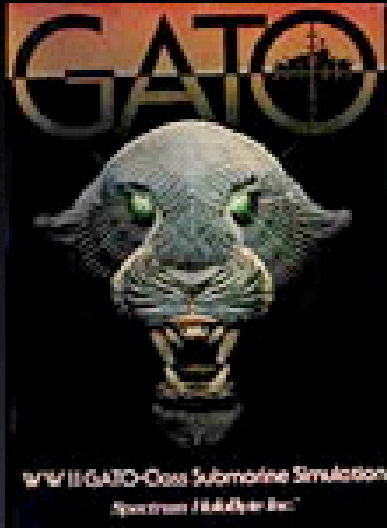


designing for ajax

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 provide 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
- 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
 - 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 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
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Recent Patterns

- Auto-Complete
- Calendar Picker
- Item Pagination
- Search Pagination
- Module Tabs
- Navigation Tabs

Results Page:

1 2 3 4 [Next](#)

Search Pagination

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

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Writing a Review

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

Ratings and Reviews

Problem Summary

User wants to leave an opinion or evaluate a product or website. Quick opinions can be captured using Reviews.

Solution Patterns

- Architecture of a Review
- Rating an Object

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](#)

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.

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](#)

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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.




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



YAHOO! USER INTERFACE BLOG

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

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

Yahoo! Design Pattern Library Released

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

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

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

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

Background on Patterns

SYNDICATE

All Entries:

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

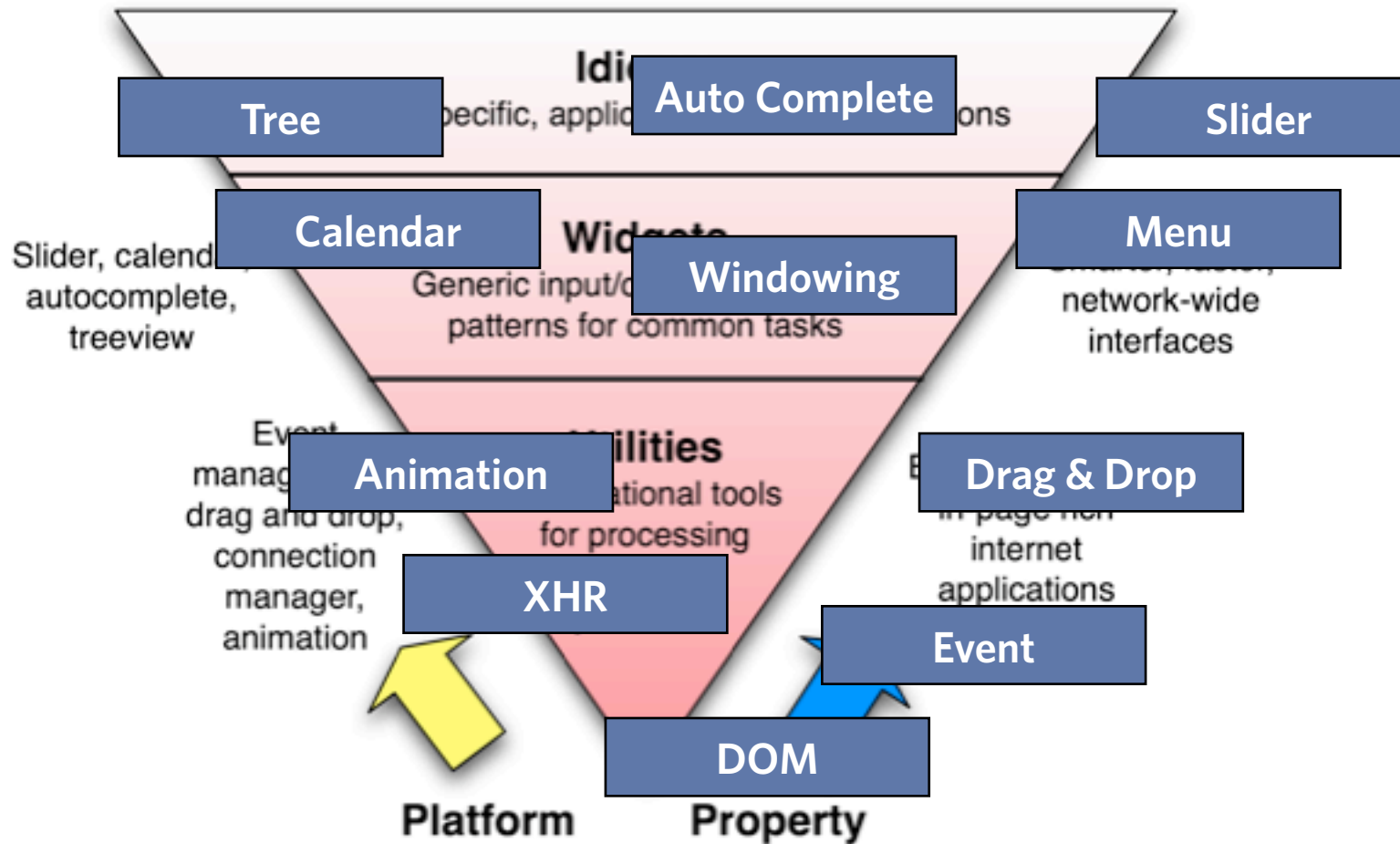
All Comments:

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

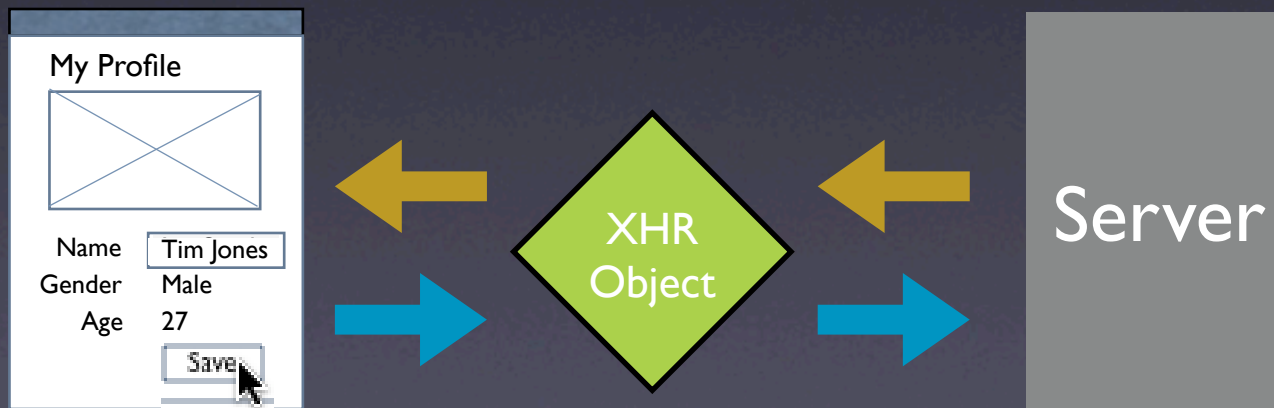
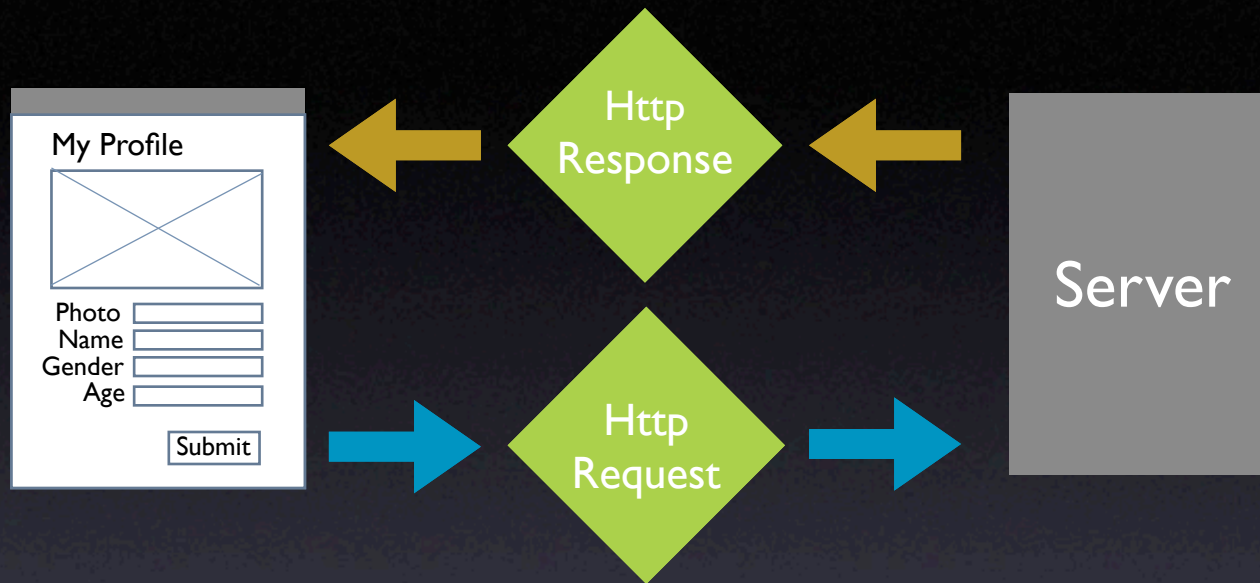
RECENT POSTS

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

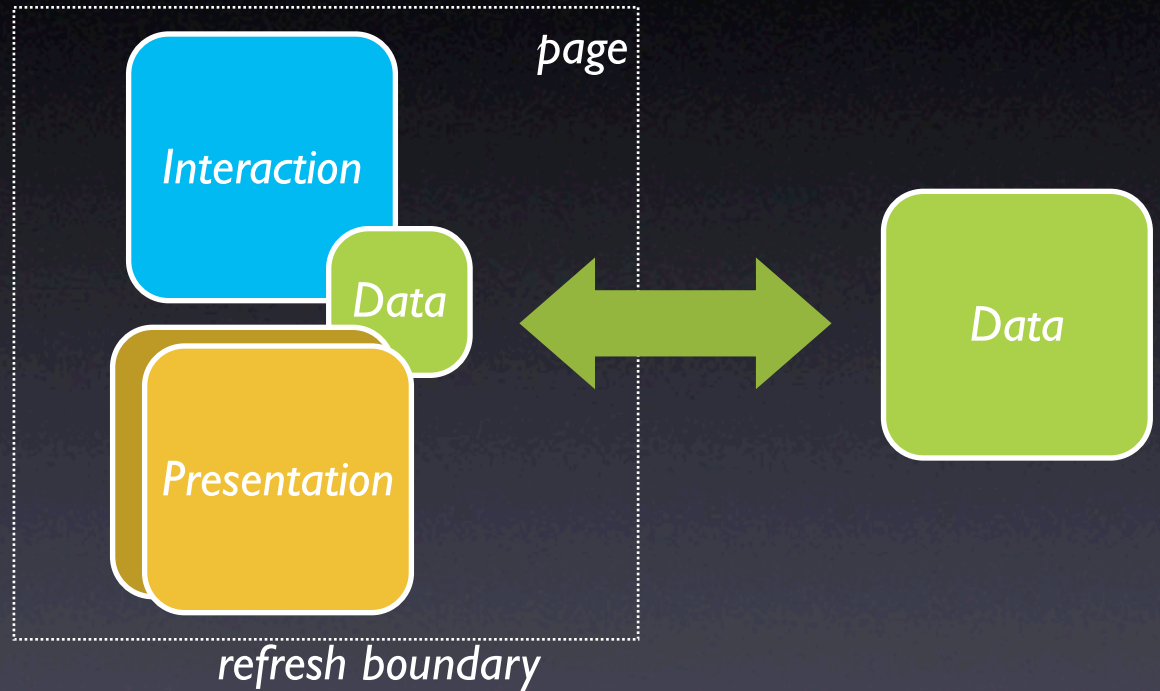




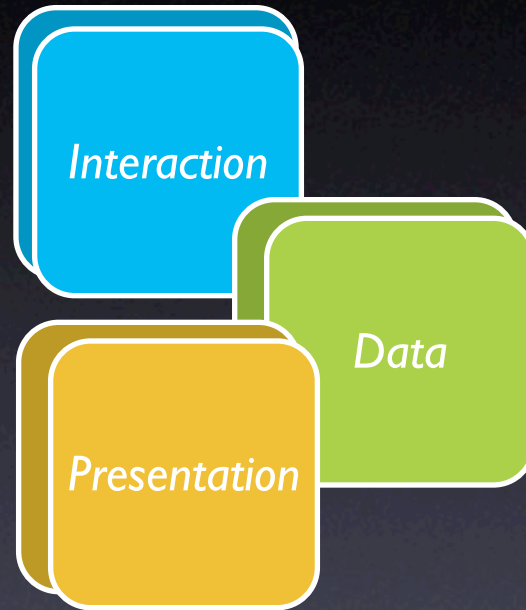
classic model. rich model.



interaction. presentation. data.



data near. interaction rich.



surfacing a vocabulary.



vocabulary. 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.



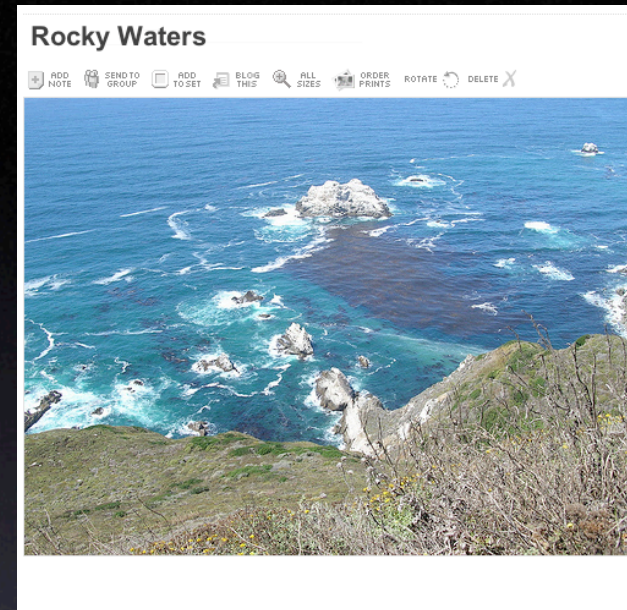
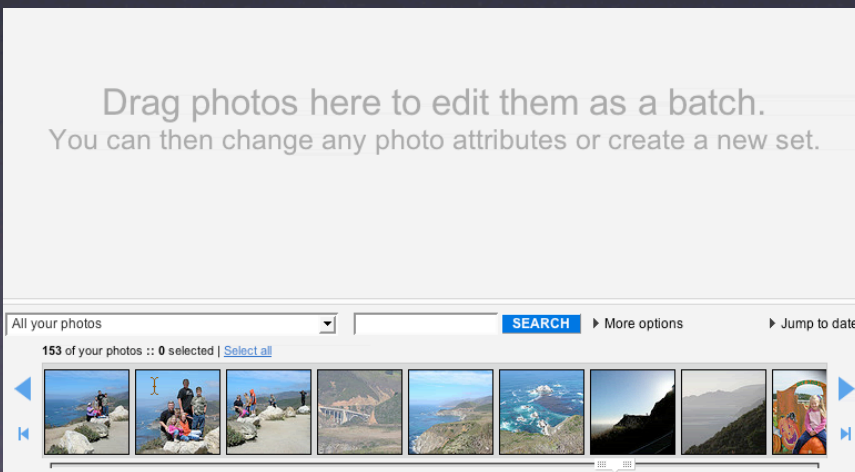
design principles



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?

Pick Up at the Store


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

[Add Item](#)

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

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

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

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


Use direct editing on page content

What about save/cancel?

Avoid page jitter

Reduce the feeling of modes

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

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

Provide in-context tools

Only good for single operations

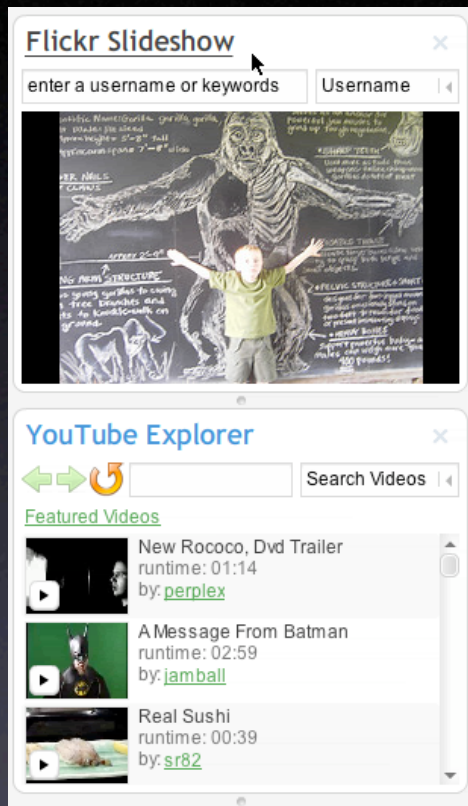
Can actually slow you down



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

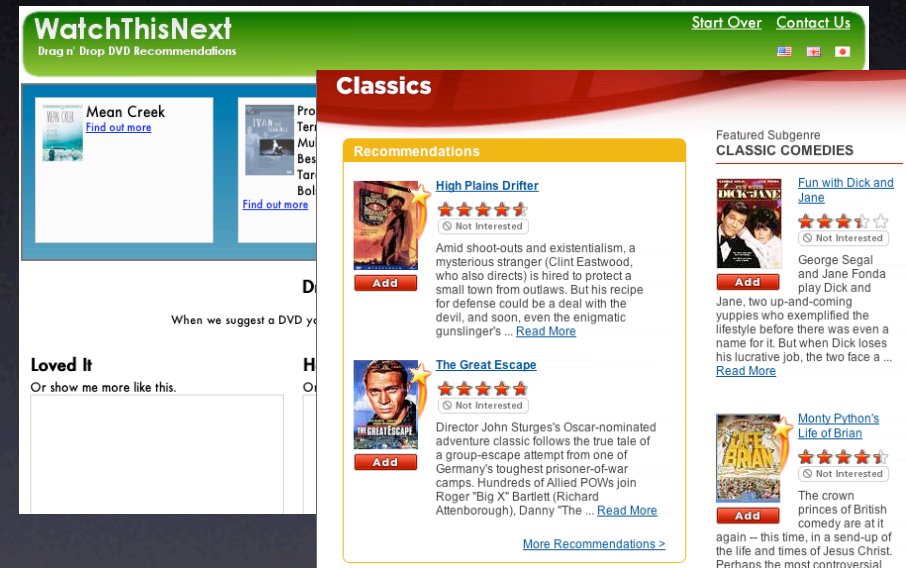
- What is spam?
- Can I transfer my message credits?
- How do I delete my HandyPay account?
- What if I didn't receive my full message package?
- I need to contact customer care regarding the Compose Text Message service.

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



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**

Color swatches: white, dark blue, black, purple, pink, royal grape.

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](#)

[More Recommendations >](#)

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

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Add



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Add

[More Recommendations >](#)

Featured Subgenre

CLASSIC COMEDIES




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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
----------------------------------------------------------------	------------------------------------------------------------------------------------------------------------	----------------------------------------------------------



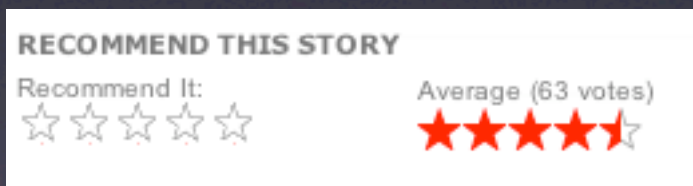
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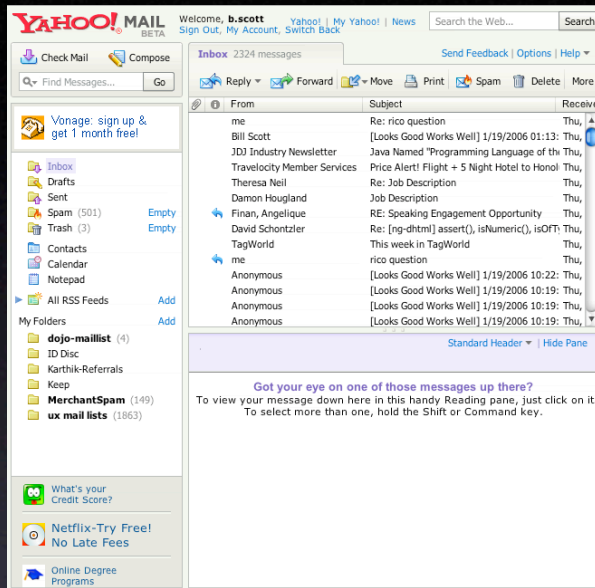


Use lightweight events

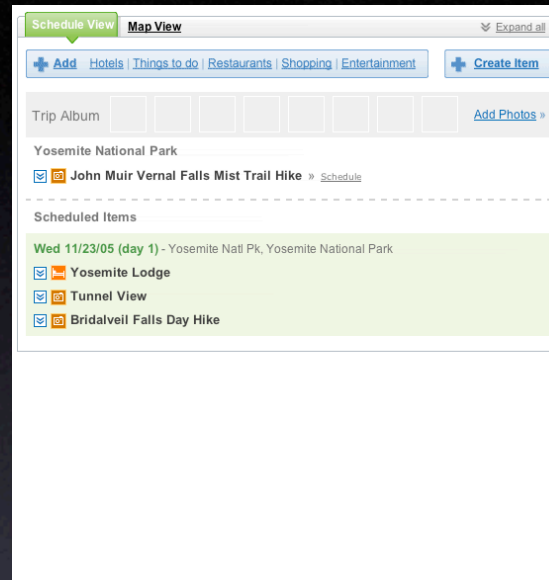
Hover
Blur, focus
Click. Avoid double-click



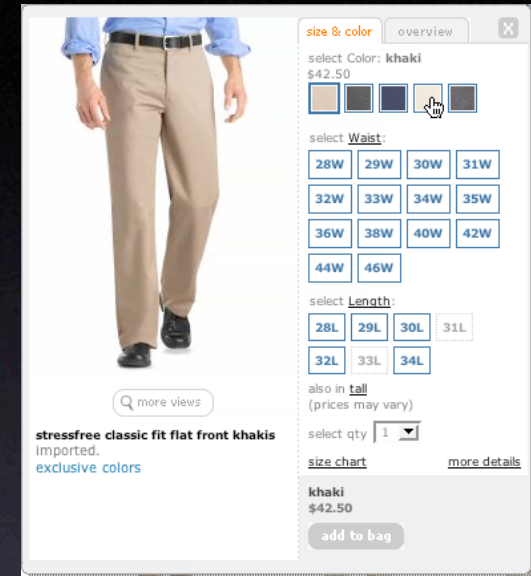
principle. cross borders reluctantly.



pattern. endless scrolling.



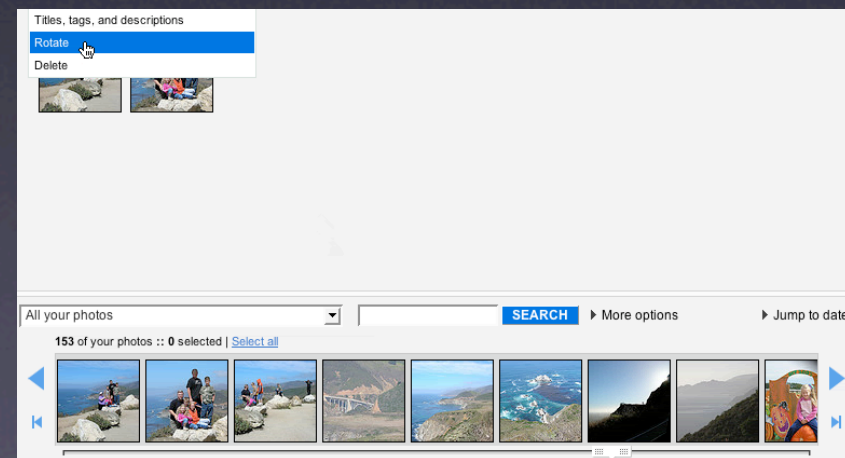
pattern. in-context expand.



pattern. inline assistant.



pattern. hover details.



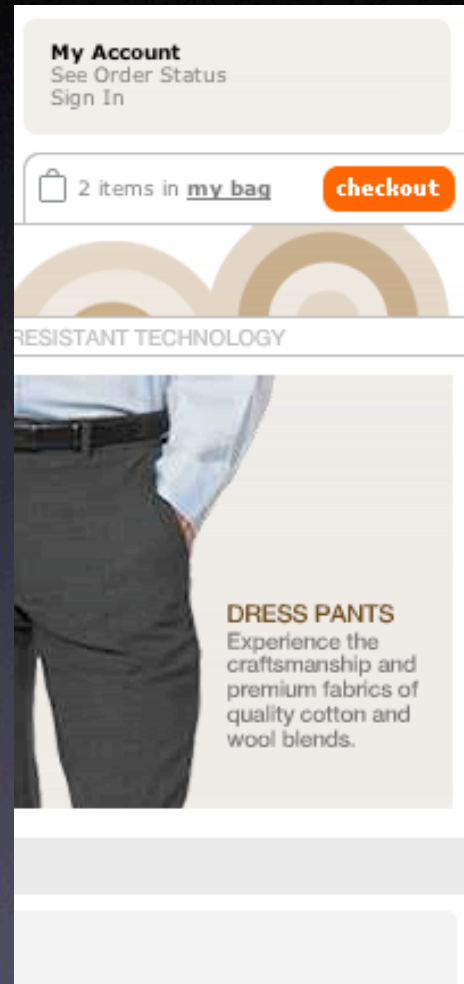
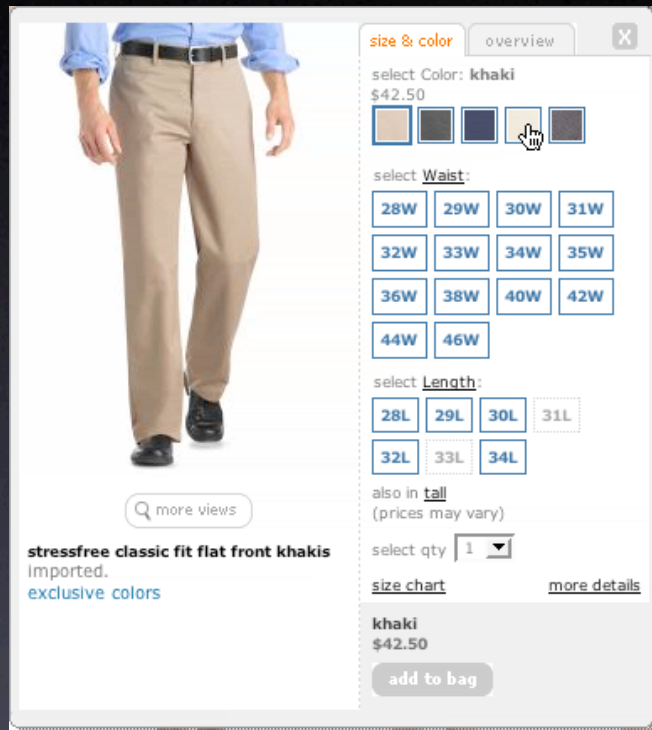
pattern. lightweight popup + lightbox



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





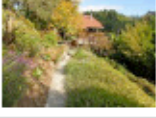
Every page jump is a mental speed bump

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




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



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



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



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



cross borders reluctantly

Rethink process flows

Its the user's model, not the page model

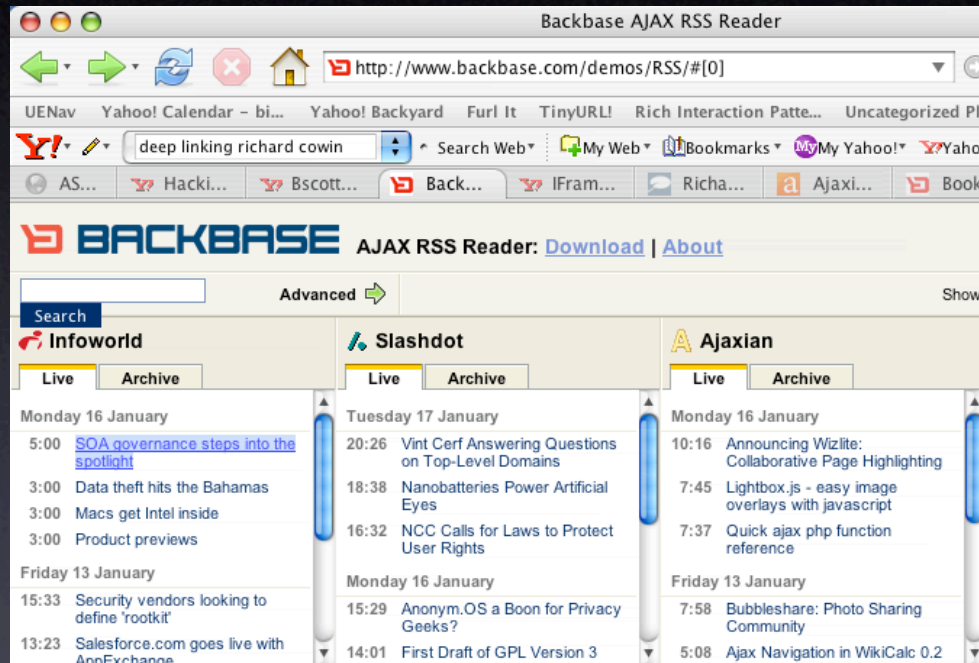
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Rethink paging

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

[Learn more...](#)

- 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.

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

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

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](#)

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

Use feedback to boost confidence


Let the user iterate where possible

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.

World

Just-in-time data

Students to Enroll									
Crew ID	Last Name	First Name							
600922	Peterson	Shelley							
340294	Craft	Adrian							
432039	Douglas	Elyse							
468370	Hill	Petra							
999300	Barnes	James							
344935	Smith	James							
130204	Hillier	Gordon							

Students to Enroll									
Crew ID	Last Name	First Name							
600922	Peterson	Shelley							
340294	Craft	Adrian							
432039	Douglas	Elyse							
468370	Hill	Petra							
999300	Barnes	James							
344935	Smith	James							
130204	Hillier	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			
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

YAHOO! search php.net

monterey bay

from the Web next

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

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

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 shows the alltheweb search engine interface. The search bar contains the text 'monterrey'. Below the search bar, a list of suggestions is displayed, including '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'. The search results page displays 'Results 1 - 10 of about 8,620,000 for monterrey'. The results are organized into sections: 'SPONSOR RESULTS' (including 'Save on Monterrey Hotels at Expedia.com' and 'Monterrey Vacations with Travelocity'), 'News Results for monterrey' (including 'FC Dallas traveling roster to Monterrey'), 'Yahoo! Shortcut - About', 'All About Monterrey' (a city guide), and 'Monterrey - Wikipedia, the free encyclopedia'. The Wikipedia entry provides information about Monterrey as the capital city of the northeastern Mexican state of Nuevo León and the municipal seat of the municipality of the same name. It also mentions the divided highway Monterrey-Saltito-Matehuala-Mexico City and the main land ... Nuevo Laredo-Mexico City, Monterrey-Tampico, and Monterrey-Pacific (Mazatlán). Quick Links: Geography - Government, Transportation, and Public Safety - Industry and business. The page also includes a 'Refine Search' button and a 'Tell a Friend' button.



give live feedback

Keep the goal in mind

Design for immediacy

Is it narrowing or is it distracting

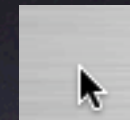
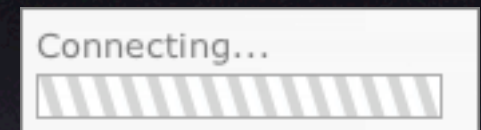
Use feedback to boost confidence

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)

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

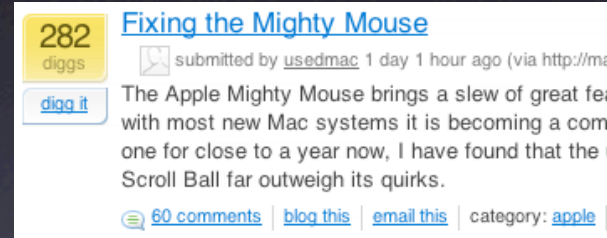
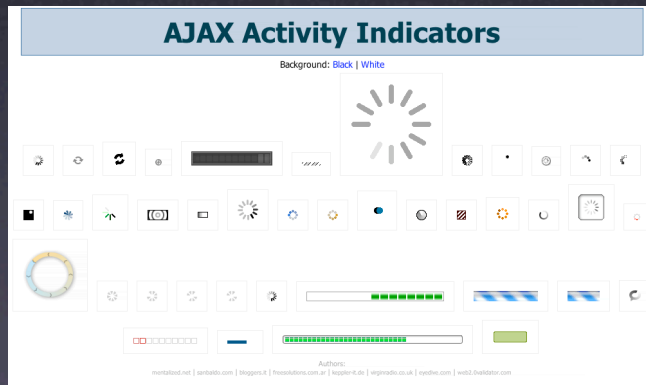
Use feedback to boost confidence

Let the user iterate where possible

Keep the user engaged

Time passes faster

Look for engaging moments



Keep feedback focused

Keep it in context

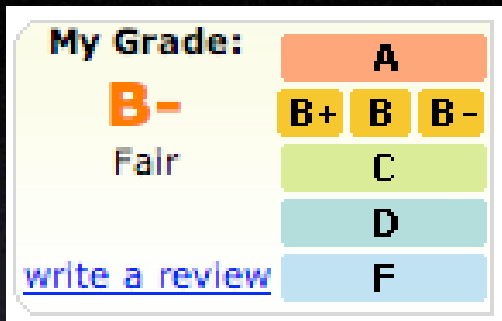
Updating too many areas at once will be confusing

Show dynamically what is relevant

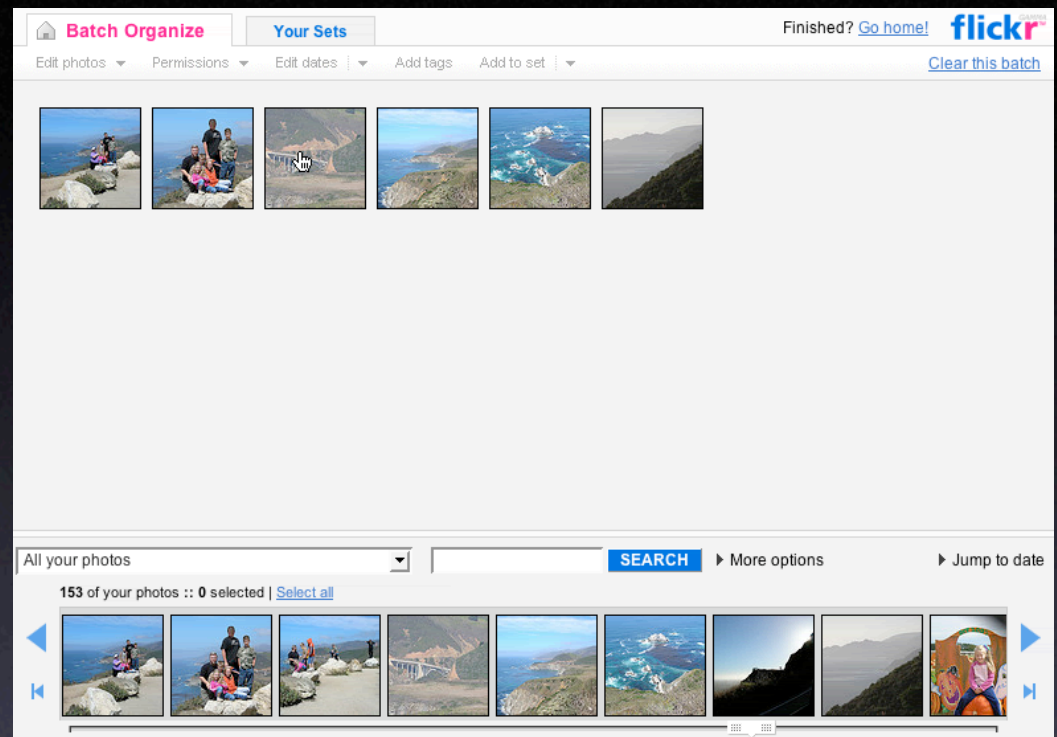
Avoid creating feedback noise/jitter



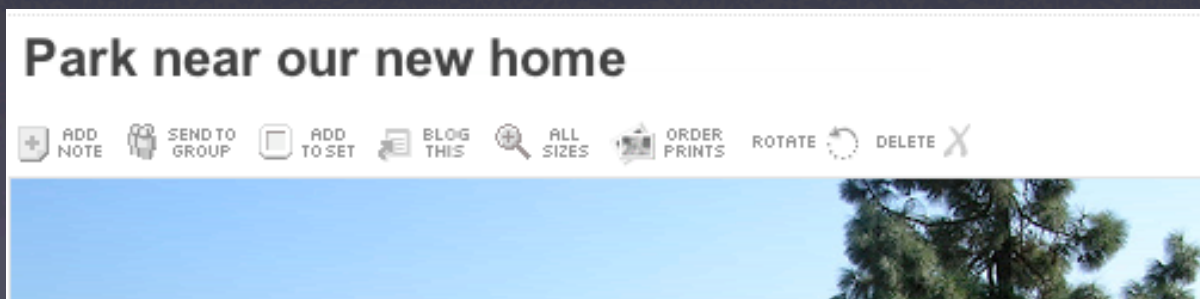
principle. offer an invitation.



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

NETFLIX FREE Shipping **Only \$5.99**
No Late Fees a month
60,000+ Titles [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.

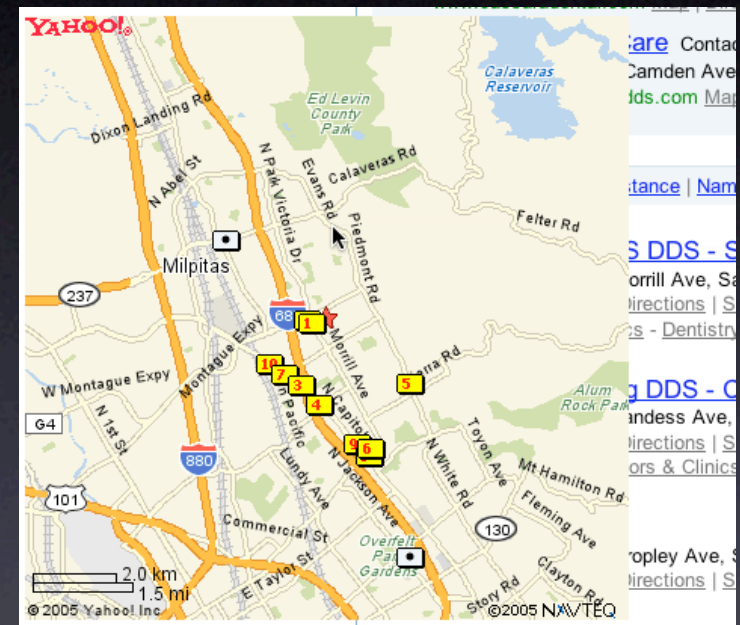
Now we're opening the beta up to all Associates to further improve product previews. The first 500 Associates who refer a sale through a product preview-enhanced link will receive a \$5 Amazon gift certificate. [Click here to join your fellow Associates in beta testing product previews.](#)

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

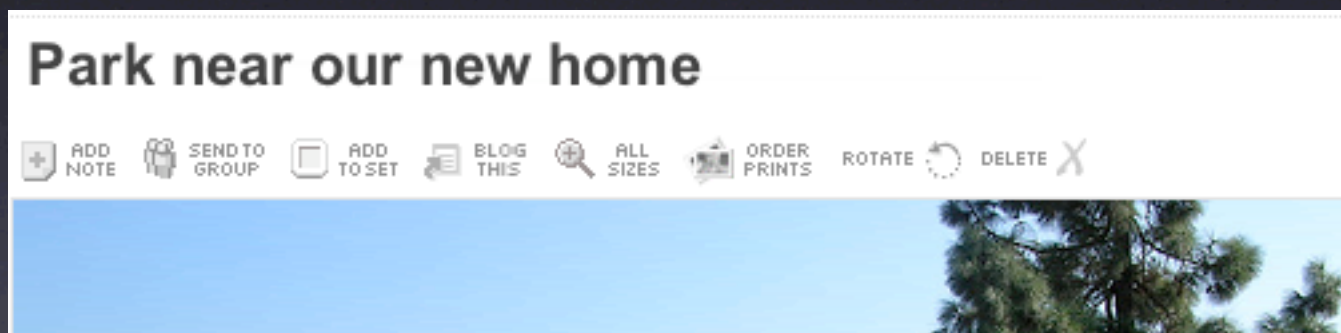
Use lightweight events as a welcome mat

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

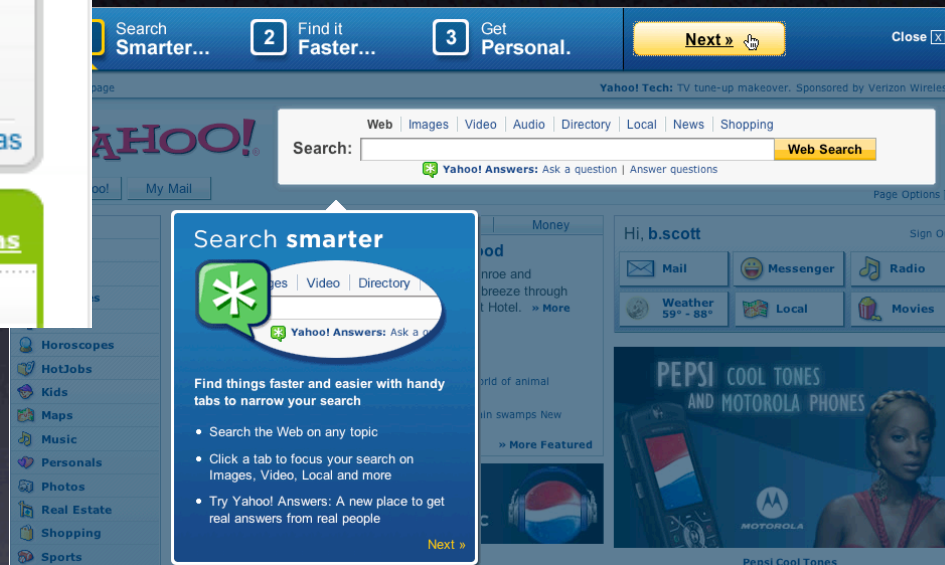
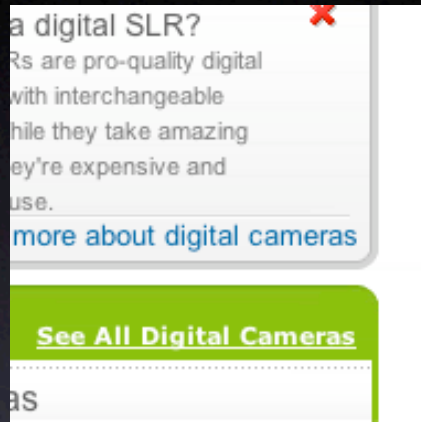
Use lightweight events as a welcome mat

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

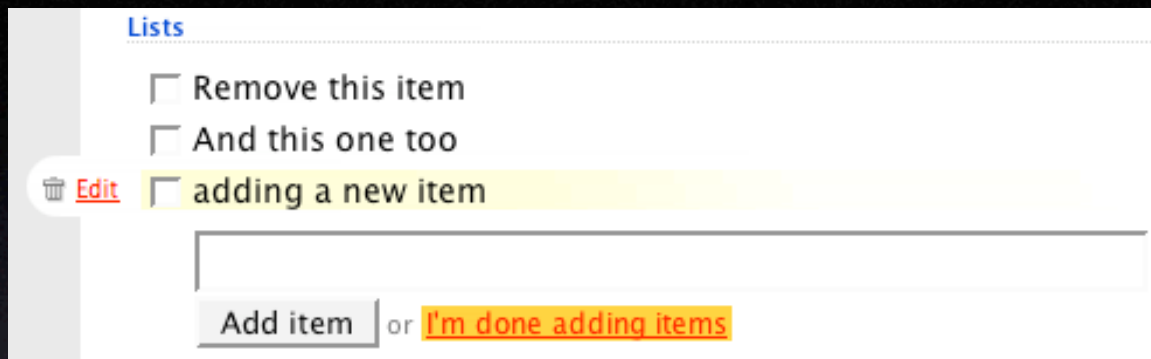
Hover Invitation

Cursor Invitation

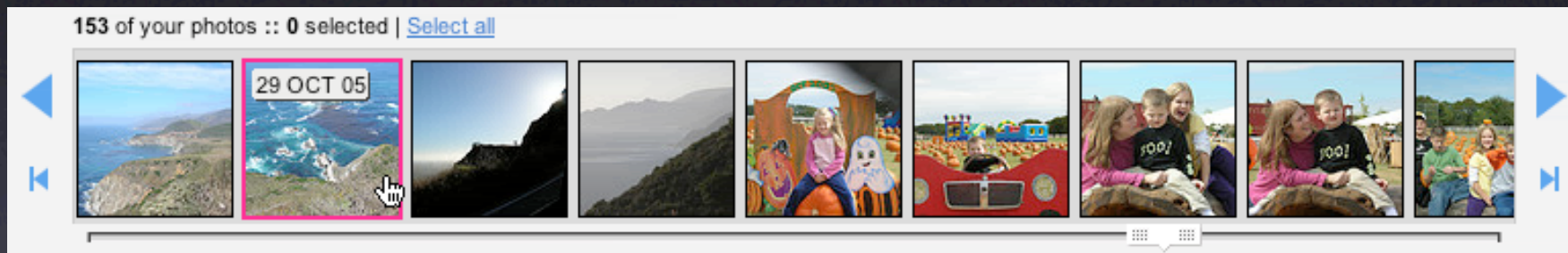
Tooltip Invitation



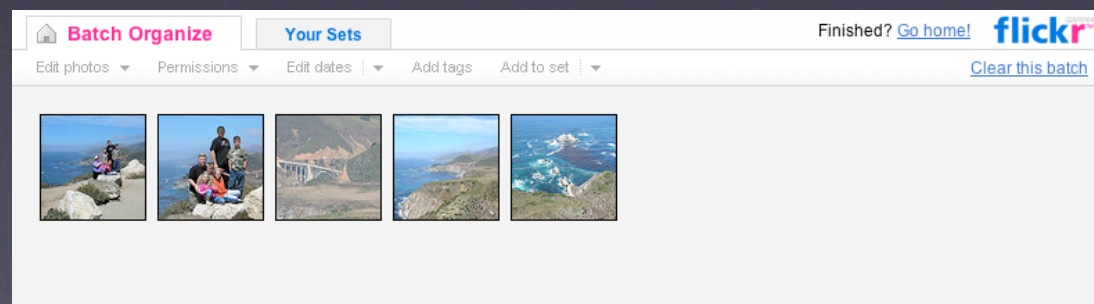
principle. show transitions.



pattern. fade transition + self-healing transition.



pattern. slide + animate.



pattern. spotlight.

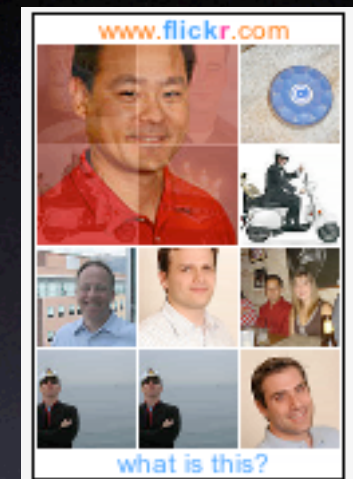
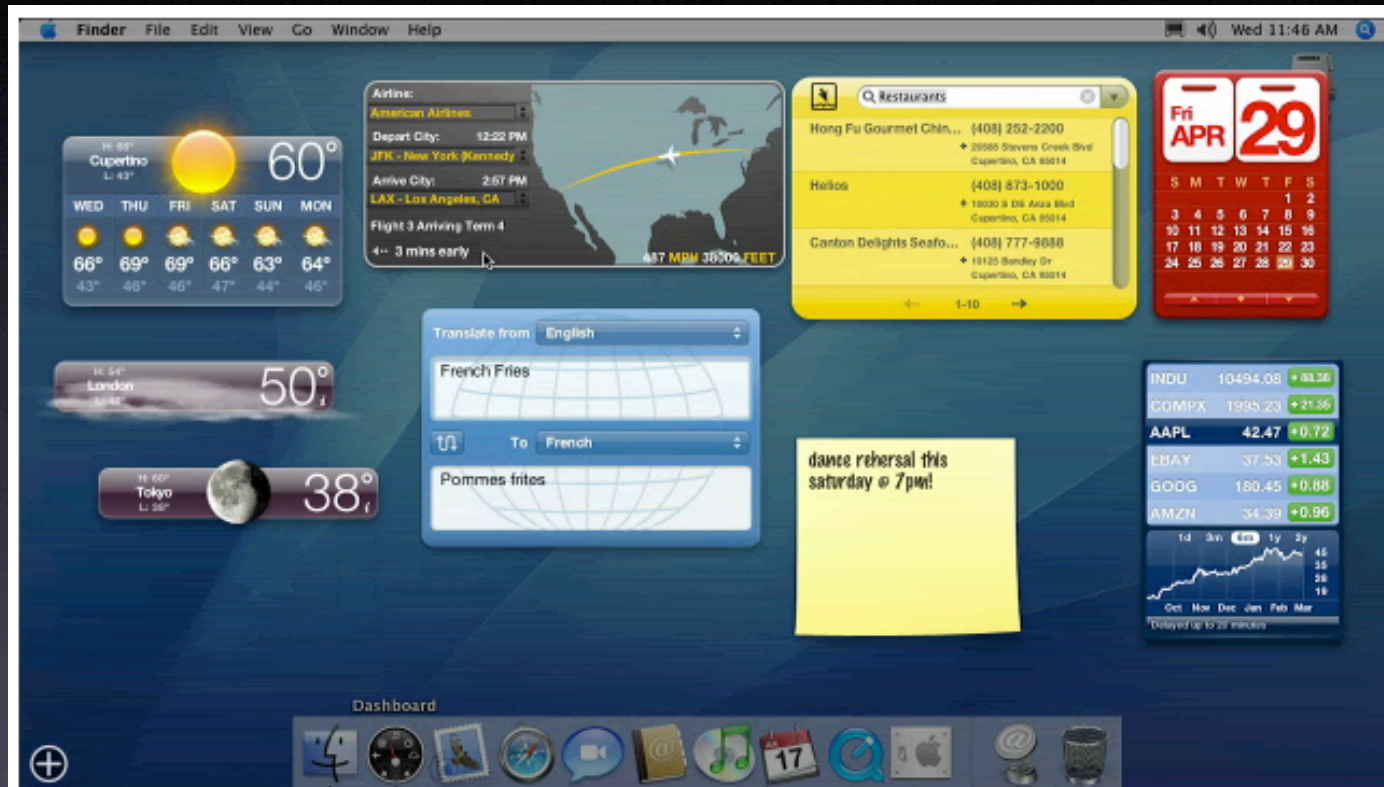


show transitions

Speak to the BRAIN

Understanding attention processing

Sending the wrong message

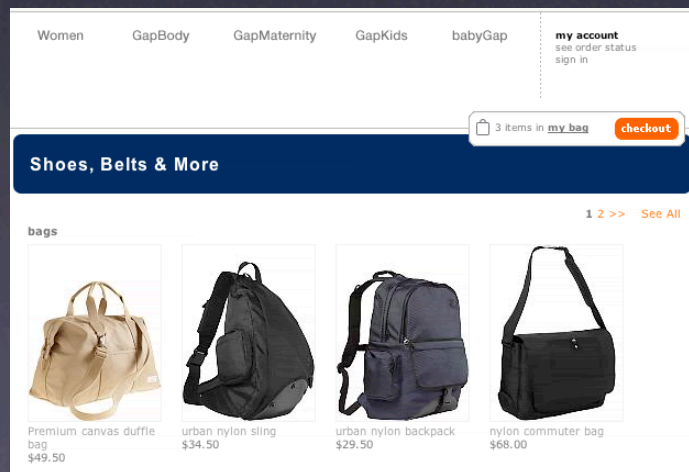
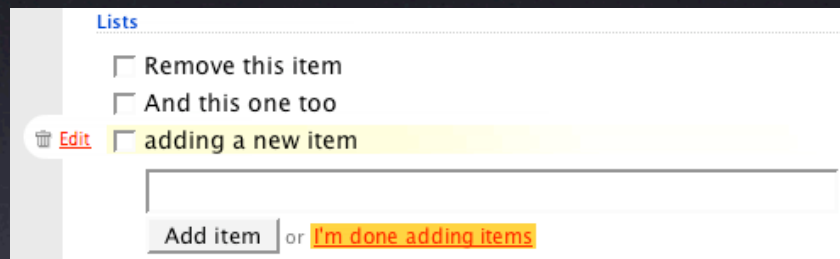
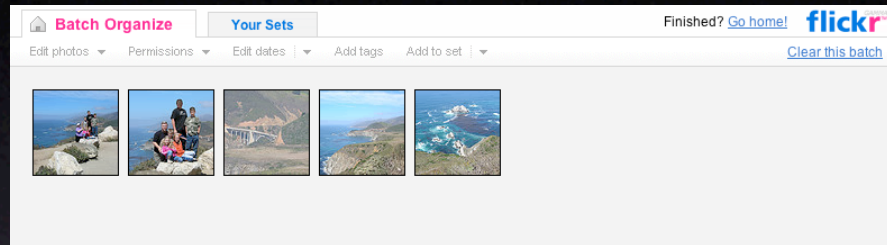


show transitions

Speak to the BRAIN

Understanding attention processing

Sending the wrong message



What you can communicate

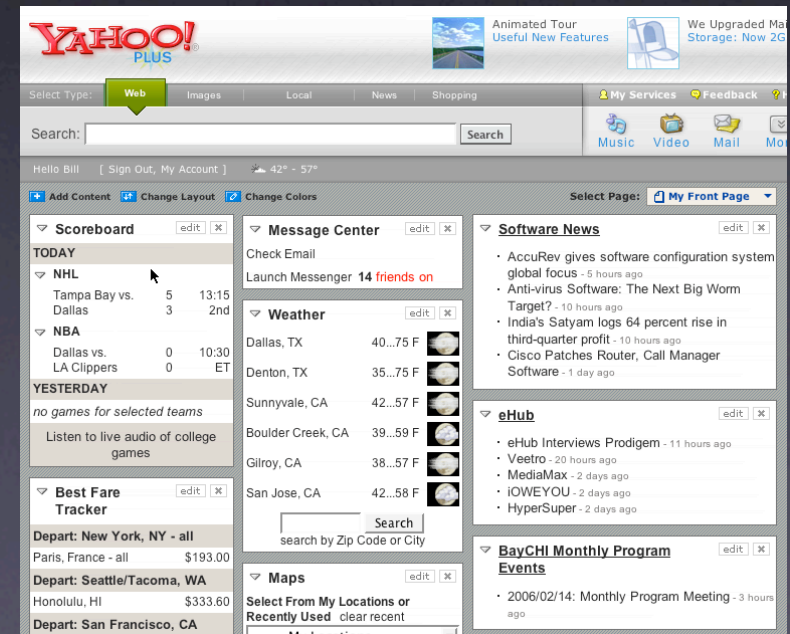
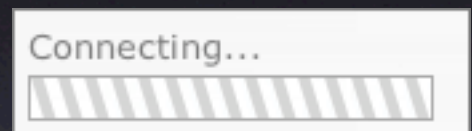
Speed up time

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

Rain or Shine? Zipcode: 95132

Current Conditions

San Jose, CA



64°F


A Few Clouds

Humidity: 70 %
Barometer: 29.97" (1014.7 mb)
Windspeed: Calm
Dewpoint: 54 F (12 C)
Heatindex: None
Last Update: May 31, 8:53 am PDT

Radar Maps
Forecast

Flickr Slideshow

enter a username or keywords Username



YouTube Explorer

Search Videos

Featured Videos

New Rococo, Dvd Trailer
runtime: 01:14
by: [perplex](#)

A Message From Batman
runtime: 02:59
by: [jamball](#)

Real Sushi
runtime: 00:39
by: [sr82](#)

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](#)



Rethinking the model

What is the user's mental model?

How to distinguish from content?



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

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

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

[\[Update photos \]](#)

Schedule View









Map View

[Expand all](#)

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


[+ Create Item](#)

Trip Album





[Add Photos »](#)

Yosemite National Park


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

Scheduled Items


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

 **Yosemite Lodge**

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

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

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



Rethinking the model

What is the user's mental model?

How to distinguish from content?

The power of sharing

Bloggable, shareable, findable

How to dial-in community

Collections

[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](#)


YAHOO! 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!)



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



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!)



think in objects

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

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.



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.



surfacing a vocabulary.



surfacing a vocabulary.
code. accessibility. examples.
rationale. solutions. articles.
discussion. etc.



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
 - 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 with the design and development patterns we hope to be a monthly release. We have bundled the patterns we have used in 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.



open patterns.

Developer Network Home Help Site Search Search

YAHOO! DEVELOPER NETWORK

Design Pattern Library

Yahoo! Developer Network > Design Pattern Library > Ratings and Reviews > Rating An Object

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
(100%)
Alma St
Menlo Park, CA 94025
Cross Street:
Between Alma Ln and Ravenswood Ave

★★★★★

Average Rating (7)
[Read 7 reviews](#)

Average
★★★★★
[Write a Review](#)

Play ▶

[Rate a restaurant on Yahoo! Local](#)

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.

QUICK JUMP

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

RELATED PATTERNS


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

AS USED ON YAHOO!

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Yahoo! service responds with a JSON representation of a pattern. Allows anyone to mashup the patterns into a corporate pattern library

Pattern Service

Corporate Branded Pattern Site (mashup)



pattern library.

yahoo! blog.

my blog.

this presentation.

developer.yahoo.com/ypatterns

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