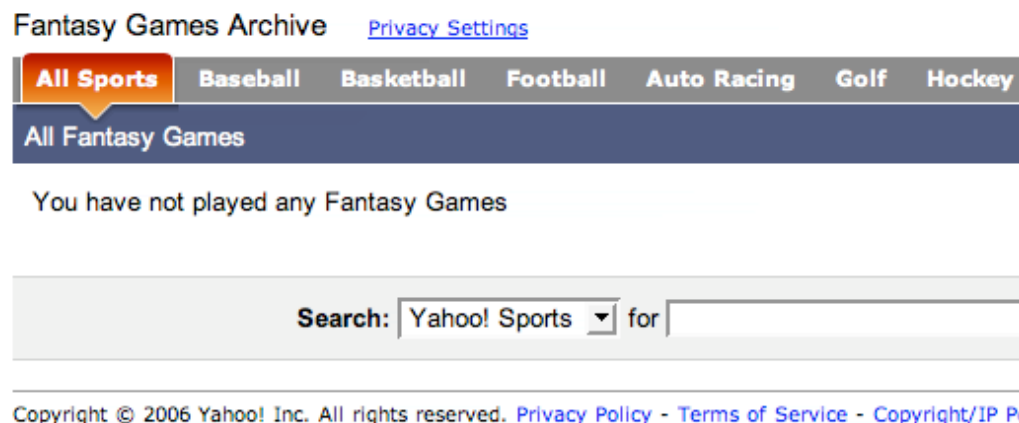
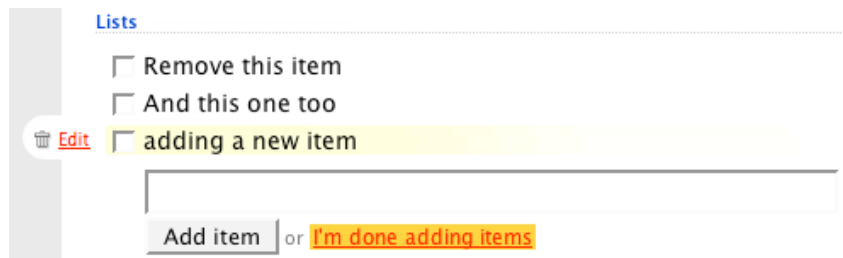
**9080 visitors came to your blog**

That's 313 fewer than an average 30 day period.

digg[home](#) » [spy](#)

Recently dug stories (auto-refreshing)

[Christian Gaming](#) submitted by [mck9235](#) 25 minutes ago (<http://wired.com/news/games/0,...>)[Text files from BBS's](#) submitted by [Phobia](#) 7 minutes ago (<http://textfiles.com/>)[CDs that won't play on iPods sell....WELL!](#) submitted by [akaidiot](#) 6 hours 37 minutes ago (<http://today.reuters.com/news/...>)[Google Television!](#) submitted by [Lanze](#) 1 hours 45 minutes ago (<http://www.current.tv/>)[See what apps are auto-starting on your PC](#) submitted by [camalot](#) 1 day ago (<http://www.sysinternals.com/ut...>)[A Day In The Life of An Internet Entrepreneur](#) submitted by [Edwin](#) 8 minutes ago (<http://www.venturus.com/index....>)[Google It You Moron](#) submitted by [twistymcgee](#) 1 hours 17 minutes ago (<http://www.googleityoumoron.co...>)[Google now a hacker's tool](#) submitted by [Albertpacino](#) 14 hours 19 minutes ago (<http://www.pcworld.idg.com.au/...>)[Map Sex Offenders online with Google Maps](#) submitted by [ajcannon](#) 5 minutes ago (<http://dailytechfeed.com/?p=14>)[Bush Wants Other Theories Than Darwinism Taught In Schools](#) submitted by [cyrusgades](#) 10 hours 41 minutes ago (<http://news.ft.com/cms/s/e3658...>)[NBC to stop annoying DVR owners](#) submitted by [rayskin](#) 8 hours 1 minute ago (<http://www.pvrblog.com/pvr/200...>)[How Much Does Google Make a Second](#)



• Starter Web Page

Publish basic information on a placeholder [web page](#) — until you're ready to upgrade to a full web site. [View a sample.](#)

• Domain Locking

Safeguard your domain from hijacking and unauthorized transfers with [domain locking](#). Yahoo! Domains secures your domain for you — and only you.

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Point your new domain name to a web site you already have with [domain forwarding](#). This is a useful feature if you own multiple domain names.

• Complete Domain (DNS) Control

Advanced users: You can easily edit your name servers and [MX](#), [A](#), and [CNAME](#) records for complete control over your domain.

• Email Forwarding

Unlimited [forwarding](#) of messages sent to your new domain name into your free Yahoo! email account.



[Learn more...](#)



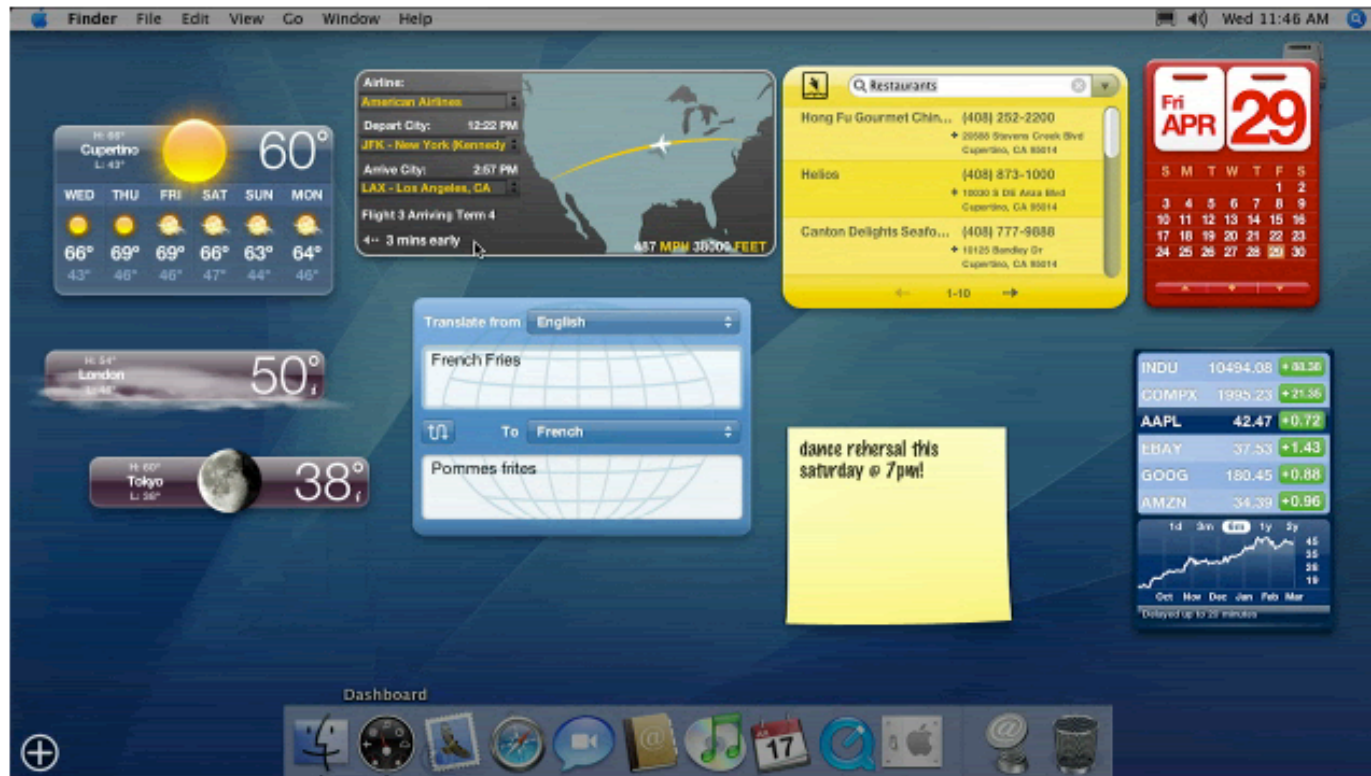
- Brighten. Raise importance
- Cross Fade. One leaves, another enters
- Dim. Lower importance
- Expand. Open in context of others
- Fade In. Good for adds
- Fade Out. Good for deletes
- Flip. Edit configuration
- Animate. Change relationship, tweening
- Self-Healing. After delete or “yank”
- Collapse. Close in context of others
- Slide. Similar to expand but child window

**Transition. Brighten Transition.
Cross Fade Transition. Dim
Transition. Expand Transition.
Fade In Transition. Fade Out
Transition. Flip Transition.
Animate Transition. Self-
Healing Transition. Collapse
Transition. Slide Transition.**

Speak to the BRAIN

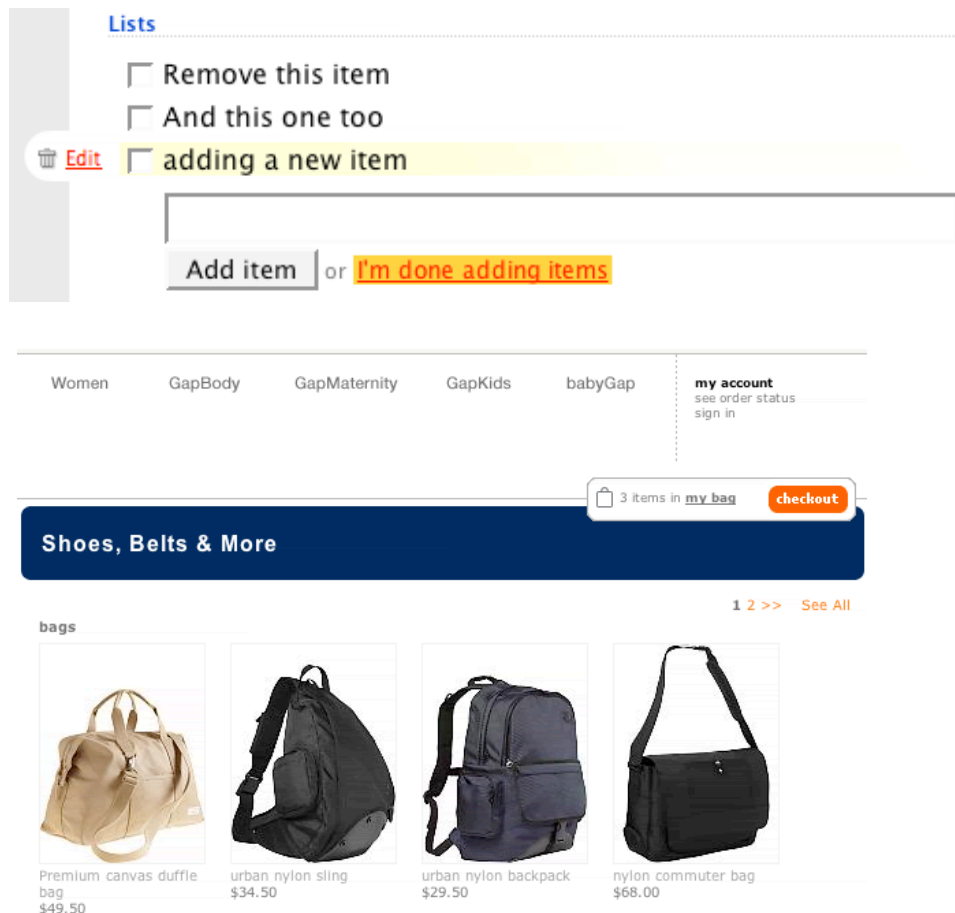
Understanding attention processing

Sending the wrong message



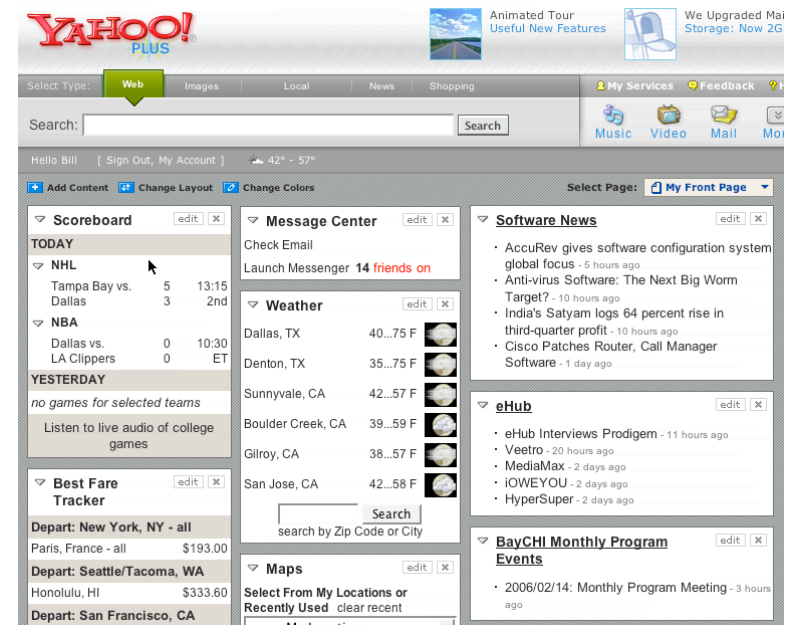
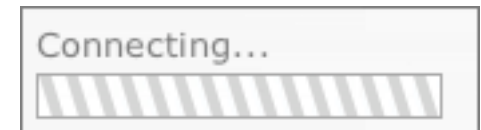
Speak to the BRAIN

Understanding attention processing
Sending the wrong message



What you can communicate

Speed up time
Slow down time
Show state change
Show relationships between objects



Speak to the BRAIN

Understanding attention processing

Sending the wrong message

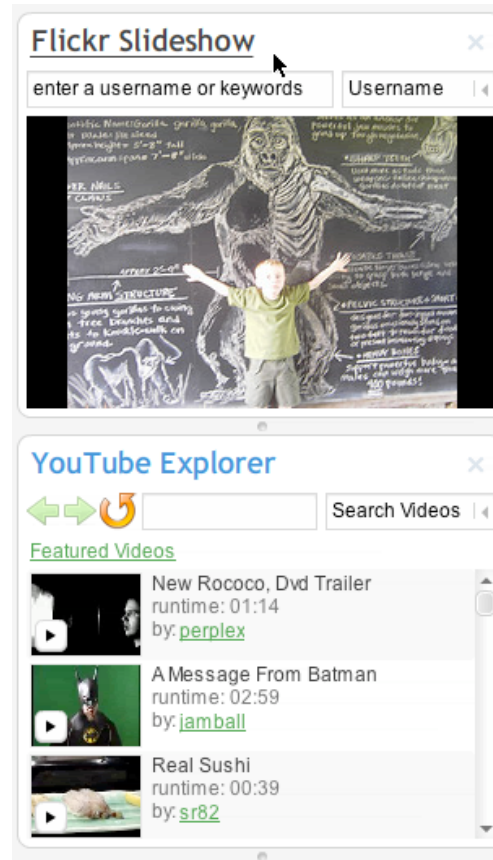
What you can communicate

Speed up time

Slow down time

Show state change

Show relationships between objects



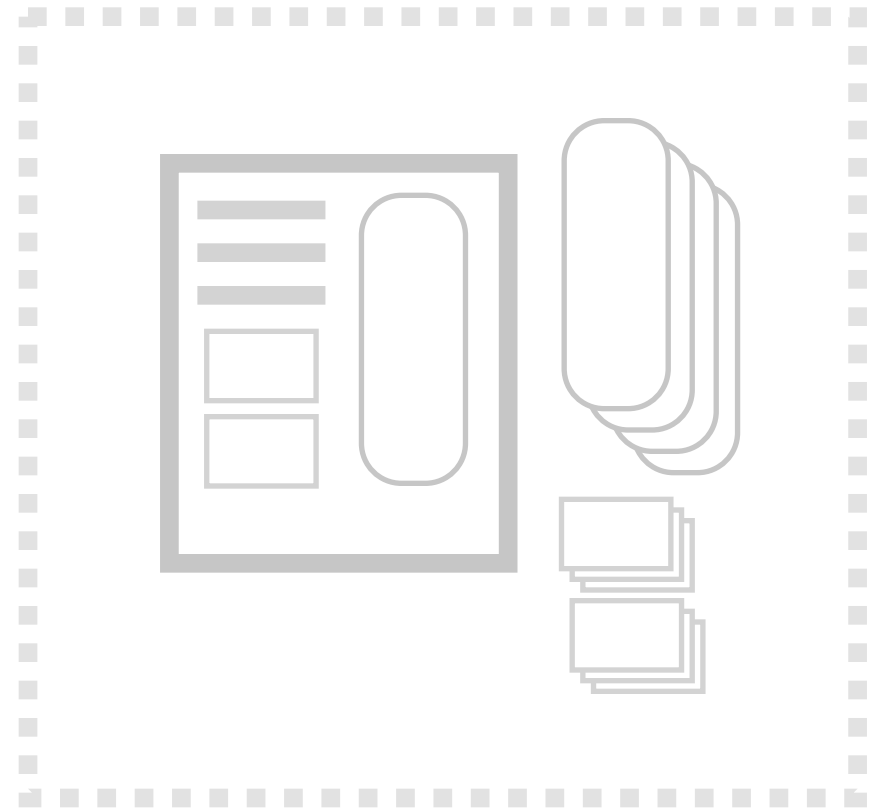
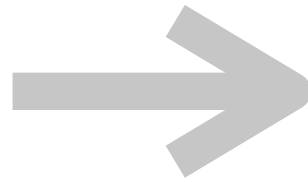
Keep it sane

“Cut in half” rule of thumb
Use a “contrast knob” approach
Don’t overuse

- The more rapid the change the more important the event.
- Rapid movement is seen as more important than rapid color change.
- Movement toward the user is seen as more important than movement away from the user.
- Very slow change can be processed without disrupting the user's attention.
- Animation can be used to communicate where an object was and now is



page



objects





Think in objects


	Page-Based Web	Rich Internet App
Richer Model	Document	Rich Internet Object
Longer Lifecycle	Transient	Permanent
Community/ Sharing	Bookmark	Content, properties, and behaviors

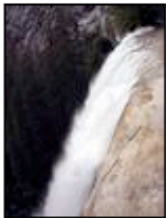
Schedule View **Map View** [Expand all](#)


[+ Add](#) [Hotels](#) | [Things to do](#) | [Restaurants](#) | [Shopping](#) | [Entertainment](#) [+ Create Item](#)

Yosemite National Park

  [John Muir Vernal Falls Mist Trail Hike](#) » [Schedule](#) | [View](#) | [Delete](#)

 +1 209 372 0200
Happy Isle Shuttle Stop #16
Yosemite National Park, CA 95389
United States



This hike is also known as the Mist Trail because it passes right beside Vernal Falls, which in the spring blows a heavy mist everywhere. This 1.4 mile roundtrip hike is considered a moderate 


Notes: [[Edit](#)]


Tags: [[Edit](#)]



Dates: [[Add](#)]

Scheduled Items

[Wed 11/23/05 \(day 1\)](#) - Yosemite Natl Pk, Yosemite National Park

  **Yosemite Lodge**

  **Tunnel View**

  **Bridalveil Falls Day Hike**

Other trips you might like ...

[Browse All Public Trips »](#)

The Ultimate A ...
by [ajrao1918](#)
[Copy this trip](#)



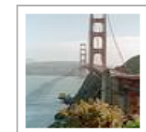
SF Trip
by [pilak_shah](#)
[Copy this trip](#)



6 Parks in 8 d ...
by [jacorebb](#)
[Copy this trip](#)



Yosemite
by [whiskeywom...](#)
[Copy this trip](#)




Cali Baby!
by [ibily78](#)
[Copy this trip](#)

**Rich Internet Object.
Available. Selected.
Identifiable Object.**

Rethinking the model

What is the user's mental model?

How to distinguish from content?



Yosemite Thanksgiving [\[Edit \]](#)

A trip to YOSEMITE NATIONAL PARK
Fun in Yosemite with Daniel & Kids



☒ [This trip is public](#)
[• Sharing settings](#)
[• Email this trip](#)



[\[Update photos \]](#)

[Schedule View](#)
[Map View](#)
[Expand all](#)

[+ Add](#)
[Hotels](#)
[Things to do](#)
[Restaurants](#)
[Shopping](#)
[Entertainment](#)
[+ Create Item](#)


Trip Album




[Add Photos »](#)

Yosemite National Park


☒

[John Muir Vernal Falls Mist Trail Hike](#)
[» Schedule](#)

Scheduled Items


Wed 11/23/05 (day 1) - Yosemite Natl Pk, Yosemite National Park



Yosemite Lodge

From \$97.00 to \$146.00 per night.
 [• Reserve Now](#)

 559-252-4848
 Yosemite Natl Pk, CA 95389
 United States
 In the valley of Yosemite National Park

Notes: [\[Edit \]](#)
Tags: [\[Edit \]](#)
 yosemite, hiking



Rethinking the model

What is the user's mental model?

How to distinguish from content?

The power of sharing

Bloggable, shareable, findable

How to dial-in community

Collections

Microsoft Gadgets Gallery Blog Forums Build Macros Login

Gadget Gallery

This is the place where you can share your gadgets with everyone. Just zip up your source code, create a preview image, provide a description and upload!
Please read our [Upload Agreement](#) before uploading your gadgets.

Search Gadgets by Tag

Add a Gadget
[Login](#) to upload a Gadget that you build.

Favorites
[Login](#) to add tags to your favorites.

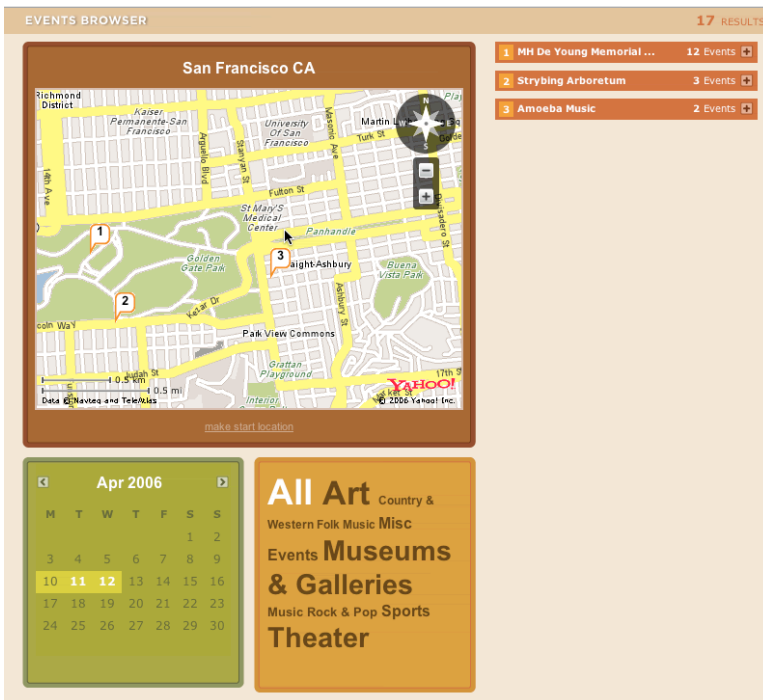
Popular Tags
french competition, search, games, french_competition, game, Google, music, clock, maps, More...

Sort By
Views 9

Gadget Name	Views	Replies	Downloads
Live Clock v 2.1	60,157	62	3,647
Virtual Earth	38,074	13	0
Windows Live Favorites	33,375	56	124,406
NASA Image of the Day	32,193	7	326
Xbox Live GamerTag 2.0	31,622	42	670
ToDo List	28,667	21	144
Live Google Search v1.1	28,589	11	1,747
Windows Live Mail Mobile	27,511	4	298
WeatherBug Live Weather	23,938	38	851

Rethinking the model

What is the user's mental model?
How to distinguish from content?



Web 2.0 as a platform

Rich objects fit the SOA model
Creates a good separation of concerns
Mashups



The power of sharing

Bloggable, shareable, findable
How to dial-in community
Collections



See your friends on a mobile map. Anywhere. Outside or inside.



Questions?



Participate?

Have You Seen a Cool Example?

- **Tag It!**

- Use 'ypatternexample' tag in either delicious or Yahoo! My Web2
- Use additional tags to identify the pattern name you think it belongs to
- Write a comment about what is interesting about the example or how to see the interaction