Designing for Ajax. Day One

- Design.
  - Background. Discuss impact, history, terminology.
  - Patterns & Principles of RIA design.
    - 8 principles of rich interaction design.
    - Challenge of documenting RIAs

Designing for Ajax. Day Two

- Technology.
  - Ajax 101. Introduction to Ajax development.
  - Ajax Topics. Issues & challenges for designing and developing Ajax applications.
- Ajax Prototyping. Ways you can prototype with the Y!UI library.
  - Quick Intro to Yahoo! UI library.
  - SimpleDD. Adding Drag & Drop to your prototypes

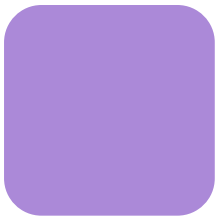
Day One.

Designing for Ajax

Principles and Patterns for Designing Rich Internet Applications

Bill W. Scott, Y! Ajax Evangelist

bscott@yahoo-inc.com



Richness

Rich Internet Applications (RIA)

- Term coined by Macromedia to explain Flash + Remoting.
  - Flash extended to have just-in-time communication
  - Macromedia whitepaper 2002

http://en.wikipedia.org/wiki/Rich_Internet_Application

Internet Application Spectrum

Page-based (PIA)

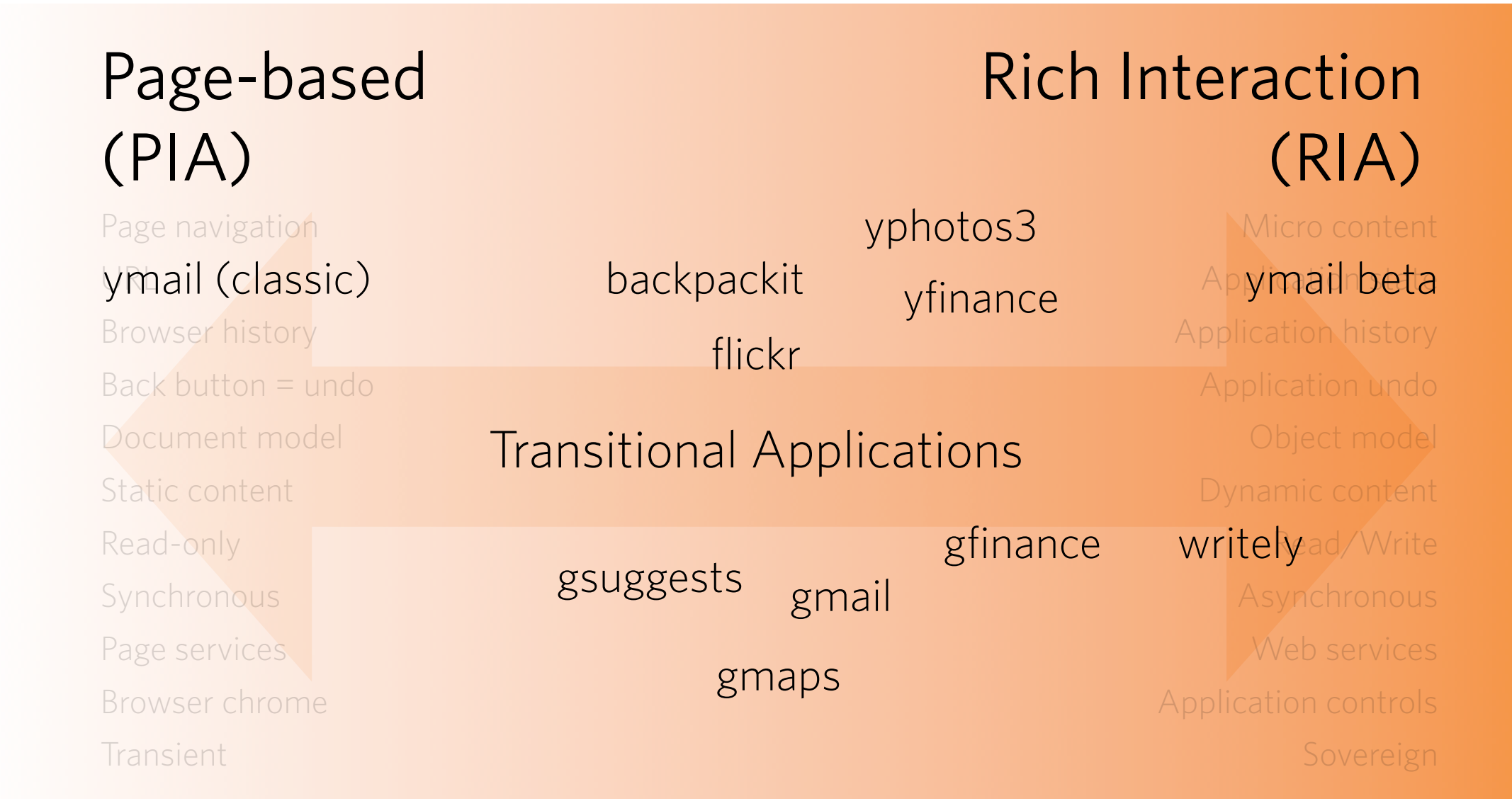
Page navigation
URL
Browser history
Back button = undo
Document model
Static content
Read-only
Synchronous
Page services
Browser chrome
Transient

Transitional Applications

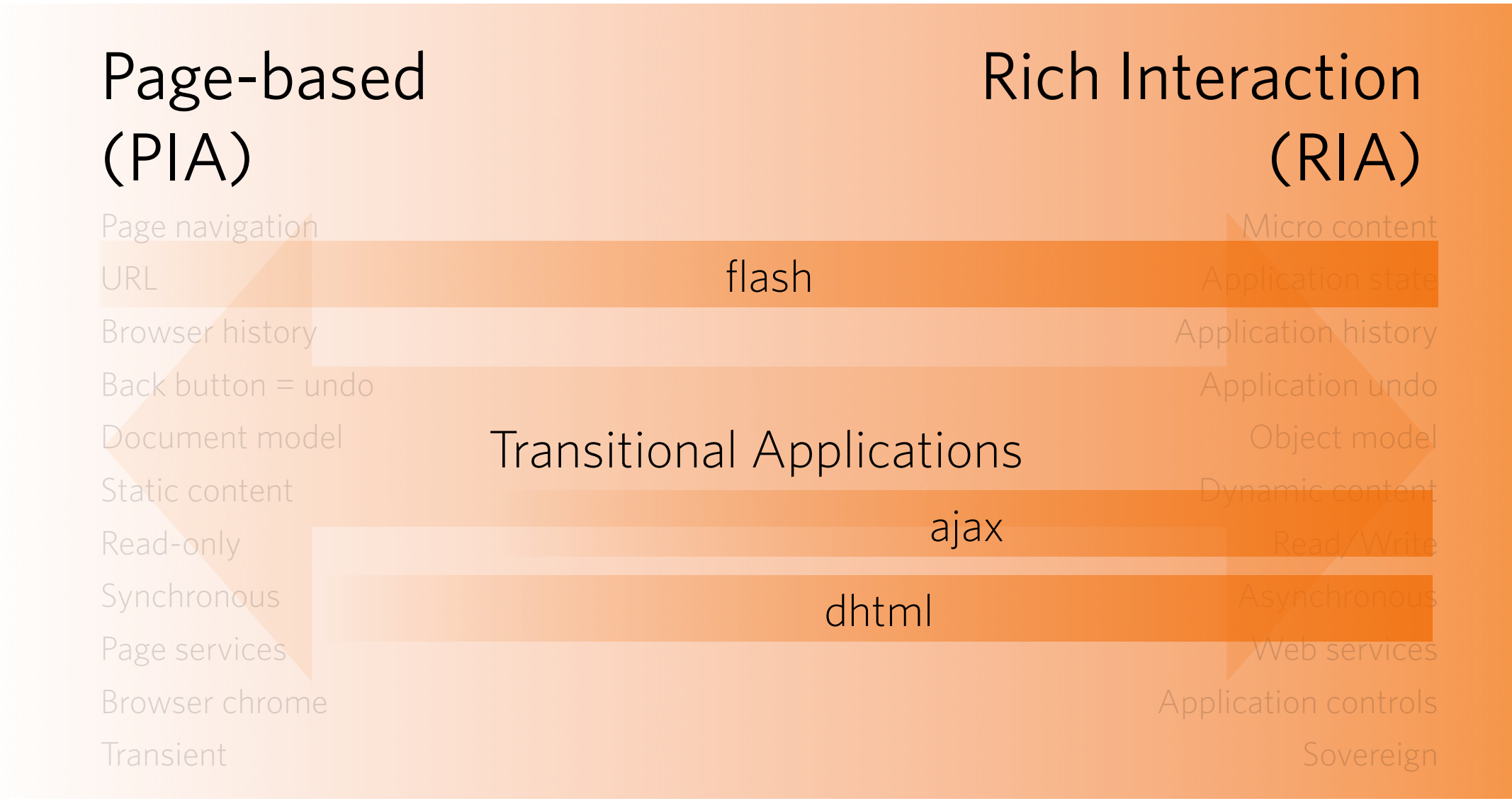
Rich Interaction (RIA)

Micro content
Application state
Application history
Application undo
Object model
Dynamic content
Read/Write
Asynchronous
Web services
Application controls
Sovereign

Internet Application Spectrum



Internet Application Spectrum



Web 2.0

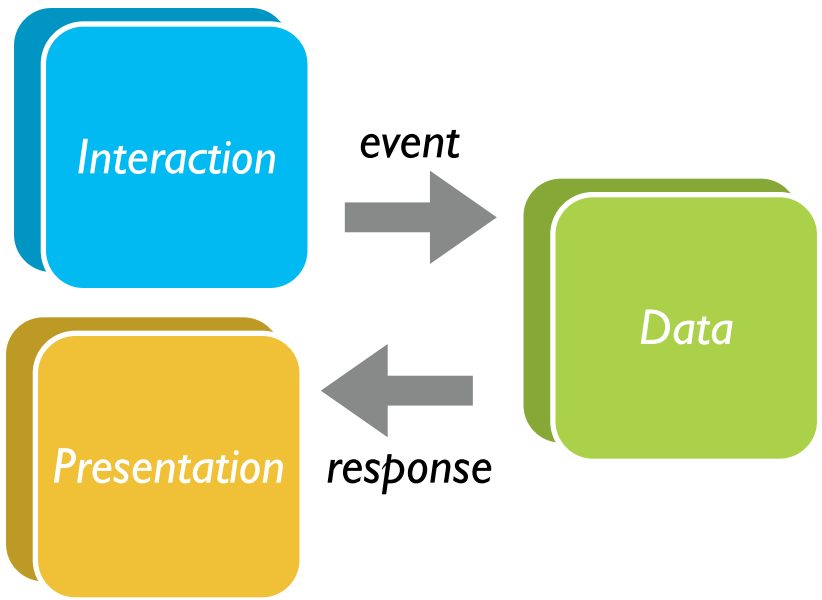
- Tim O'Reilly's Definition

Web 1.0	Web 2.0
DoubleClick	Google AdSense
Ofoto	flickr
akamai	bit torrent
mp3.com	napster
britannica online	wikipedia
personal websites	blogging
evite	upcoming
domain name speculation	search engine optimization
page views	cost per click
screen scraping	web services
publishing	participation
content mgmt systems	wikis
directories	tagging (folksonomy)
stickiness	syndication
SINGLE VENDER	**MASHUP**
READONLY	**READ/WRITE**
CONTENT MGMT SYSTEMS	**CURATED MGMT SYSTEMS**

http://www.oreillynet.com/pub/a/oreilly/tim/news/2005/09/30/what-is-web-20.html

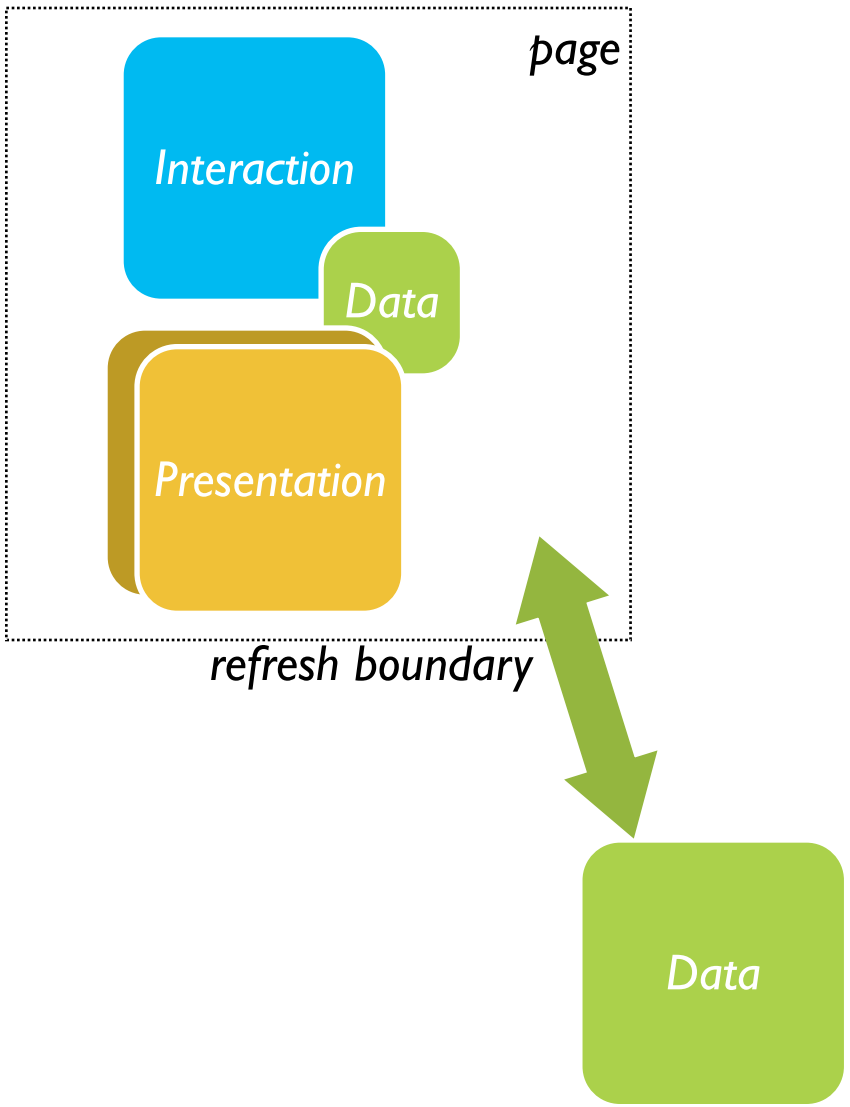
Defining Richness: Web in 3D

- Interaction Dimension
- Data Dimension
- Presentation Dimension

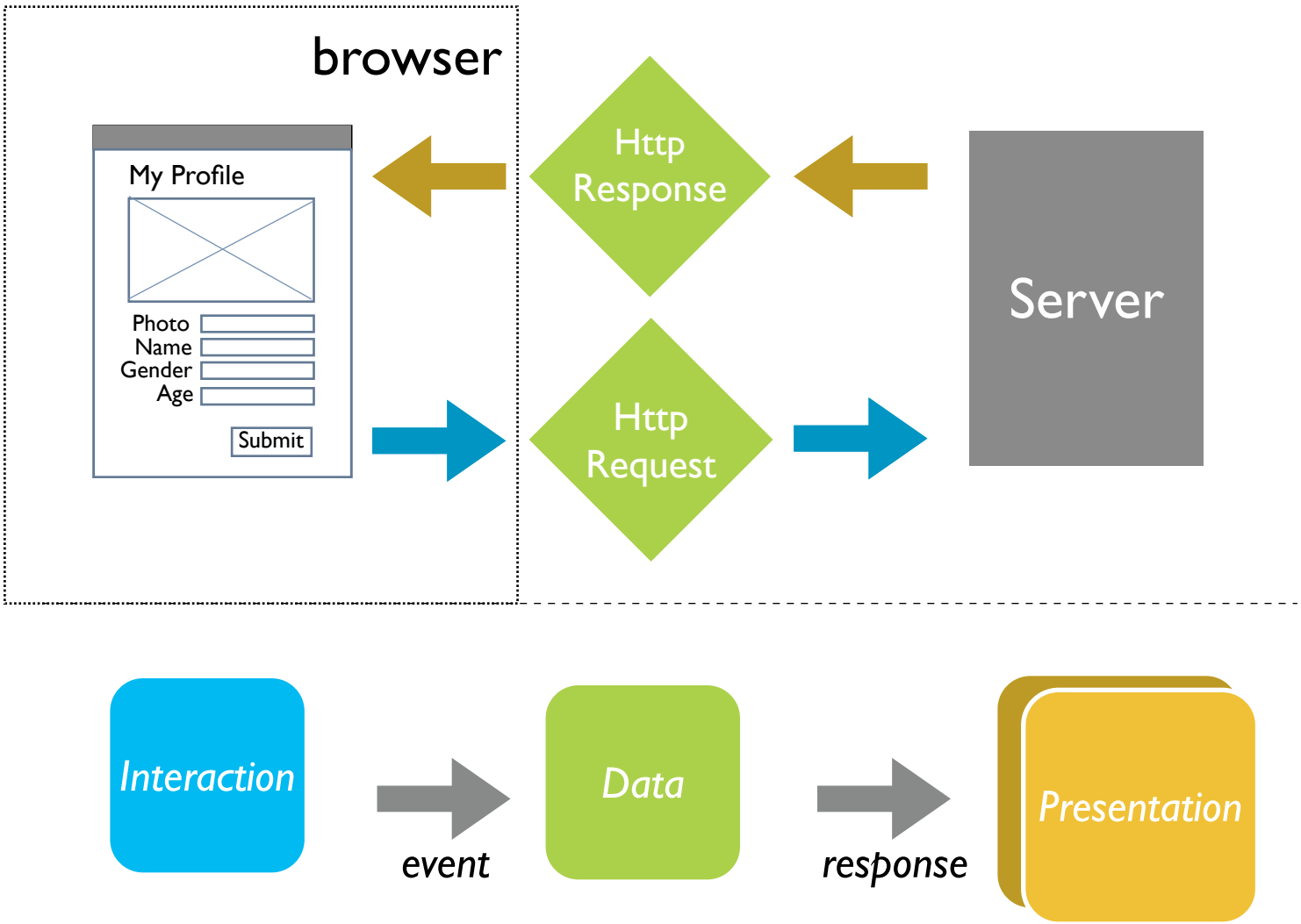


Classic Web

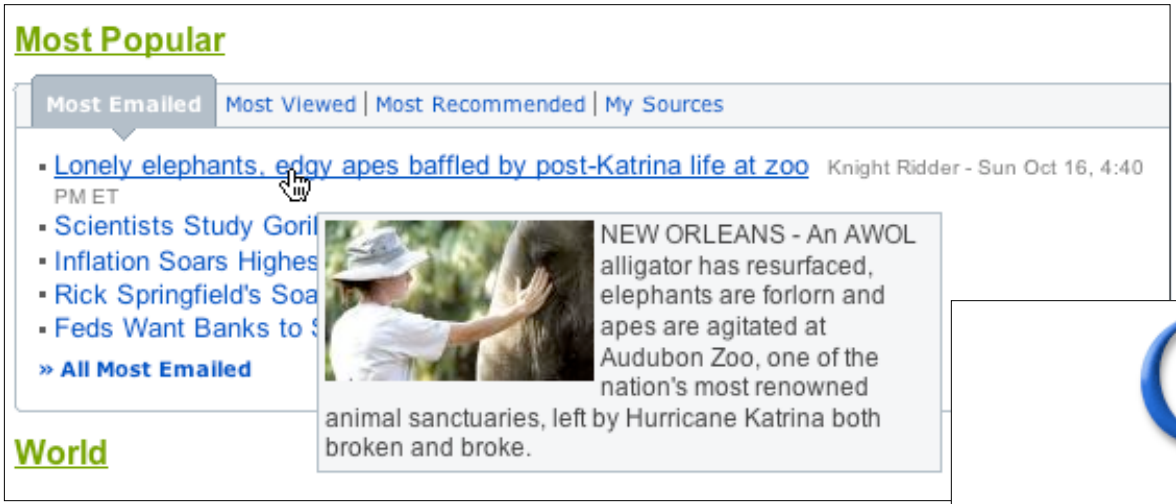
- Interaction
  course-grained
- Data
  loaded with the page or
  obtained via refresh
- Presentation:
  page-based updates



Classic Web Illustrated

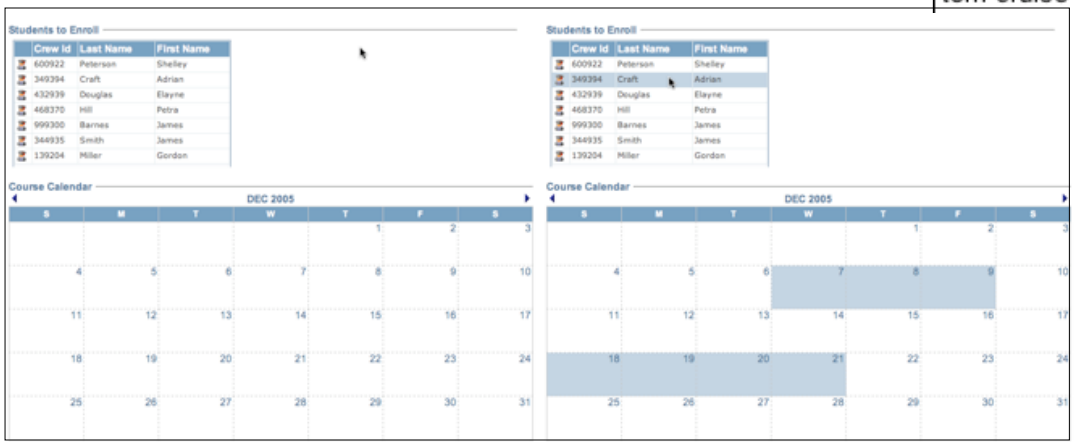


Ajax = Just-in-Time. Immediacy.



Just-in-time data

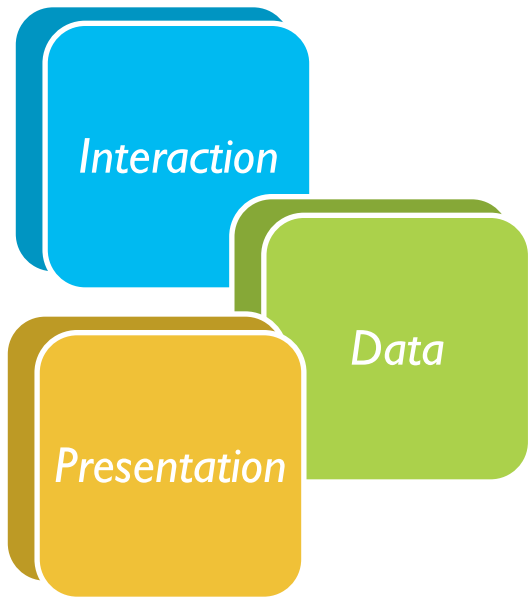
Just-in-time presentation



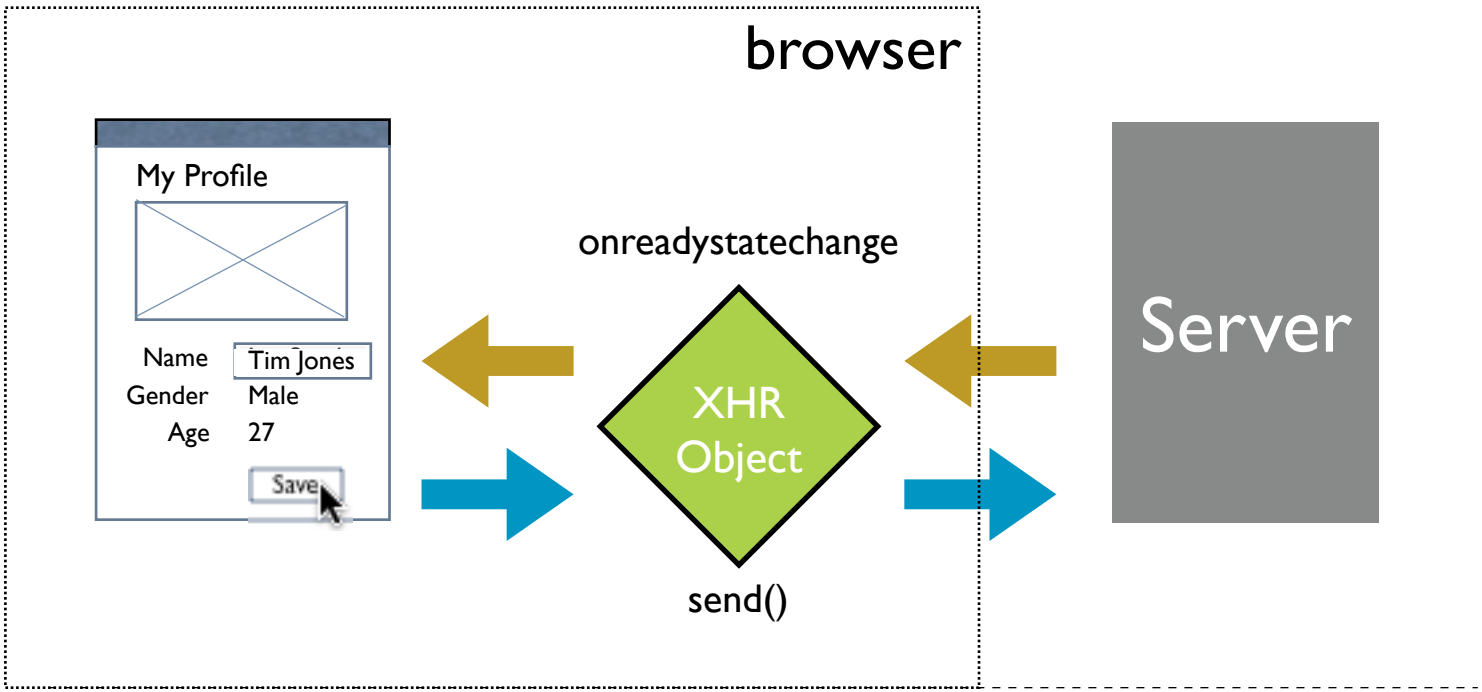
Just-in-time logic

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



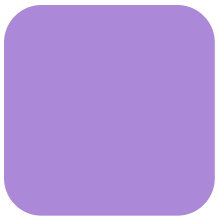
AJAX vs Ajax

- 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

XHR, Not the Only Game in Town

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



Back to the Future

RIA Soup

flash activex javaapplets html javascript xmlhttprequest remotescripting xul flashremoting xml xforms xsl xslt xhtml css dhtml xss browserquirks macromedia flex laszlo firefox mozilla netscape google googlesuggests googlemaps oddpost yahoo ymailbeta internetexplorer microsoft flickr dotcom dotcomboom dotcombust json w3c wwg comet scripthack dom domscripting interactiondesign desktopapps clientserver thinclient thickclient

The Tipping Point

- Gladwell's book describes the phenomona of change
- The Law of the Few
  - Connectors
  - Mavens
  - Salesmen
- Sticky Message

A Sequence of Events

- Invented and held captive in Redmond
- Dot com bust
- Innovation under the radar
- Seeds were sown by the browser wars
- From the ashes Firefox rises
- Google's gambit gives the stamp of approval
- Ajax is christened
- Outliers come on board

Invented in Redmond

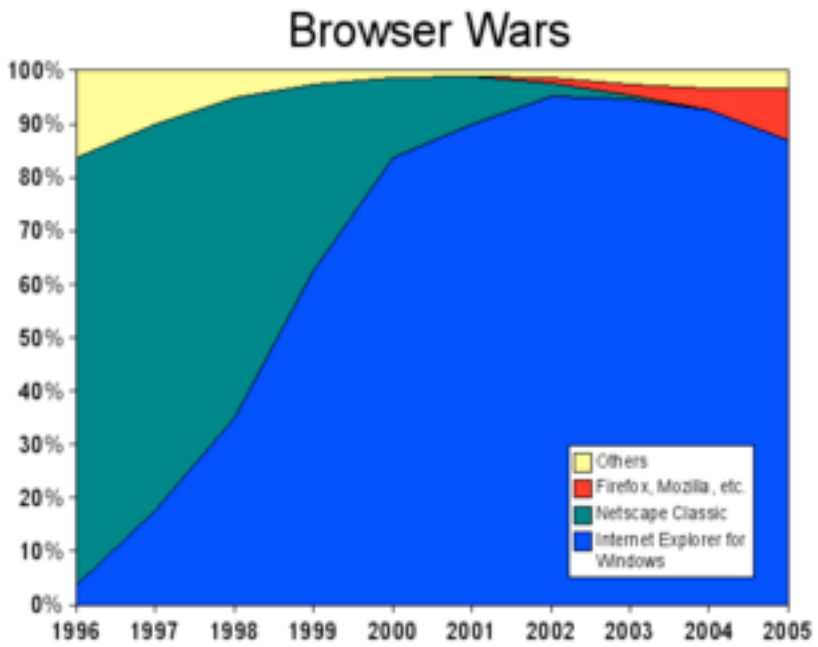
- Part of Internet Explorer 5.0, Sept. 1998
- Used to create the web version of Outlook
- Locked under the asp.net banner
- Not available in Netscape, etc.

Dot Com Boom & Bust

- Dot com boom brought lots of talent into web space
- Bust in late 2000, throughout 2001
- Innovation goes under the radar
  - Brent Ashley - remote scripting
  - Doug Crockford - json
  - Iain Lamb - oddpost

Fog of Browser War Clears

- 1999 - IE 60%
- 2000 - IE 80%
- 2001 - IE 90%



Internet Revival - $$

- Google on the move
- Yahoo! survives & thrives
- Amazon turns a profit
- Web 2.0 companies burst on scene
  - flickr
  - delicious
  - blogging

The "View Source" Culture

- Web as a showcase for talent
- The ability to share code freely and rapidly
- Coupled with blogging

Firefox Emerges

- Ironically out of the ashes of Netscape
- Mozilla 1.0, Firefox 1.0 introduces XHR as native object
- Same API as the Microsoft ActiveX component
- Now > 95% have XHR

Google Gambles

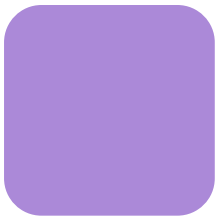
- gmail, google suggests and google maps use XHR
- Legitimizes the use of XHR
- Based on IE + Firefox
- Forces Safari & Opera to come on board

Jesse James Garrett

- Actually, the "godfather" of Ajax :-)
- Created a sticky message
- "Ajax" is a very popular search term

Back to the Desktop

dragdrop trees menus icons toolbars
windowing validation tabsets selection
applicationcontext inlineedit editablegrids
hotkeys contextualmenus



Patterns

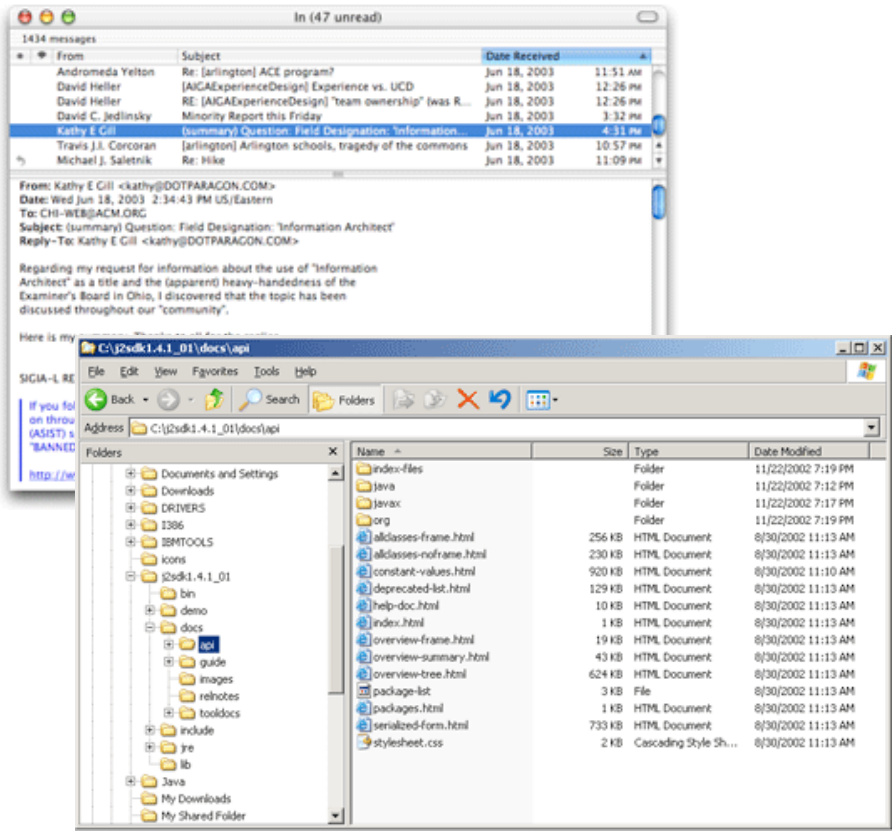
Origin

- A Pattern Language, Alexander, 1977
  Dissatisfied with sterile, impersonal design
- Defined it as
  Solution to a problem in context
- Captured
  Situation, competing constraints, canonical solution
- Examples
  Couples Realm, House for a Couple, Sitting Circle, Marriage Bed

Spread of Patterns

- Applied to software design, Gang of four, 1995
- 1996, Alexander chides user experience community
- User experience patterns
  - 1997, Tidwell's *Common Ground*
  - Welie's pattern site
  - *Design of Sites* book
  - 2005, Tidwell, *Designing Interfaces*

Overview + Detail



- Problem
  Large amounts of data. User need to see details in context of overview data
- Solution
  - Overview Panel (top or left)
  - Detail Pane (bottom or right)

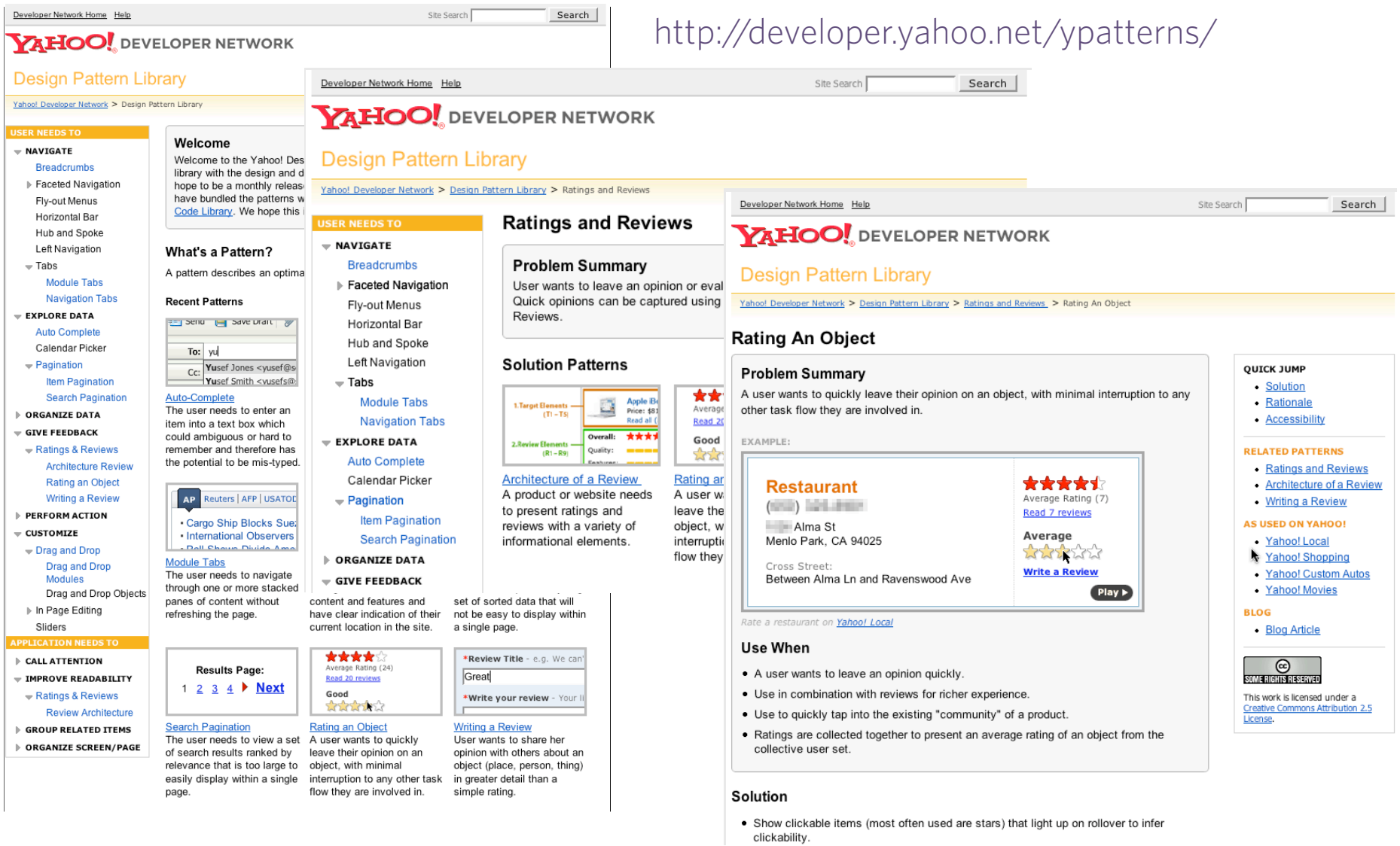
Solution to a problem in context

- Jenifer Tidwell (also a book)
  http://designinginterfaces.com/
- Martijn van Welie
  http://www.welie.com/patterns/
- Sari A. Laakso
  http://www.cs.helsinki.fi/u/salaakso/patterns/
- Michael Mahemoff
  http://www.ajaxpatterns.org/
- Web Patterns
  http://webpatterns.org/

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. Character Counter. 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! Pattern Library Release

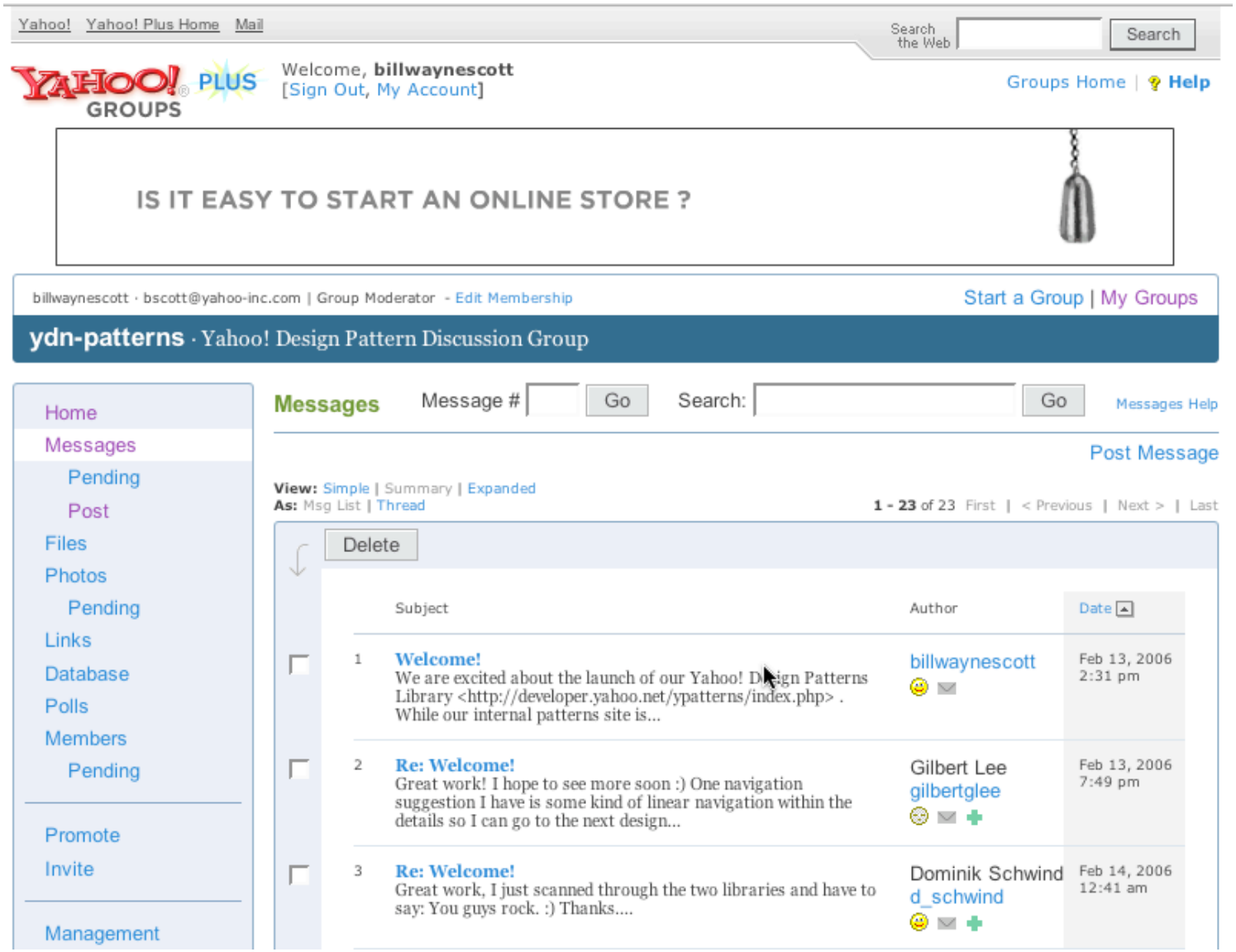
http://developer.yahoo.net/ypatterns/



http://yuiblog.com

Yahoo! Patterns Discussion Group

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

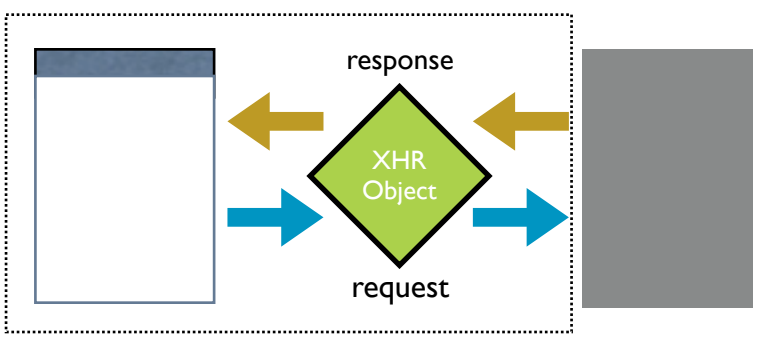


Breadcrumbs. Module Tabs. Navigation Tabs. Auto Complete. Pagination. Item Pagination. Search Pagination. Ratings and Reviews. Architecture of a Review. Rating an Object. Writing a Review. Drag and Drop. Drag and Drop Modules. Transition. Dim. Brighten. Cross Fade. Contract. Expand. Fade In. Fade Out. Move. Self-Healing. Slide. Highlight. Invitation. Cursor Invitation. Drop Invitation. Tool Tip Invitation. Hover Invitation.

But What Can XHR Do?

- Make a request
- Return a response

- And do it asynchronously



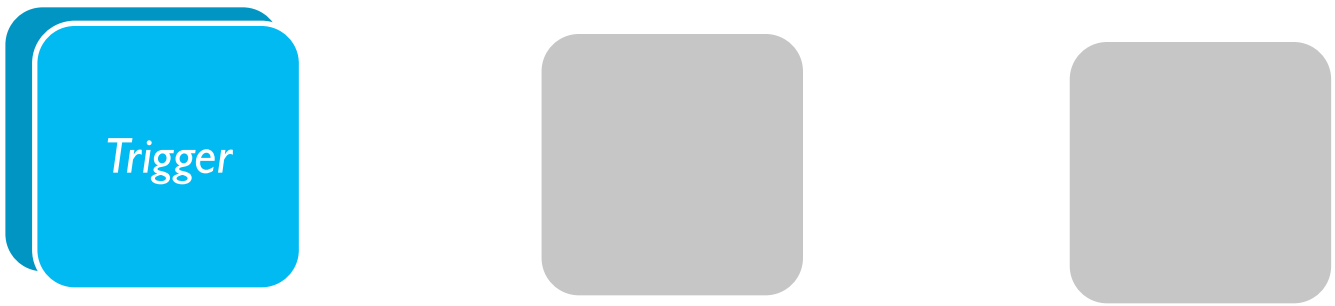
Anatomy of a Pattern

- 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

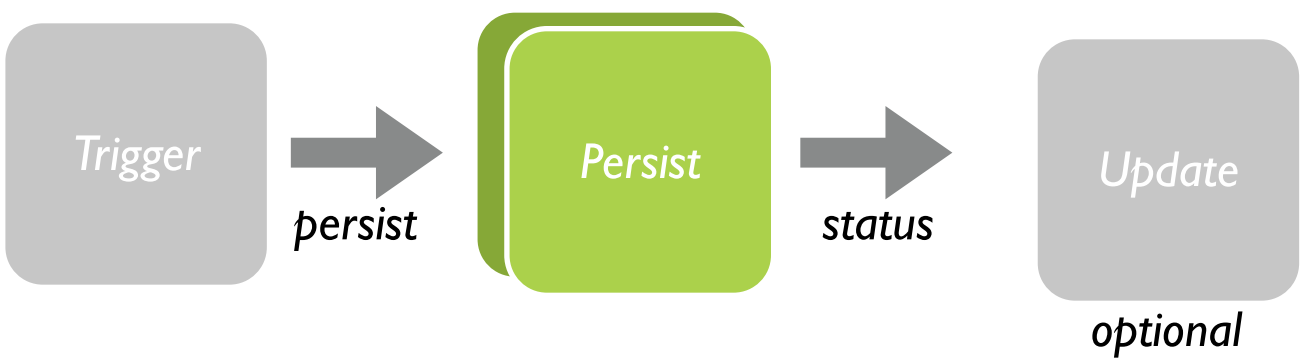
I can get information when I need it

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.

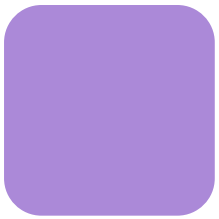


Update

- 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

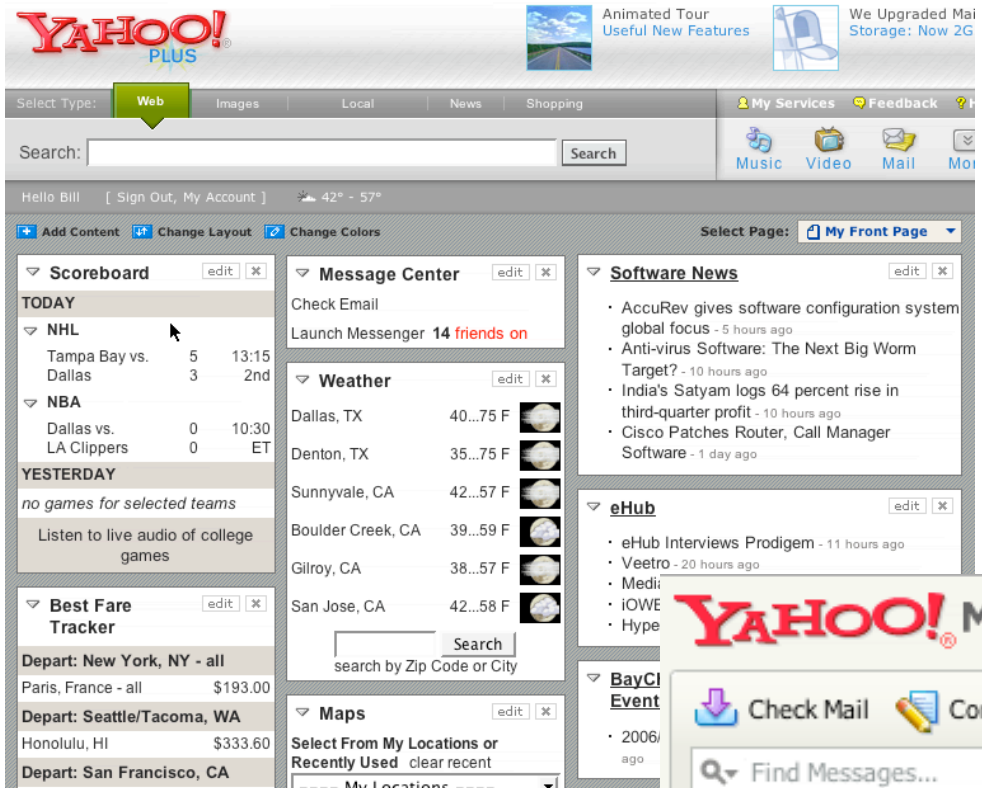
Principles for Rich Design

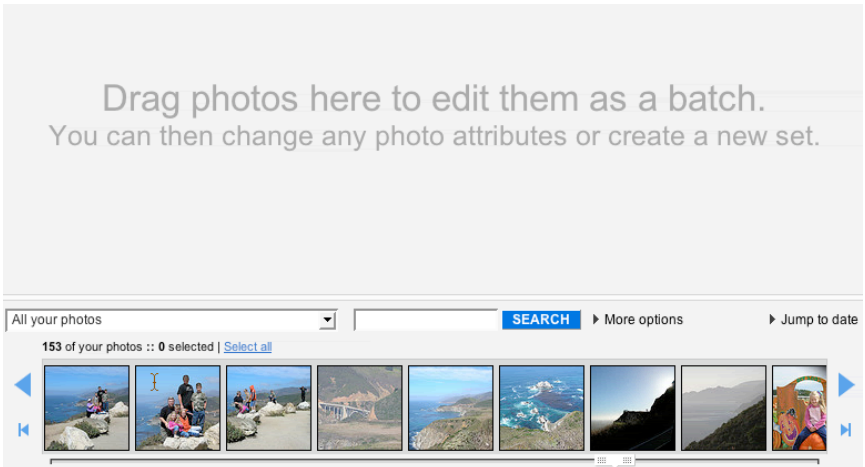
1. Keep it direct
2. Provide live feedback
3. Offer an invitation
4. Cross borders reluctantly
5. Leave a light footprint
6. Show transitions
7. Think in objects
8. Tell a story

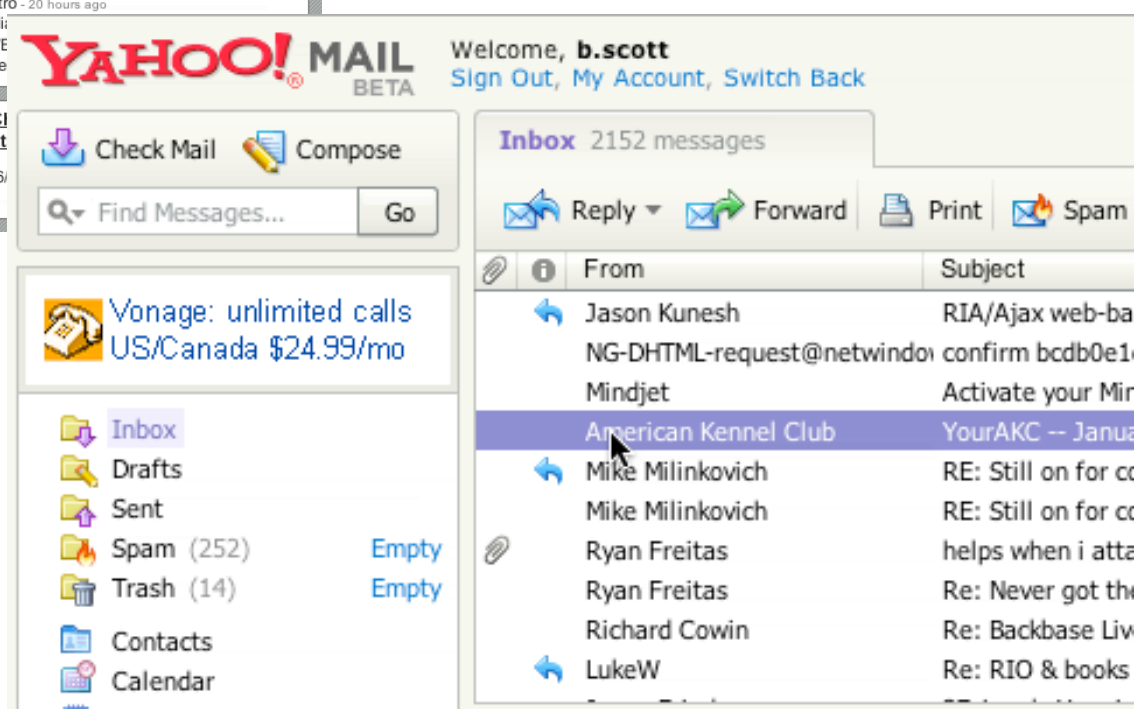
submit hyperlink

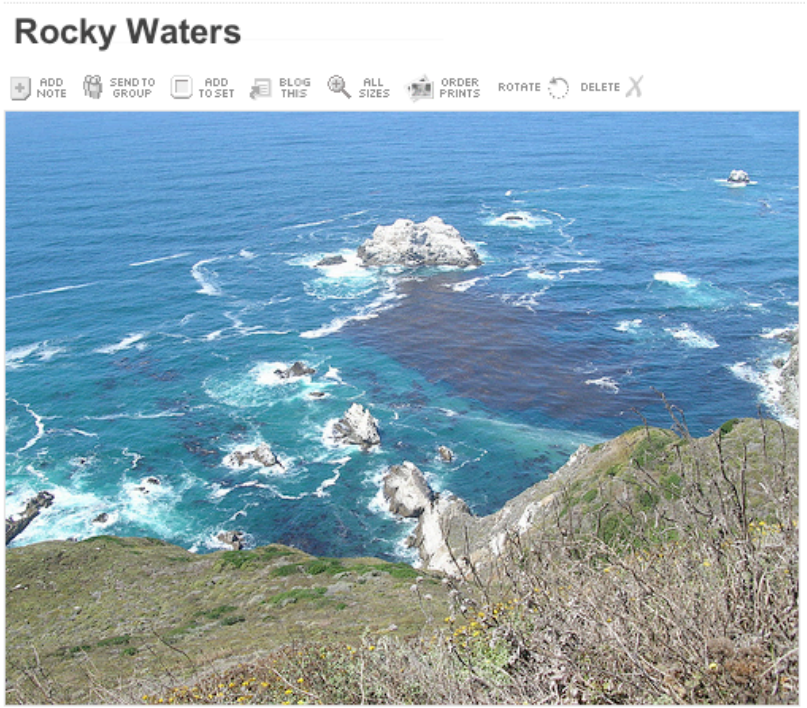
mouseout hover keypress keydown mousedown
drop filter choices mouseup drag click select focus
blur resize move timeout

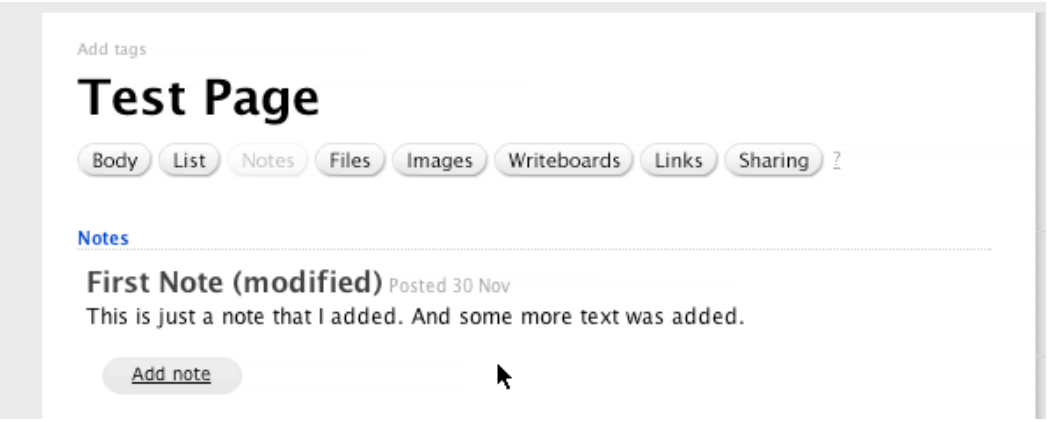
Keep it Direct

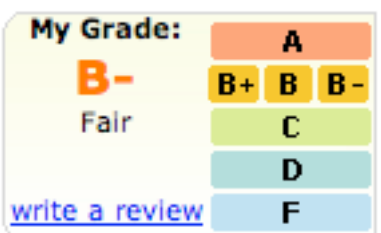

YAHOO! PLUS
Animated Tour
Useful New Features
We Upgraded Mai
Storage: Now 2G
Select Type: Web Images Local News Shopping
My Services Feedback
Search: Search
Music Video Mail
Hello Bill [Sign Out, My Account] 42° - 57°
Add Content Change Layout Change Colors
Select Page: My Front Page
Scoreboard
TODAY
NHL
Tampa Bay vs. 5 13:15
Dallas 3 2nd
NBA
Dallas vs. 0 10:30
LA Clippers 0 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
Search
search by Zip Code or City
Maps
Select From My Locations or Recently Used clear recent
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
Cisco Patches Router, Call Manager Software - 1 day ago
eHub
eHub Interviews Prodigem - 11 hours ago
Veetro - 20 hours ago

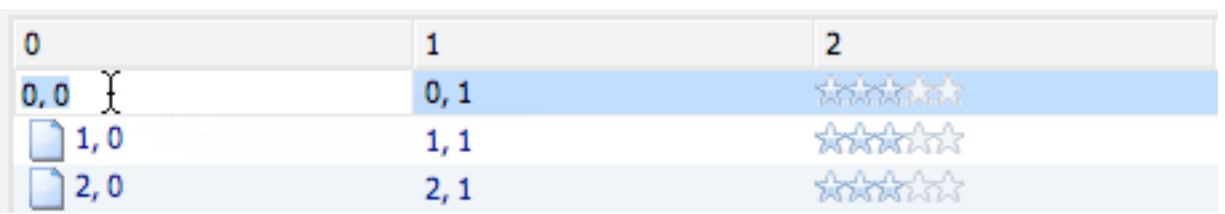

Drag photos here to edit them as a batch.
You can then change any photo attributes or create a new set.
All your photos
SEARCH
More options
Jump to date
153 of your photos :: 0 selected | Select all


YAHOO! MAIL BETA
Welcome, b.scott
Sign Out, My Account, Switch Back
Check Mail
Compose
Find Messages...
Go
Vonage: unlimited calls US/Canada $24.99/mo
Inbox
Drafts
Sent
Spam (252) Empty
Trash (14) Empty
Contacts
Calendar
Inbox 2152 messages
Reply
Forward
Print
Spam
From
Subject
Jason Kunesh RIA/Ajax web-ba
NG-DHTML-request@netwindo confirm bcdb0e1
Mindjet Activate your Mir
American Kennel Club YourAKC -- Janua
Mike Milinkovich RE: Still on for cc
Mike Milinkovich RE: Still on for cc
Ryan Freitas helps when i atta
Ryan Freitas Re: Never got th
Richard Cowin Re: Backbase Liv
LukeW Re: RIO & books


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


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:
B-
Fair
write a review
A
B+
B
B-
C
D
F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1
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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]

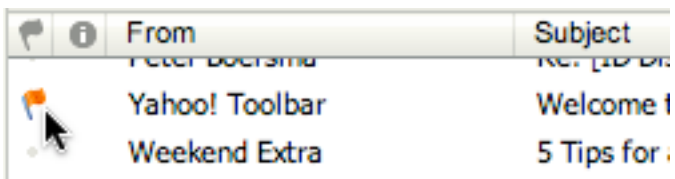
Tags: [Edit]

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



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coming_soon.mov (video/quicktime Object)
Shared by: Me - Details - Edit
Tags: comment, digg, incontextexpandpatte..., inlinepageeditpatter..., ratinganobjectpatter..., more...
Access: Everyone
http://sjc.videos.revision3.com/diggnation/coming_soon.mov
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Ajaxian ? New Digg Ajax Comment System
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Tags: comment, digg, incontextexpandpatte..., inlinepageeditpatter..., ratinganobjectpatter..., more...
Access: Everyone
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Yahoo! Groups : scotts-pub Post Message
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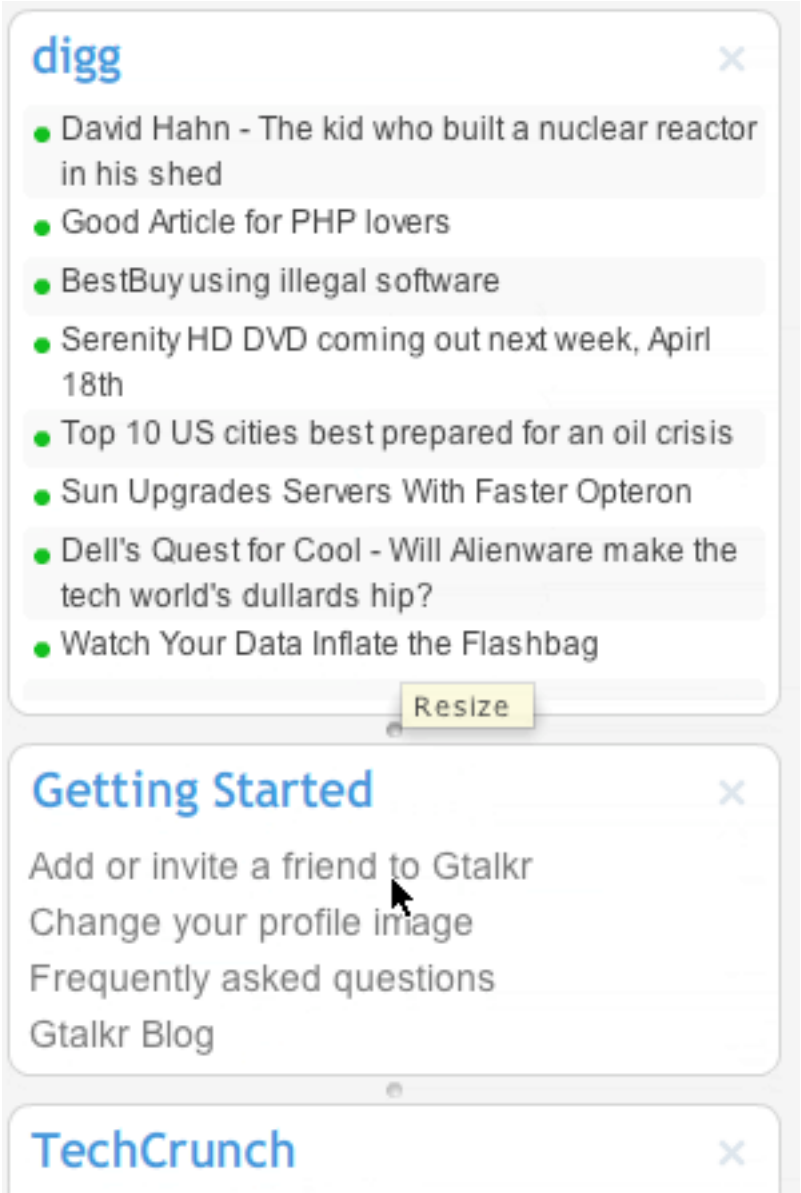
Note: **rich text editor for blogs**
Tags: code, inline edit, internalyahoo, patterns, ypatternexample, more...
Access: Just me
http://f3.corp.yahoo.com/~scotts/xpost.html
Saved on February 16, 2006
Email - IM - Delete


digg
David Hahn - The kid who built a nuclear reactor in his shed
Good Article for PHP lovers
BestBuy using illegal software
Serenity HD DVD coming out next week, Apirl 18th
Top 10 US cities best prepared for an oil crisis
Sun Upgrades Servers With Faster Opteron
Dell's Quest for Cool - Will Alienware make the tech world's dullards hip?
Watch Your Data Inflate the Flashbag
Resize
Getting Started
Add or invite a friend to Gtalkr
Change your profile image
Frequently asked questions
Gtalkr Blog
TechCrunch

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. Resizable Content.

Prefer interaction within the page

What about discoverability?

Prefer interaction within the page

What about discoverability?

Use direct editing on page content

What about save/cancel?

Avoid page jitter

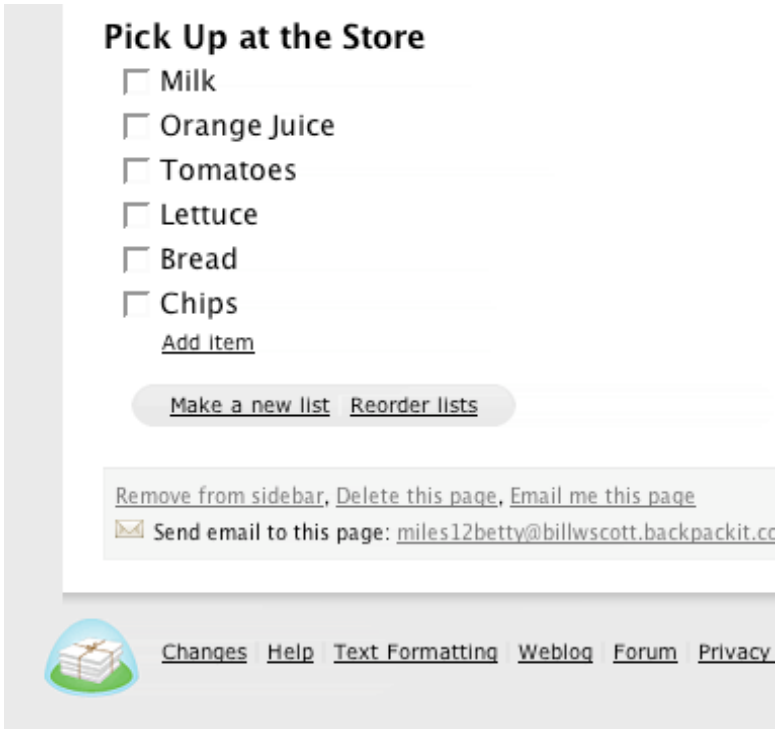
Reduce the feeling of modes

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

SAVE OR CANCEL

Prefer interaction within the page

What about discoverability?

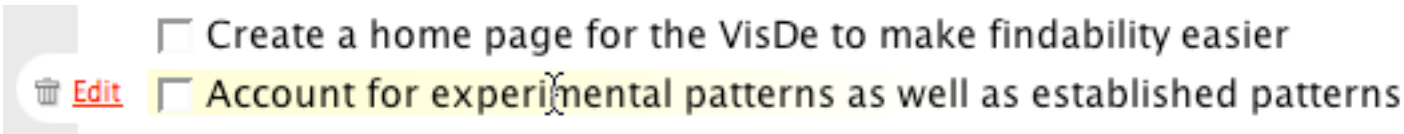


Use direct editing on page content

What about save/cancel?

Avoid page jitter

Reduce the feeling of modes



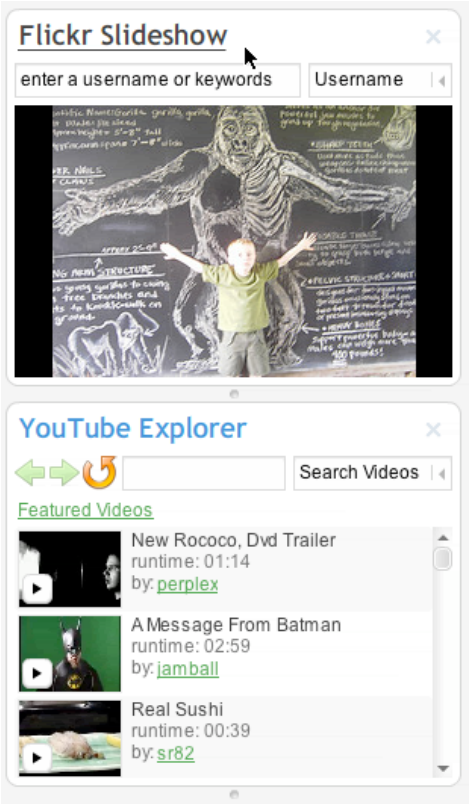
Provide in-context tools

Only good for single operations

Can actually slow you down

Prefer interaction within the page

What about discoverability?

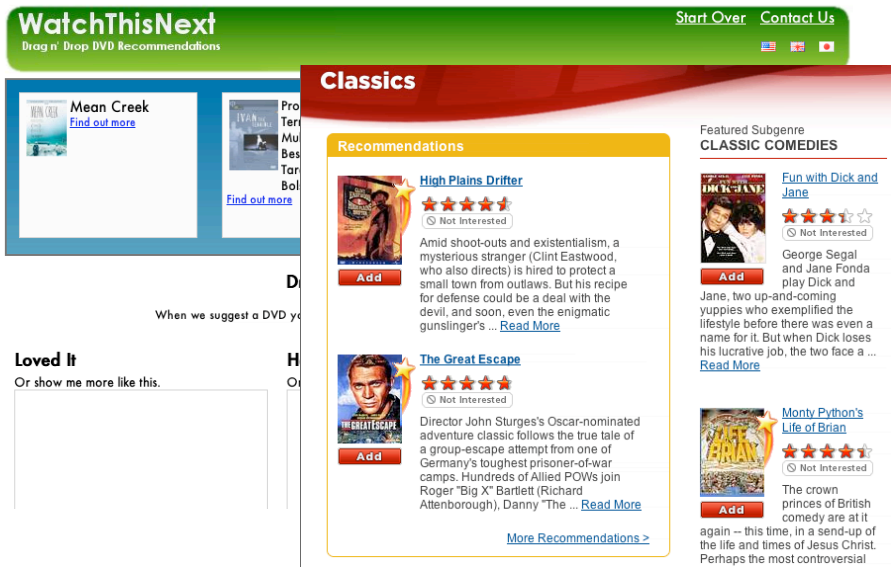


Use direct editing on page content

What about save/cancel?

Avoid page jitter

Reduce the feeling of modes



Use drag and drop where appropriate

Not for simply setting an attribute

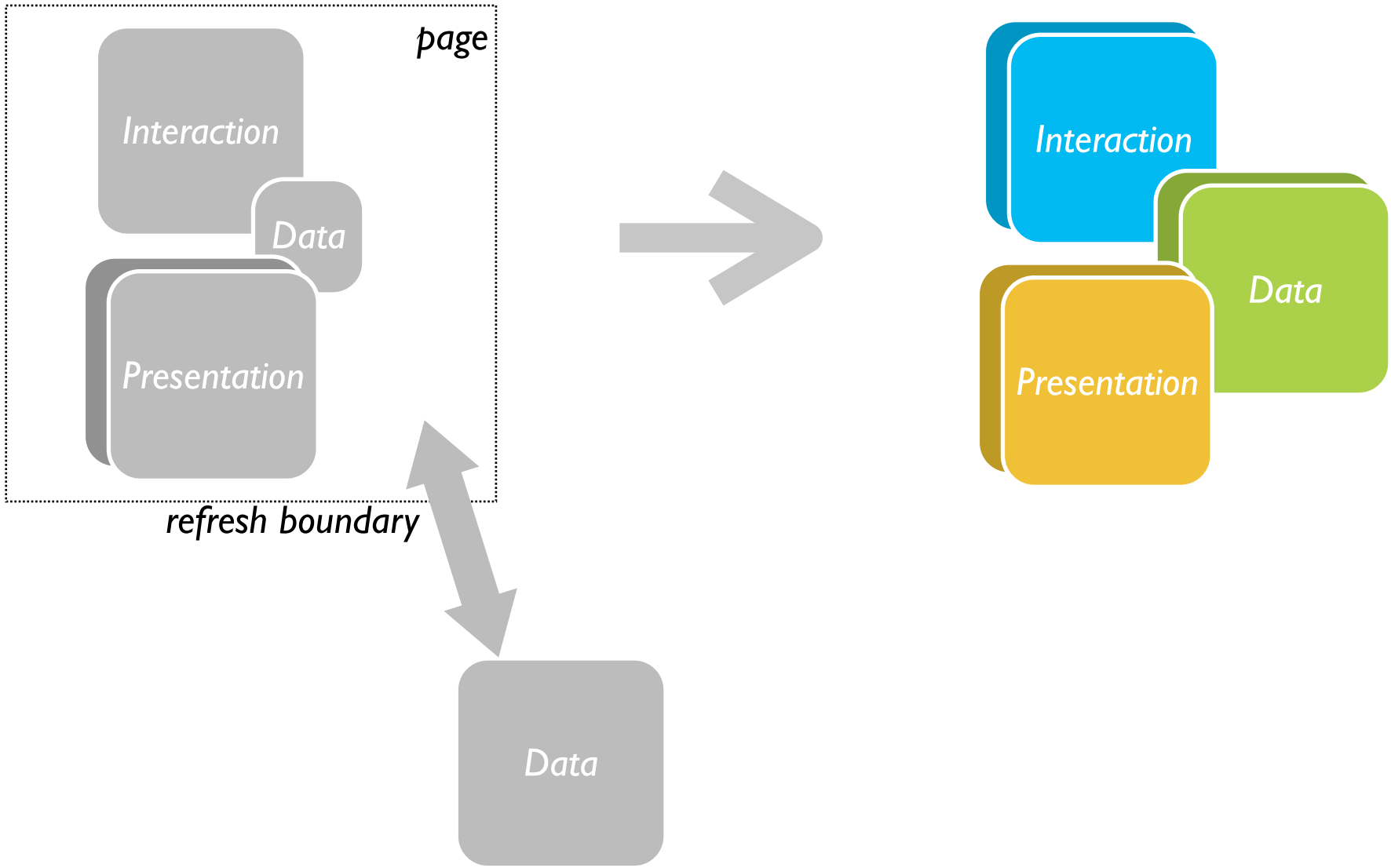
Good for layout changes or containment

Needs transitions

Provide in-context tools

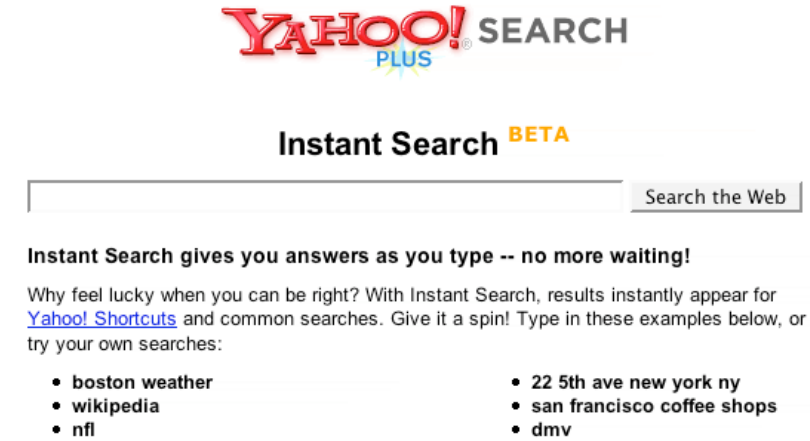
Only good for single operations

Can actually slow you down

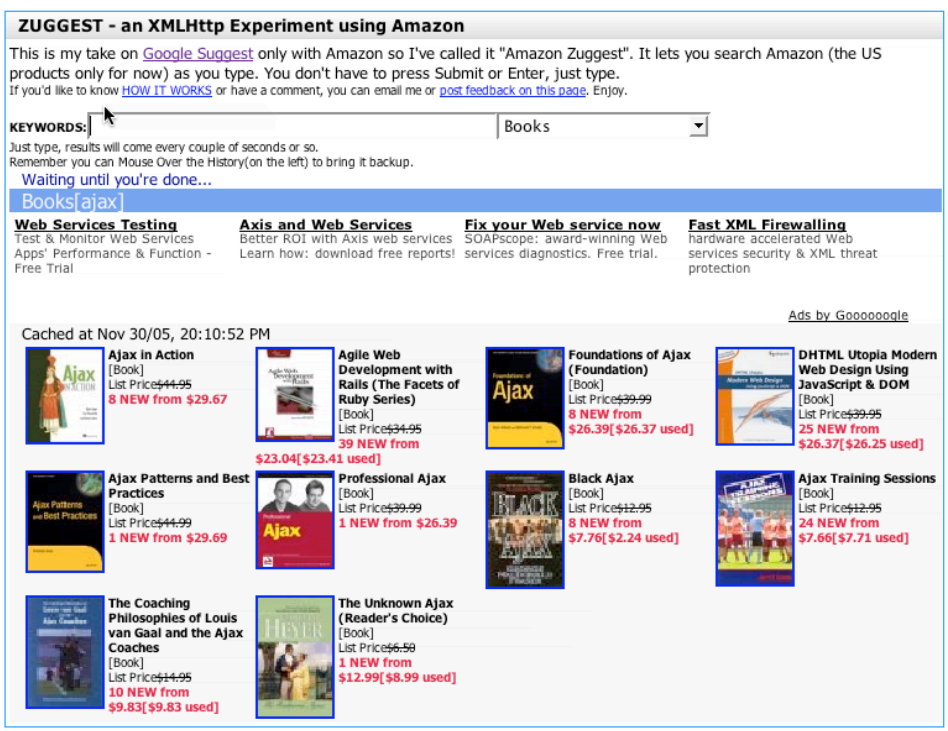

page
Interaction
Data
Presentation
refresh boundary
Data
Interaction
Data
Presentation

2

Provide live feedback


YAHOO! SEARCH
PLUS
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


ZUGGEST - an XMLHttp Experiment using Amazon
This is my take on Google Suggest only with Amazon so I've called it "Amazon Zuggest". It lets you search Amazon (the US products only for now) as you type. You don't have to press Submit or Enter, just type.
If you'd like to know HOW IT WORKS or have a comment, you can email me or post feedback on this page. Enjoy.
KEYWORDS:
Books
Just type, results will come every couple of seconds or so.
Remember you can Mouse Over the History(on the left) to bring it backup.
Waiting until you're done...
Books[ajax]
Web Services Testing
Test & Monitor Web Services Apps' Performance & Function - Free Trial
Axis and Web Services
Better ROI with Axis web services Learn how: download free reports!
Fix your Web service now
SOAPscope: award-winning Web services diagnostics. Free trial.
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[Book]
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Medal Count PRESENTED BY CHEVROLET

				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

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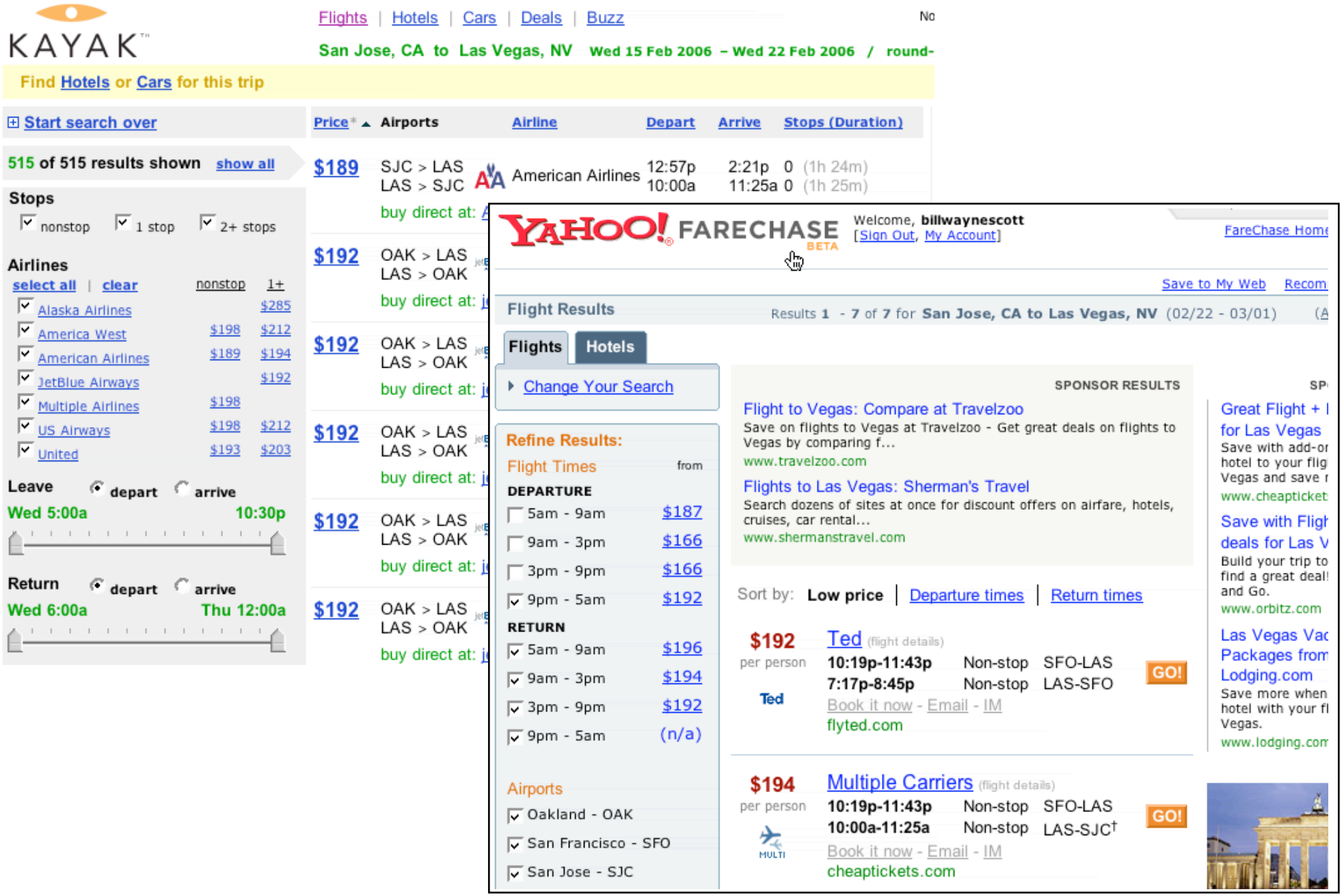
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San Jose, CA to Las Vegas, NV Wed 15 Feb 2006 – Wed 22 Feb 2006 / round-
Find Hotels or Cars for this trip
Start search over
515 of 515 results shown show all
Stops
nonstop 1 stop 2+ stops
Airlines
select all | clear
Alaska Airlines $285
America West $198 $212
American Airlines $189 $194
JetBlue Airways $192
Multiple Airlines $198
US Airways $198 $212
United $193 $203
Leave depart arrive
Wed 5:00a 10:30p
Return depart arrive
Wed 6:00a Thu 12:00a
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)
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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)
Flights Hotels
Change Your Search
Refine Results:
Flight Times from
DEPARTURE
5am - 9am $187
9am - 3pm $166
3pm - 9pm $166
9pm - 5am $192
RETURN
5am - 9am $196
9am - 3pm $194
3pm - 9pm $192
9pm - 5am (n/a)
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GO!
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Multiple Carriers (flight details)
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Build your trip to find a great deal! and Go.
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Las Vegas Vac Packages from Lodging.com
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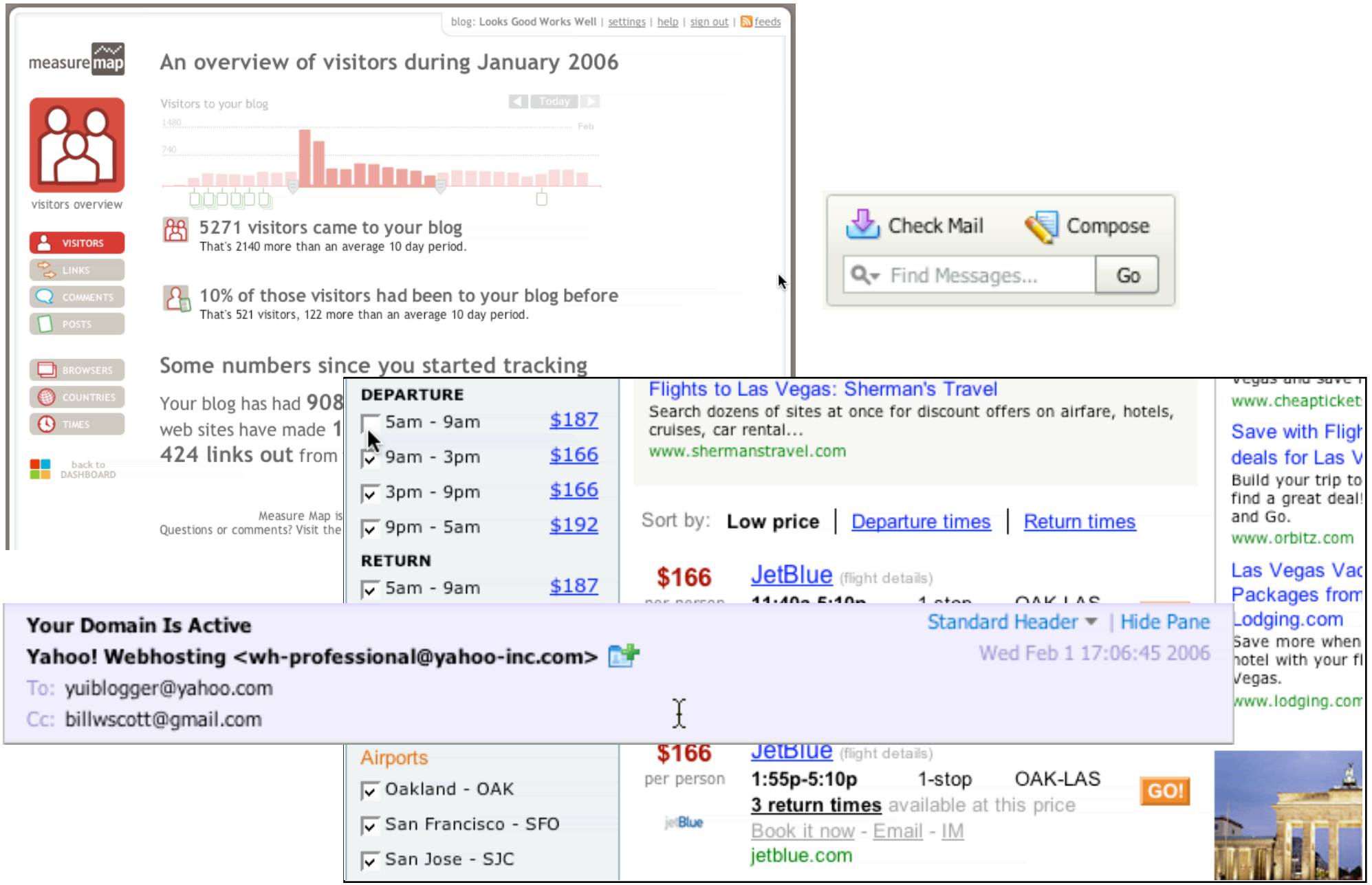
blog: Looks Good Works Well | settings | help | sign out | feeds
measuremap
An overview of visitors during January 2006
visitors overview
Visitors to your blog
Today
5271 visitors came to your blog
That's 2140 more than an average 10 day period.
10% of those visitors had been to your blog before
That's 521 visitors, 122 more than an average 10 day period.
VISITORS
LINKS
COMMENTS
POSTS
BROWSERS
COUNTRIES
TIMES
back to DASHBOARD
Some numbers since you started tracking
Your blog has had 908
web sites have made 1
424 links out from
Measure Map is
Questions or comments? Visit the
Check Mail
Compose
Find Messages...
Go
DEPARTURE
5am - 9am $187
9am - 3pm $166
3pm - 9pm $166
9pm - 5am $192
RETURN
5am - 9am $187
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www.shermanstravel.com
Sort by: Low price | Departure times | Return times
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JetBlue (flight details)
Your Domain Is Active
Yahoo! Webhosting <wh-professional@yahoo-inc.com>
To: yuiblogger@yahoo.com
Cc: billwscott@gmail.com
Standard Header | Hide Pane
Wed Feb 1 17:06:45 2006
Airports
Oakland - OAK
San Francisco - SFO
San Jose - SJC
$166
per person
JetBlue (flight details)
1:55p-5:10p 1-stop OAK-LAS
3 return times available at this price
Book it now - Email - IM
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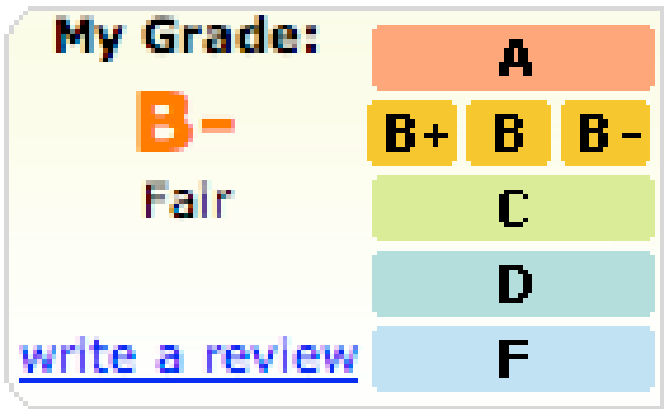
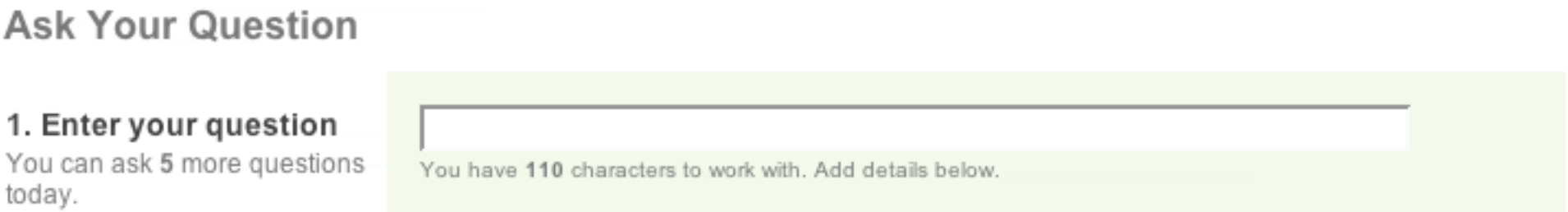

My Grade:
B-
Fair
write a review
A
B+
B
B-
C
D
F

bi
Gmail
talk
BETA
Search Mail
Search
Your message has been sent.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You can ask 5 more questions today.
You have 110 characters to work with. Add details below.

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Popular
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president bush
in
All Blogs
Search
Options
882,052 posts about:
Add to Watchlist
president bush
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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
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members into the U.S. by means of Mexico, to commit aircraft piracy, and to kill President Bush
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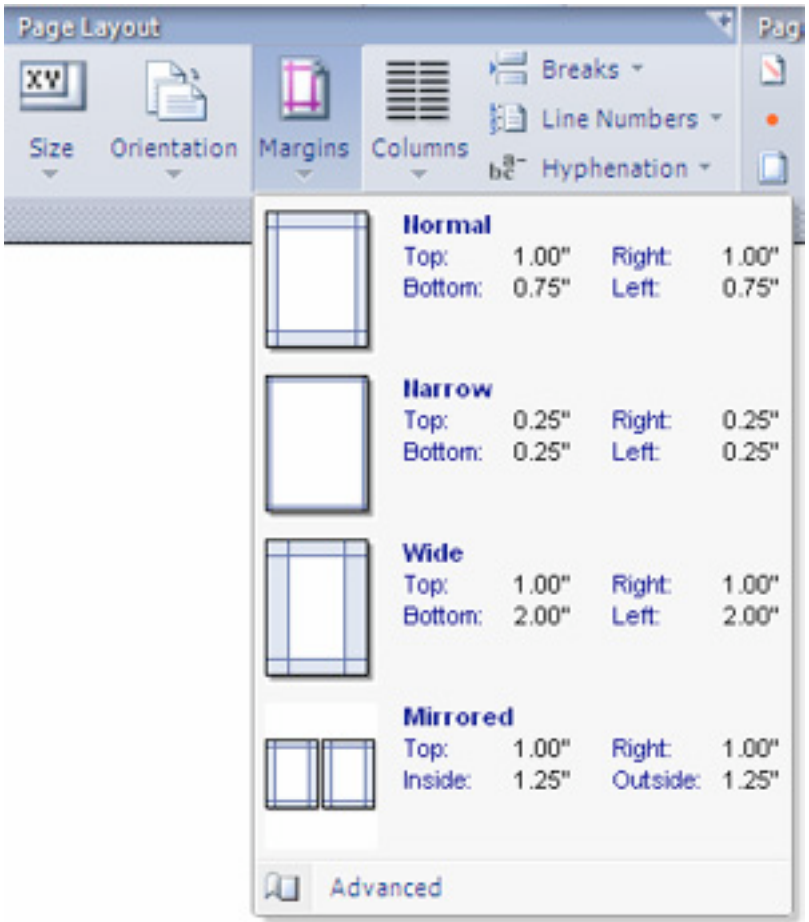
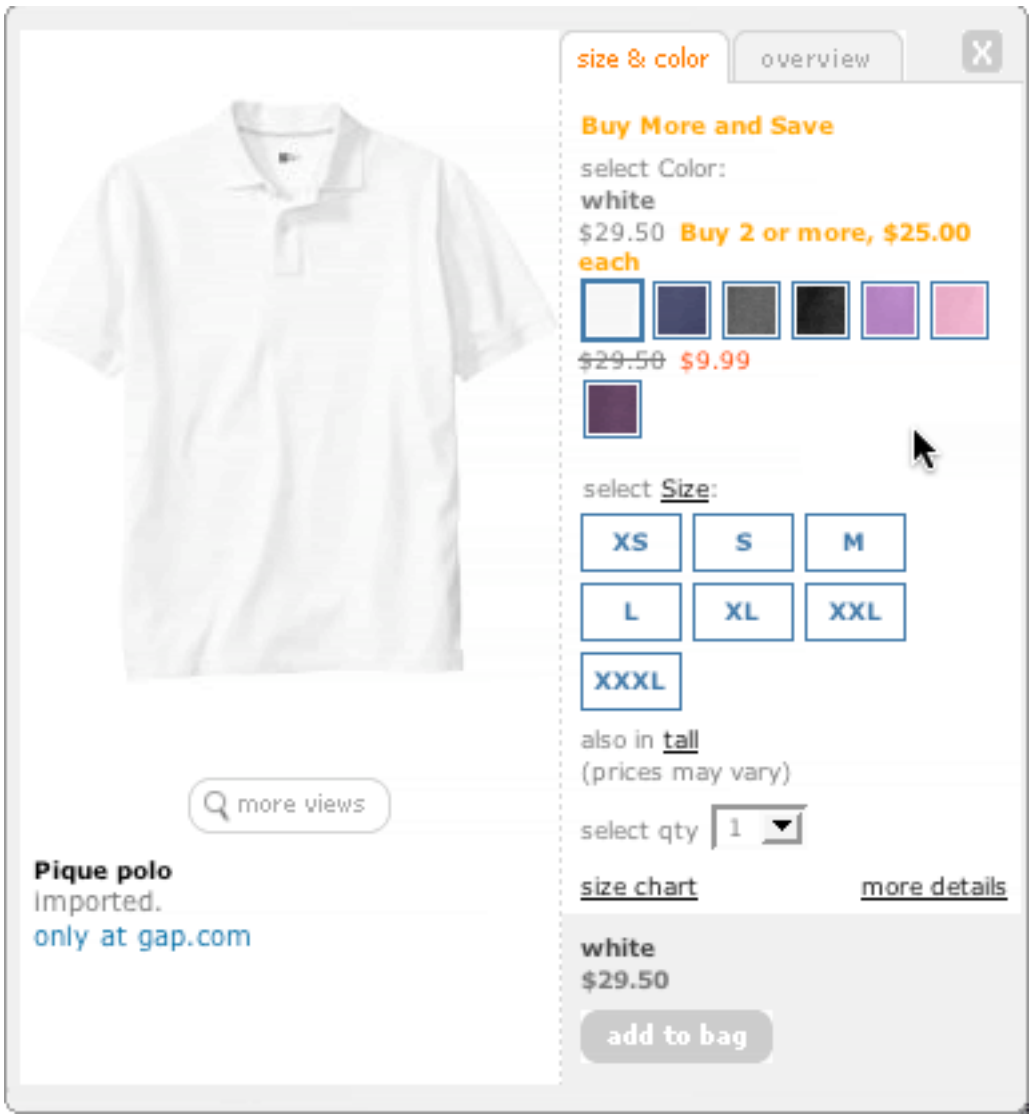


Office 12 Live Preview

digg spy: a real-time view of digg

spy on all stories | spy on queued stories | spy on front page stories

What?	Diggs	Story
	+695	**Nintendo DS download station finder!** http://www.nintendo.com/dsdownloadstation/
	+1399	**How To Build a Game In A Week From Scratch With No..** http://www.gamedev.net/reference/articles/article2...
	+86	**David Hahn - The kid who built a nuclear reactor i...** http://en.wikipedia.org/wiki/David_Hahn
	+201	**Another Apple Mac mini Dual Core 1.66GHz Review** http://reviews.designtechnica.com/review3531.html
	+85	**David Hahn - The kid who built a nuclear reactor i...** http://en.wikipedia.org/wiki/David_Hahn


size & color
overview
Buy More and Save
select Color:
white
$29.50 Buy 2 or more, $25.00 each
$29.50 $9.99
select Size:
XS
S
M
L
XL
XXL
XXXL
also in tall
(prices may vary)
select qty 1
size chart
more details
white
$29.50
add to bag
more views
Pique polo
imported.
only at gap.com

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. Live Suggest. Character Counter.

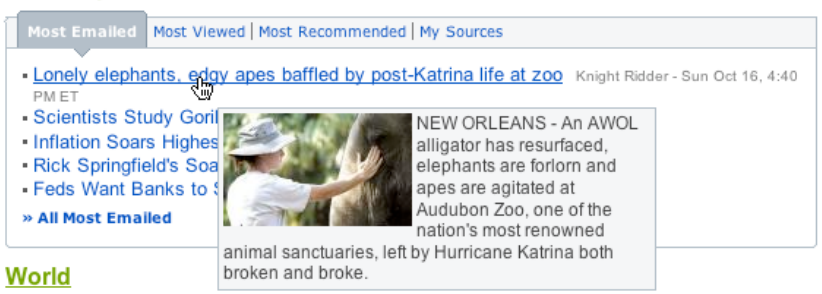
Keep the goal in mind

Design for immediacy

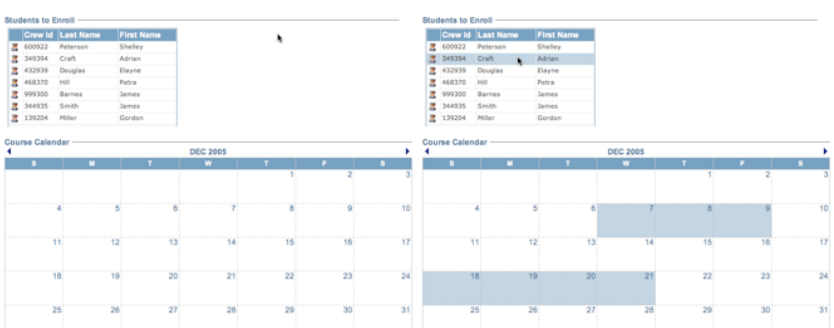
Is it narrowing or is it distracting

Use feedback to boost confidence

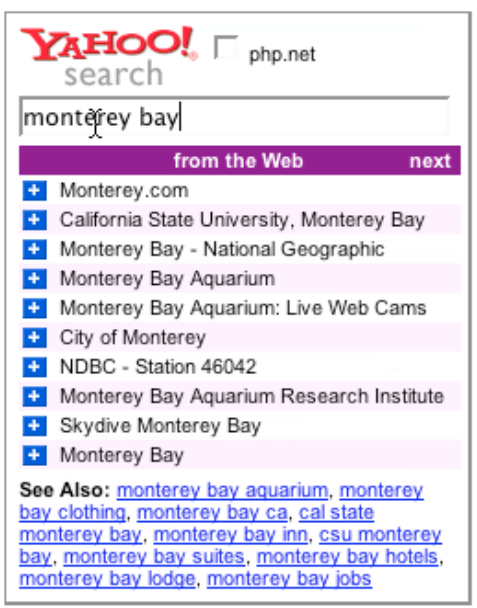
Let the user iterate where possible

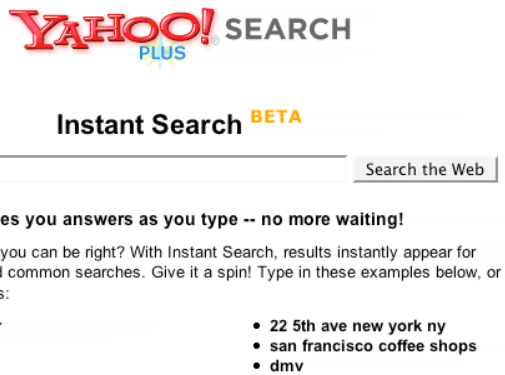


Just-in-time data



Just-in-time logic





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

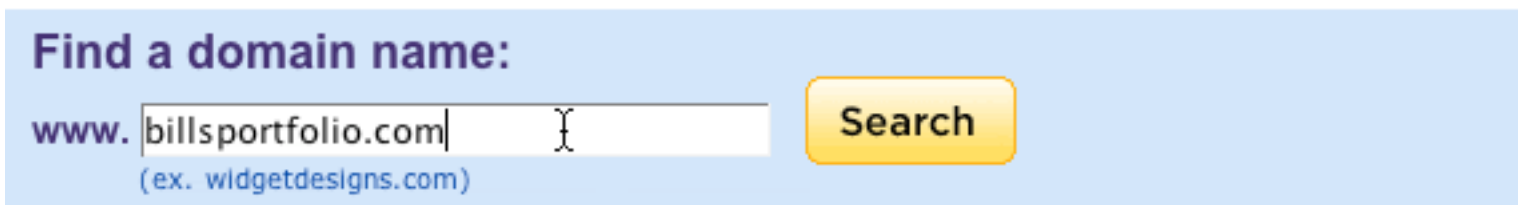
Use feedback to boost confidence

Let the user iterate where possible

Keep the user engaged

Time passes faster

Look for engaging moments



Use live-previews

Look before you leap

Keep the goal in mind

Design for immediacy

Is it narrowing or is it distracting

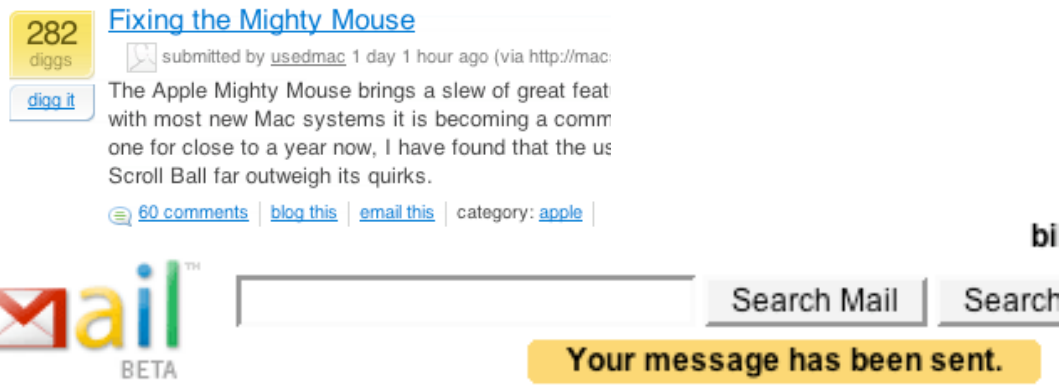
Use feedback to boost confidence

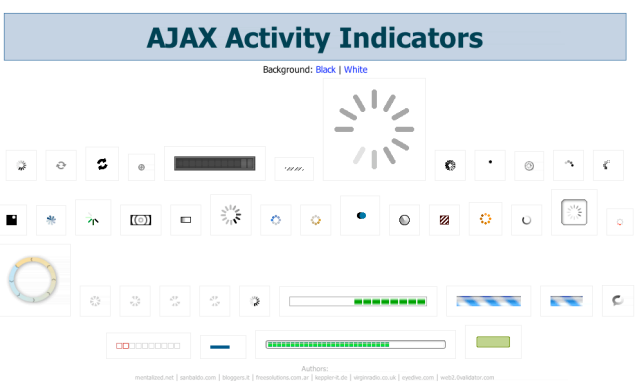
Let the user iterate where possible

Keep the user engaged

Time passes faster

Look for engaging moments





Use live-previews

Look before you leap

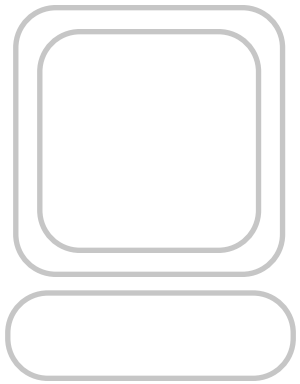
Keep feedback focused

Keep it in context

Updating too many areas at once will be confusing

Show dynamically what is relevant

Avoid creating feedback noise/jitter



desktop

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

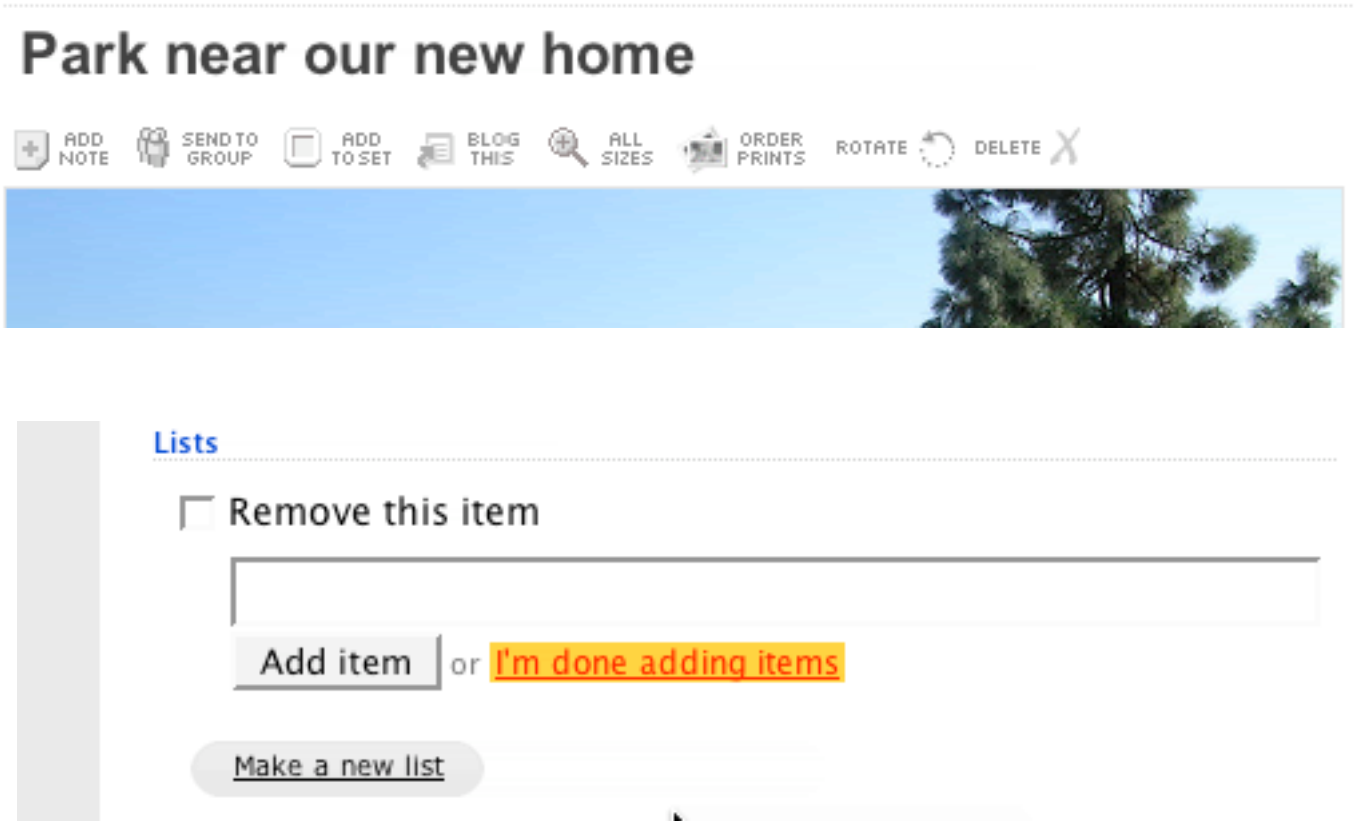
hover blur focus click key
shiftclick doubleclick
drag dragdrop dragflipdrop
shiftdoubleclick tripleclick shifttripleclick

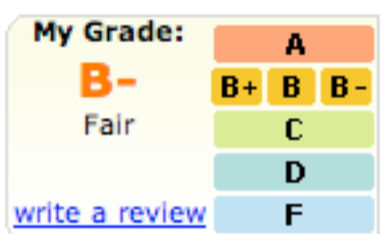
web

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:
B-
Fair
write a review
A
B+
B
B-
C
D
F

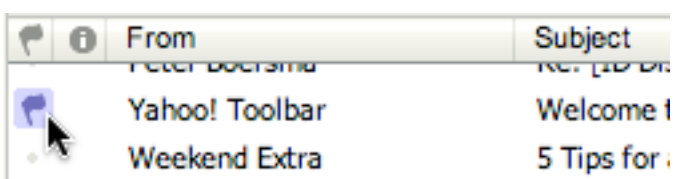
classic

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



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.

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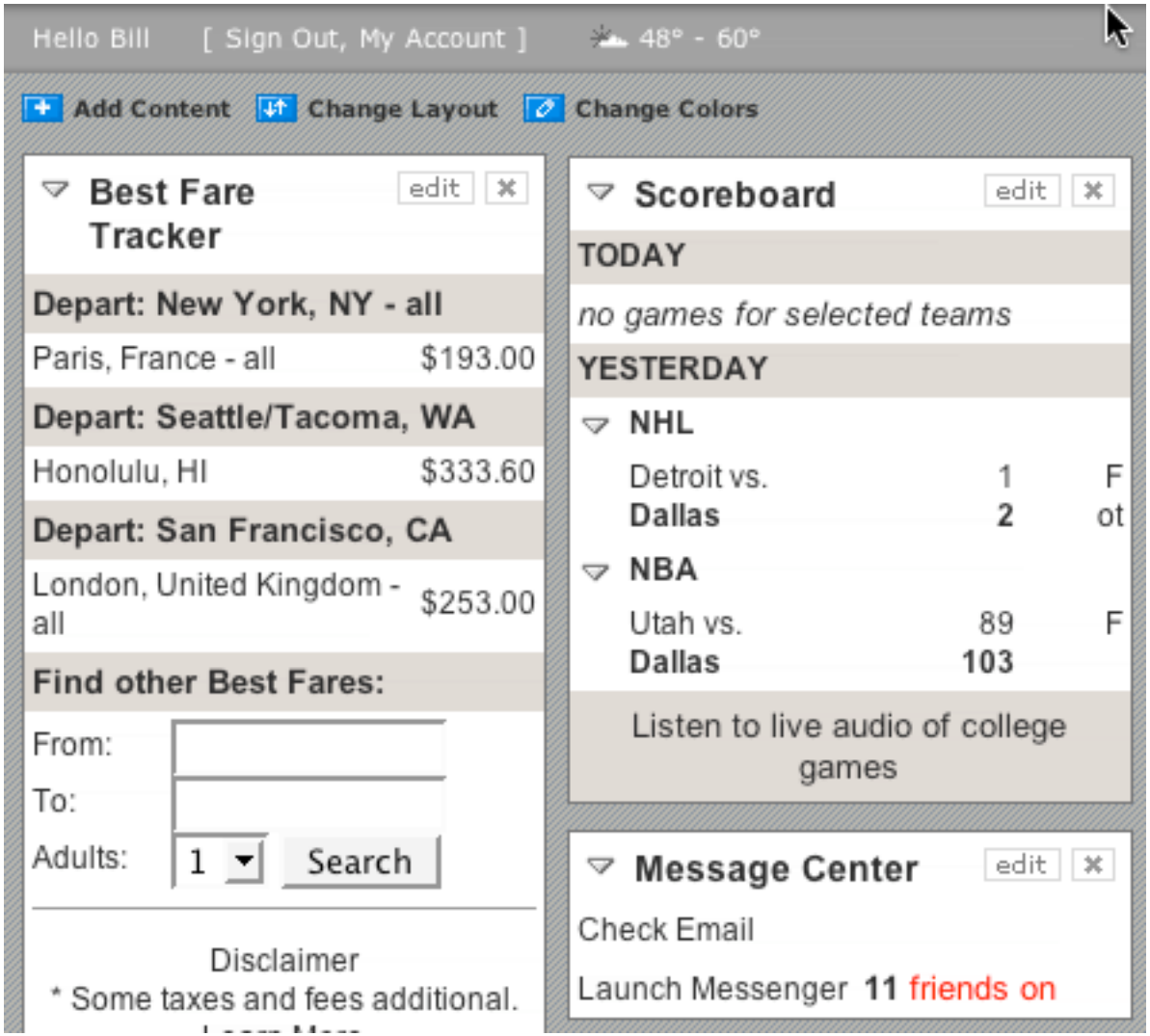

Hello Bill
[Sign Out, My Account]
48° - 60°
Add Content
Change Layout
Change Colors
Best Fare Tracker
edit
Depart: New York, NY - all
Paris, France - all $193.00
Depart: Seattle/Tacoma, WA
Honolulu, HI $333.60
Depart: San Francisco, CA
London, United Kingdom - all $253.00
Find other Best Fares:
From:
To:
Adults: 1
Search
Disclaimer
* Some taxes and fees additional.
Scoreboard
edit
TODAY
no games for selected teams
YESTERDAY
NHL
Detroit vs. 1 F
Dallas 2 ot
NBA
Utah vs. 89 F
Dallas 103
Listen to live audio of college games
Message Center
edit
Check Email
Launch Messenger 11 friends on

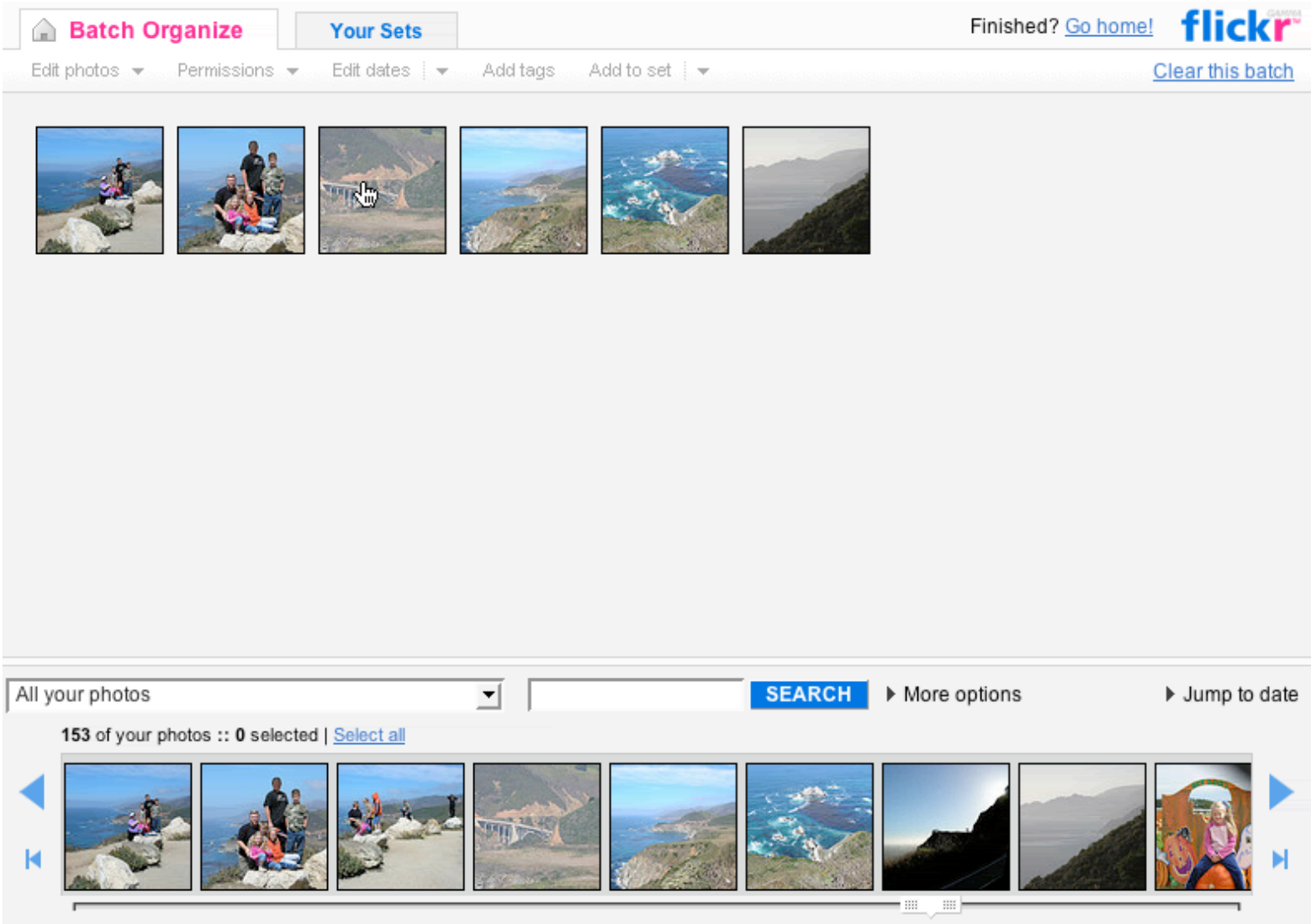
Students to Enroll

	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 600922/Peterson	6	7 999300/Barnes 344935/Smith 139204/Miller	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

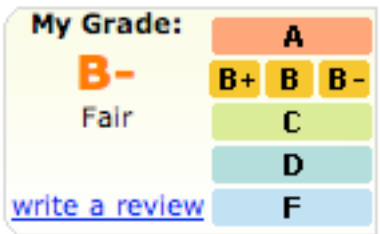

Batch Organize
Your Sets
Finished? Go home!
flickr
Edit photos
Permissions
Edit dates
Add tags
Add to set
Clear this batch
All your photos
SEARCH
More options
Jump to date
153 of your photos :: 0 selected | Select all

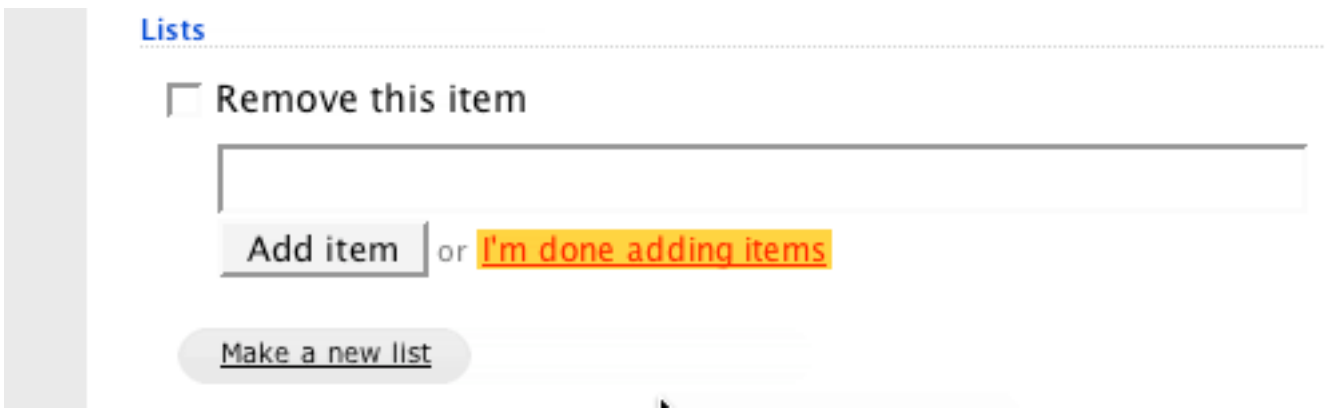
Invitation. Cursor Invitation. Drop Invitation. Tool Tip Invitation. Hover Invitation.

Make it engaging

Use lightweight events as a welcome mat

Rediscover the hover





Make it engaging

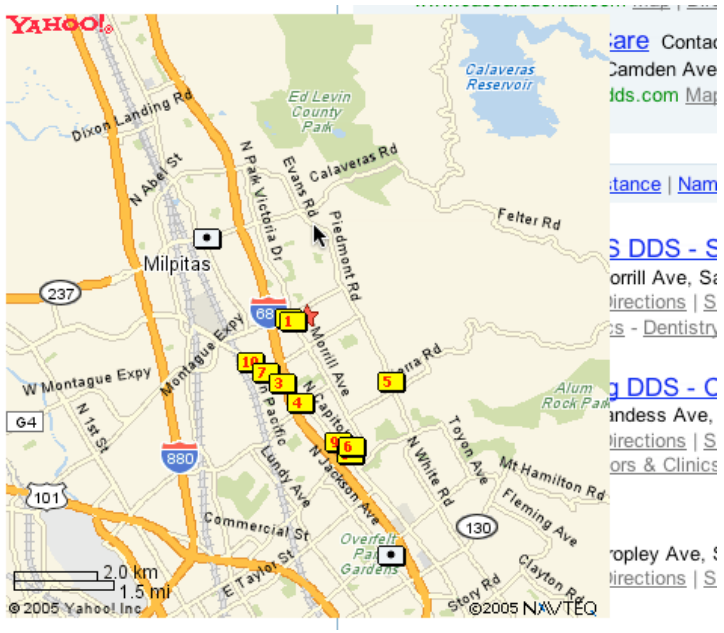
Use lightweight events as a welcome mat

Rediscover the hover

Keep actions out of it

Don't make the user afraid to explore

Don't proselytize



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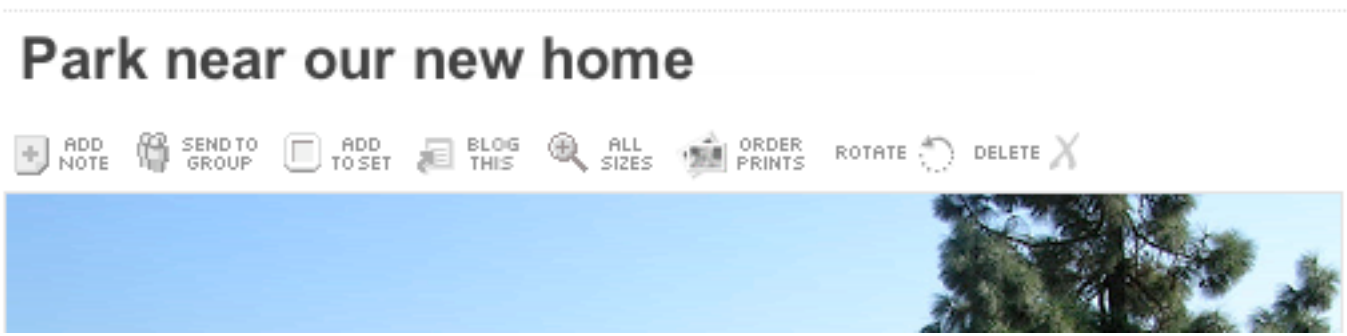


Get the actors involved

Hover Invitation

Cursor Invitation

Tooltip Invitation

Make it engaging

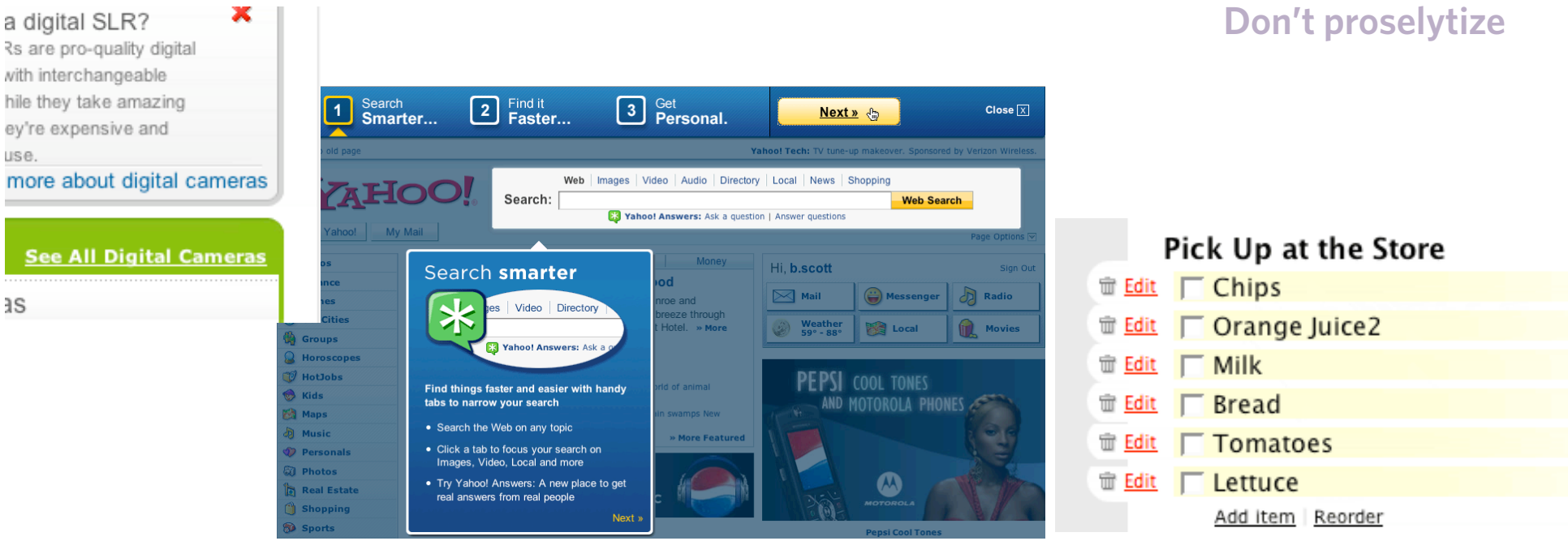
Use lightweight events as a welcome mat

Rediscover the hover

Keep actions out of it

Don't make the user afraid to explore

Don't proselytize



Use invitations to aid discoverability

Two challenges: idiom & feature

Adding signposts, always-on clues doesn't scale

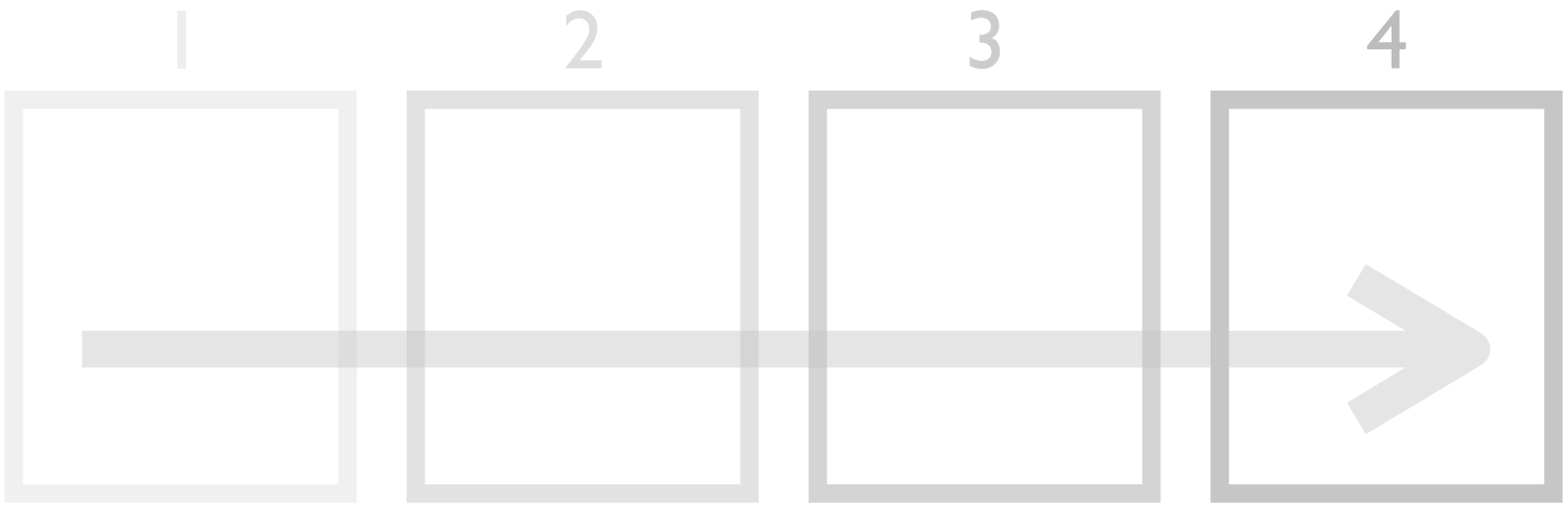
Add tours, help pedals, tips, spotlights

Get the actors involved

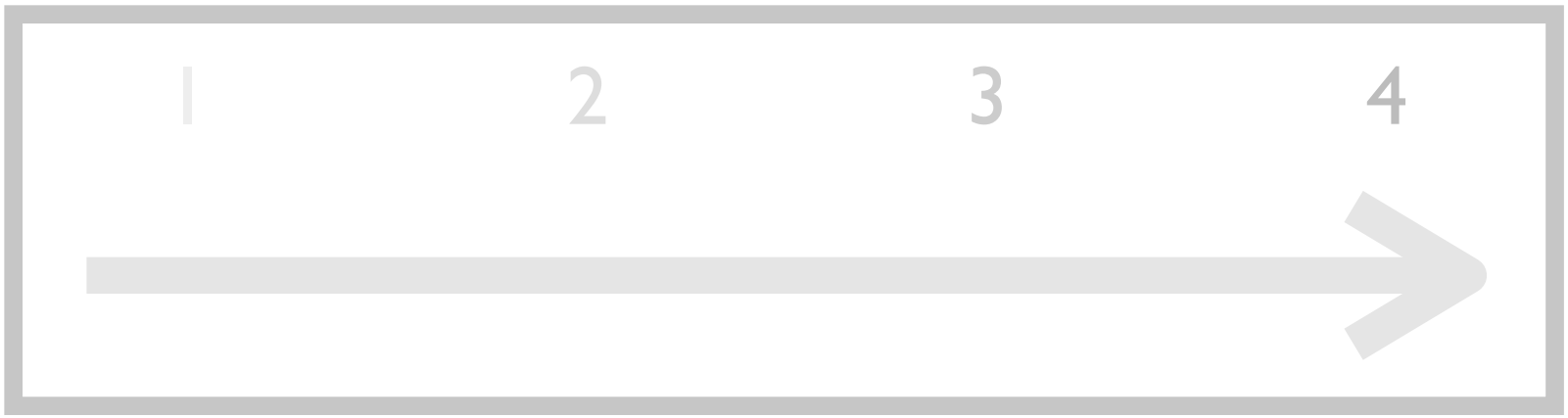
Hover Invitation

Cursor Invitation

Tooltip Invitation



classic flow across pages

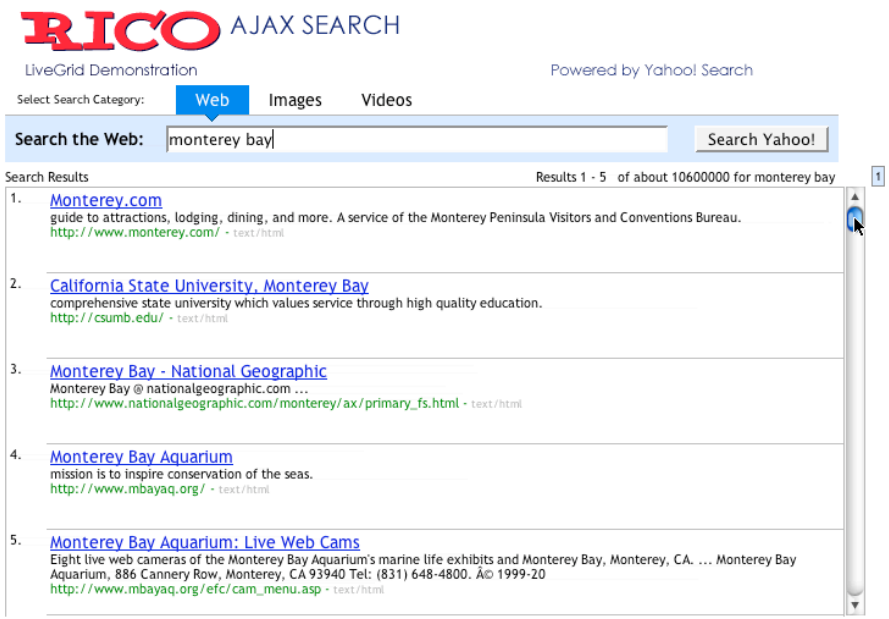


rich flow within page

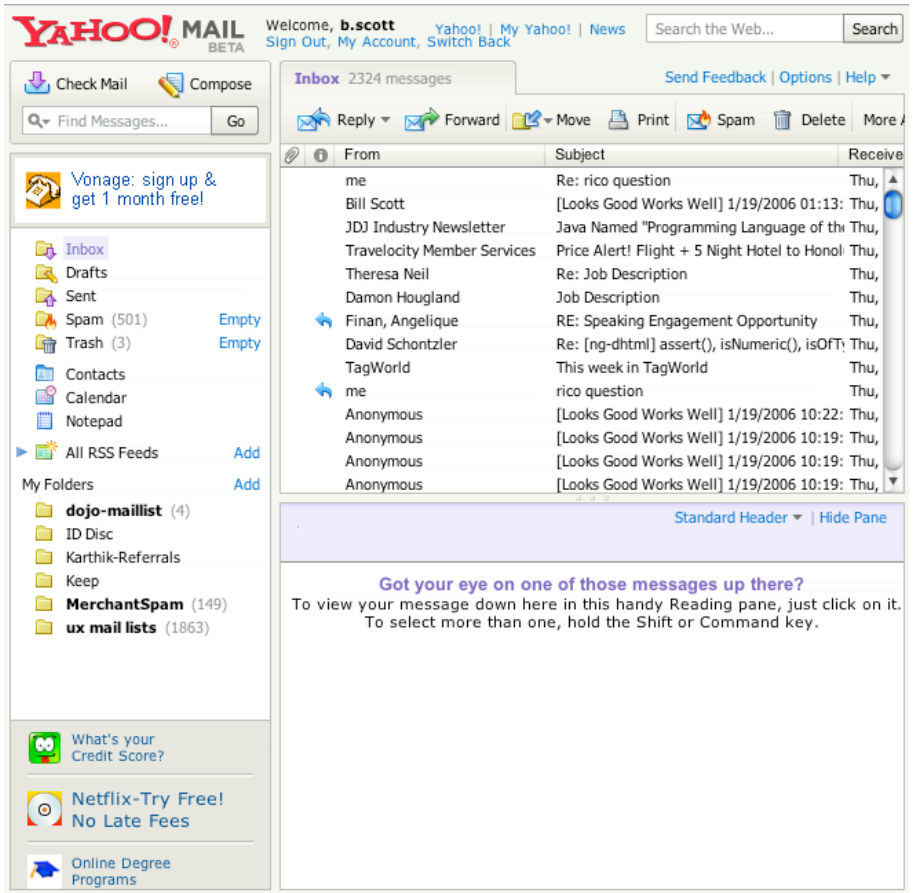
4

Cross borders reluctantly

Rico LiveGrid

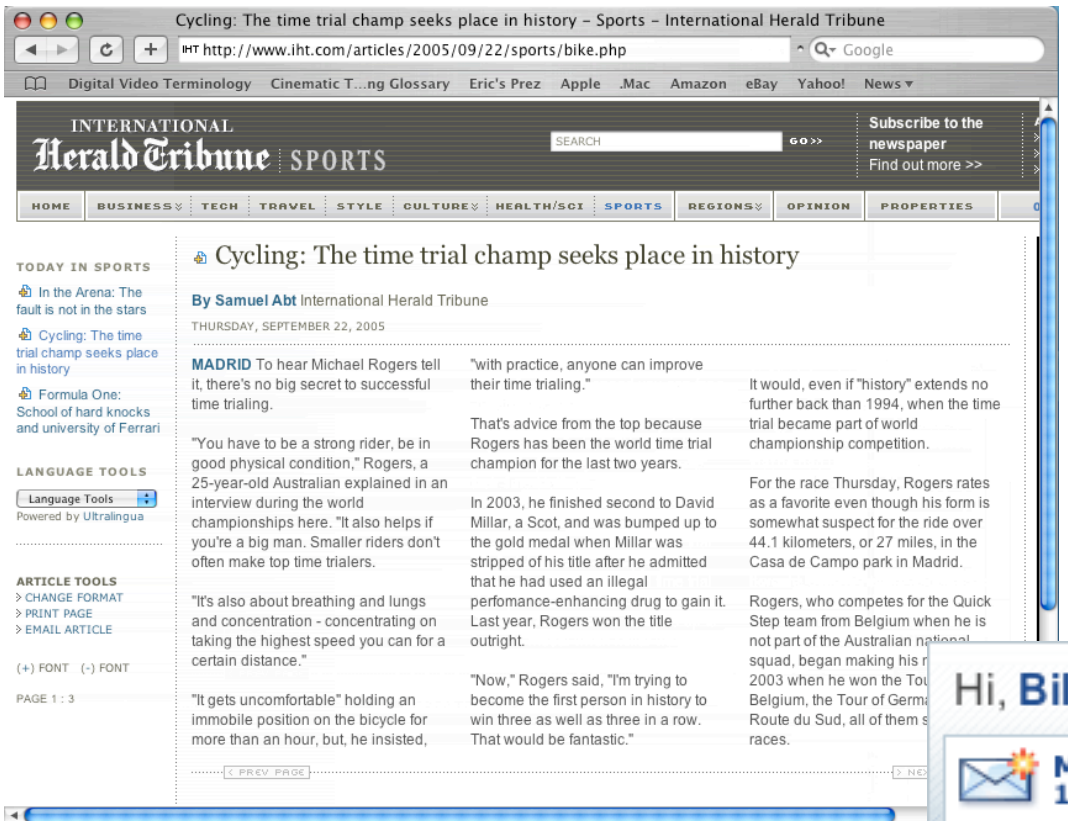


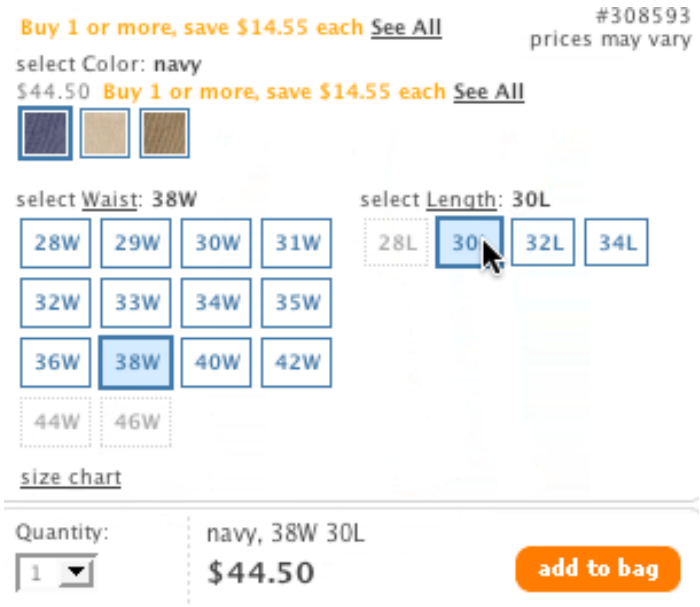
Carousel



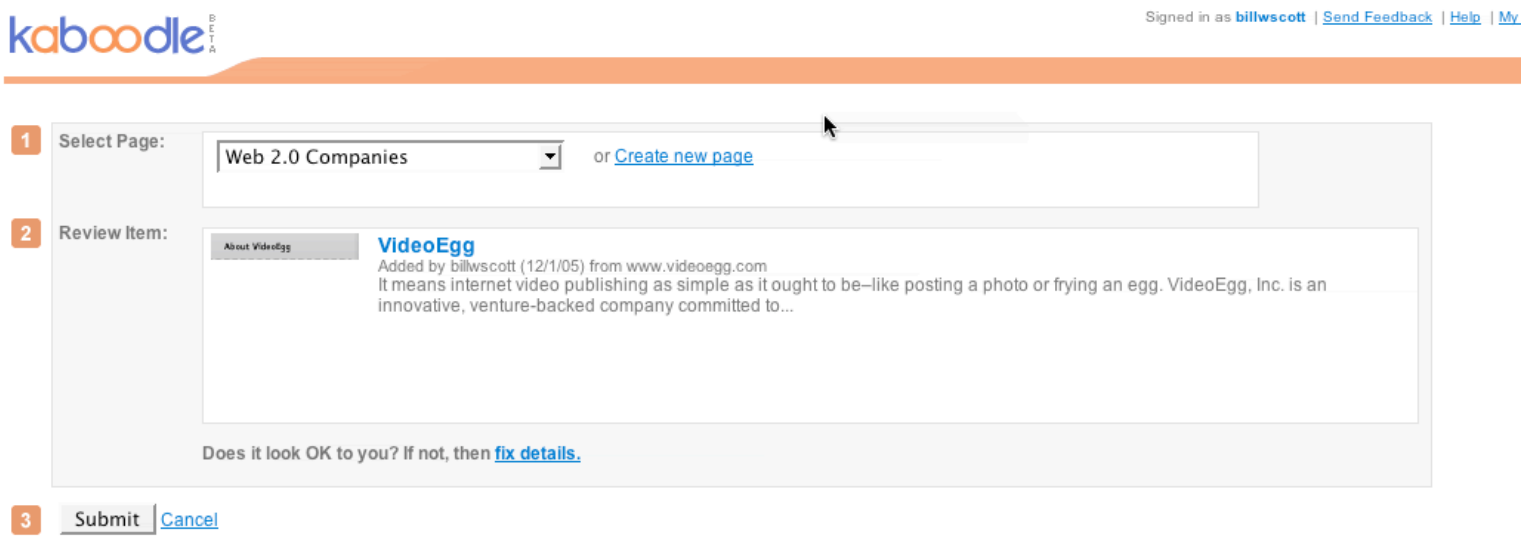
Yahoo! Mail Beta (Oddpost)

- At the very least make your paging fast



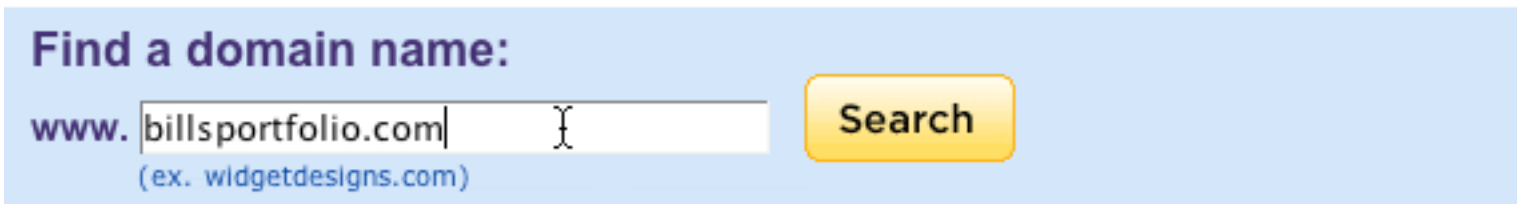

Buy 1 or more, save $14.55 each See All
#308593
prices may vary
select Color: navy
$44.50 Buy 1 or more, save $14.55 each See All
select Waist: 38W
select Length: 30L
28W 29W 30W 31W
32W 33W 34W 35W
36W 38W 40W 42W
44W 46W
28L 30L 32L 34L
size chart
Quantity:
1
navy, 38W 30L
$44.50
add to bag

CH
Search by topic
Contact:
Private
How can we be of service?
Select...

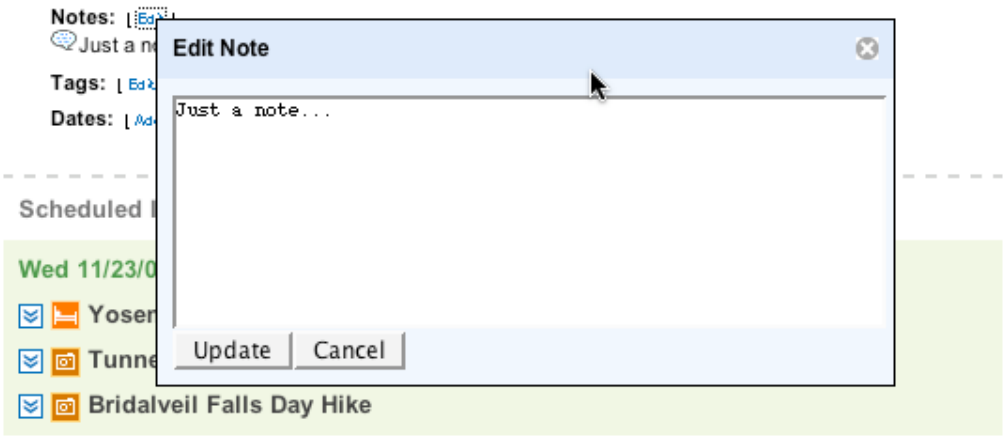

kaboodle BETA
Signed in as billwscott | Send Feedback | Help | My
1 Select Page:
Web 2.0 Companies
or Create new page
2 Review Item:
VideoEgg
Added by billwscott (12/1/05) from www.videoegg.com
It means internet video publishing as simple as it ought to be–like posting a photo or frying an egg. VideoEgg, Inc. is an innovative, venture-backed company committed to...
Does it look OK to you? If not, then fix details.
3 Submit Cancel

more views
select
select Color: babe pink combo
#357223
$14.50
select Size:
XS
S
M
L
XL
XXL
size chart
Quantity:
1
babe pink combo
$14.50
add to bag
please select a Size before adding to bag

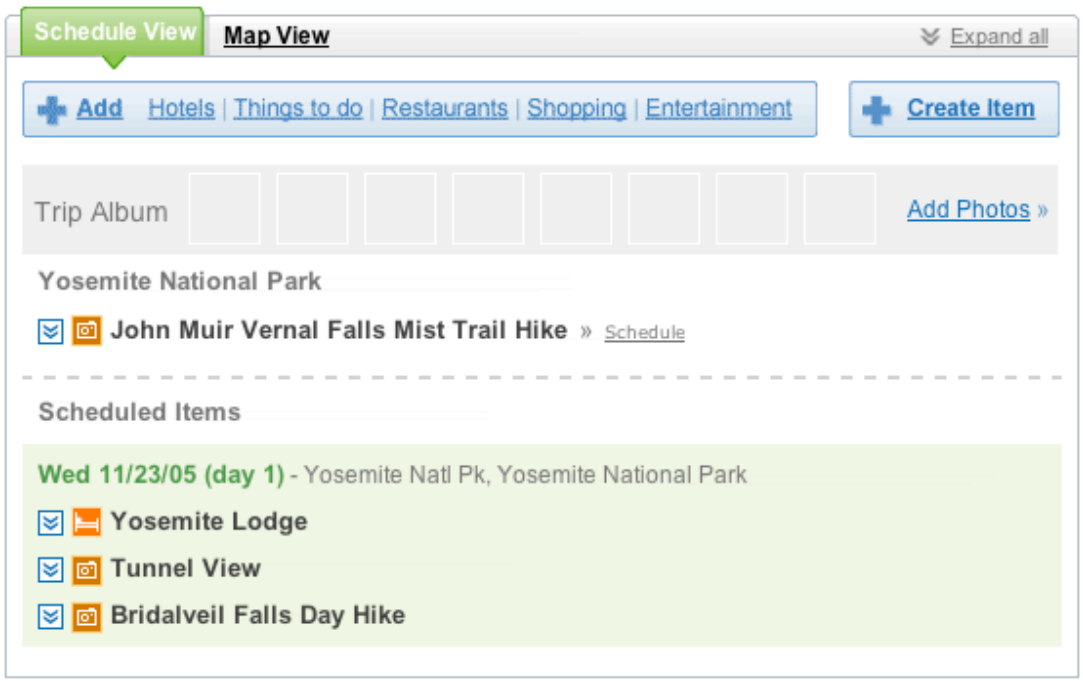
Required information for Google account
Your current email address:
someone@somewhere.com
e.g. myname@example.com. This will be your username and sign-in.
Choose a password:
Password strength: Too short
Minimum of 6 characters in length.

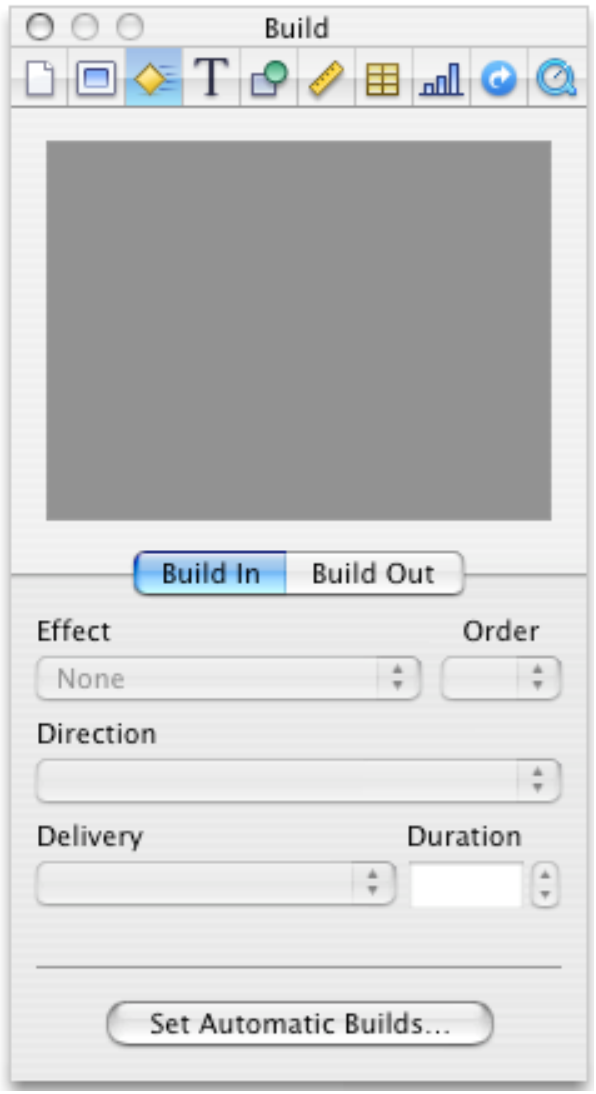

Find a domain name:
www.
billsportfolio.com
(ex. widgetdesigns.com)
Search

- 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**

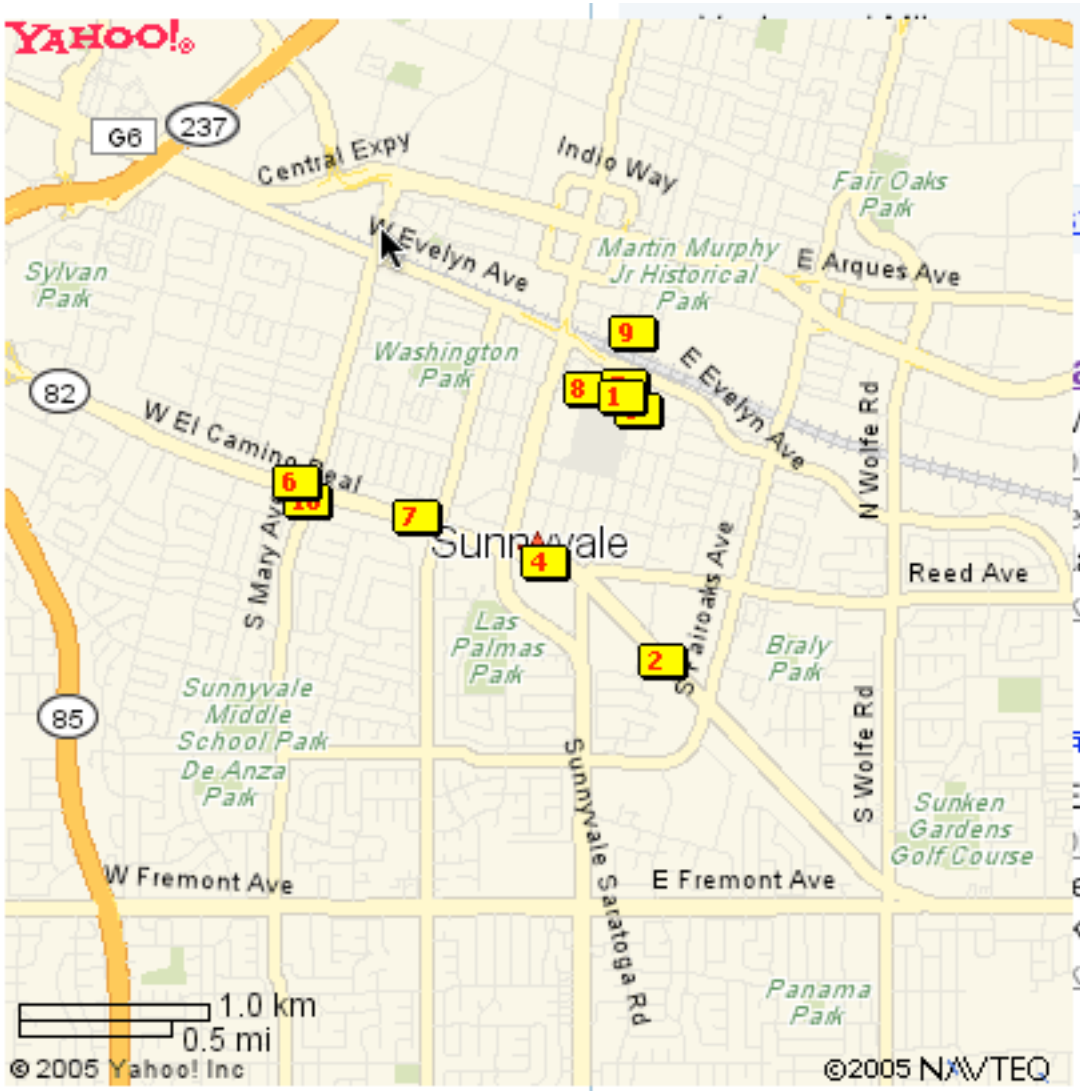


Wired News: Top Stories
edit
Christians Code Heavenly Games
Cloning the Best in Show
Brain Workouts May Tone Memory
Movies
edit
Showtimes for 76208 »
Must Love Dogs 1hr 30min - Rated PG-13


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


Build
Build In
Build Out
Effect
Order
None
Direction
Delivery
Duration
Set Automatic Builds...

Auburn
113
Citrus Heights
Sacramento
50
Florin
16
Elk Grove
Galt
88
Lodi
12
Oakley
Stockton
4
4
Manteca
120
Oakdale
Tracy
Reno
N V
San Francisco
C A
Las V
Los Angeles


YAHOO!
G6
237
Central Expy
Indio Way
Fair Oaks Park
W Evelyn Ave
Martin Murphy Jr Historical Park
E Arques Ave
Sylvan Park
Washington Park
E Evelyn Ave
82
W El Camino Real
N Wolfe Rd
S Mary Ave
Sunnyvale
Reed Ave
S Taaffe Ave
Las Palmas Park
Braly Park
S Wolfe Rd
85
Sunnyvale Middle School Park
De Anza Park
Sunken Gardens Golf Course
W Fremont Ave
E Fremont Ave
Sunnyvale Saratoga Rd
Panama Park
1.0 km
0.5 mi
© 2005 Yahoo! Inc
©2005 NAVTEQ

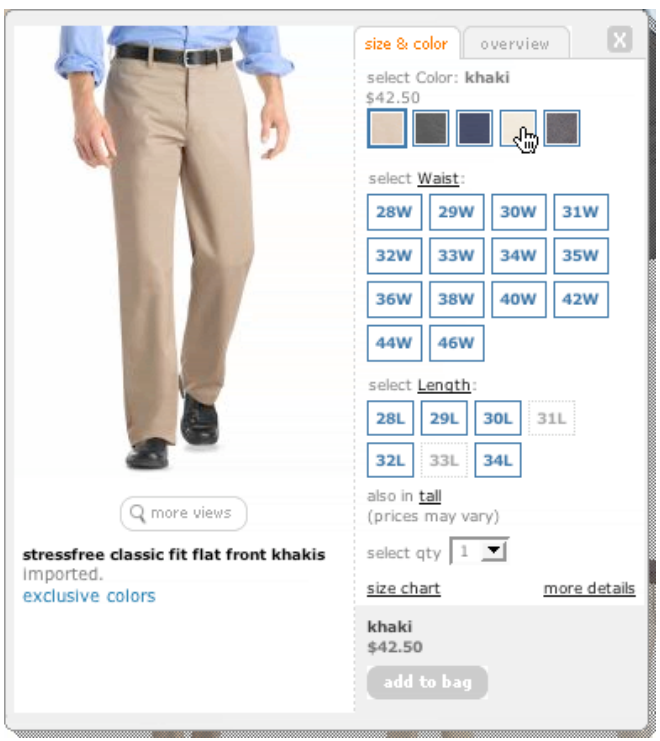
3. Il Postale

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

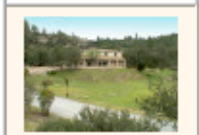
Every page jump is a mental speed bump

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	Virtual Tours
	$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 M Alain Pinel Realtors			
	$2,750,000 Single Res	5, 4+ 5000	155 LARITA DR Ben Lomond, CA 95005 (San Lorer Valley) Network Alliance Real Estate			
	$2,777,000 Single Res	5, 4+ 5819	777 HAPPY VALLEY RD Scotts Valley, CA 95065 (Scotts Val Linda Burroughs Real Estate			

New Search

<<Pre

RICO AJAX SEARCH

LiveGrid Demonstration

Powered by Yahoo! Search

Select Search Category: Web Images Videos

Search Images: flowers Search Yahoo!

Search Results Results 1 - 5 of about 1580284 for flowers

flowers 025
flowers021jpg 110k 29Feb2004 flowers022jpg 783k 29Feb2004 flowers023jpg 186k
http://wp.li.ru/flowers
1024x768 - jpeg fmt - 0.3MB

flowers 063
flowers059jpg 122k 29Feb2004 flowers060jpg 134k 29Feb2004 flowers061jpg 120k
http://wp.li.ru/flowers
1024x768 - jpeg fmt - 0.1MB

flowers 045
flowers041jpg 277k 29Feb2004 flowers042jpg 125k 29Feb2004 flowers043jpg 744k
http://wp.li.ru/flowers
1024x768 - jpeg fmt - 0.1MB

flowers 076
flowers072jpg 820k 29Feb2004 flowers073jpg 160k 29Feb2004 flowers074jpg 120k
http://wp.li.ru/flowers
1024x768 - jpeg fmt - 0.1MB

flowers 019
flowers015jpg 781k 29Feb2004 flowers016jpg 455k 29Feb2004 flowers017jpg 143k
http://wp.li.ru/flowers
1024x768 - jpeg fmt - 0.3MB

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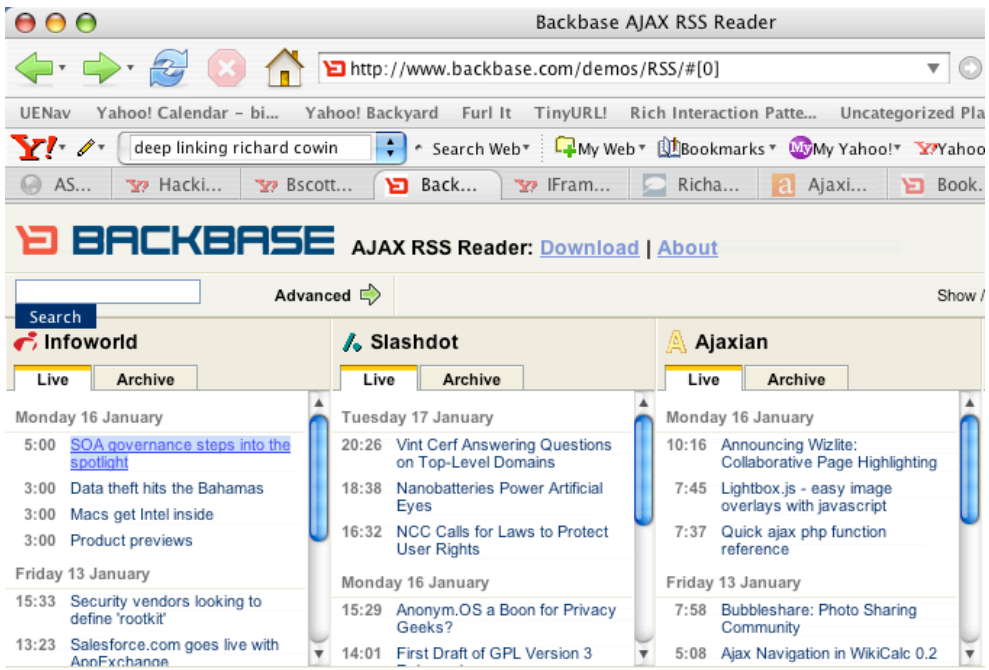


Plan for linking, crawling and back button

Not everything is a single page application

What will the user think the back button does?

Use overlays

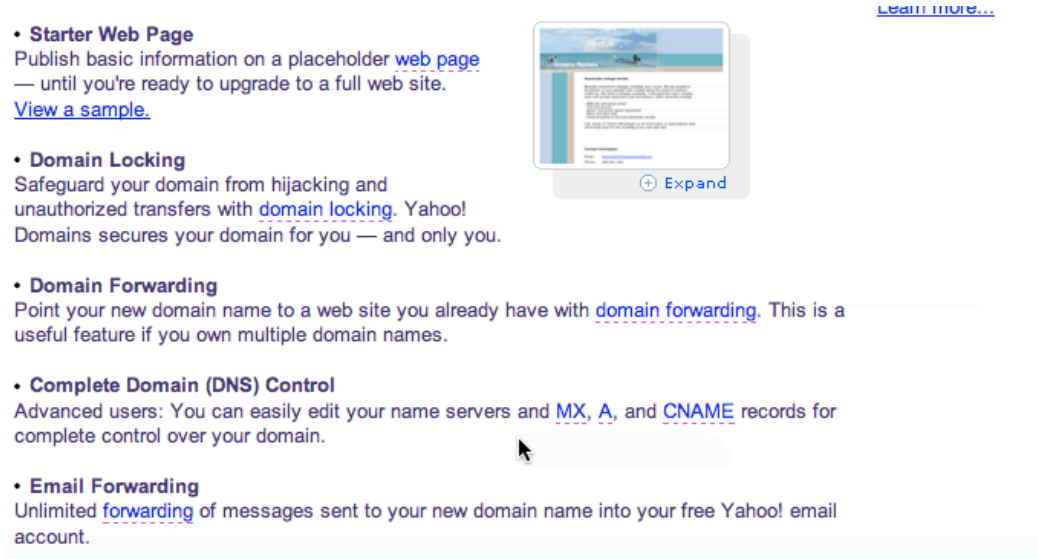
For momentary interruption

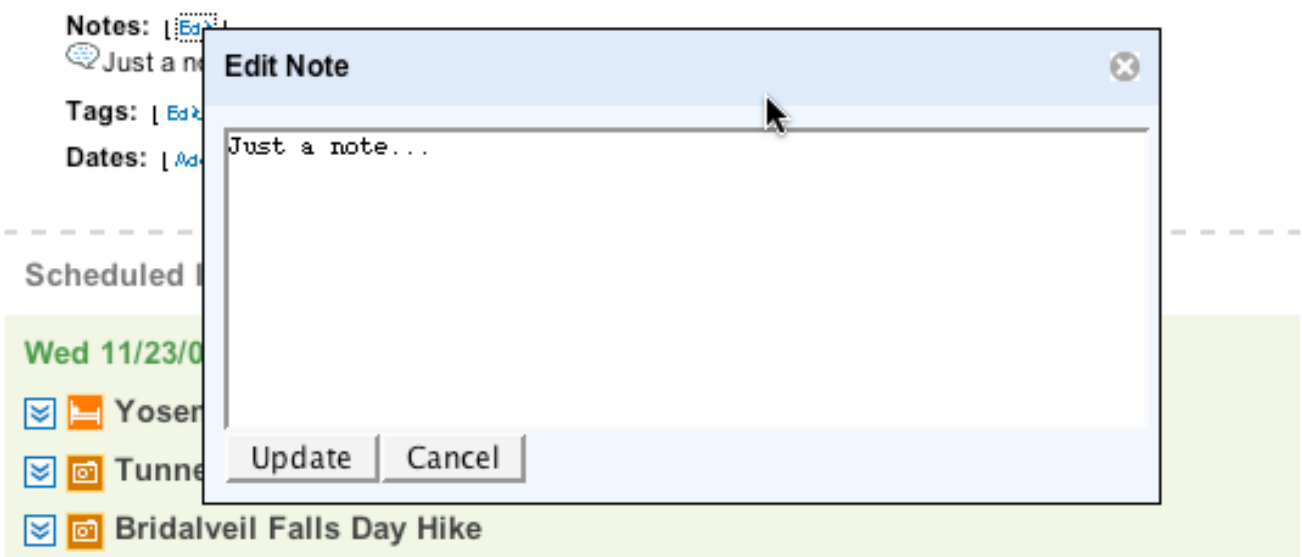
Replace page transition

When editing an individual, more complex item

Be symmetrical

Not disturb the page



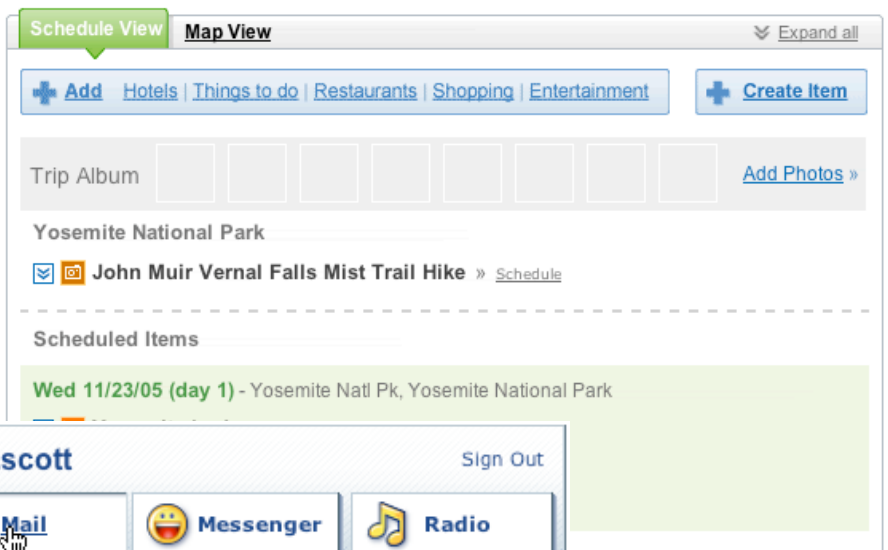


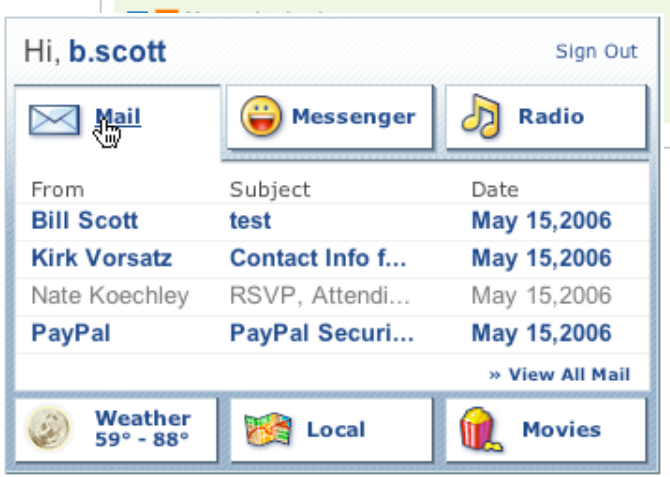
Use overlays

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

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For editing part of a collection
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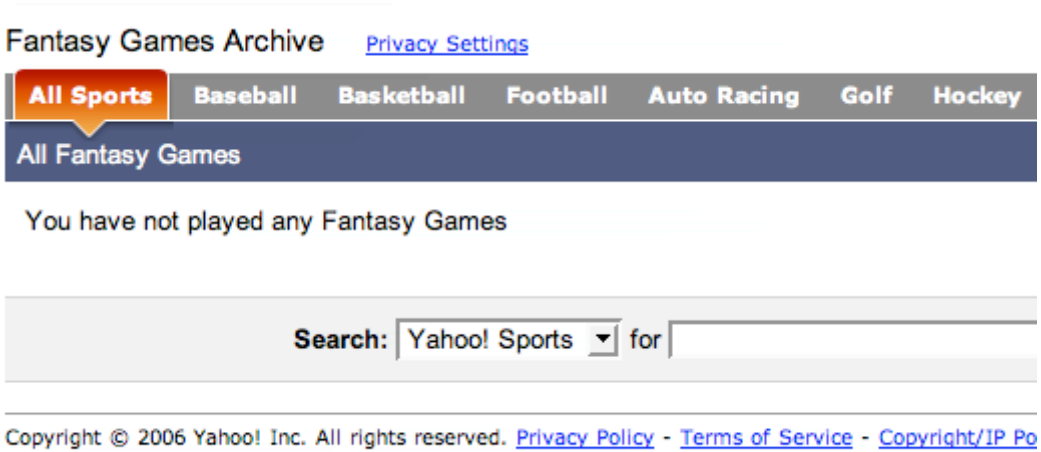
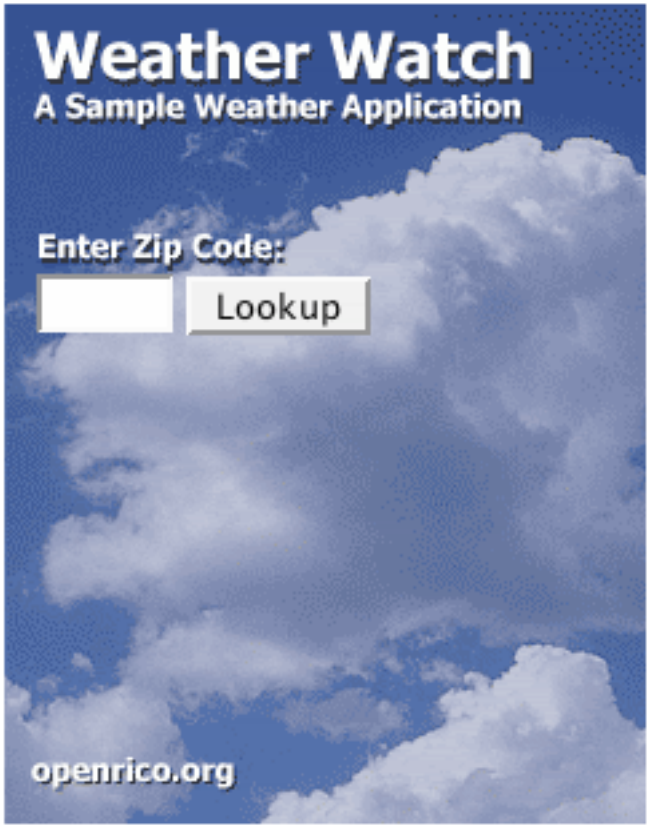
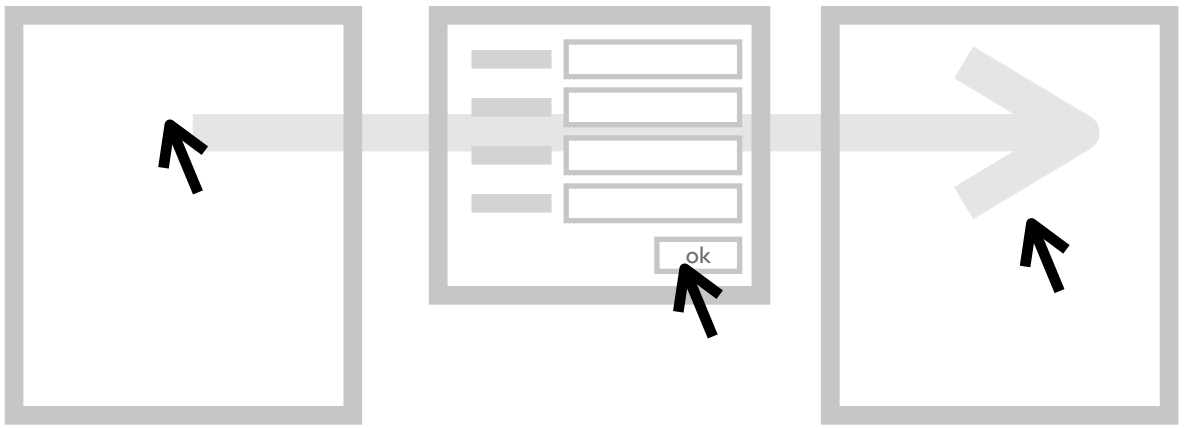


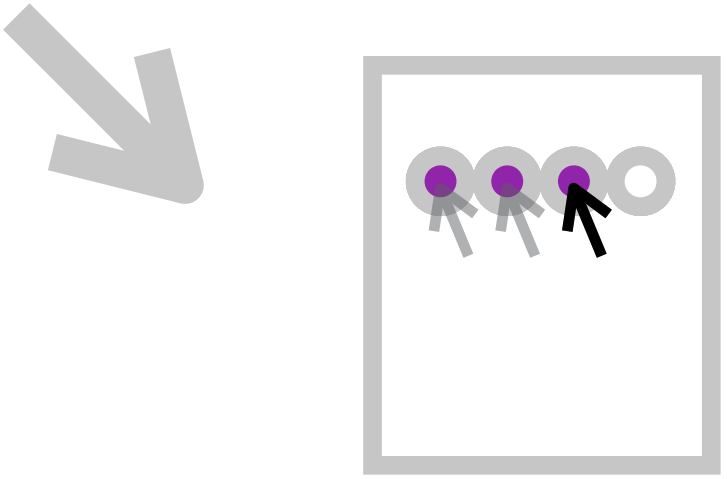


Use space creatively

Slide, zoom, flip, lens, fade
Think of your backstage



heavy click-weight



light-weight actions

5 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

lantzilla pro says:

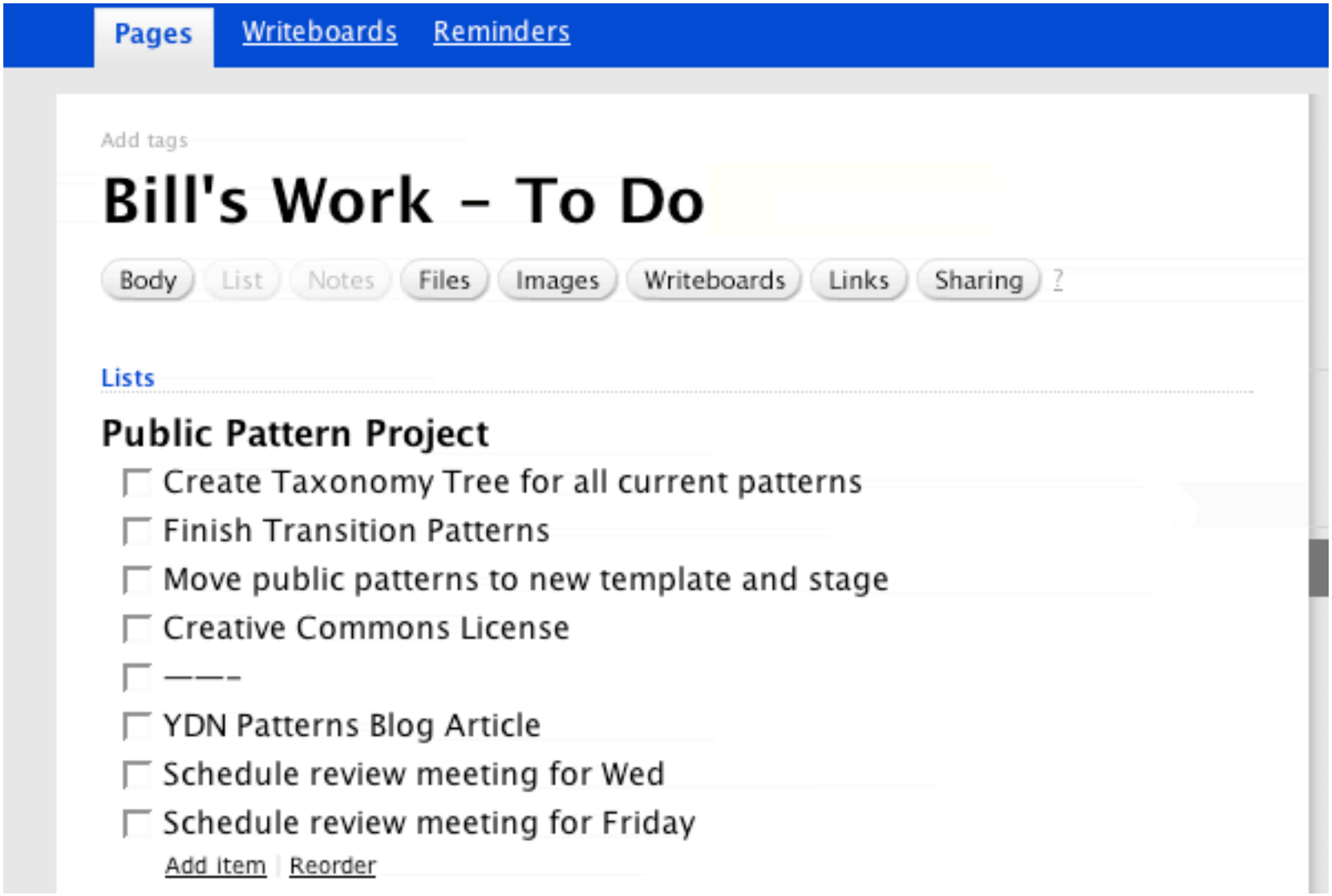
...with biscuits and gravy and all the fixins...
Posted 16 hours ago. (permalink)

Tunnel View View | Map | Delete

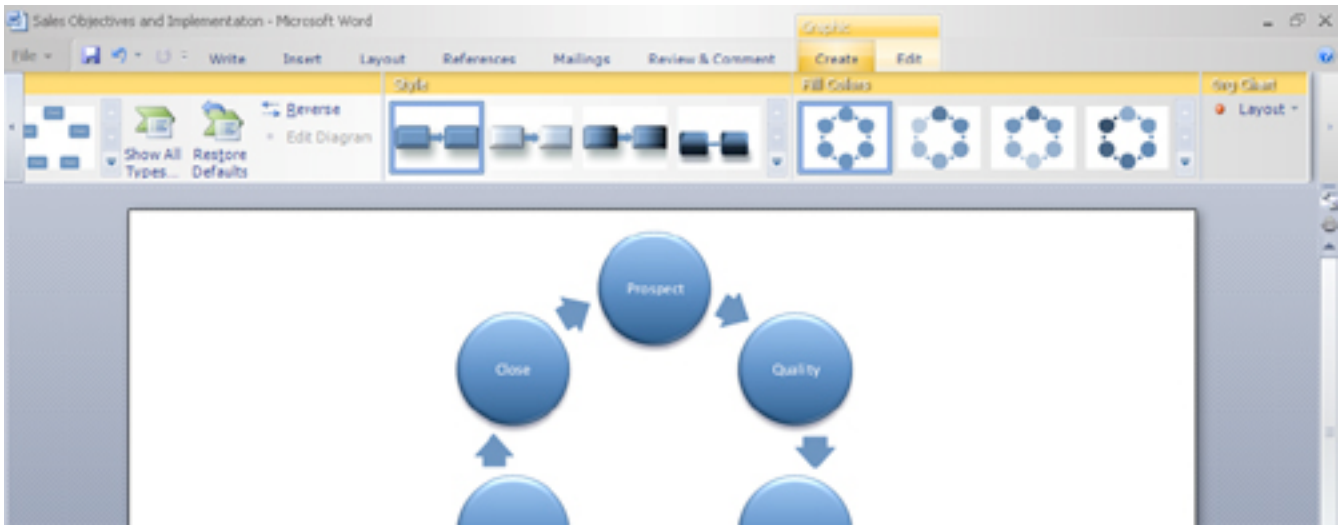
Bridalveil Falls Day Hike

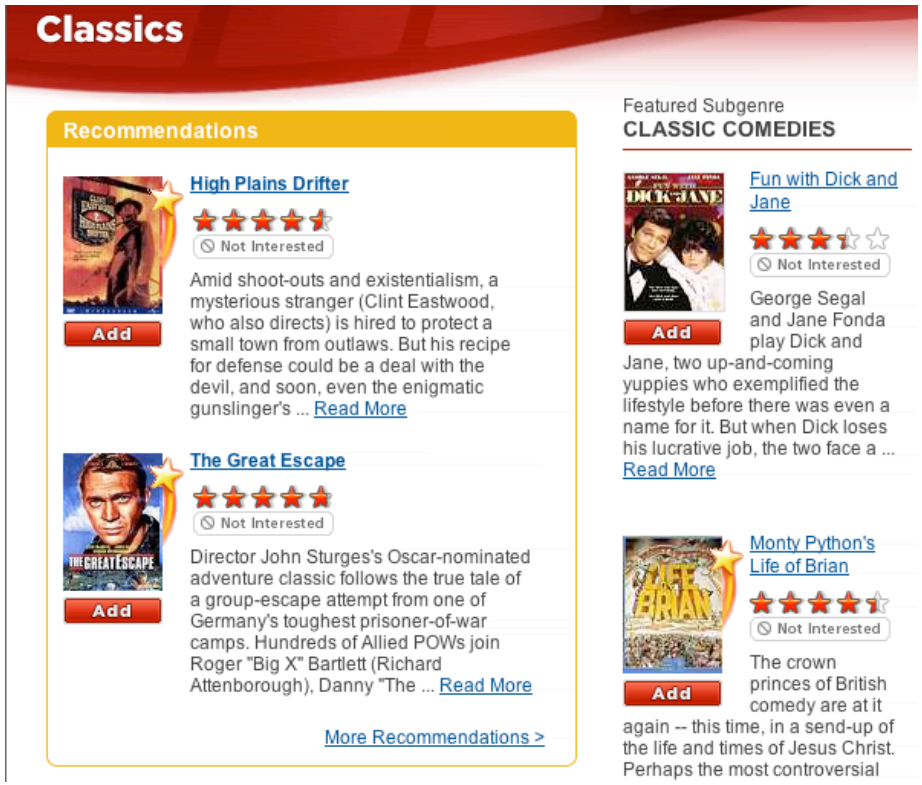
Add your comment

(Some HTML is OK.)


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




Classics
Recommendations
High Plains Drifter
Not Interested
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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
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Monty Python's Life of Brian
Not Interested
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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

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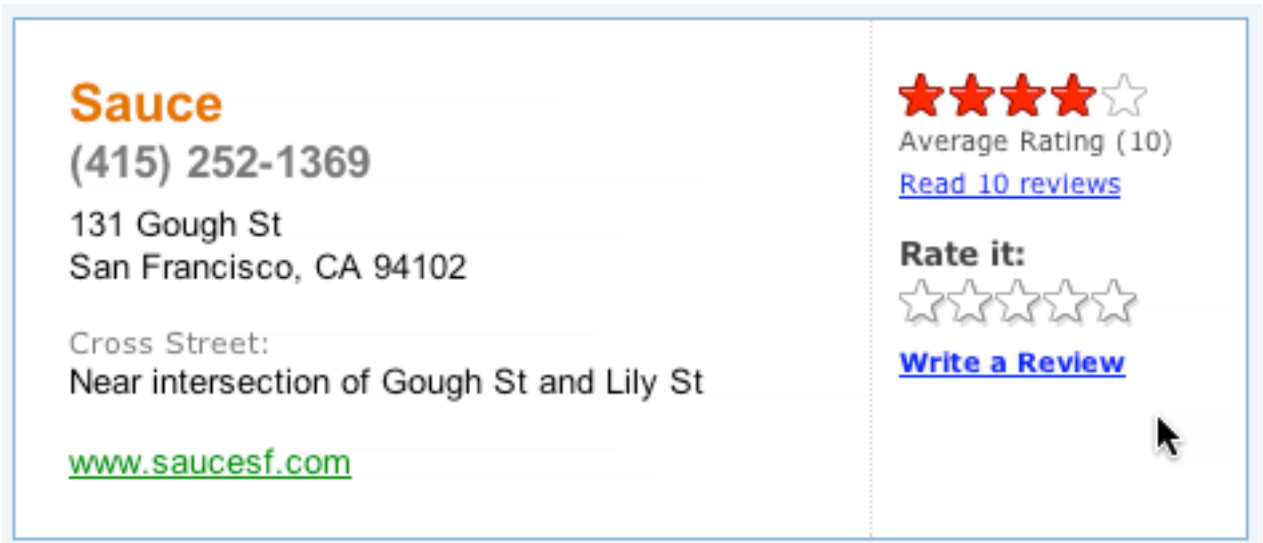
Recommend It:
Average (63 votes)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San Francisco, CA 94102
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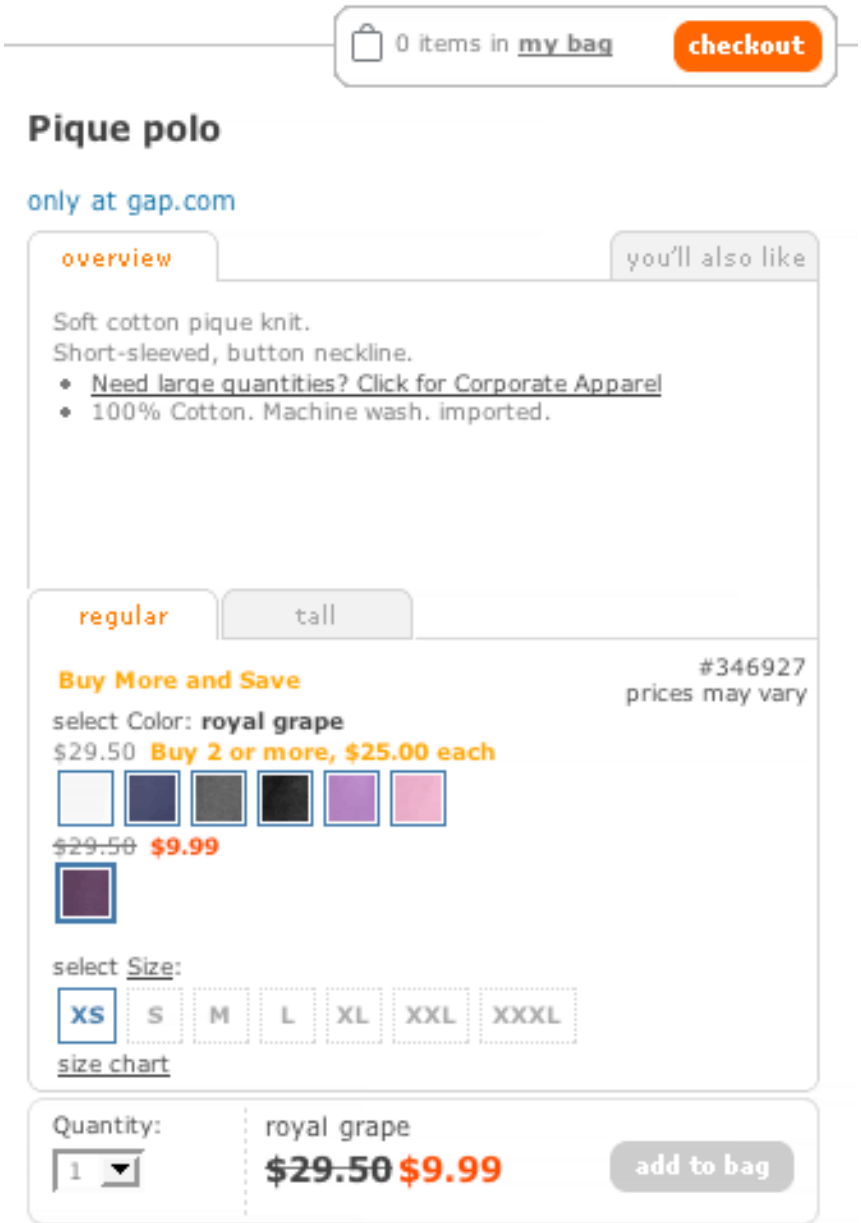
0 items in my bag
checkout
Pique polo
only at gap.com
overview
you'll also like
Soft cotton pique knit.
Short-sleeved, button neckline.
Need large quantities? Click for Corporate Apparel
100% Cotton. Machine wash. imported.
regular
tall
Buy More and Save
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select Size:
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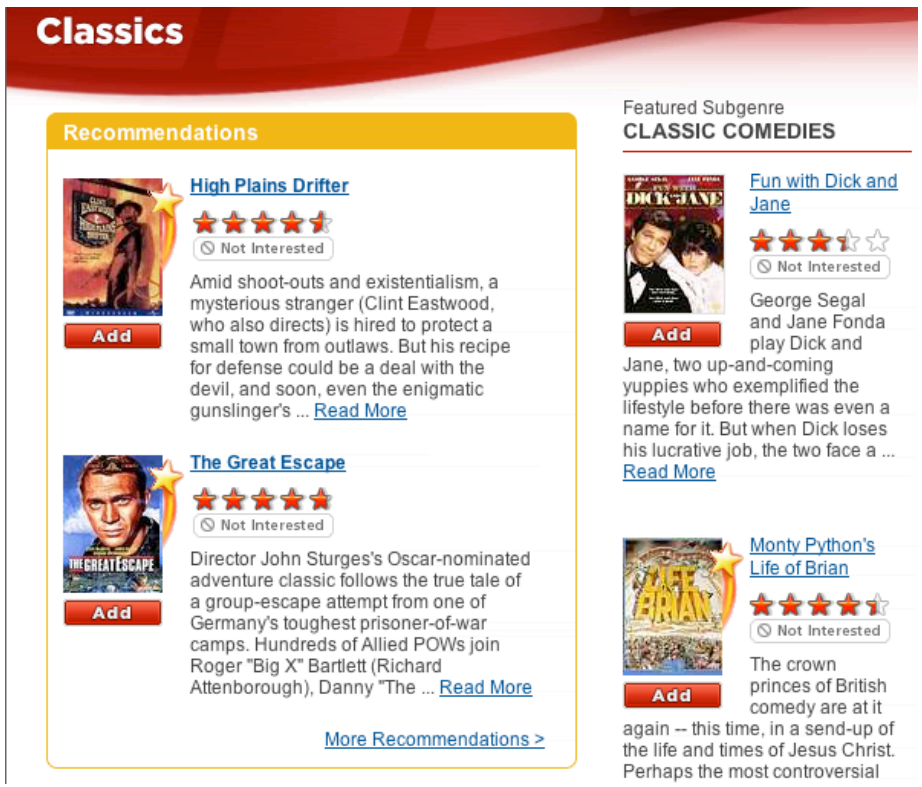
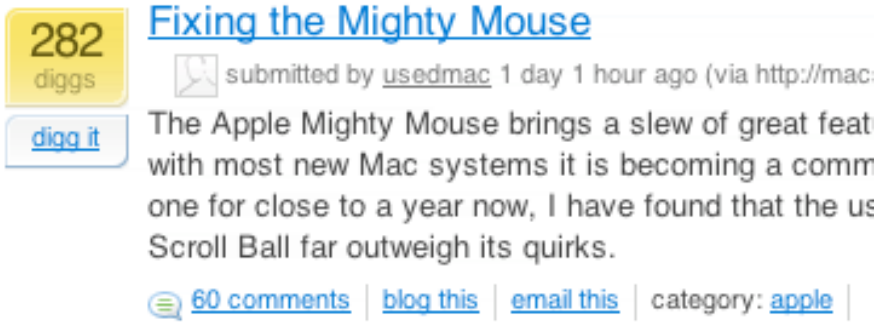
Watch your click weight

Keep actions immediate and light
Count “clicks”





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

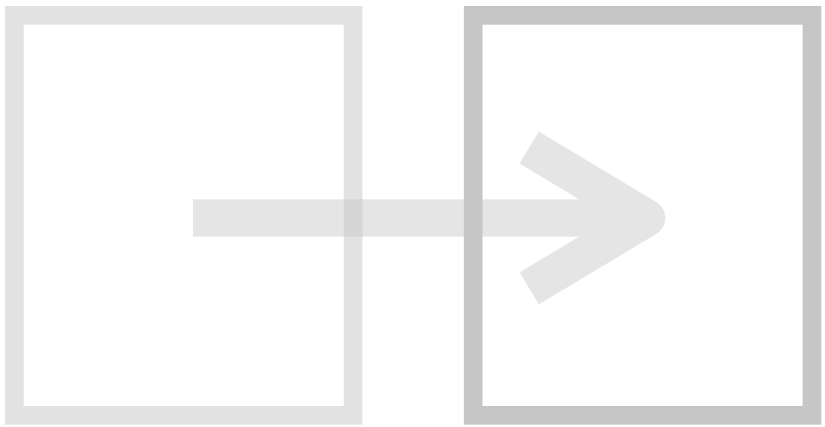
Treat it like an impulse aisle

Use lightweight events

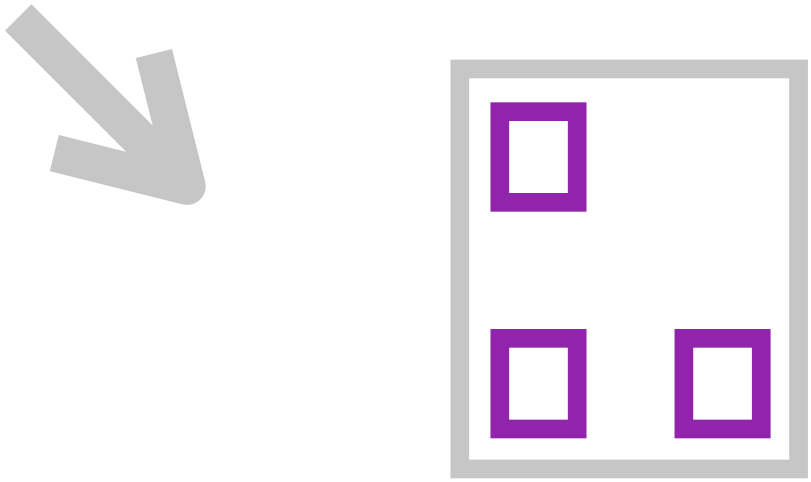
Hover

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

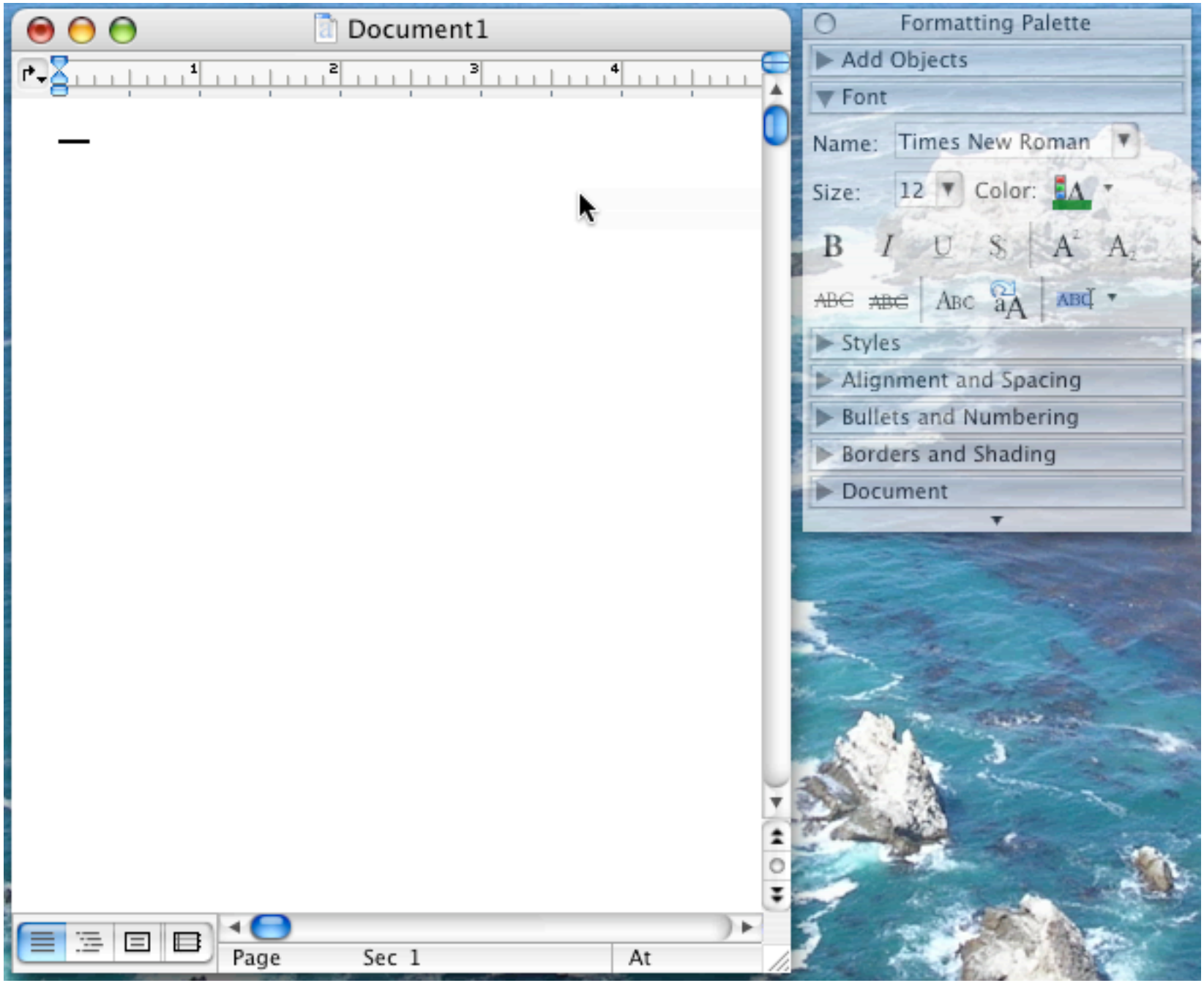
bags

Premium canvas duffle bag
$49.50

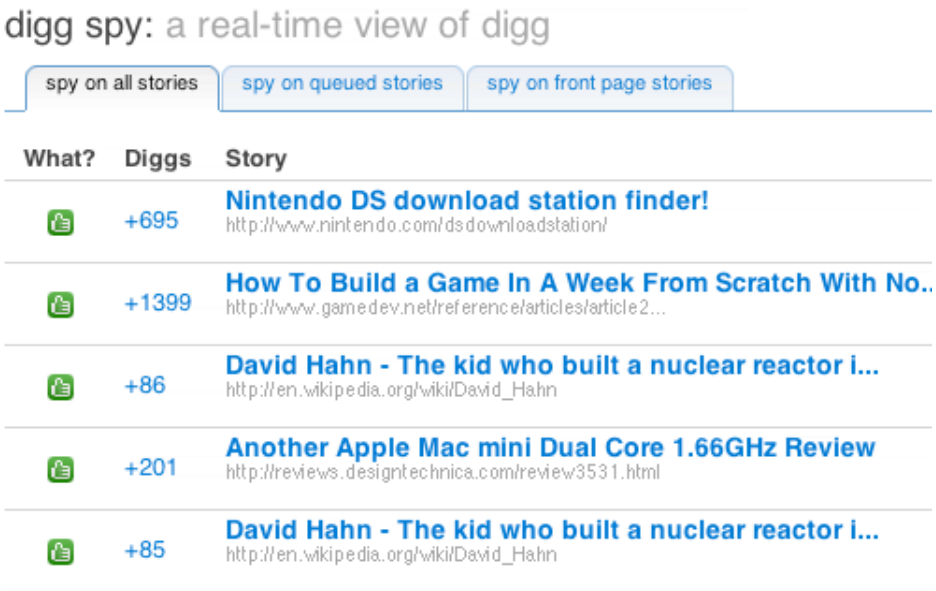
urban nylon sling
$34.50

urban nylon backpack
$29.50

nylon commuter bag
$68.00


Document1
Formatting Palette
Add Objects
Font
Name: Times New Roman
Size: 12
Color:
Styles
Alignment and Spacing
Bullets and Numbering
Borders and Shading
Document
Page
Sec 1
At

Visitors to your blog
Today
1480
740
Feb
9080 visitors came to your blog
That's 313 fewer than an average 30 day period.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+86
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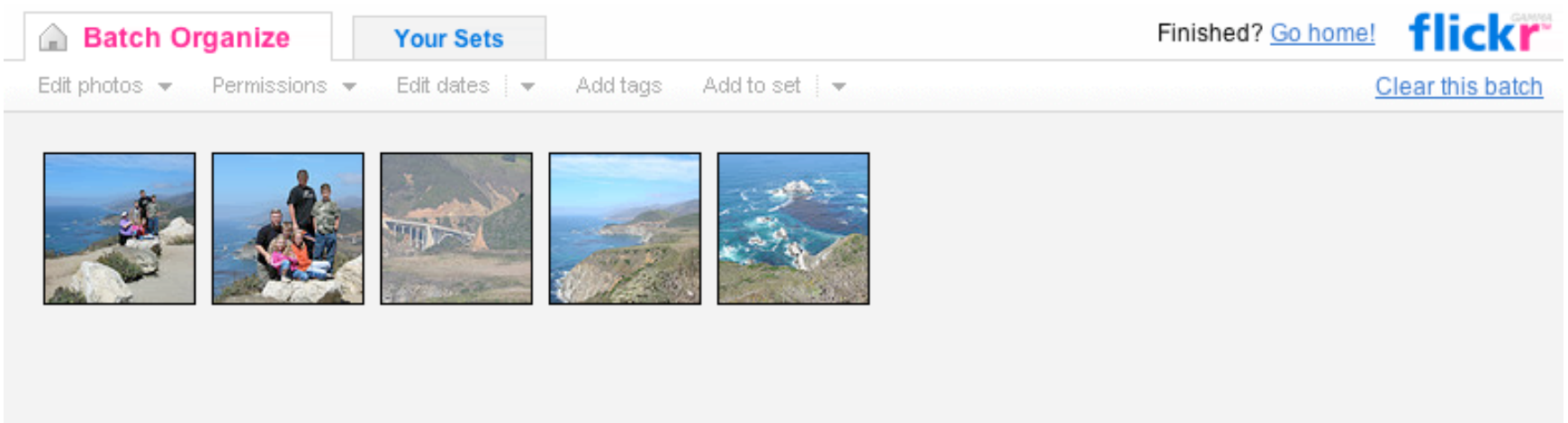
http://en.wikipedia.org/wiki/David_Hahn
+201
Another Apple Mac mini Dual Core 1.66GHz Review
http://reviews.designtechnica.com/review3531.html
+85
David Hahn - The kid who built a nuclear reactor i...
http://en.wikipedia.org/wiki/David_Hahn


Batch Organize
Your Sets
Finished? Go home!
flickr
Edit photos
Permissions
Edit dates
Add tags
Add to set
Clear this batch

Lists

- [ ] Remove this item
- [ ] And this one too

Edit [ ] adding a new item

Add item or I'm done adding items

Fantasy Games Archive Privacy Settings

All Sports | Baseball | Basketball | Football | Auto Racing | Golf | Hockey

All Fantasy Games

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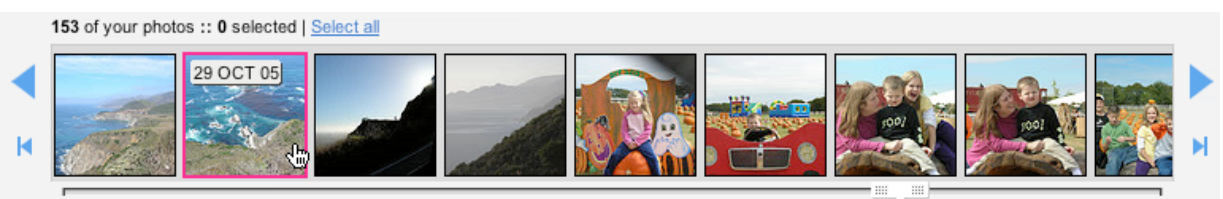
- **Starter Web Page**
  Publish basic information on a placeholder web page — until you're ready to upgrade to a full web site.
  View a sample.

- **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.



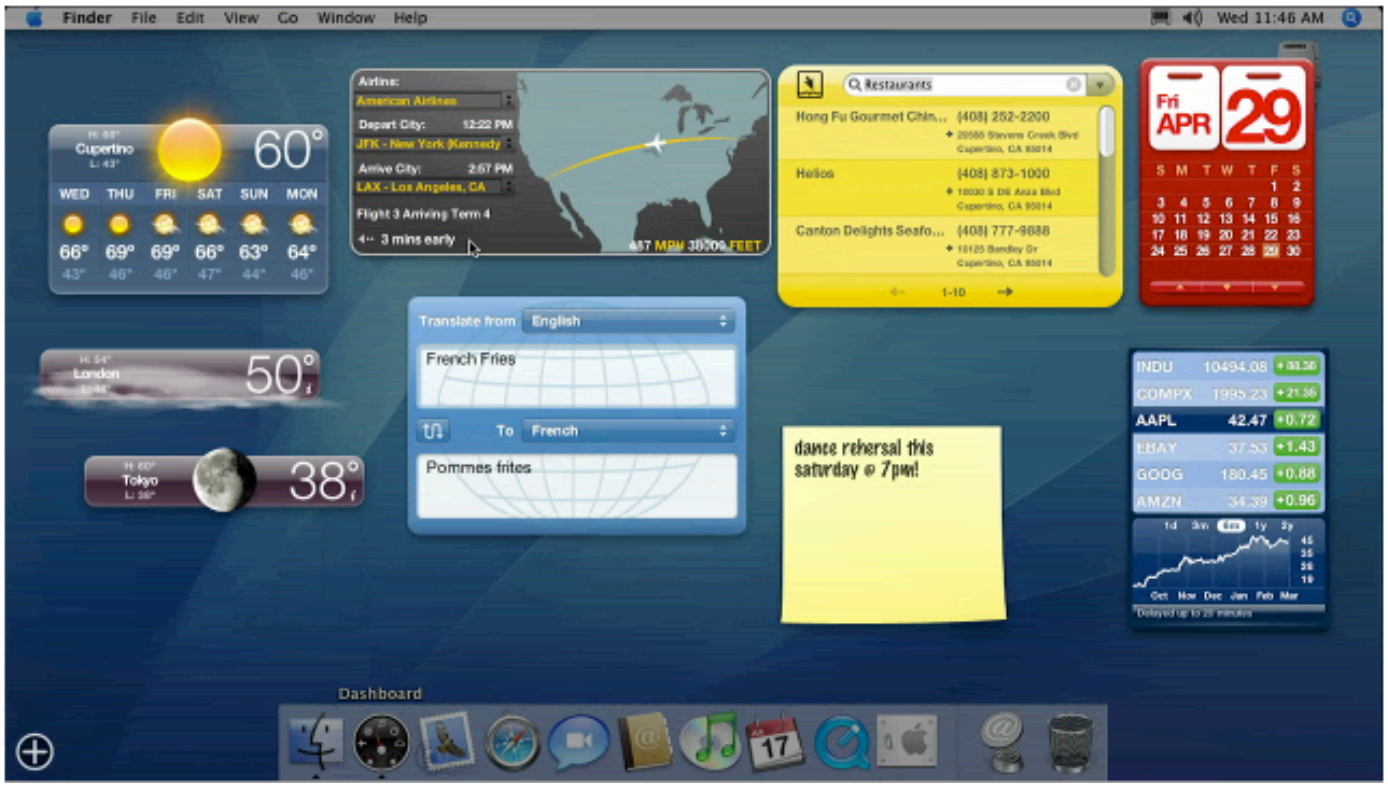
- **Brighten.** Raise importance
- **Cross Fade.** One leaves, another enters
- **Dim.** Lower importance
- **Expand.** Open in context of others
- **Fade In.** Good for adds
- **Fade Out.** Good for deletes
- **Flip.** Edit configuration
- **Animate.** Change relationship, tweening
- **Self-Healing.** 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

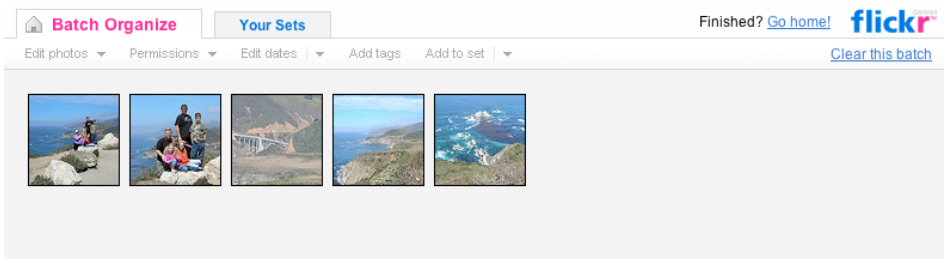
Sending the wrong message

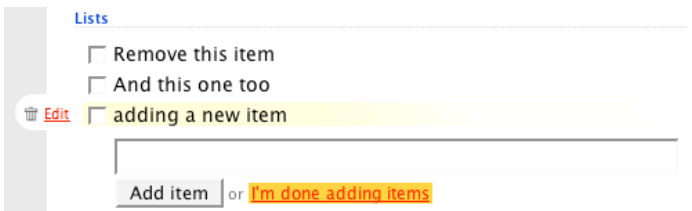


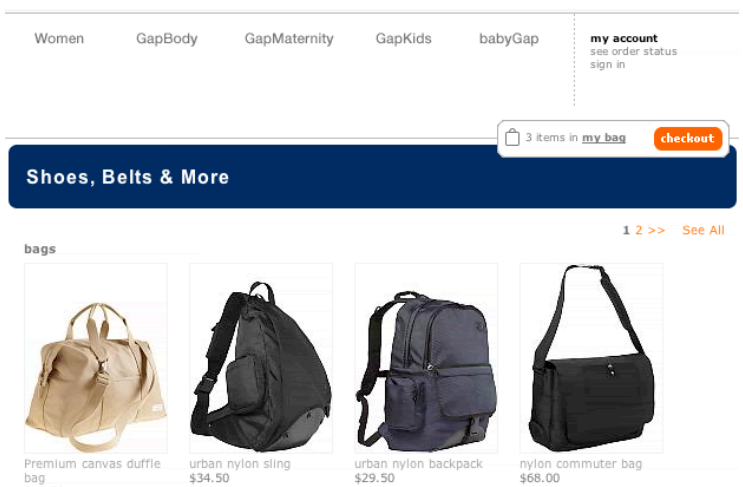
Speak to the BRAIN

Understanding attention processing

Sending the wrong message







What you can communicate

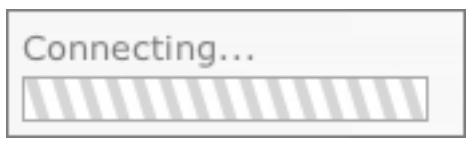
Speed up time

Slow down time

Show state change

Show relationships between objects

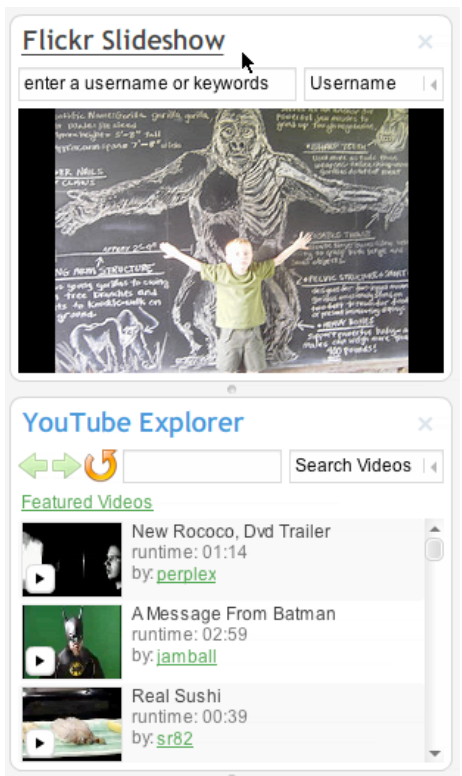
Focus attention



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

Focus attention

Keep it sane

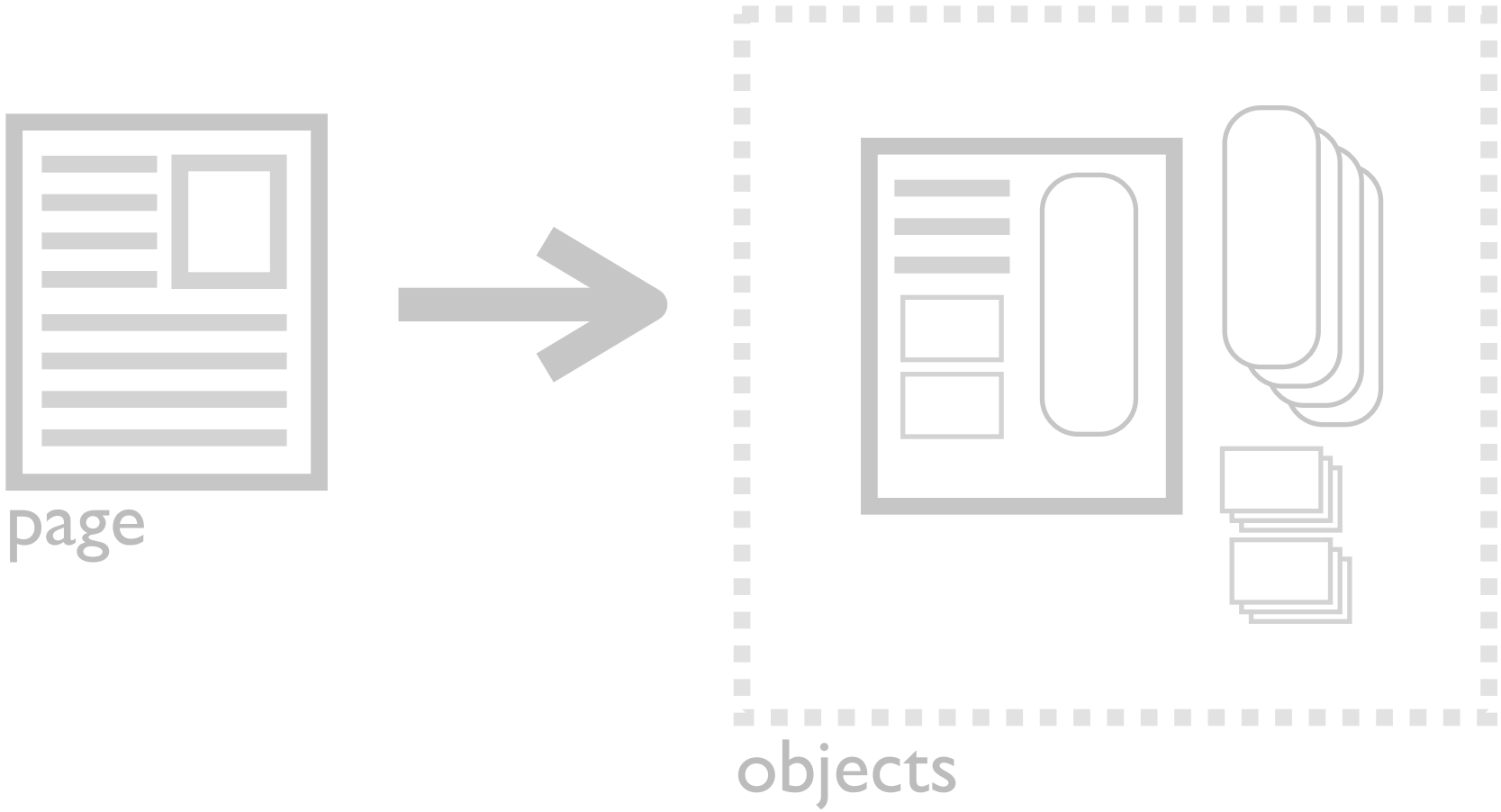
"Cut in half" rule of thumb

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

Shift. **Page to 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
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by pilak_shah
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6 Parks in 8 d ...
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Yosemite
by whiskeywom ...
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Cali Baby!
by ibily78
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Rich Internet Object.
Available. Selected.
Identifiable Object.

Rethinking the model

What is the user's mental model?

How to distinguish from content?

Rethinking the model

What is the user's mental model?

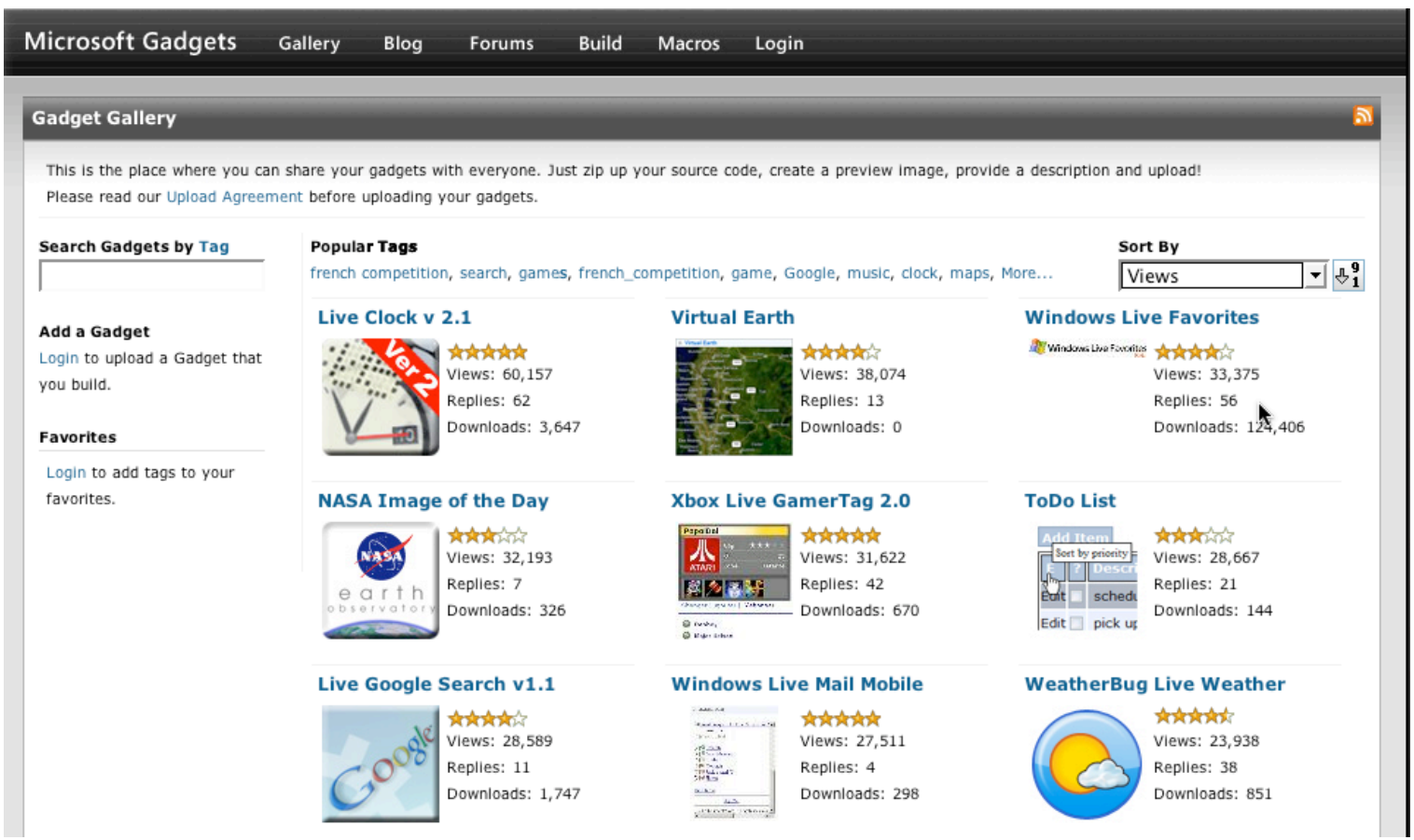
How to distinguish from content?

The power of sharing

Bloggable, shareable, findable

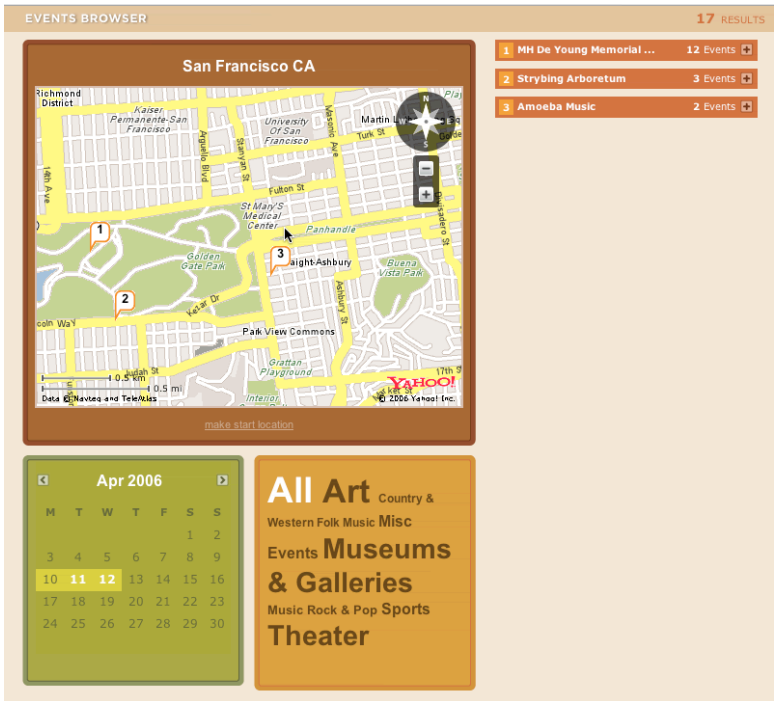
How to dial-in community

Collections



Rethinking the model

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



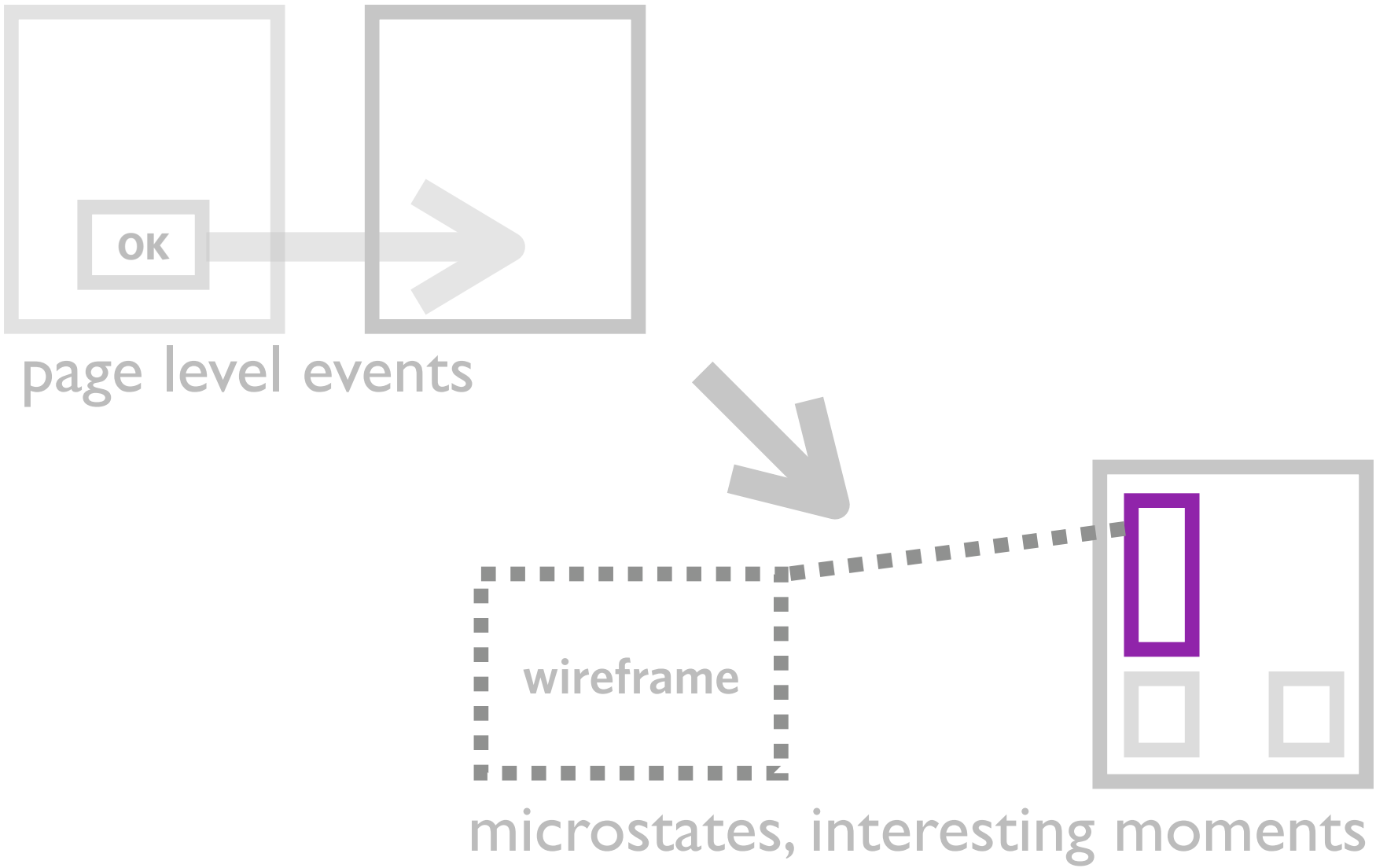
Web 2.0 as a platform

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.


OK
page level events
wireframe
microstates, interesting moments

Tell a story

Wireframing Ajax is a [expletive]... We have to determine all of the things a user might do, and wireframe the blessed moments of each possibility."

- Jeffrey Zeldman, Web 3.0

Time

Detail

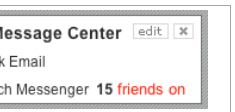
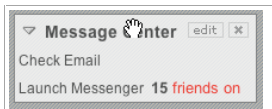
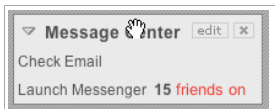
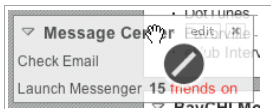
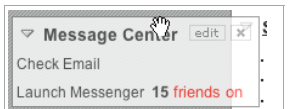
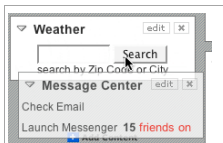
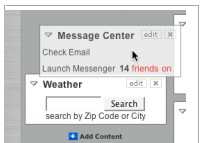
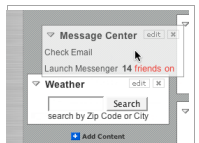
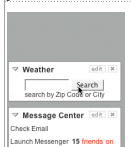
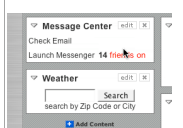
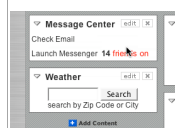
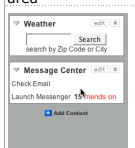
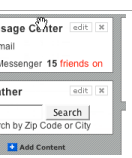
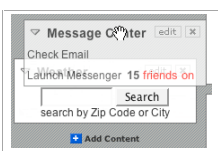
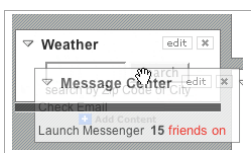
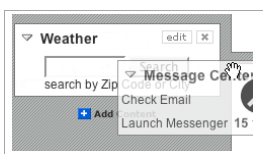
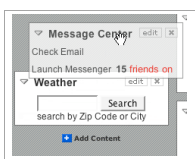
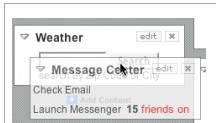
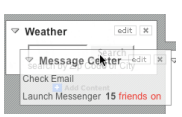
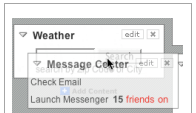
Context

- Documentation has centered around layout, priority and behavior of content and functional items
  - Interactions typically defined as discrete states (pages)
  - Multiple page flow diagrams are now a single page with rich interactions
- Storyboarding provides a way to capture design flow

Drag & Drop Interesting Moments Grid

	Page Generation	Mouse Hover	Drag Initiated	Drag over Valid	Drag over Invalid	Drag over Original	Drop Accepted	Drop Rejected	Drop on Original
Page Content	Hint	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Cursor	Normal	Move Cursor	Move Cursor	Move Cursor	Move Cursor	Move Cursor	Normal	Normal	Normal
Drag Object	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
Orig Location	Normal	Normal	Hole Opens	Hole Remains	Hole Remains	Hole Remains	Hole Remains	Hole refilled with drag object	Hole refilled with drag object
Drop Target	Normal	Normal	Normal	Insertion Bar	N/A	N/A	1. Insertion Bar Removed	N/A	N/A

Drag and Drop Modules - Interesting Moments Grid

on beta.my.yahoo.com	ID:	Bill Scott & Eric Miraglia			Date:	Nov-05	
Mouse Down	Drag Initiated	Drag Over Valid Target	Drag Over Invalid Target	Drag Over Parent Container	Drop Accepted	Drop Rejected	Drop On Parent Container
ove cursor	CSS Move cursor	CSS Move cursor	CSS Move cursor	CSS Move cursor	Normal Cursor	Normal Cursor	Normal Cursor
							
acity	Reduced Opacity	Reduced Opacity	Reduced Opacity & Invalid Badge	Reduced Opacity	Modules animates into the area just below insertion bar	Modules animates back to the home area	Modules animates back to the home area
							
					Module comes to rest in new area	Module comes back to rest at full opacity	Modules comes back to rest at full opacity
							
					Modules slide up in a self-healing transition to close hole		
							
ertion bar, just a gap	No insertion bar, just a gap	Insertion bar showing where it will drop	No insertion bar, just a gap	No insertion bar, just a gap & original hole	Insertion bar is removed as first frame of animation	Insertion bar is removed as first frame of animation	Insertion bar is removed as first frame of animation

adaptive path

Participant Interface Notes

Title: Register page

Date: 18 July 2005

Version: 1.0

Functional Notes:

The registration page allows users to signup for Participate simply by entering a user name and a valid email address.

1. Provide the user with some notification of what the email a friend action is worth in Participant points to encourage follow-through and introduce non-registered users in the Incentive program.
2. On click, commit the user's entered email addresses and message, send to target addresses, and link user to a confirmation page
3. For users who have invited friends over email, provide reporting on # invited and # accepted. Hide actual names by default, but allow users to view them by clicking the "view" link

a. When user completes name entry and clicks to email entry, compare the entered name to previously claimed names on the site. If the name is a match, generate alternates that can be clicked on to fill the entry field.

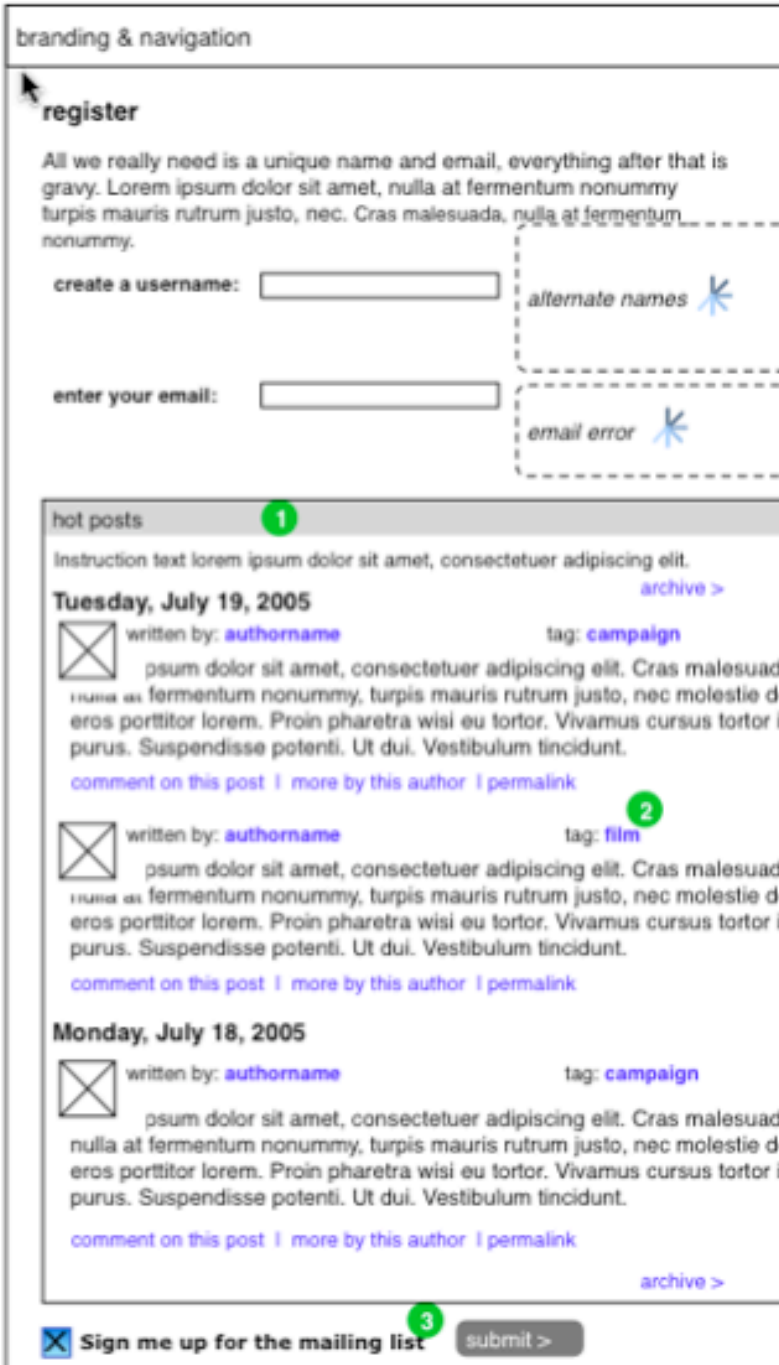
The name ryan_c is unavailable.
How about:
ryan_c_01
iam_ryanc
ryan_c_isme

User makes selection or inputs new name that is valid & available:

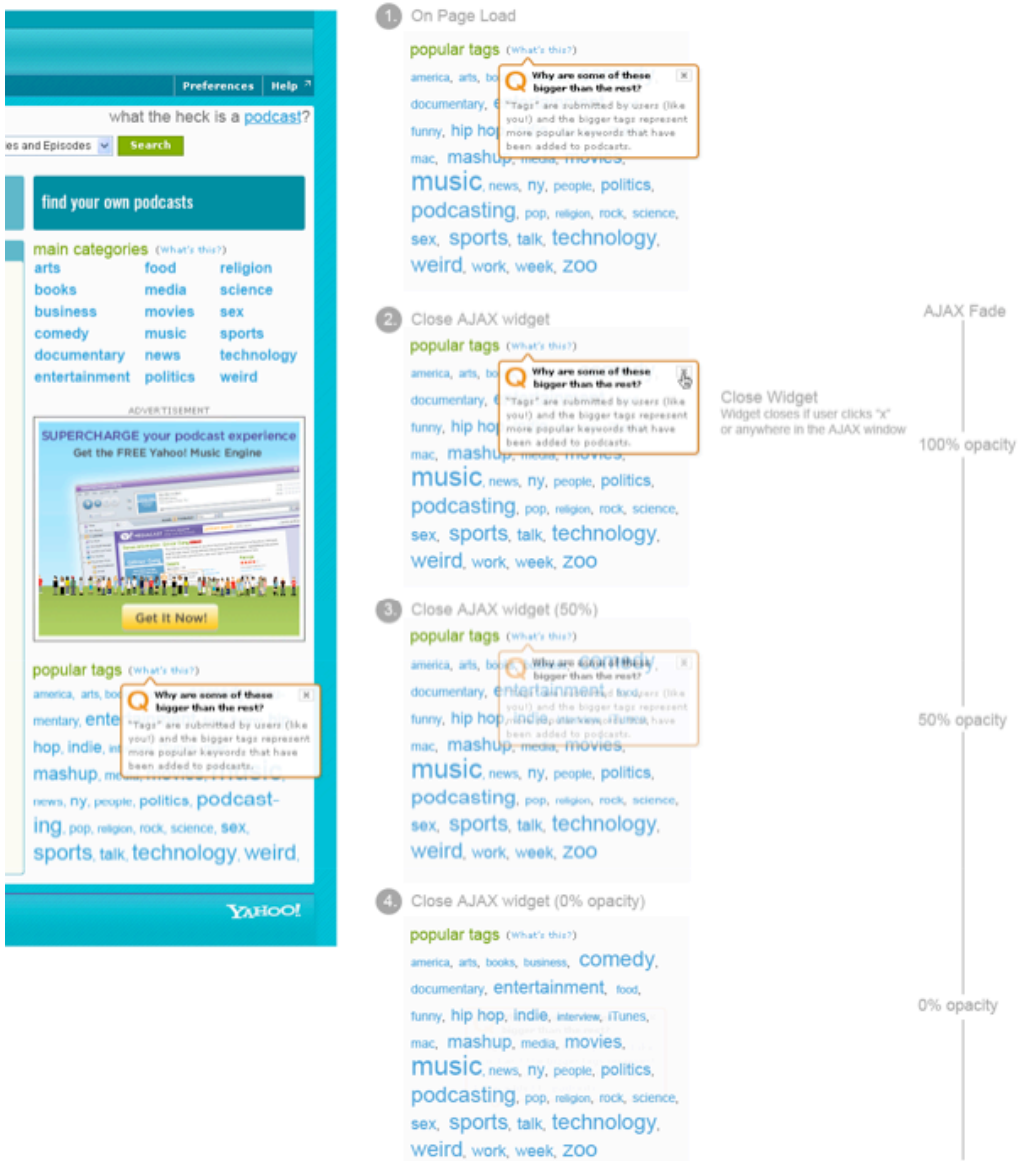
That name works. Thanks!

b. Is it possible to treat the "submit" button click as a call to validate the form of the user's entered email? If there are any formating errors, alert the user and prevent the page from loading the confirmation.

The address you entered isn't formatted properly.

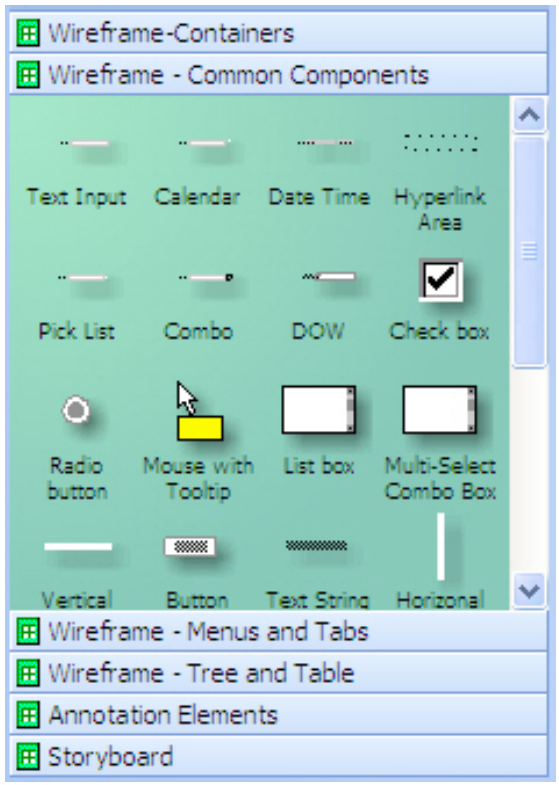


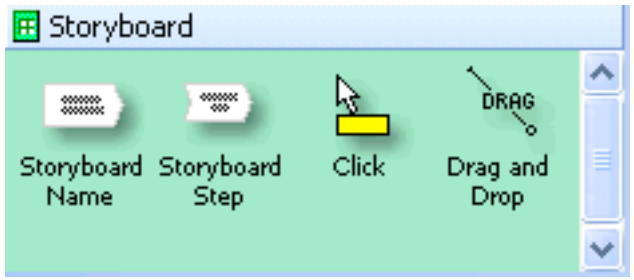
- Show frames in wireframe context



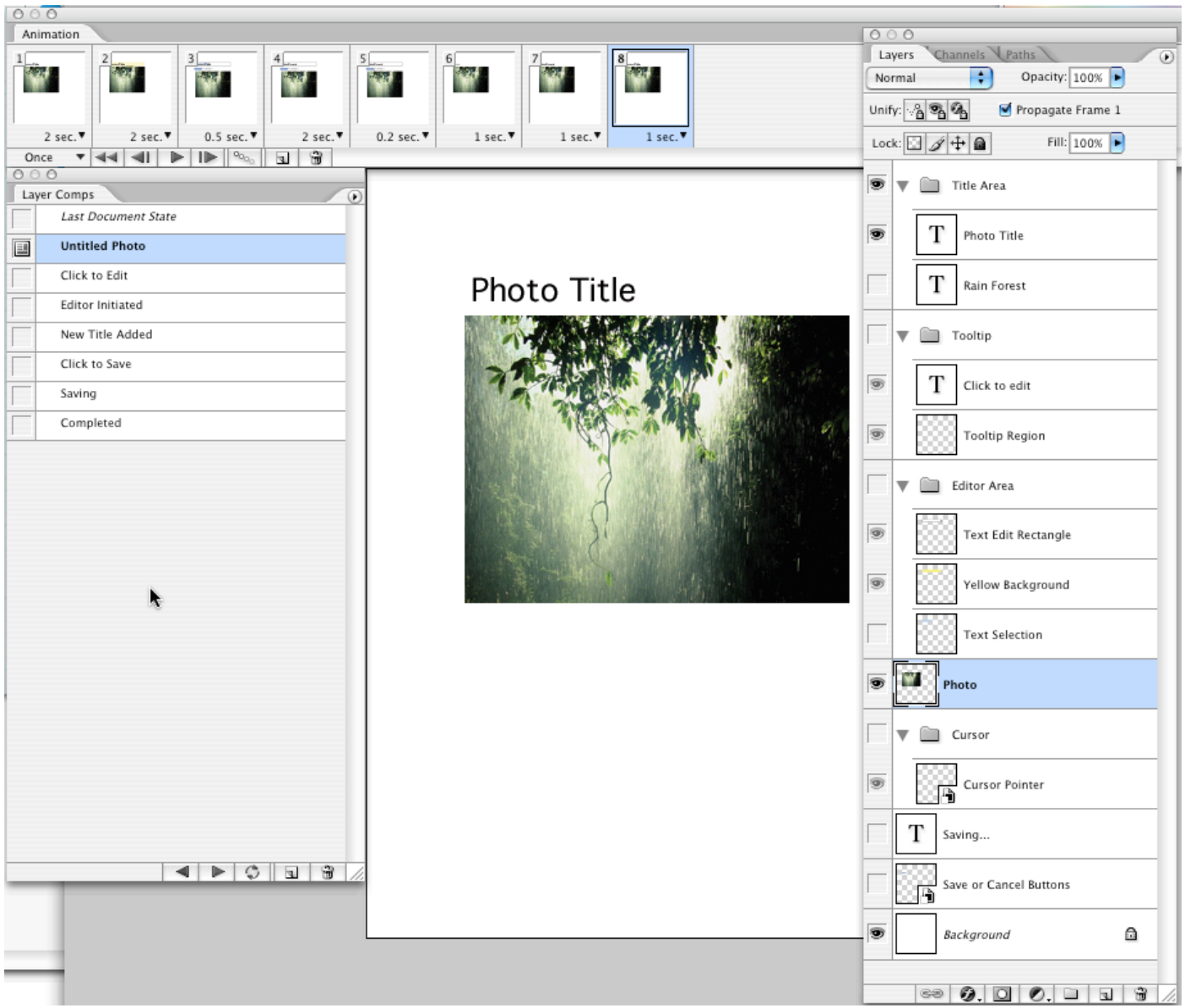
- Callout patterns in a legend
- It allows patterns to document interaction

Interactive Wireframes in Visio





Photoshop Animation



Yahoo News RSS: Los Gatos

- Smith living a dream (The Wichita Eagle) - 3 hours ago
- Smith eager to start earning his money (Monterey County Herald) - 9 hours ago
- Won't you be his neighbor? (San Jose Mercury News) - 9 hours ago

Reuters Technology

- Nokia picks Kallasvuo to succeed Olila as CEO - 7 hours ago
- Ford to factory-install Sirius radio in some cars - 7 hours ago
- China emerging as chip design center -iSuppli - 11 hours ago

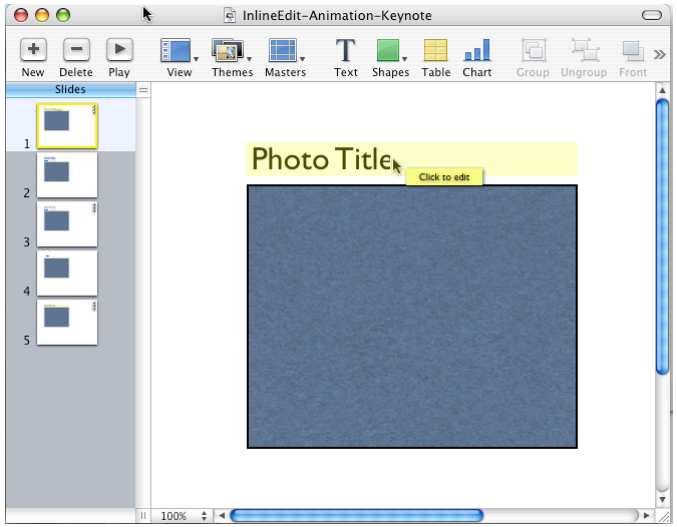
Apple Insider RSS

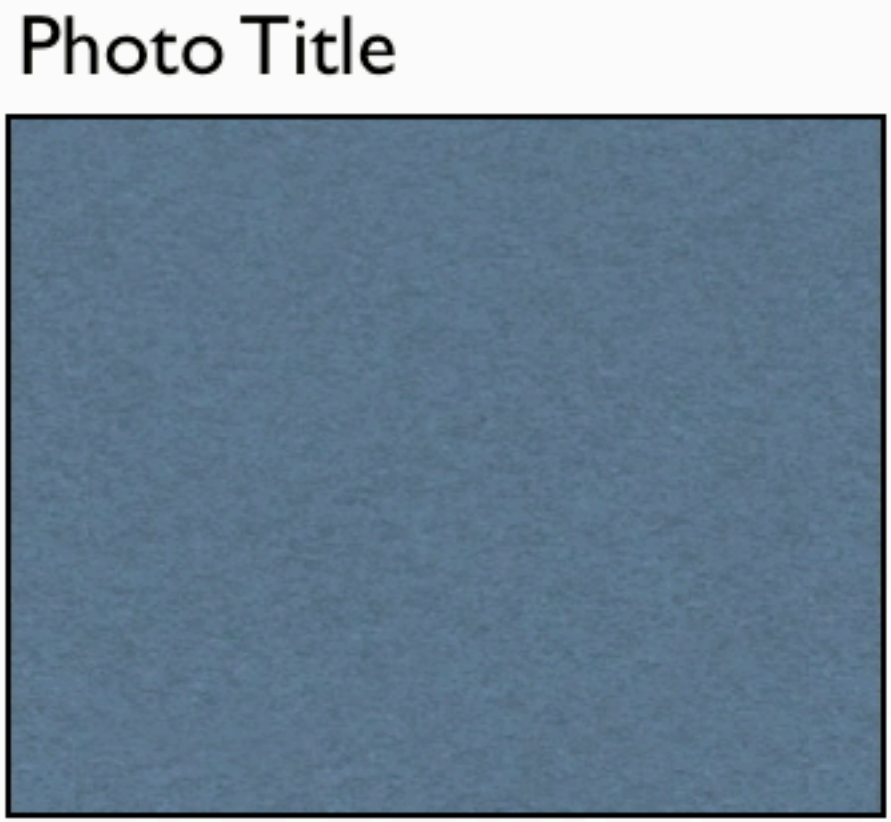
- Apple to host media event in Tokyo - 15 hours ago
- iPod chip supplier hints at upcoming plans - 21 hours ago
- Apple unveils faster iBooks - 1 day ago

Connection Manager

The Connection Utility is a wrapper around asynchronous and synchronous http requests made via the XMLHTTPRequest object. The utility provides browser abstraction, object pooling, error handling, status indication, and callback functionality, enabling rapid prototyping and construction of user interactions involving asynchronous transactions between client and server.

Keynote/Powerpoint Interactive Slides





Time

Interactive Wireframes, Animations

Detail

Storyboard Grid

Context

Storyboards, Wireframes + Key Frames

- Photoshop CS2 animations
  http://looksgoodworkswell.blogspot.com/2005/11/animating-interactions-with-photoshop.html
- Boxes and arrows article
  http://www.boxesandarrows.com/view/storyboarding_rich_internet_applications_with_visio
- Interesting Moments Grid
  http://looksgoodworkswell.blogspot.com/2005/11/interaction-matrix.html
- Interesting Moments
  http://looksgoodworkswell.blogspot.com/2005/12/storyboarding-interesting-moments.html