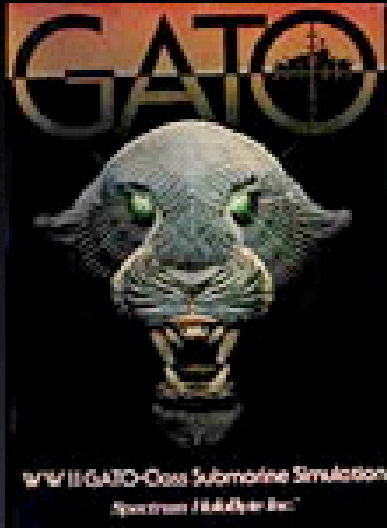


designing for ajax

Bill Scott
Yahoo! Ajax Evangelist
b.scott@yahoo.com



background.



Rico

JavaScript for Rich Internet Applications

Home Features Demos Documentation Downloads About

An open-source JavaScript library for creating rich internet applications. Rico provides full Ajax support, drag and drop management and a cinematic effects library.

BACKGROUND

Rico is a Spanish word meaning *rich*. The goal of Rico is to provide a rich experience for web sites using Ajax technology.

Rico is just one small part of a larger effort at Sabre Airline Solutions to create a suite of rich internet components, behaviors and effects for the web application space.

The library is a fully object-oriented JavaScript library. Recently we refactored the library to extend the excellent [prototype.js](#) effort from the Ruby on Rails folks.

OPEN SOURCE

Rico is provided free and open-source ([Apache 2.0 License](#)) for either your personal or commercial use. [Sabre Airline Solutions](#) retains the copyright on the Rico code produced at Sabre.

BROWSER SUPPORT

Rico has been tested on IE 5.5, IE 6, Firefox 1.0x/Win, Camino/Mac, Firefox 1.0x/Mac. Currently there is no Safari or Mac IE 5.2 support. Support will be provided in a near future release for Safari.

AJAX SUPPORT

Ajax is the term that describes a set of web development techniques for creating interactive web applications. One of the key ingredients is the JavaScript object XMLHttpRequest. Rico provides a very simple interface for registering Ajax request handlers as well as HTML elements or JavaScript objects as Ajax response objects. Multiple elements and/or objects may be updated as the result of one Ajax request.

Want to get started learning? Check out our [demos](#) and then read our two Ajax tutorials on the [Documentation page](#).

DRAW AND DROP

Desktop applications have long used drag and drop in their interfaces to simplify user interaction. Rico provides one of the simplest interfaces for enabling your web application to support drag and drop. Just register any HTML element or JavaScript object as a draggable and any other HTML element or JavaScript object as a drop zone and Rico handles the rest.

CINEMATIC EFFECTS

When actions are no longer occurring just at the page level but within the page itself, more clues are required to clue the user on what has transpired. Cinematic effects such as scaling and smooth sliding transitions can communicate change in richer ways than traditional web applications have explored before. Rico provides several cinematic effects as well as some simple visual style effects in a very simple interface.

BEHAVIORS

Take some raw HTML and sprinkle in some behaviors and what do you get? Well in Rico you can get an [accordion](#) component like those found in Macromedia Flex and Lasso. Just nest some DIVs and with one line of JavaScript turn your div panels into an accordion. And the latest behavior is the LiveGrid. LiveGrid allows you to connect an HTML table up to a stream of Ajax responses. Ajax requests are automatically called during table scrolling. The result is now HTML tables can hold an unlimited amount of data scrolled into view on the fly as needed! More behaviors are planned!

NEW! LiveGrid Behavior!

Check out the Alternative to Paging!

Developer Network Home Help

Site Search Search

YAHOO! DEVELOPER NETWORK

Design Pattern Library

Yahoo! Developer Network > Design Pattern Library

USER NEEDS TO

- NAVIGATE
 - Breadcrumbs
 - Faceted Navigation
 - Fly-out Menus
 - Horizontal Bar
 - Hub and Spoke
 - Left Navigation
- Module Tabs
- Navigation Tabs

EXPLORE DATA

- Auto Complete
- Calendar Picker

Pagination

- Item Pagination
- Search Pagination

ORGANIZE DATA

- GIVE FEEDBACK
 - Ratings & Reviews
 - Architecture Review
 - Rating an Object
 - Writing a Review

PERFORM ACTION

- CUSTOMIZE
 - Drag and Drop
 - Drag and Drop Modules
 - Drag and Drop Objects
 - In Page Editing
 - Sliders

APPLICATION NEEDS TO

- CALL ATTENTION
- IMPROVE READABILITY
 - Ratings & Reviews
 - Review Architecture
- GROUP RELATED ITEMS
- ORGANIZE SCREEN/PAGE

Welcome

Welcome to the Yahoo! Design Pattern Library. We are very happy to be sharing our library with the design and development community. This is our first drop of what we hope to be a monthly release cycle for the publication of patterns. In many cases we have bundled the patterns with pointers to related code from the [Yahoo! User Interface Code Library](#). We hope this is a useful resource and look forward to your [feedback](#).

What's a Pattern?

A pattern describes an optimal solution to a common problem within a specific context. [more...](#)

Recent Patterns

Auto-Complete

The user needs to enter an item into a text box which could be ambiguous or hard to remember and therefore has the potential to be mis-typed.

Breadcrumbs

User needs to navigate potentially large quantities of information efficiently, without becoming lost.

Drag and Drop Modules

The user needs to re-arrange the layout of modules on a web page directly with the mouse.

Object Pagination

The user needs to view data items from a potentially large set of sorted data that will not be easy to display within a single page.

Navigation Tabs

The user needs to navigate through a site to locate content and features and have clear indication of their current location in the site.

Results Page:

The user needs to view a set of search results ranked by relevance that is too large to easily display within a single page.

Rating an Object

A user wants to quickly leave their opinion on an object, with minimal interruption to any other task flow they are involved in.

Writing a Review

User wants to share her opinion (with others about an object (place, person, thing)) in greater detail than a simple rating.

developer.yahoo.com/ypatterns

Design Pattern Library

USER NEEDS TO

- NAVIGATE**
 - Breadcrumbs
 - Faceted Navigation
 - Fly-out Menus
 - Horizontal Bar
 - Hub and Spoke
 - Left Navigation
- Tabs**
 - Module Tabs
 - Navigation Tabs
- EXPLORE DATA**
 - Auto Complete
 - Calendar Picker
- Pagination**
 - Item Pagination
 - Search Pagination
- ORGANIZE DATA**
- GIVE FEEDBACK**
 - Ratings & Reviews
 - Architecture Review
 - Rating an Object
 - Writing a Review
- PERFORM ACTION**
- CUSTOMIZE**
 - Drag and Drop
 - Drag and Drop Modules
 - Drag and Drop Objects
- APPLICATION NEEDS TO**
 - CALL ATTENTION
 - IMPROVE READABILITY
 - Ratings & Reviews
 - Review Architecture
 - GROUP RELATED ITEMS
 - ORGANIZE SCREEN/PAGE

Welcome

Welcome to the Yahoo! Design Pattern Library with the design and development patterns that we hope to be a monthly release. We have bundled the patterns with the [Code Library](#). We hope this helps you.

What's a Pattern?

A pattern describes an optimal solution to a common problem.

Recent Patterns

- Auto-Complete
- Module Tabs
- Navigation Tabs
- Search Pagination

Problem Summary

User wants to leave an opinion or evaluation. Quick opinions can be captured using Reviews.

Solution Patterns

- Architecture of a Review
- Rating an Object
- Writing a Review

Rating An Object

Problem Summary

A user wants to quickly leave their opinion on an object, with minimal interruption to any other task flow they are involved in.

EXAMPLE:

Restaurant

Alma St
Menlo Park, CA 94025

Cross Street:
Between Alma Ln and Ravenswood Ave

Average Rating (7)
Read 7 reviews

Write a Review

QUICK JUMP

- [Solution](#)
- [Rationale](#)
- [Accessibility](#)

RELATED PATTERNS

- [Ratings and Reviews](#)
- [Architecture of a Review](#)
- [Writing a Review](#)

AS USED ON YAHOO!

- [Yahoo! Local](#)
- [Yahoo! Shopping](#)
- [Yahoo! Custom Autos](#)
- [Yahoo! Movies](#)

BLOG

- [Blog Article](#)

Use When

- A user wants to leave an opinion quickly.
- Use in combination with reviews for richer experience.
- Use to quickly tap into the existing "community" of a product.
- Ratings are collected together to present an average rating of an object from the collective user set.

Solution

- Show clickable items (most often used are stars) that light up on rollover to infer clickability.





surfacing a vocabulary.



current 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.

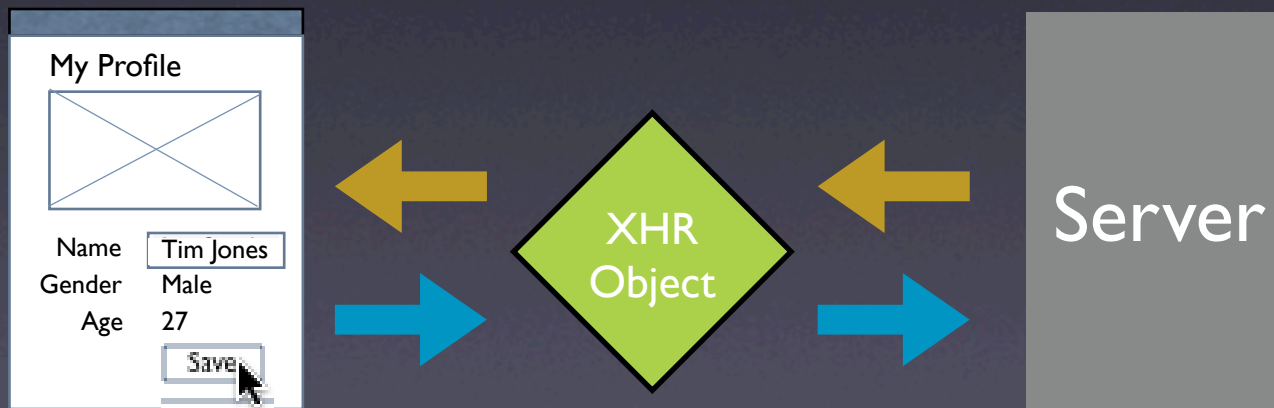
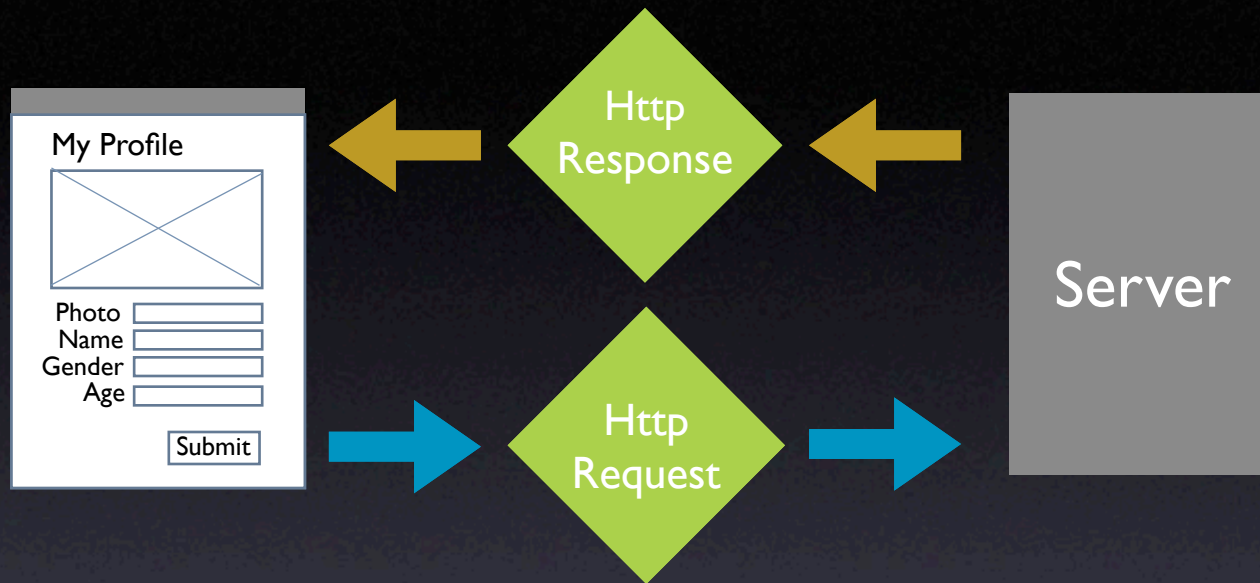


rich patterns.

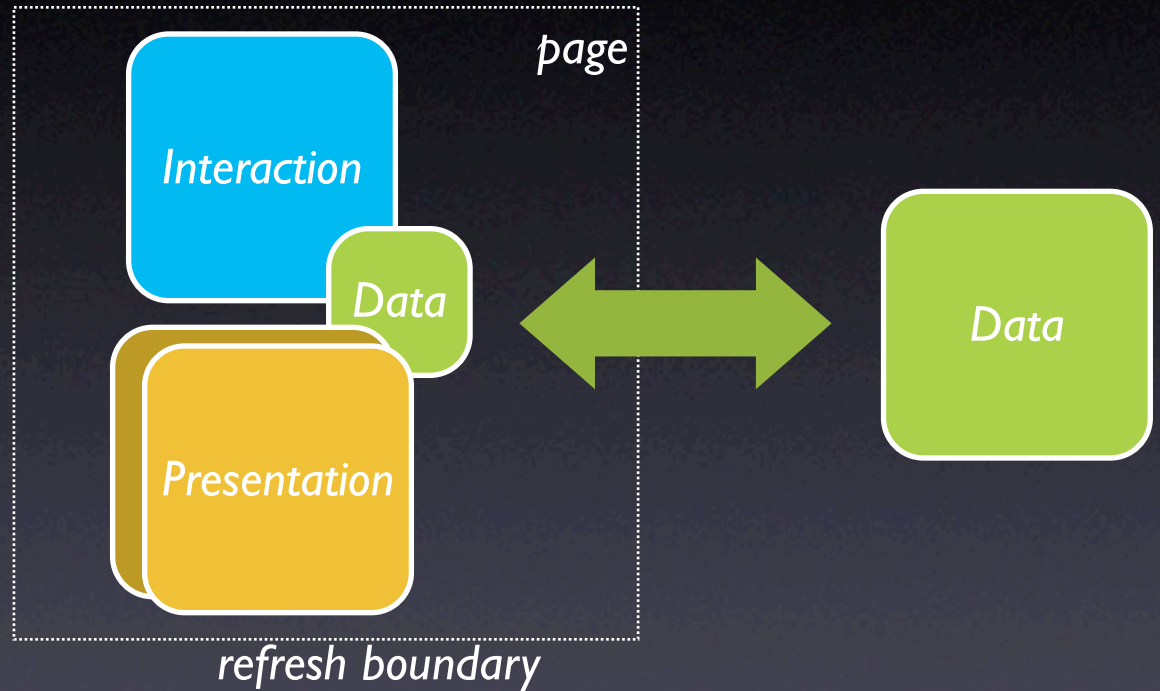
Drag and Drop. Drag and Drop Modules. In Page Editing. In Page Custom Editing. Direct State Editing. Grid Cell Editing. Inline Custom Editing. Inline Tag Editing. Popup Custom Editing. Slide-out Custom Editing. Inline Text Editing. Persistent Portals. Inline Reordering. Indication. Busy Indication. Cursor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



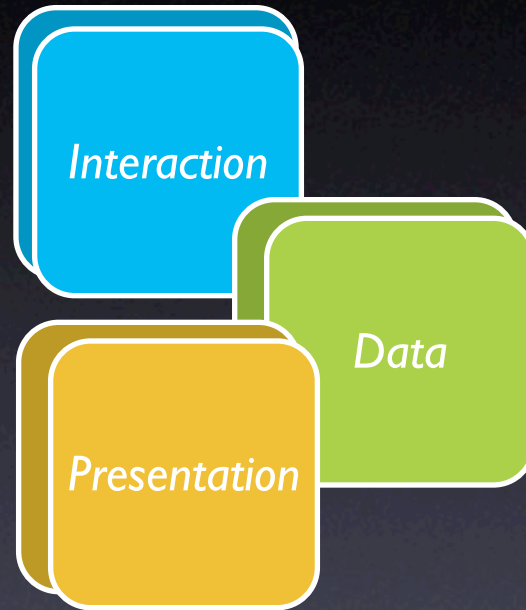
classic model. rich model.



interaction. presentation. data.



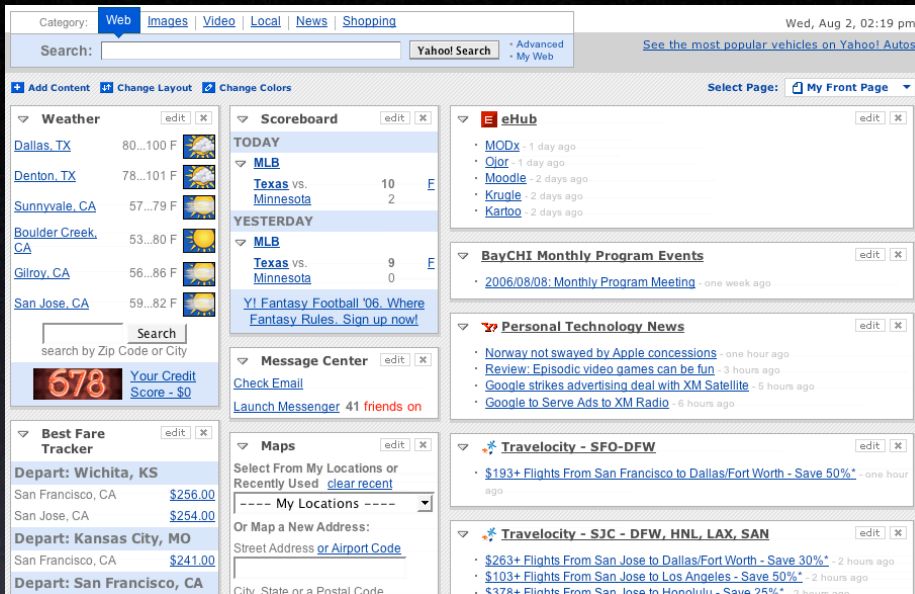
data near. interaction rich.



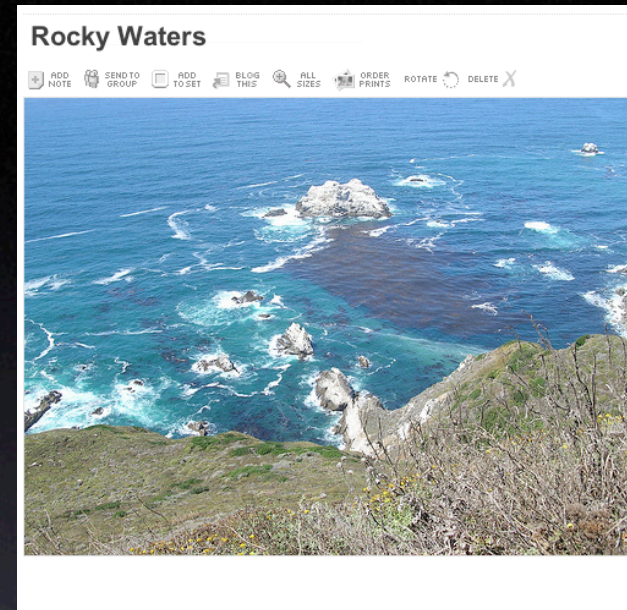
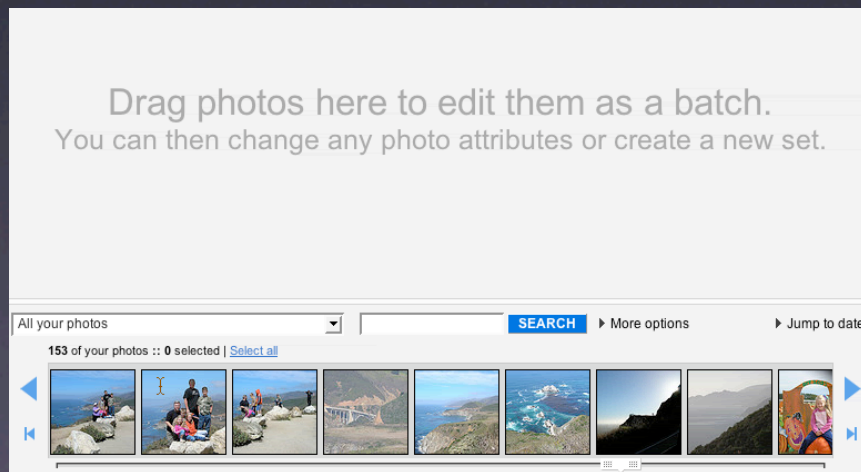
design principles



principle. make it direct.



pattern. drag and drop.



pattern. inline editing.



pattern. in-context tools.



make it direct

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.



make it direct

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

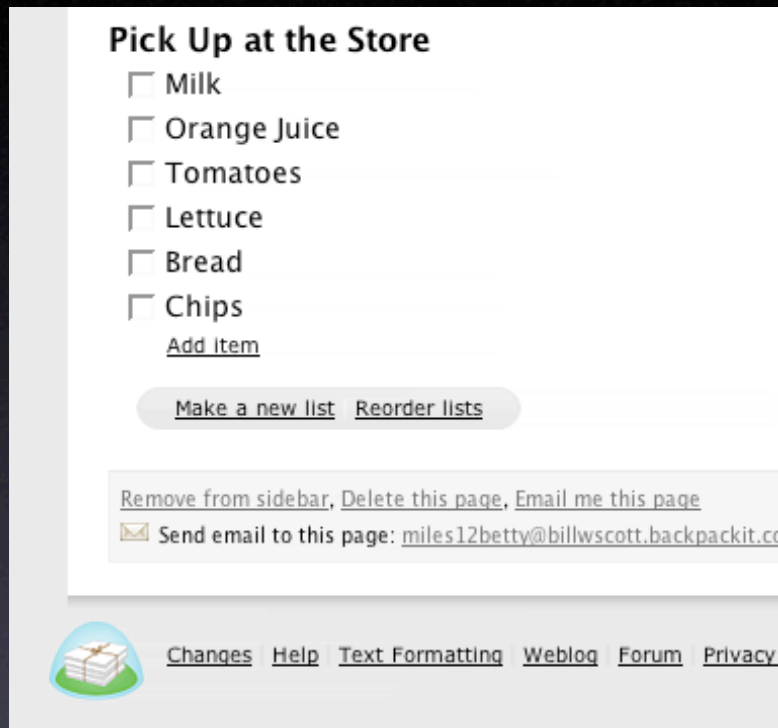
CANCEL



make it direct

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



☐ 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

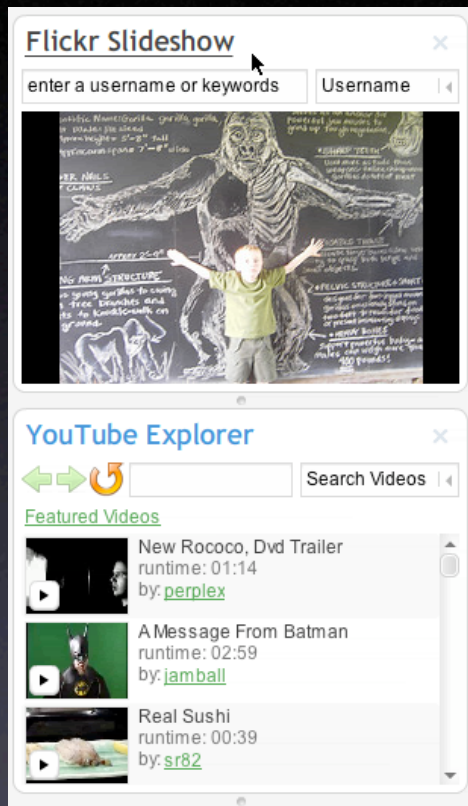
Can actually slow you down



make it direct

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

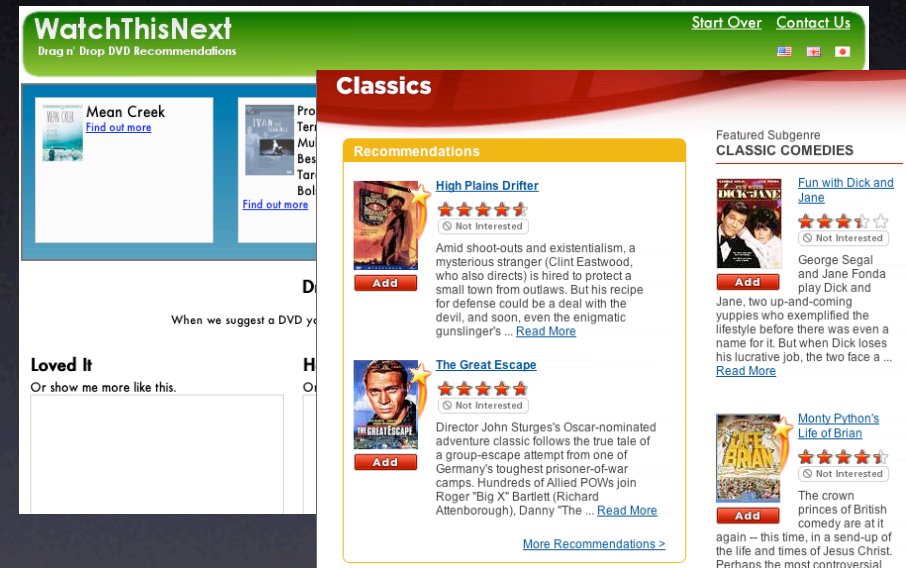
- What is spam?
- Can I transfer my message credits?
- How do I delete my HandyPay account?
- What if I didn't receive my full message package?
- I need to contact customer care regarding the Compose Text Message service.

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









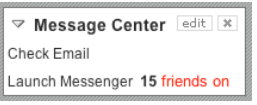
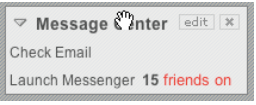
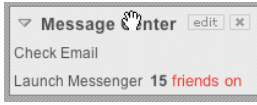
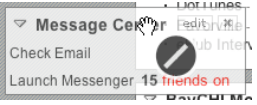
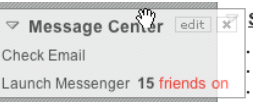
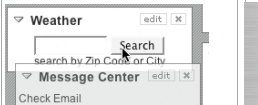
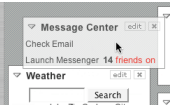
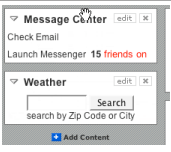
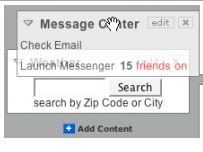
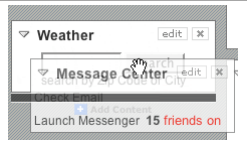
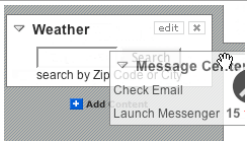
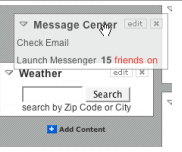
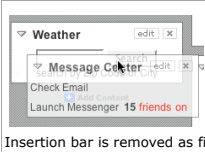
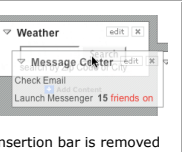
Only good for single operations

Can actually slow you down



make it direct

Take care of the interesting moments

| Drag and Drop Modules - Interesting Moments Grid | | | | | | | | |
|--|---|---|--|---|---|---|---|---|
| Currently on beta.my.yahoo.com | | | ID: Bill Scott & Eric Miraglia | | | Date: Nov-05 | | |
| | Mouse Hover | Mouse Down | Drag Initiated | Drag Over Valid Target | Drag Over Invalid Target | Drag Over Parent Container | Drop Accepted | Drop Rejected |
| Cursor |  |  |  |  |  |  |  |  |
| Tool Tip | CSS Move cursor | CSS Move cursor | CSS Move cursor | CSS Move cursor | CSS Move cursor | CSS Move cursor | Normal Cursor | Normal Cursor |
| Drag Object |  |  |  |  |  |  |  | |
| | Full Opacity | Reduced Opacity | Reduced Opacity | Reduced Opacity & Invalid Badge | Reduced Opacity | Reduced Opacity | Modules animates into the area just below insertion bar | Modules animates back to the home area |
| Drop Target |  |  |  |  |  |  |  | |
| | No insertion 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 frame of animation | Insertion bar is removed as first frame of animation | Insertion bar is removed as first frame of animation | |



principle. keep a light footprint.

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: 1 | royal grape **\$29.50 \$9.99** **add to bag**

pattern. remembered collection.

RECOMMEND THIS STORY

Recommend It: ☆☆☆☆☆ Average (63 votes) ★★★★★

pattern. rating an object.

Classics

Recommendations

High Plains Drifter ★★★★★
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](#)

The Great Escape ★★★★★
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](#)

Featured Subgenre
CLASSIC COMEDIES

Fun with Dick and Jane ★★★★★
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](#)

Monty Python's Life of Brian ★★★★★
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

282 diggs [digg it](#)

Fixing the Mighty Mouse

submitted by [usedmac](#) 1 day 1 hour ago (via [http://mac](#))

The Apple Mighty Mouse brings a slew of great feat with most new Mac systems it is becoming a comm one for close to a year now, I have found that the us Scroll Ball far outweigh its quirks.

[60 comments](#) | [blog this](#) | [email this](#) | category: [apple](#)

pattern. in page action.




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

282 diggs

digg it

Fixing the Mighty Mouse

submitted by [usedmac](#) 1 day 1 hour ago (via <http://mac>)

The Apple Mighty Mouse brings a slew of great feat with most new Mac systems it is becoming a comm one for close to a year now, I have found that the us Scroll Ball far outweigh its quirks.

60 comments | [blog this](#) | [email this](#) | category: [apple](#) |

keep a light footprint

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

| | | |
|--|--|--|
| The Critics: B- 14 reviews | My Grade: Rate this Movie! Select grade to the right write a review | A B C D F |
|--|--|--|



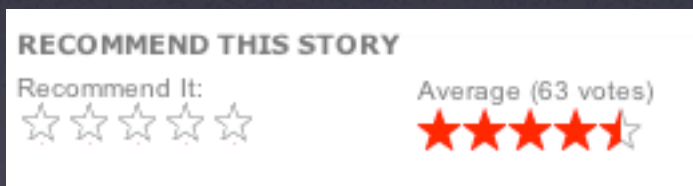
keep a light footprint

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

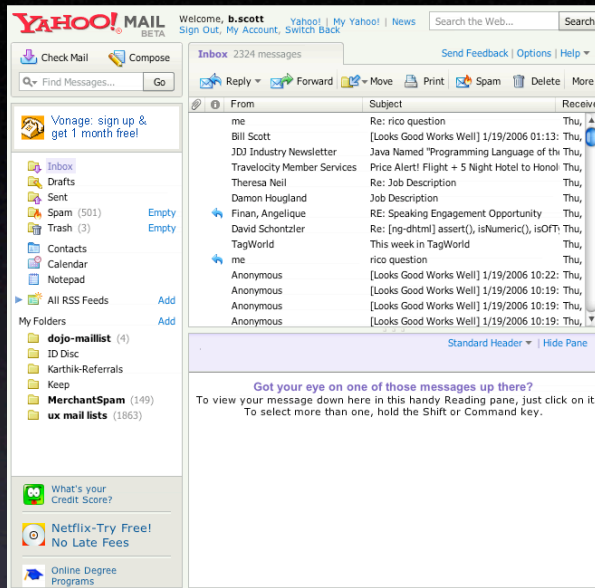


Use lightweight events

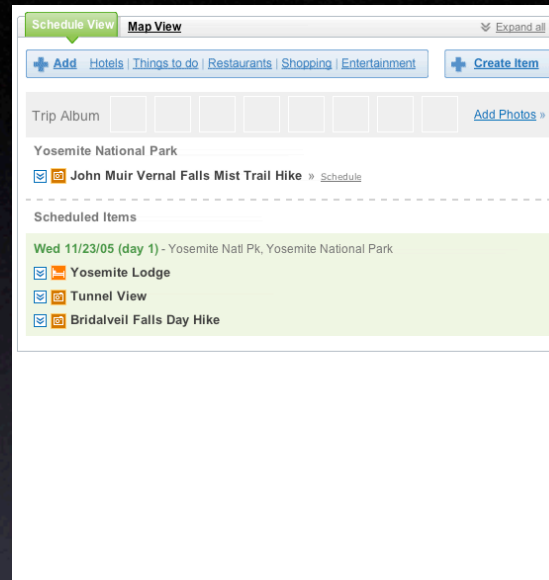
Hover
Blur, focus
Click. Avoid double-click



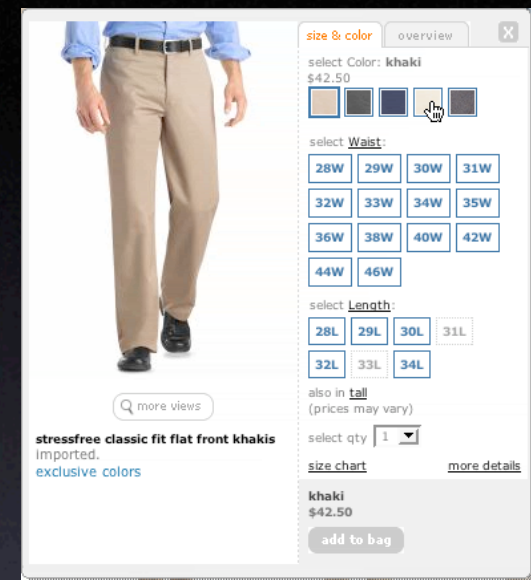
principle. cross borders reluctantly.



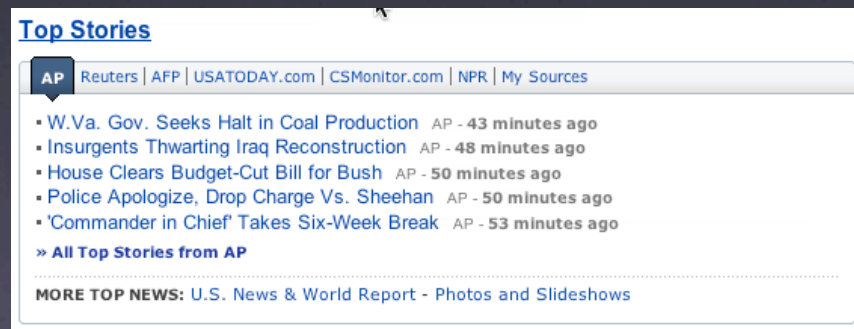
pattern. endless scrolling.



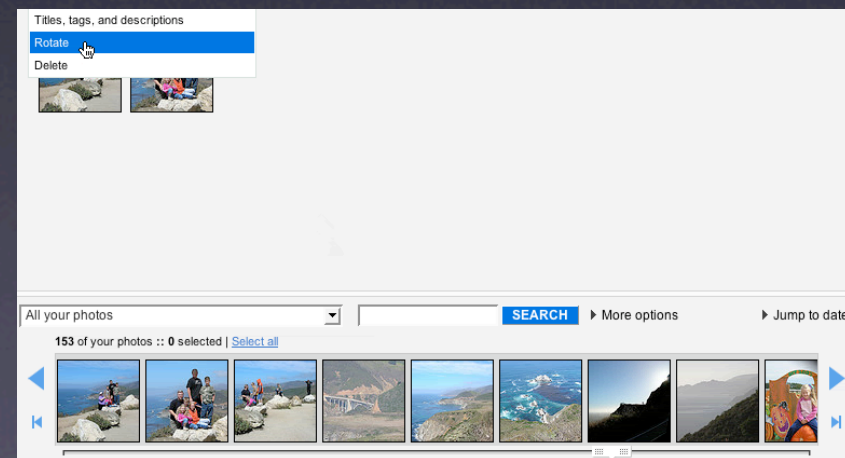
pattern. in-context expand.



pattern. inline assistant.



pattern. hover details.



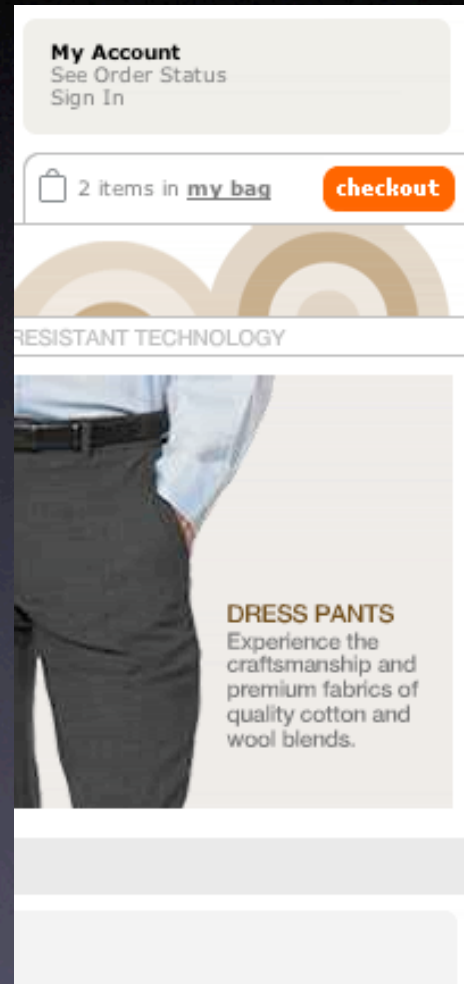
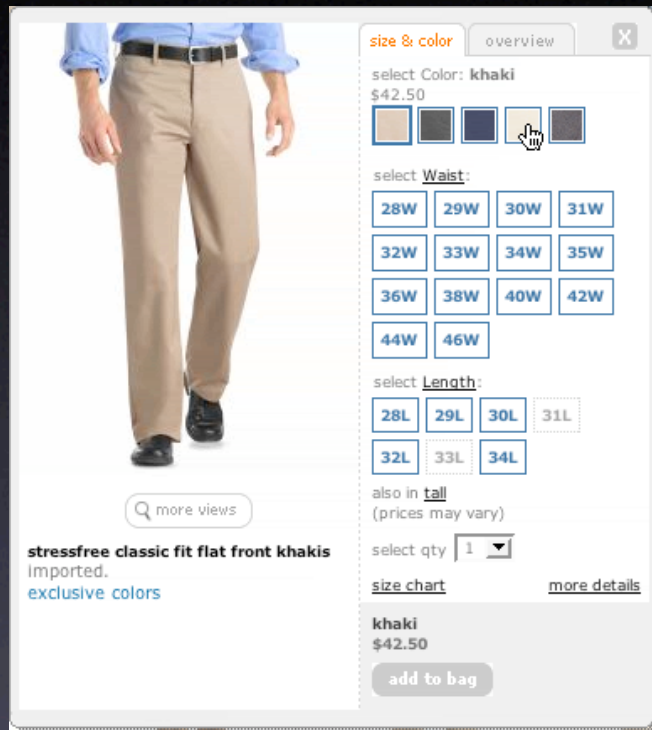
pattern. lightweight popup + lightbox



Rethink process flows

Its the user's model, not the page model

Every page jump is a mental speed bump



cross borders reluctantly

Rethink process flows

Its the user's model, not the page model





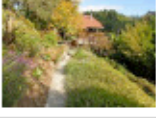
Every page jump is a mental speed bump

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 | | | |

New Search << Pre

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
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



cross borders reluctantly

Rethink process flows

Its the user's model, not the page model

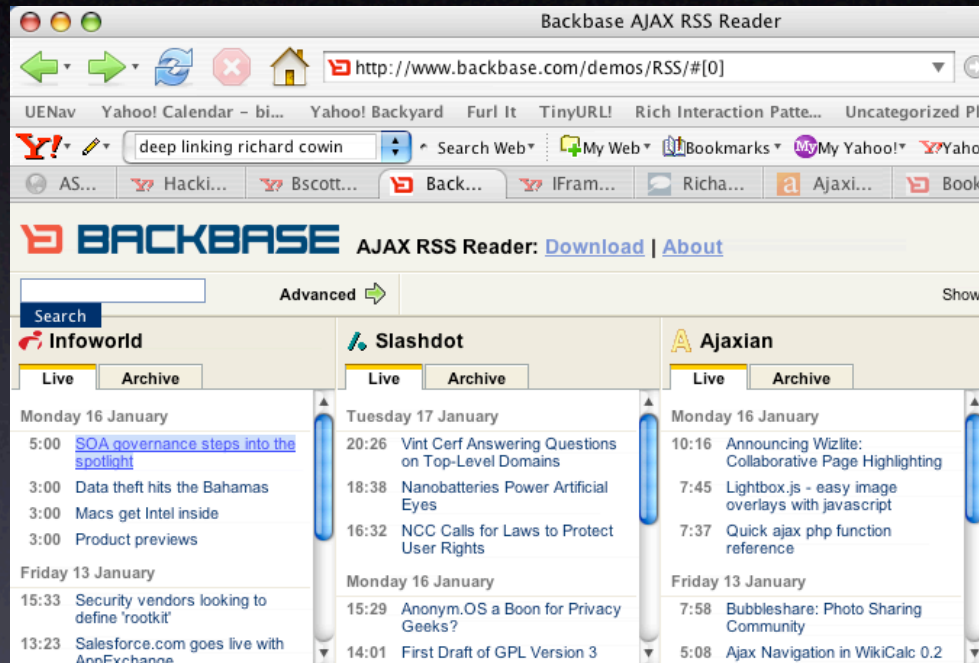
Every page jump is a mental speed bump

Rethink paging

Its the user's model, not the paging model

Use scrolling for "owned" data

Watch out for dual scroll bar issue



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

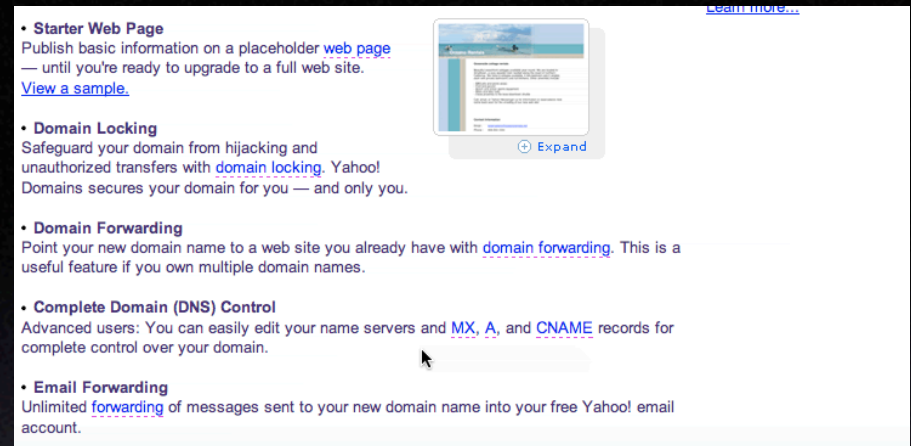
For momentary interruption

Replace page transition

When editing an individual, more complex item

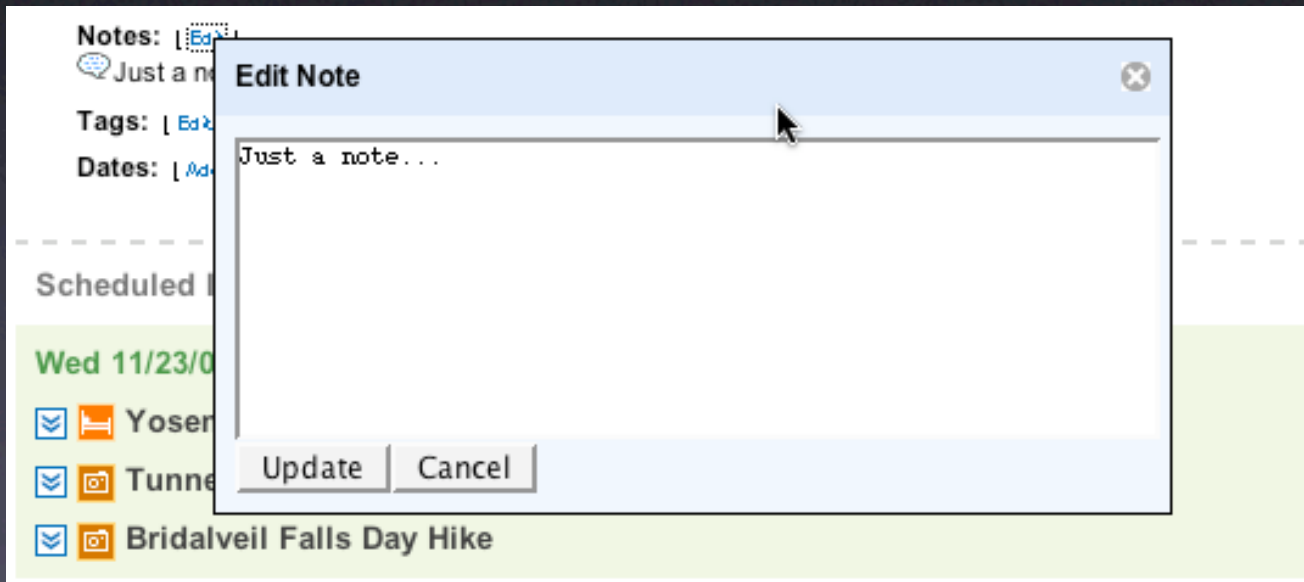
Be symmetrical

Not disturb the page



This screenshot shows a web page for domain management with several sections: Starter Web Page, Domain Locking, Domain Forwarding, Complete Domain (DNS) Control, and Email Forwarding. A small thumbnail image of a website is visible in the top right corner. An 'Expand' button is located below the thumbnail. The page is partially obscured by a light blue overlay window.

- **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.



This screenshot shows a calendar interface with a list of events. An 'Edit Note' dialog box is overlaid on top of the calendar. The dialog box has a title bar with a close button, a text area containing 'Just a note...', and 'Update' and 'Cancel' buttons at the bottom. The calendar events visible in the background include 'Wed 11/23/0', 'Yoser', 'Tunne', and 'Bridalveil Falls Day Hike'.

Notes: [Edit]
Just a note...

Tags: [Edit]
Dates: [Add]

Scheduled

Wed 11/23/0

Yoser

Tunne

Bridalveil Falls Day Hike

Edit Note

Just a note...

Update Cancel

cross borders reluctantly

Use overlays

For momentary interruption

Replace page transition

When editing an individual, more complex item

Be symmetrical

Not disturb the page

Wired News: Top Stories [edit](#) [X](#)

[Christians Code Heavenly Games](#)

[Cloning the Best in Show](#)

[Brain Workouts May Tone Memory](#)

Movies [edit](#) [X](#)

[Showtimes for 76208 »](#)

[Must Love Dogs](#) 1hr 30min - Rated PG-13

Featured | Entertainment | Sports | Money

 **Animal cams gone wild**
Webcams that view pandas in action are perpetually popular, while live eagle cams are taking flight. [» More](#)

[Panda pics](#) [Webcams](#)

• More Yahoo! Buzz Log

 Celebrity spirits haunt Hollywood hot spots

 San Jose Sharks fans should be booed

 The wild world of animal webcams

 Four-day rain swamps New England

[» More Featured](#)

Use in-context expands


For editing part of a collection

Need to see surrounding context

For managing content modules

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](#)


Hi, **b.scott** [Sign Out](#)


[Mail](#) [Messenger](#) [Radio](#)

| From | Subject | Date |
|---------------------|--------------------------|--------------------|
| Bill Scott | test | May 15,2006 |
| Kirk Vorsatz | Contact Info f... | May 15,2006 |
| Nate Koechley | RSVP, Attendi... | May 15,2006 |
| PayPal | PayPal Securi... | May 15,2006 |

[» View All Mail](#)

 **Weather**
59° - 88°

 **Local**

 **Movies**



key principle

*Prefer direct, lightweight,
in-page interaction.*



principle. give live feedback.

Ask Your Question

1. Enter your question
You can ask 5 more questions today.

2. Add details (optional)
No spam, please! When in doubt, please refer to our [community guidelines](#).

You have 110 characters to work with. Add details below.








You have 1000 characters to work with.

pattern. live suggest.

To: | Show BCC

Cc:

Subject: Plain Text

Times New Roman 12 **B** *I* U       

pattern. auto complete.

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  



give live feedback

Keep the goal in mind

Design for immediacy


Is it narrowing or is it distracting

Most Popular

Most Emailed | Most Viewed | Most Recommended | My Sources

- Lonely elephants, ory 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.

Just-in-time data

Students to Enroll

| Crew ID | Last Name | First Name |
|---------|-----------|------------|
| 600922 | Peterson | Shelley |
| 340294 | Craft | Adrian |
| 432339 | Douglas | Elyse |
| 468370 | Hill | Petra |
| 999300 | Barnes | James |
| 344926 | Smith | James |
| 130204 | Hiller | Gordon |

Students to Enroll

| Crew ID | Last Name | First Name |
|---------|-----------|------------|
| 600922 | Peterson | Shelley |
| 340294 | Craft | Adrian |
| 432339 | Douglas | Elyse |
| 468370 | Hill | Petra |
| 999300 | Barnes | James |
| 344926 | Smith | James |
| 130204 | Hiller | Gordon |

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

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

Google Suggest **BETA**

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

The screenshot displays the alltheweb search engine interface. The top left features the 'alltheweb' logo with 'livesearch' below it. A navigation bar includes 'Options', 'Go to...', and 'Help'. The search bar contains the text 'monterrey', and a dropdown menu lists suggestions: 'monterrey mexico', 'monterrey nl mexico', 'arena monterrey', 'tec de monterrey', 'tecnologico de monterrey', 'monterrey nuevo leon', 'monterrey mexico map', 'universidad de monterrey', and 'cablevision monterrey'. Below the suggestions is a 'Refine Search' button. On the right, the search results for 'monterrey' are shown, indicating 'Results 1 - 10 of about 8,620,000'. A 'Did you mean: monterrey' suggestion is provided. The results are divided into 'SPONSOR RESULTS' and 'All About Monterrey'. The sponsored results include links to Expedia.com, Travelocity.com, and Weichert.com. The 'All About Monterrey' section provides a city guide and a link to the Wikipedia page for Monterrey. The bottom of the page shows a 'Tell a Friend' and 'Feedback' button.

alltheweb
livesearch

Options Go to... Help

monterrey

monterrey mexico
monterrey nl mexico
arena monterrey
tec de monterrey
tecnologico de monterrey
monterrey nuevo leon
monterrey mexico map
universidad de monterrey
cablevision monterrey

Refine Search

Tell a Friend Feedback

Results 1 - 10 of about 8,620,000 for **monterrey** (About this page)

Did you mean: [monterrey](#)

SPONSOR RESULTS

[Save on Monterrey Hotels at Expedia.com](#)
www.expedia.com Save up to 50% on Monterrey hotels at Expedia.com, your one-stop...

[Monterrey Vacations with Travelocity](#)
www.travelocity.com Get access to special Monterrey rates when you book your flight and...

[News Results for monterrey](#)
[FC Dallas traveling roster to Monterrey](#) - OurSports Central - Jul 24 6:16 PM
[Yahoo! Shortcut - About](#)

Yahoo!'s: Seeing bad search results or ads for this query? [Report them](#). Bucket test: [NONE](#)

[All About Monterrey](#)

City guide includes information about hotels, restaurants, nightlife, entertainment, maps, and more. ... **Monterrey** is a unique city which is often called the richest city in México. **Monterrey** is also a powerhouse in the business ...
[www.allaboutmonterrey.com](#)

[Monterrey - Wikipedia, the free encyclopedia](#)

Monterrey is the capital city of the northeastern Mexican state of Nuevo León and the municipal seat of the municipality of the same name. ... The divided highway **Monterrey-Saltito-Matehuala-Mexico City** is the main land ... Nuevo Laredo-Mexico City, **Monterrey-Tampico**, and **Monterrey-Pacific (Mazatlán)**. Passenger trains ...
Quick Links: [Geography](#) - [Government, Transportation, and Public Safety](#) - [Industry and business](#)
[en.wikipedia.org/wiki/Monterrey](#)

[International Conference on Financing for Development-2003-main](#)



give live feedback

Keep the goal in mind

Design for immediacy

Is it narrowing or is it distracting

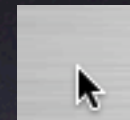
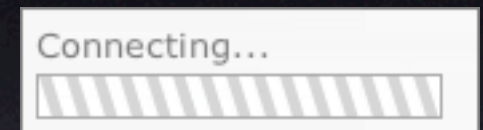
Use feedback to boost confidence

Let the user iterate where possible

Keep the user engaged

Time passes faster

Look for engaging moments



give live feedback

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. wldgetdesigns.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:
Minimum of 6 characters in length.

[Password strength:](#) Too short

Use live-previews

Look before you leap



give live feedback

Keep the goal in mind

Design for immediacy

Is it narrowing or is it distracting

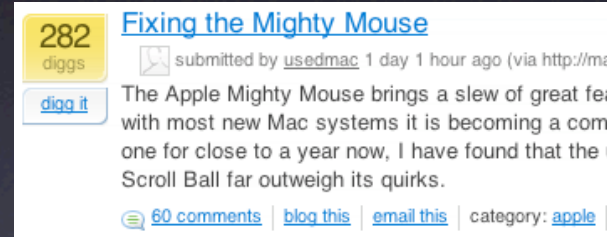
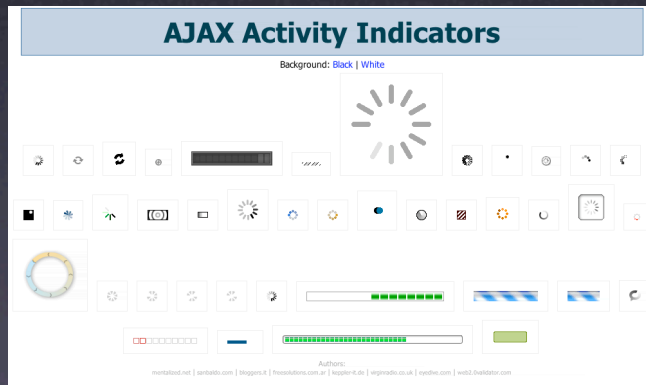
Use feedback to boost confidence

Let the user iterate where possible

Keep the user engaged

Time passes faster

Look for engaging moments



Keep feedback focused

Keep it in context

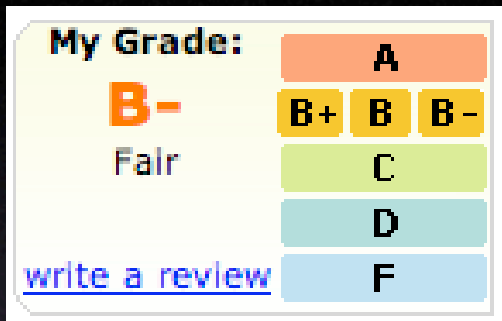
Updating too many areas at once will be confusing

Show dynamically what is relevant

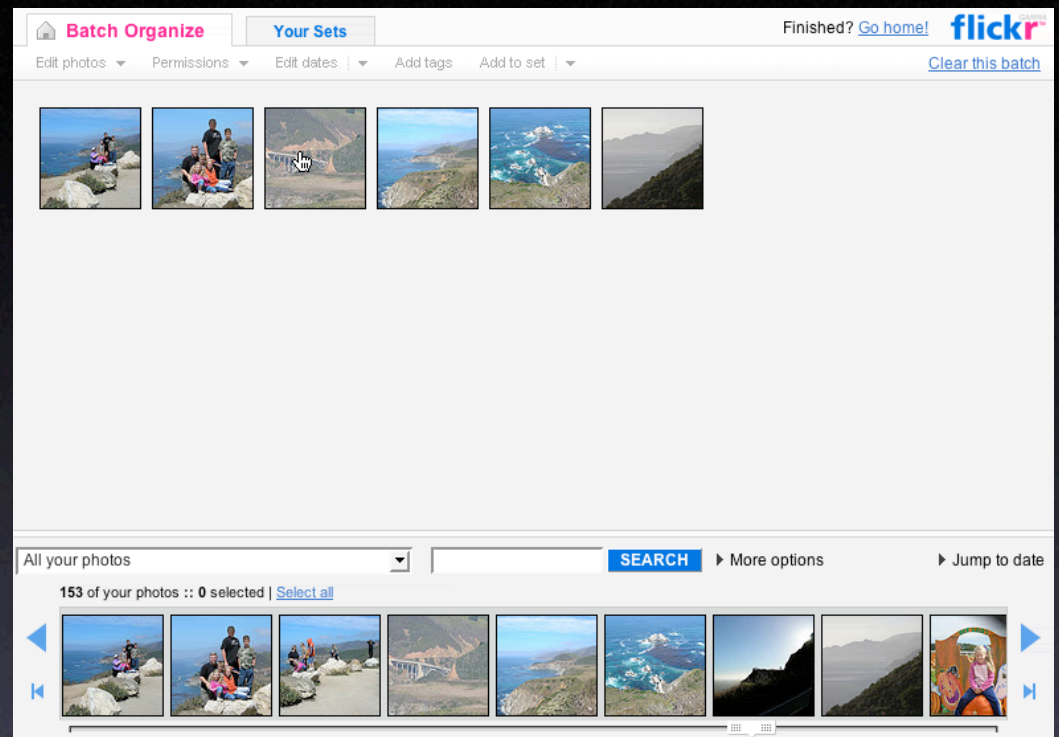
Avoid creating feedback noise/jitter



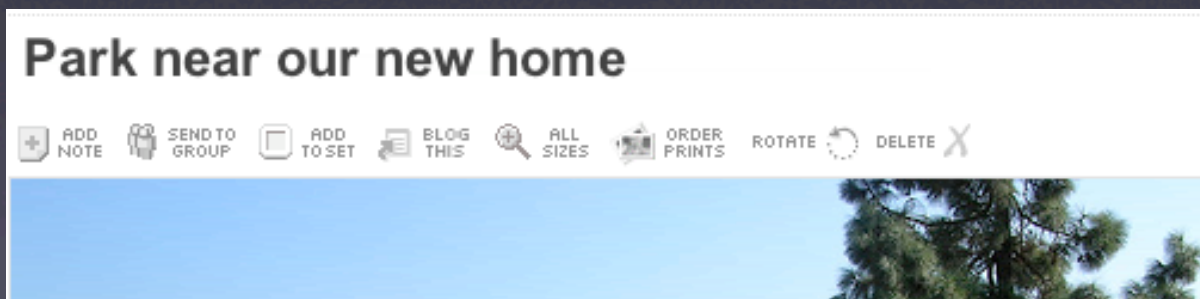
principle. offer an invitation.



pattern. hover invitation.



pattern. drop invitation.



pattern. tooltip invitation + hover invitation.



offer an 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](#)



offer an invitation

Make it engaging

Use lightweight events as a welcome mat

Rediscover the hover

Hi, Bill [Sign Out](#)

[Mail](#) [Messenger](#) [Radio](#)

1-4 of 14 Friends Online [Prev](#) | [Next](#)

- [annetto8](#)
- [bbakersf](#)
- [chanel_wheeler](#)
- [darren.james](#)

» See your friends on 360 » [Launch Messenger](#)

[Weather](#) 53° - 75° [Local](#) [Movies](#)

DVD Rentals Delivered

 FREE Shipping
No Late Fees
60,000+ Titles **Only \$5.99 a month** [Click here](#)

[Try Netflix for Free](#) - [Ad Feedback](#)

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.

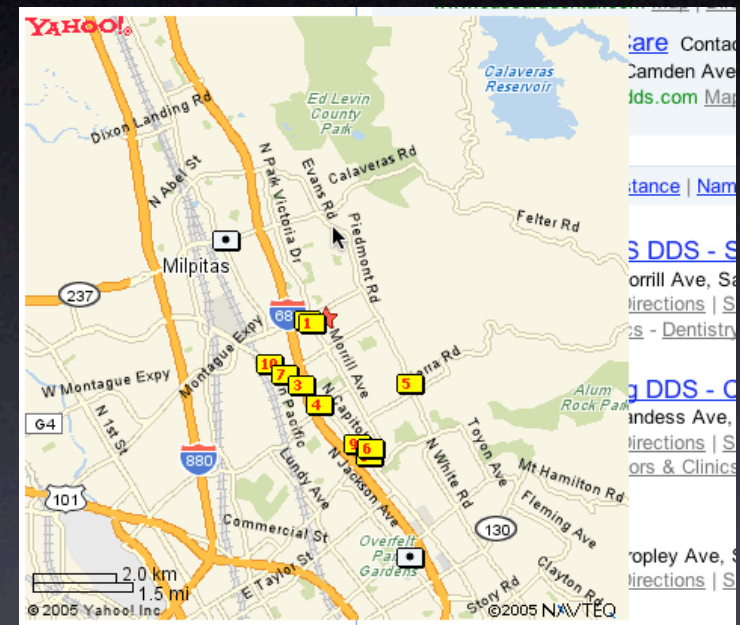
Now we're opening the beta up to all Associates to further improve product previews. The first 500 Associates who refer a sale through a product preview-enhanced link will receive a \$5 Amazon gift certificate. [Click here to join your fellow Associates in beta testing product previews.](#)

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.

Keep actions out of it

Don't make the user afraid to explore

Don't proselytize



offer an invitation

Make it engaging

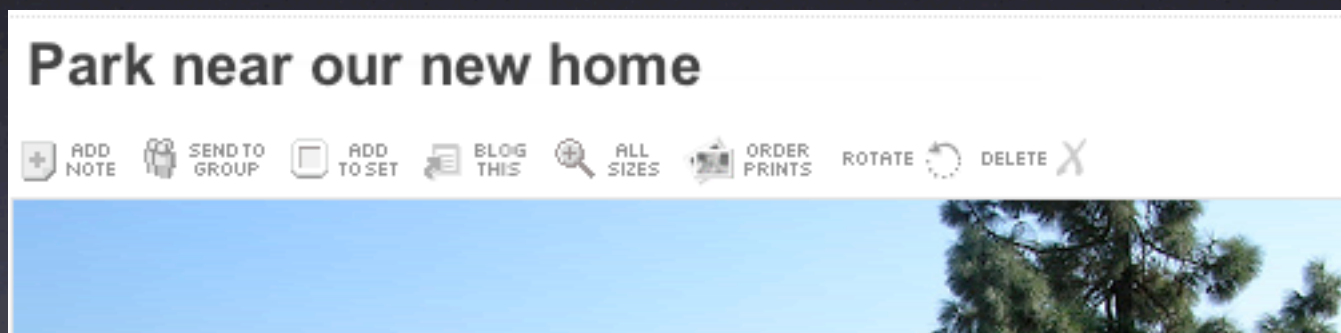
Use lightweight events as a welcome mat

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



offer an invitation

Make it engaging

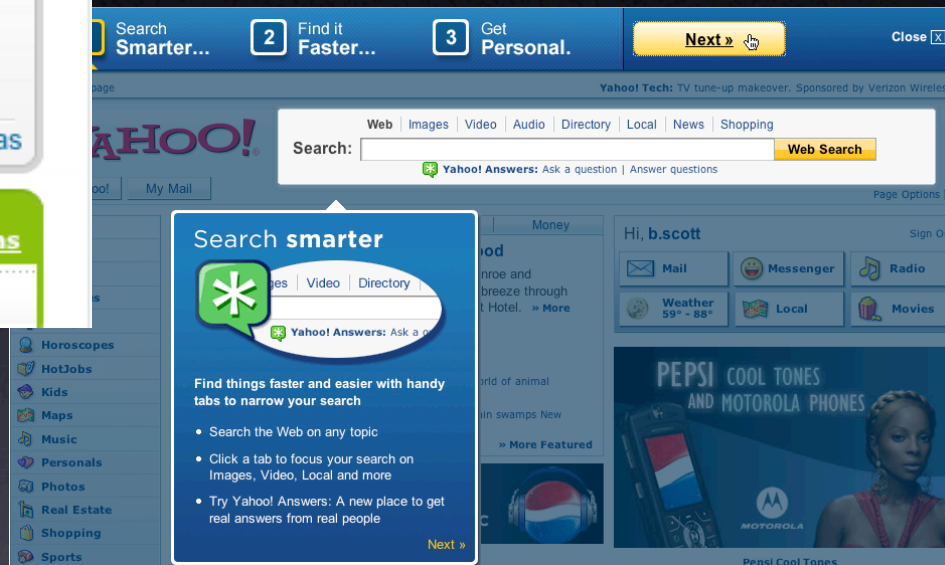
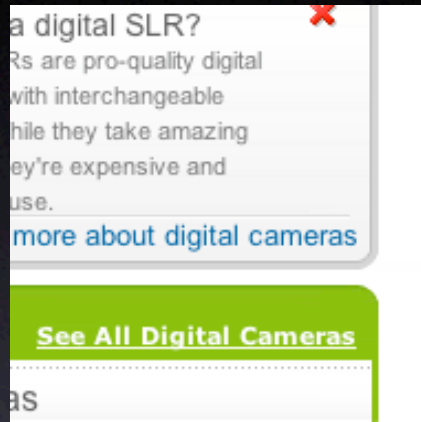
Use lightweight events as a welcome mat

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

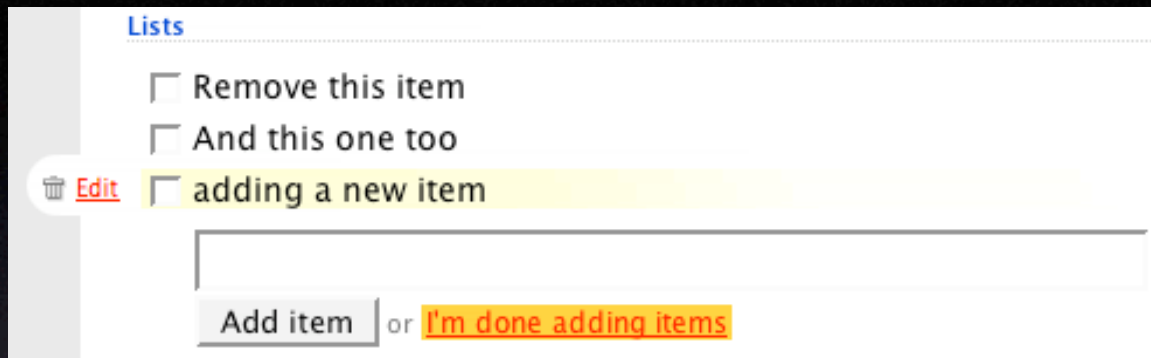
Hover Invitation

Cursor Invitation

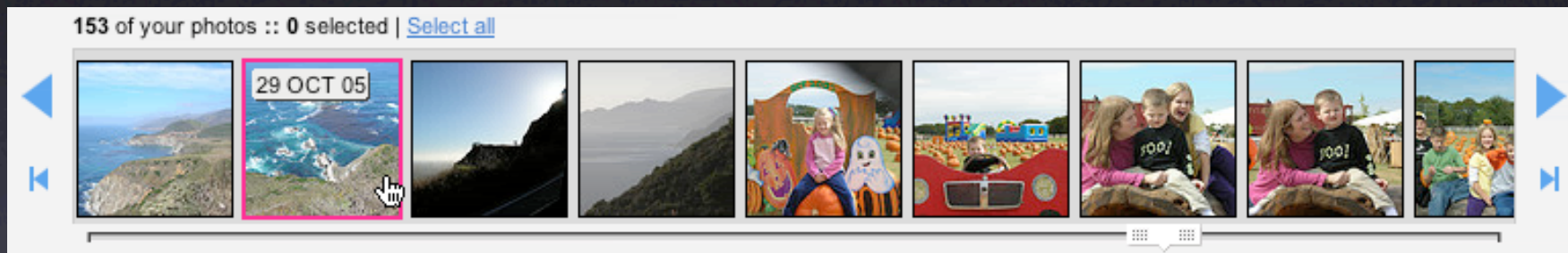
Tooltip Invitation



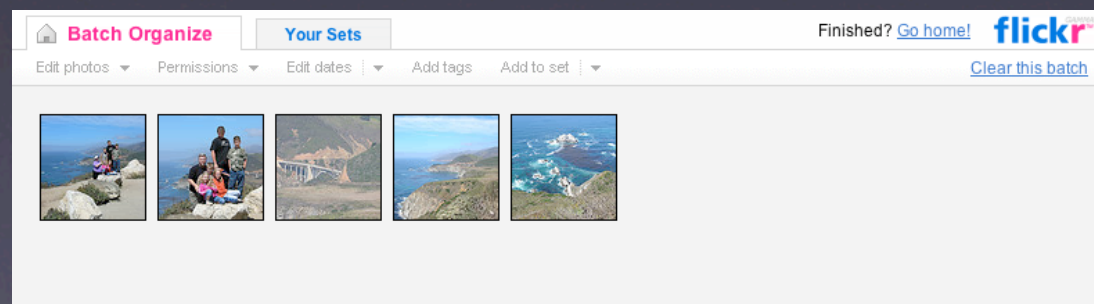
principle. show transitions.



pattern. fade transition + self-healing transition.



pattern. slide + animate.

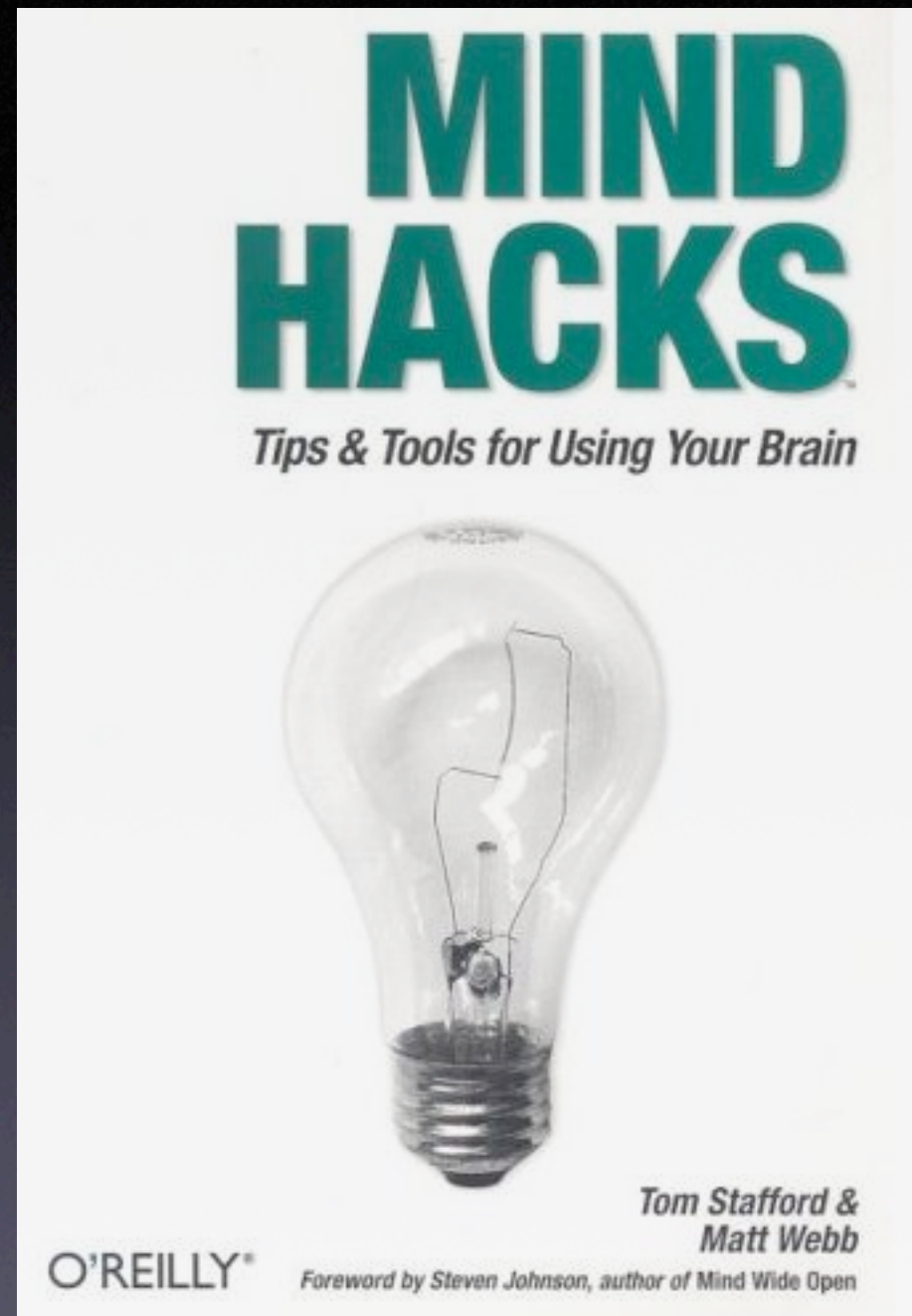


pattern. spotlight.



Speak to the BRAIN

Understanding attention processing

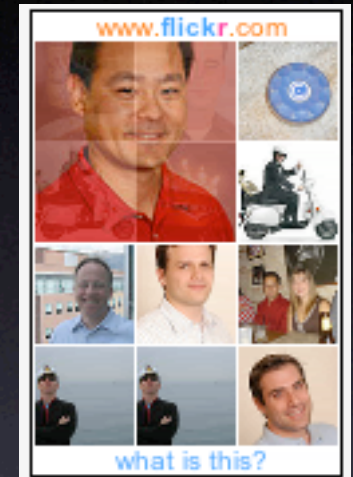
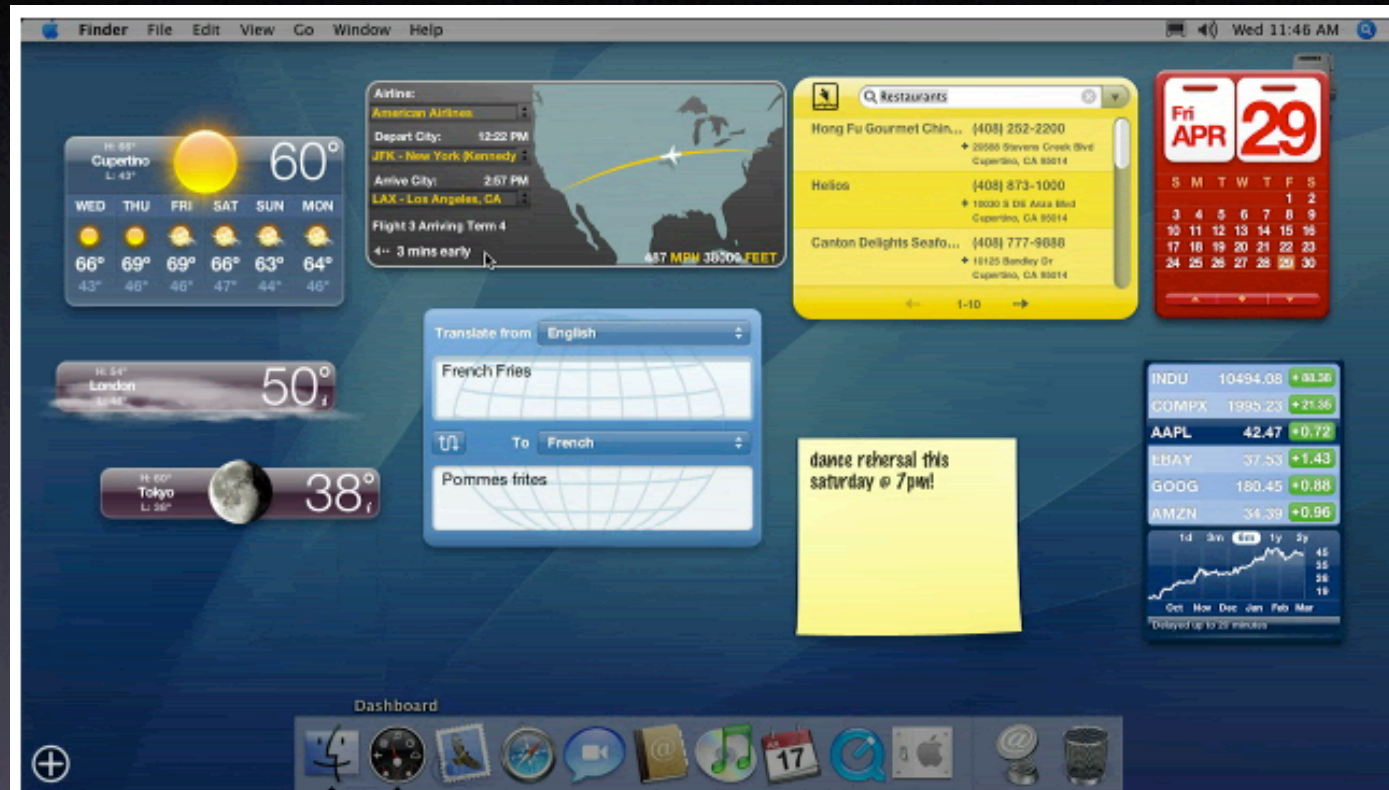


show transitions

Speak to the BRAIN

Understanding attention processing

Sending the wrong message

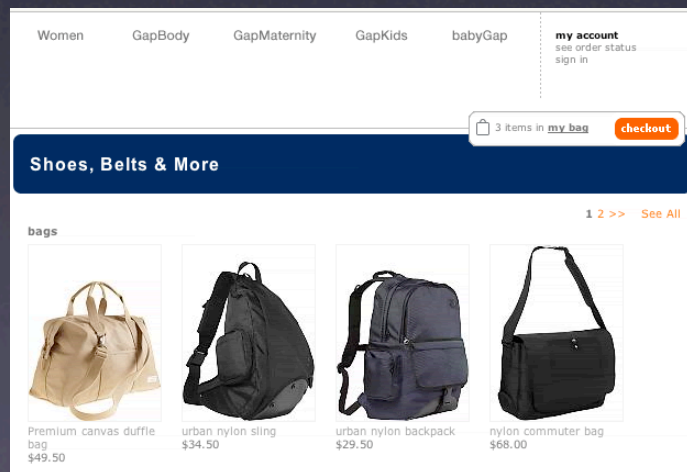
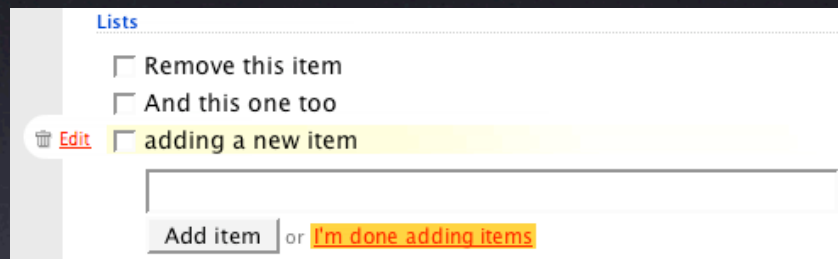
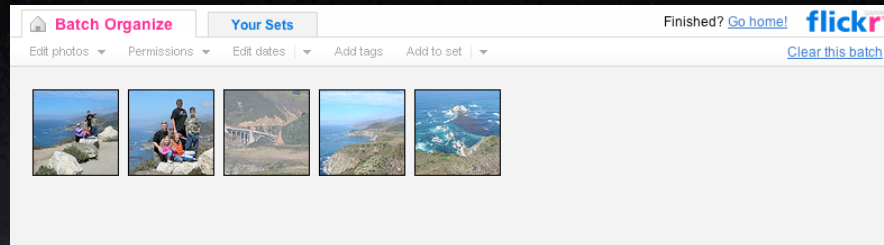


show transitions

Speak to the BRAIN

Understanding attention processing

Sending the wrong message



What you can communicate

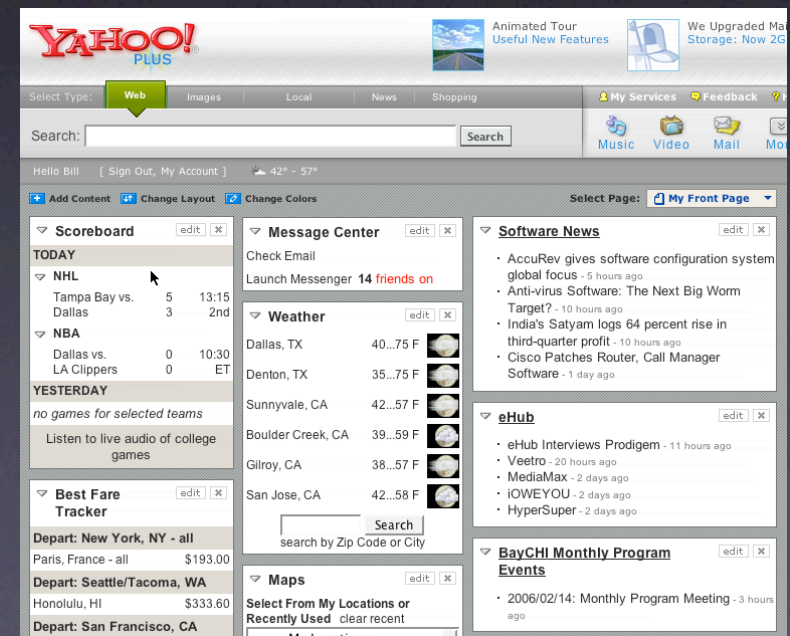
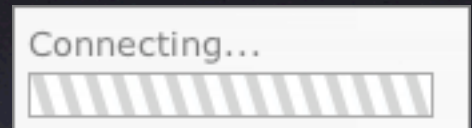
Speed up time

Slow down time

Show state change

Show relationships between objects

Focus attention



show transitions

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

The screenshot shows the Yahoo! Plus homepage with a complex, cluttered layout. The top navigation bar includes links for Web, Images, Local, News, and Shopping. Below this is a search bar and a weather widget. The main content area is divided into several sections: a Scoreboard with NHL and NBA game results, a Message Center with email and messenger links, a Weather widget for Dallas, TX, and a Software News section. On the left, there's a Best Fare Tracker showing flight prices. The right side features a eHub with various links and a BayCHI Monthly Program Events section. The bottom of the page includes a Maps widget and a Travelocity section. The overall design is dense and lacks clear visual hierarchy, making it difficult to navigate.

Keep it sane

"Cut in half" rule of thumb
Use a "contrast knob" approach
Don't overuse



key principle

*Provide invitations beforehand,
transitions during,
and feedback after interaction*



principle. think in objects.

[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](#)

pattern. Shareable Object.


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](#)



think in objects

The power of sharing

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

 [Amsterdam Trip Plans on Yahoo! Travel](#)


[Yahoo! Shortcut](#) - [About](#)

 [My Web Results for amsterdam trip \(49\)](#)

1. [Trip to Amsterdam - photos, history, maps - Virtual trip to Amsterdam](#)


Web **trip** to **Amsterdam**. Historical and sightseeing overview ... **Trip to Amsterdam**. To begin with **Amsterdam** we should first note, that this city has two features making ... One will never forget a **Amsterdam trip** around the city by river ...

[www.medievalamsterdam.com](#) - 9k - [Cached](#) - [More from this site](#) - [Save](#)

 **TRAVEL**

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

[Travel Home](#) - [My Travel](#) - [Help](#)

 **TRIP PLANNER**

[Explore](#) [Browse Trips](#) [Create a Trip](#)


[Search](#)

We're giving away two plane tickets a day! [Create a trip for your chance to win.](#)



Public Trips


[Search](#)

164 trips found






Yosemite
10 day trip by [tabicat_2005](#) ([View tabicat_2005's trips](#))
YOSEMITE NATIONAL PARK
Trip to Yosemite in the new trailer. Jessica, Jaleh, Tabitha's one week get-a-way!
[Copy and customize](#) (11 people have!)

 (4)  (4)




Yosemite
By [matt_mlinac](#) ([View matt_mlinac's trips](#))
YOSEMITE NATIONAL PARK, GROVELAND
Spring trip to Yosemite
[Copy and customize](#) (9 people have!)

 (16)  (10)



Yosemite
12 day trip by [wasitova](#) ([View wasitova's trips](#))
YOSEMITE NATIONAL PARK
Travel on the way to Yosemite and back
[Copy and customize](#) (3 people have!)

 (1)



think in objects

The power of sharing

Bloggable, shareable, findable

How to dial-in community

Collections

EVENTS BROWSER

San Francisco CA

17 RESULTS

1 MH De Young Memorial ... 12 Events

2 Strybing Arboretum 3 Events

3 Amoeba Music 2 Events

Apr 2006

All Art Country & Western Folk Music Misc

Events Museums & Galleries

Music Rock & Pop Sports

Theater

Web 2.0 as a platform

Rich objects fit the SOA model

Creates a good separation of concerns

Mashups



key principle

Think in terms of the user's mental model and their primary goals



key principles

Prefer direct, lightweight, in-page interaction.

Provide invitations beforehand, transitions during, and feedback after interaction.

Think in terms of the user's mental model and their primary goals.



pattern library.
yahoo! blog.
my blog.
this presentation.

developer.yahoo.com/ypatterns
yuiblog.com
looksgoodworkswell.com
billwscott.com/share/presentations/prodcouncil/

