

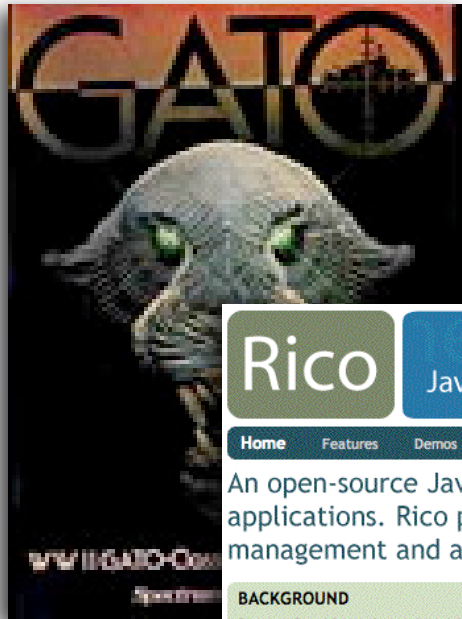
Interaction Design

Section 2: Patterns & Principles

Dave Malouf & Bill Scott

UI 11 Web Apps Conference
January 2007

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](#).

DRAG 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 target and Rico handles the rest.

CINEMATIC EFFECTS

When actions are no longer occurring just at the page level but within a component, it is required to clue the user on what has transpired. Cinematic effects such as transitions can communicate change in richer ways than traditional web page transitions. Rico provides several cinematic effects as well as some simple visual styles.

BEHAVIORS

Take some raw HTML and sprinkle in some behaviors and what do you get? Rico you can get an [Accordion](#) component like those found in Macromedia Flash. Just nest some DIVs and with one line of JavaScript turn your DIV 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 table with an unlimited amount of data scrolled into view on the fly as needed! More behaviors are planned!

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

Module Tabs

The user needs to navigate through one or more stacked panes of content without refreshing the 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.

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.

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.

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.

Designing Ajax & Other Rich Internet Applications: Section 2

Origin of Patterns

A Pattern Language, Alexander, 1977

Dissatisfied with sterile, impersonal design

Defined it as

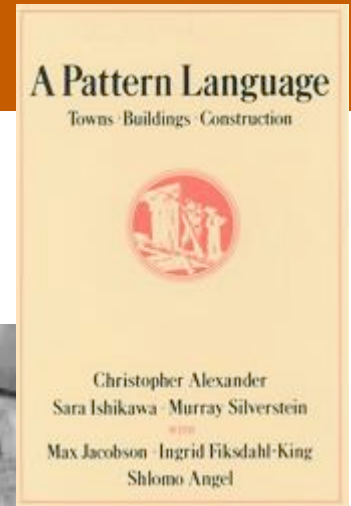
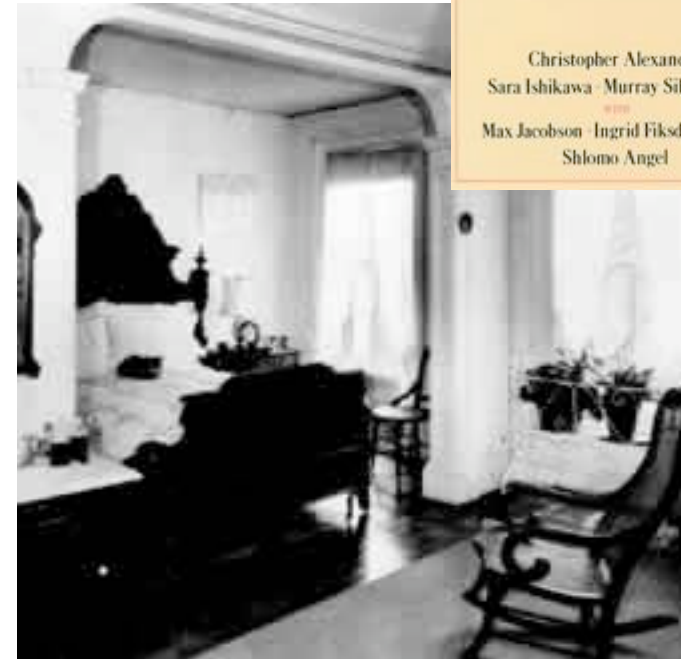
Solution to a problem in context

Captured

Situation, competing constraints, canonical solution

Examples

Couples Realm, House for a Couple, Sitting Circle, Marriage Bed



Origin of Patterns

Applied to software design,
Gang of four, 1995

1996, Alexander raises the
challenge higher

User experience patterns

1997, Tidwell's Common Ground

Welie's pattern site

Design of Sites book

2005, Tidwell, Designing Interfaces



developer.yahoo.com/ypatterns

The image displays three overlapping screenshots of the Yahoo! Developer Network Design Pattern Library, illustrating various design patterns for web development.

Left Screenshot: Welcome Page

- Header:** Developer Network Home Help, Site Search, Search
- Navigation:** 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:** Architecture Review, Rating an Object, Writing a Review
- PERFORMANCE ACTION:** Drag and Drop, Drag and Drop Objects, In Page Editing, Sliders
- APPLICATION NEEDS TO:** CALL ATTENTION, IMPROVE READABILITY, GROUP RELATED ITEMS, ORGANIZE SCREEN/PAGE

Right Screenshot: 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) with an average rating of 7 stars and 7 reviews. Includes a "Write a Review" button.
- 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
- License:** Creative Commons Attribution 2.5 License

A large, gnarled Joshua tree with many spiky green heads against a clear blue sky. The tree's trunk is thick and twisted, with several branches extending upwards and outwards. The spiky heads are a vibrant green color, contrasting with the light blue sky. The overall image has a slightly faded or desaturated appearance.

surfacing vocabulary

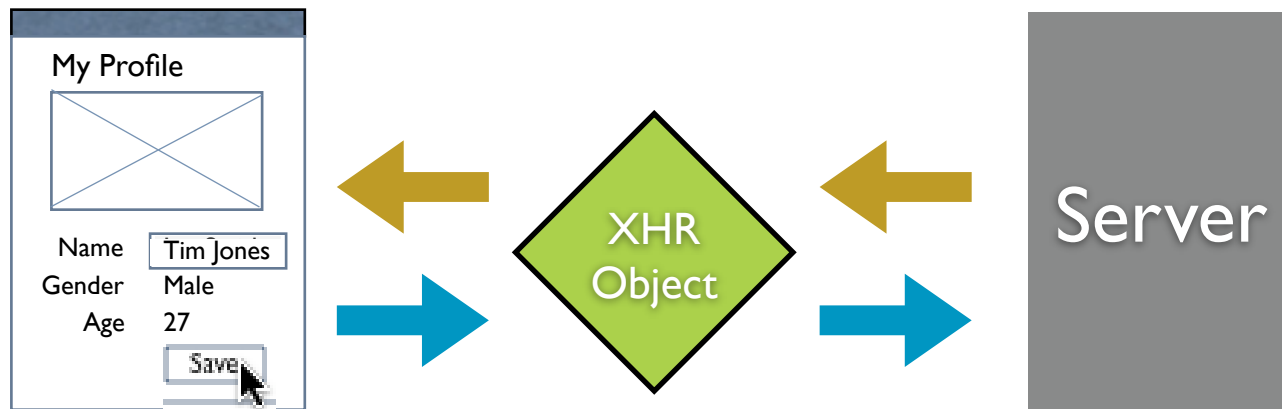
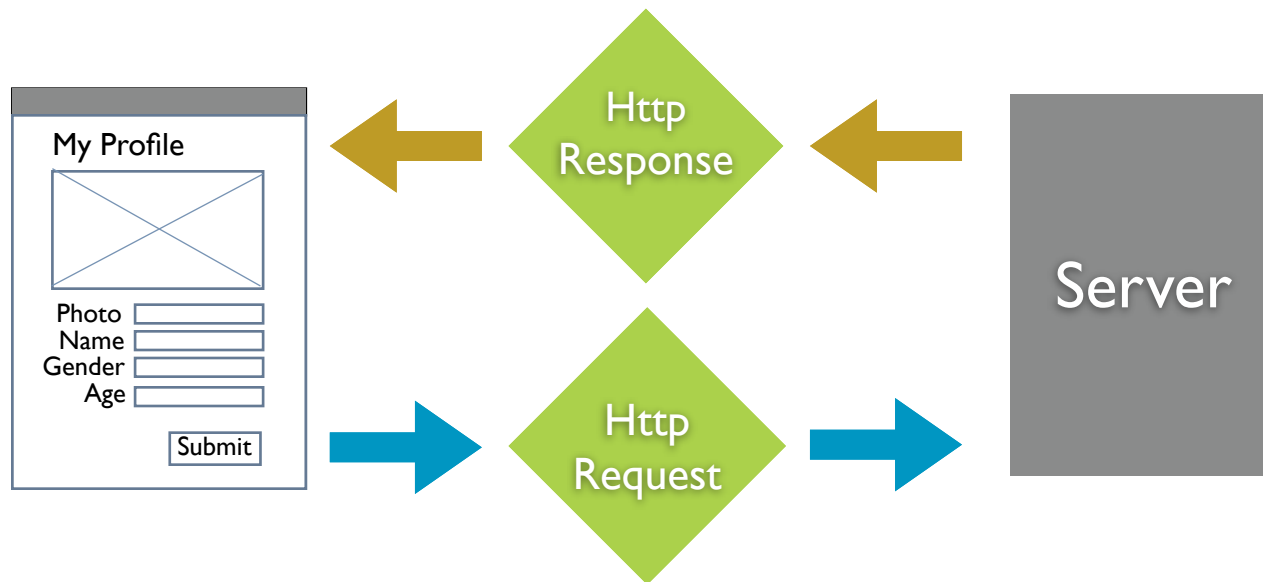
current patterns

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.

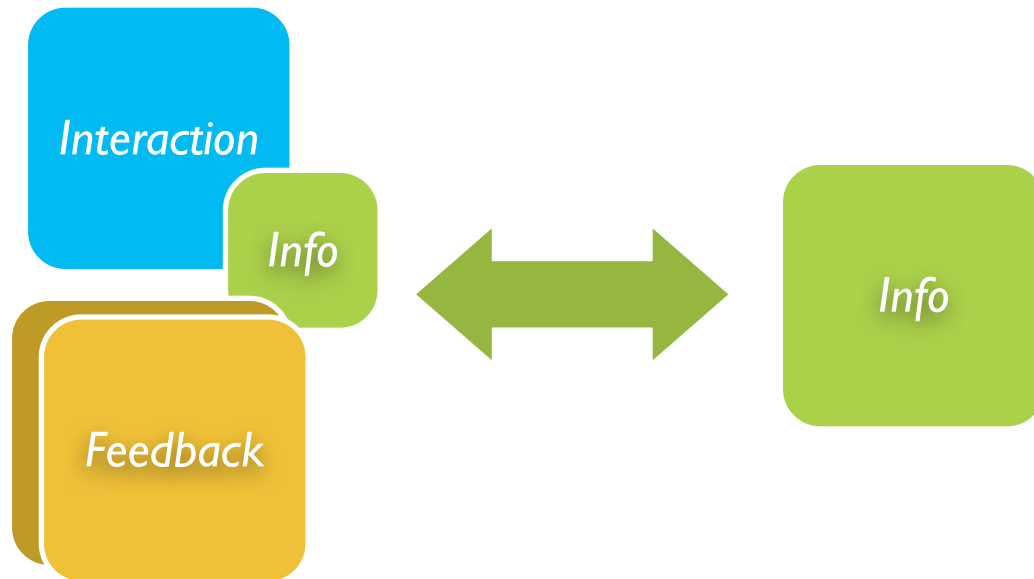
rich patterns

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.

classic model. rich model.



interaction. feedback. information.



information near... rich interaction



Three colored squares are arranged horizontally. The first square on the left is blue and contains the word 'Interaction'. The middle square is orange and contains the word 'Feedback'. The third square on the right is green and contains the word 'Info'.

Interaction

Feedback

Info

design principles for richness

Three colored squares are arranged horizontally. The first square on the left is blue and contains the word 'Interaction'. The middle square is yellow and contains the word 'Feedback'. The third square on the right is green and contains the word 'Info'.

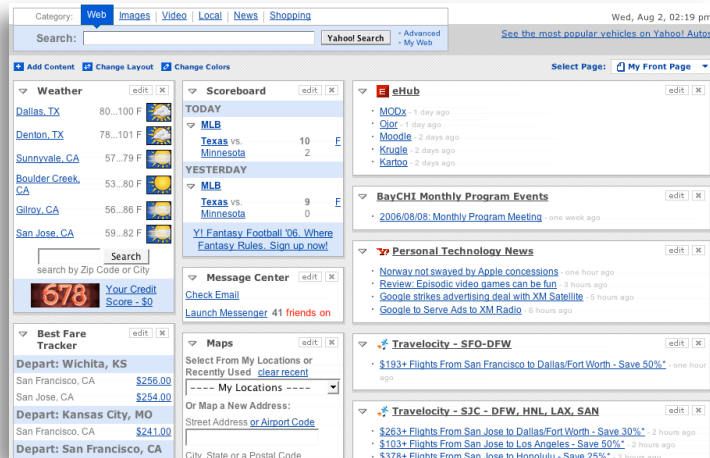
Interaction

Feedback

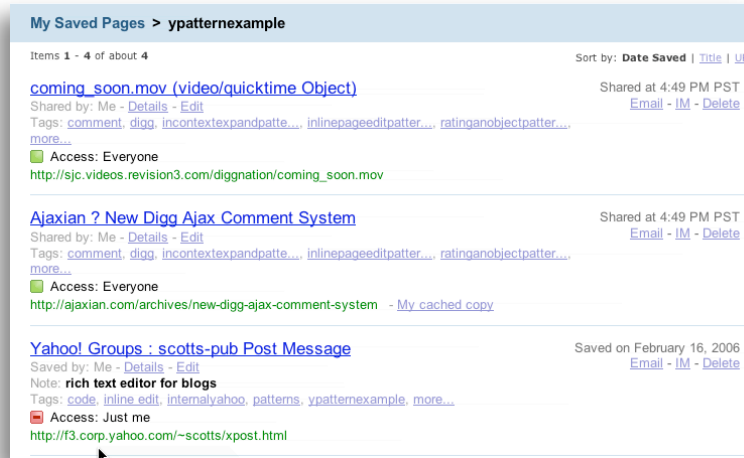
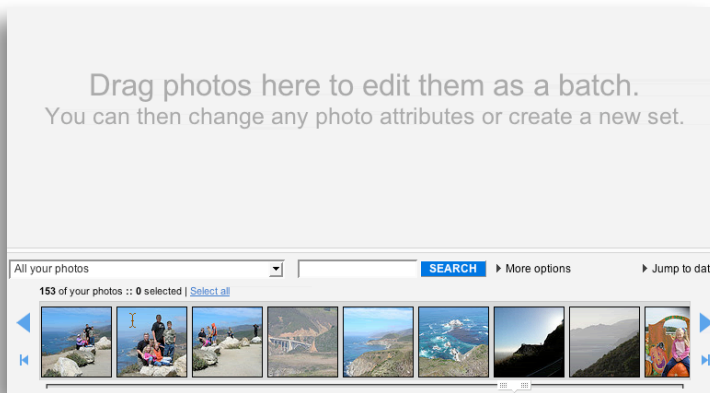
Info

interaction principles

principle. make it direct.



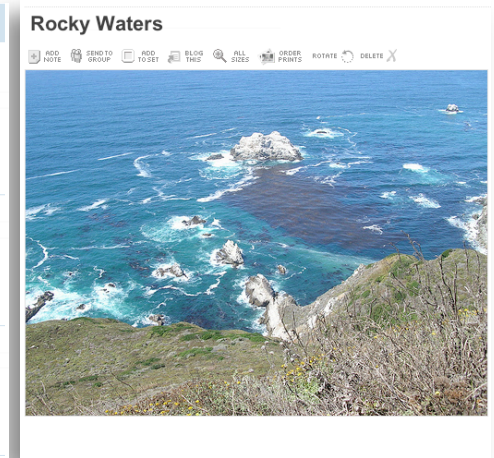
pattern. drag & drop.



pattern. inline editing.



pattern. in-context tools.



Inline Editing

Use inline forms where possible

Use lightweight popups for ancillary information



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

SAVE OR **CANCEL**

Scheduled Items

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

Yosemite Lodge [View](#) | [Delete](#)

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

559-252-4848

Yosemite Natl Pk, CA 95389

United States

In the valley of Yosemite National Park

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

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

Dates: [\[Add \]](#)

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



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Shared

Tags: [c](#)

[more...](#)

Access

[http://sj](#)

Tunnel View

+1 209 372 1000

Wawona Rd

Yosemite National Park, CA 95389

United States

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



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

Shared at 4:49 PM PST

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

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

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

Access: Everyone

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

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

Saved on February 16, 2006

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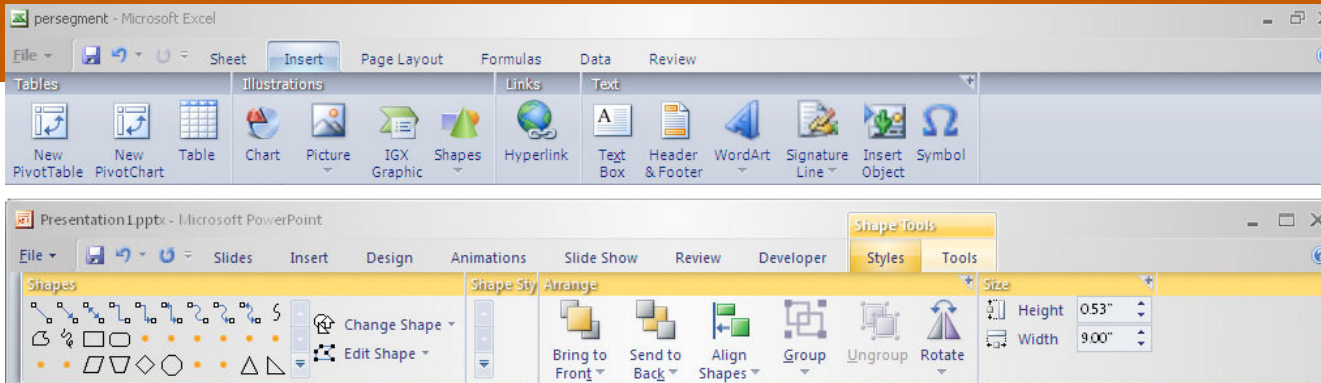
Note: **rich text editor for blogs**

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

Access: Just me

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

make it direct

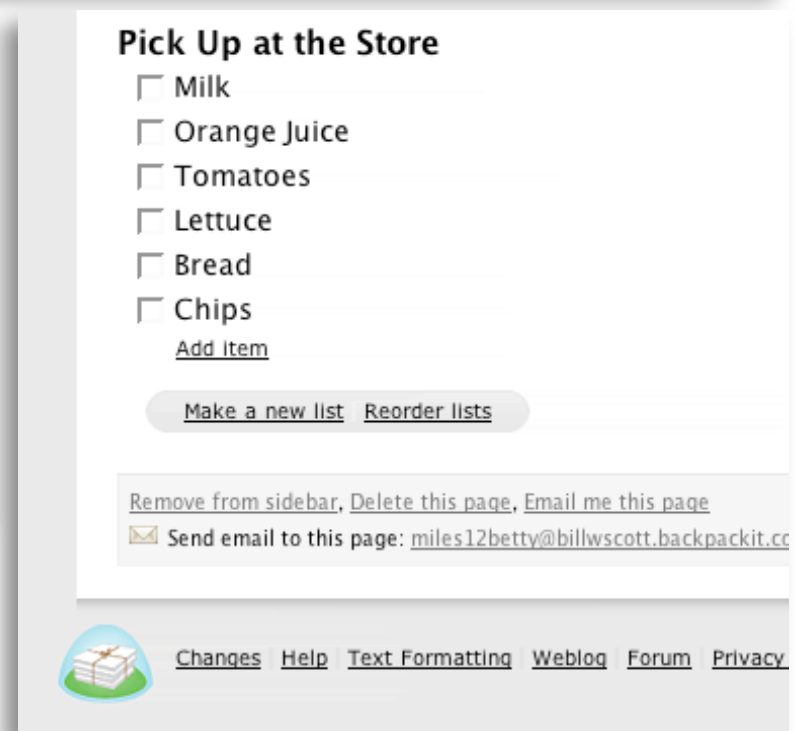


In-context tools

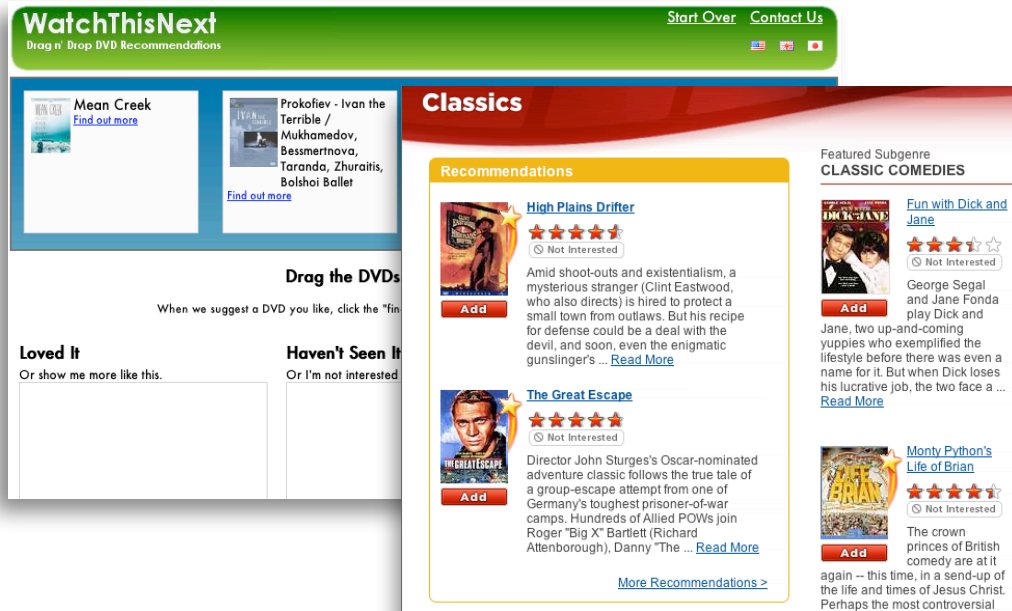
Same as context menus

Only good for single operations

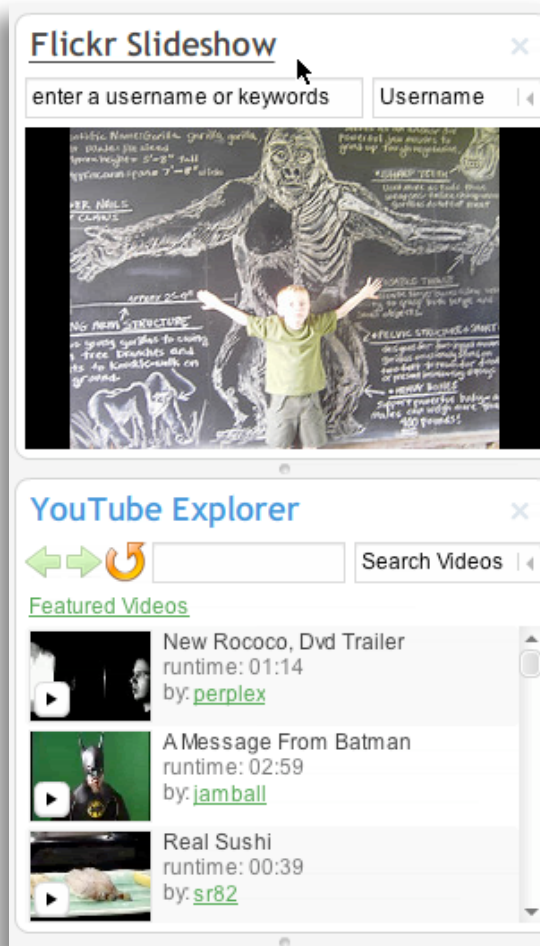
Can actually slow you down



make it direct



Use Drag & Drop where appropriate
Not for simply setting an attribute
Don't construct artificial visual constructs



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 Drag & Drop where appropriate

Not for simply setting an attribute
 Don't construct artificial visual constructs
 Good for layout changes
 Needs transitions

Search: Search

Hello Bill [Sign Out, My Account] 44° - 69°

[Add Content](#) [Change Layout](#) [Change Colors](#)

Best Fare Tracker [edit](#) [x](#)

Depart: New York, NY - all
Paris, France - all

Depart: Seattle/Tacoma, WA
Honolulu, HI

Depart: San Francisco, CA
London, United Kingdom - all

Find other Best Fares:

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* Some taxes and fees additional.
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Weather [edit](#) [x](#)

Dallas, TX	49...62 F	
Denton, TX	47...61 F	
Sunnyvale, CA*	44...69 F	
Boulder Creek, CA*	40...67 F	
Gilroy, CA*	41...68 F	

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Depart: New York, NY - all
Paris, France - all \$193.00

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Honolulu, HI \$529.60

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London, United Kingdom - all \$252.00

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Hello Bill [Sign Out, My Account] 44° - 69°

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Message Center [edit](#) [x](#)

Check Email New mail

Launch Messenger 28 friends on

Scoreboard [edit](#) [x](#)

TODAY
no games for selected teams

YESTERDAY

NBA

Memphis vs. Dallas	87 97	F
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Play Fantasy Baseball on Yahoo! Sports

Maps [edit](#) [x](#)

Select From My Locations or Recently Used [clear recent](#)

---- My Locations ----

Or Map a New Address:

Street Address or Airport Code

City, State or a Postal Code

U.S.

principle. keep a light footprint.

pattern. in page action.

282
diggs

[digging 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](#)

ONAL FINANCE

TOOLS & RESEARCH

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0 items in [my bag](#)

checkout

Pique polo

only at gap.com

overview

you'll also like

Soft cotton pique knit.

Short-sleeved, button neckline.

Need large quantities? Click for Corporate Apparel

100% Cotton. Machine wash. imported.

regular

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Buy More and Save

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

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royal grape

\$29.50 \$9.99

add to bag

pattern. rating an object.

RECOMMEND THIS STORY

Recommend It:

Average (63 votes)

☆☆☆☆☆

★★★★★

Classics

Recommended

Featured Subgenre

CLASSIC COMEDIES

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](#)

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](#)

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](#)

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

pattern. remembered collections.

Remove the “pain points”


Shorten the path

Keep actions immediate and light

Use hover, blur, focus; avoid heavy events


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](#)



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Featured Subgenre
CLASSIC COMEDIES



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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

[More Recommendations >](#)

282 diggs

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

Fixing the Mighty Mouse

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.

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

Create free listing

1. Choose category **2. Write listing** 3. Preview 4. Activate

You can edit every part of the listing directly by clicking on it. The print preview shows you how the printed listing will look in the Fundgrueb newspaper. Click on 'Continue', if all the fields marked * have been completed and you like the listing.

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Set price *

Add short description *

Add contact data and article location *

Date added: 16.12.2006

Detailed description

Add text (Appears only in the Internet listing)

Additional pictures

Add picture

Hint: you may add at most 4 pictures.

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Enter the article site in the form on the left to enable your listing to be displayed on the map.

Map showing locations: Karlsruhe, Pforzheim, Stuttgart, Reutlingen, Ulm, Mulhouse, Basel, Zurich, Vaduz, Bern, Lausanne, Geneva, Monza, Bergamo, Milano, Novara, Torino, Reggionella Emilia.

select Color: khaki \$2.50

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also in tall (prices may vary)

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size chart more details

khaki \$42.50

add to bag

stressfree classic fit flat front khakis Imported. exclusive colors

Q more views

Design for engagement

Use invitations & feedback

Treat it like an impulse aisle

Theory of fun
(Kathy Sierra stuff)

The Critics:
B-
[14 reviews](#)

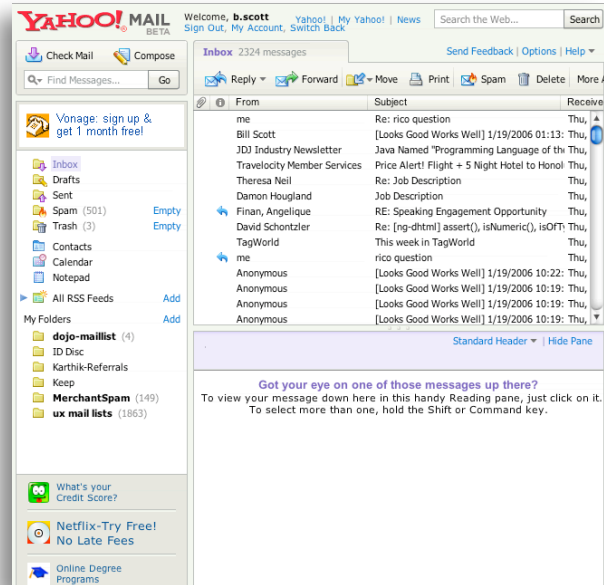
My Grade:
Rate this Movie!
Select grade to the right
[write a review](#)

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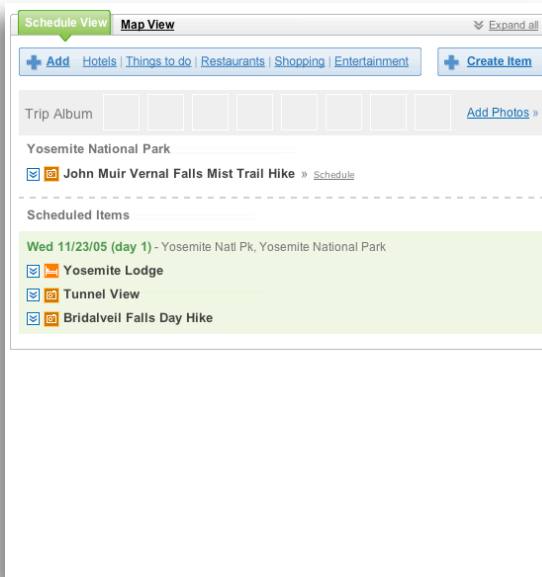
Yahoo! Users:
B+
[13199 ratings](#)

principle. cross borders reluctantly.

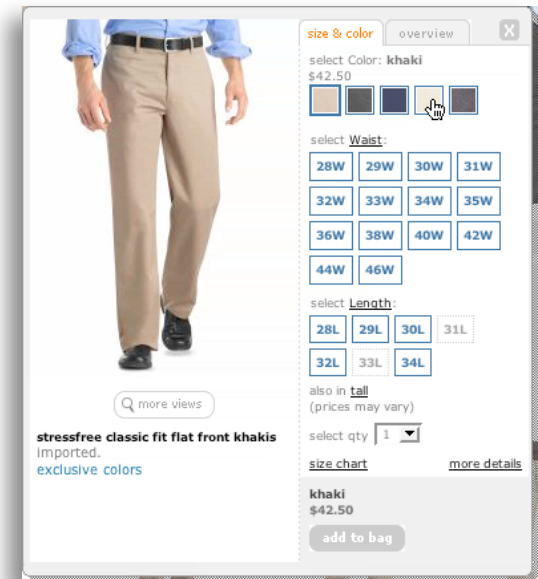
pattern. on-demand scrolling.



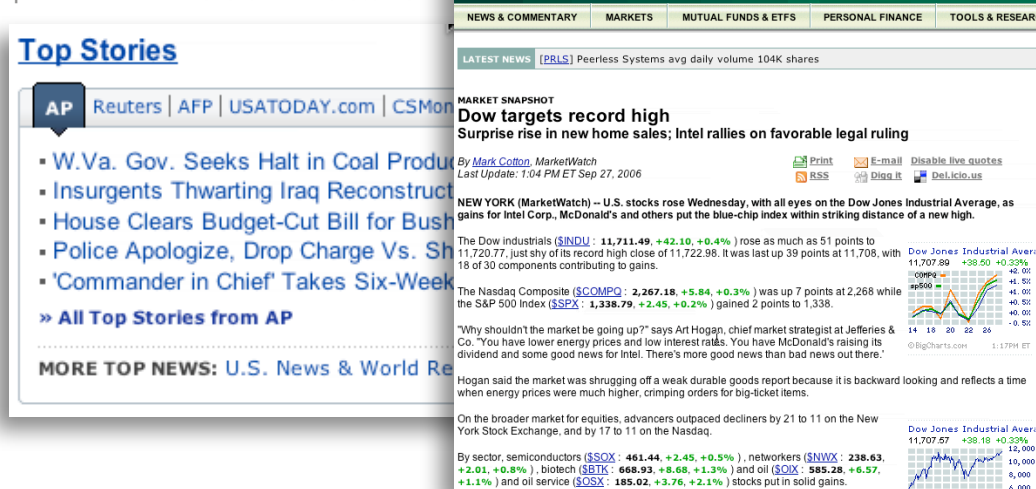
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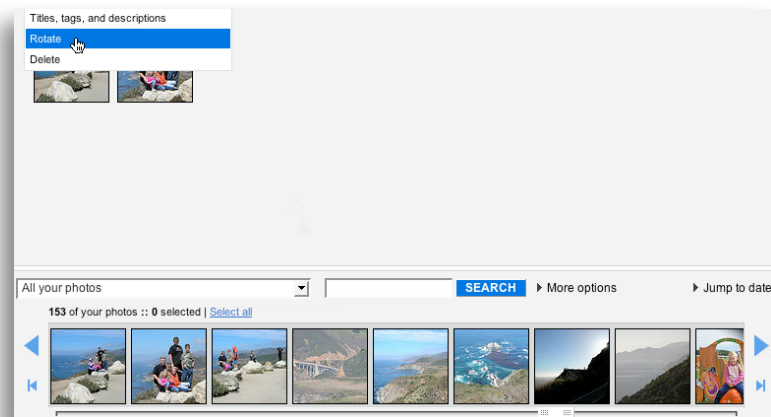
pattern. inline assistant.



pattern. hover details.



pattern. lightweight popup + lightbox.



Rethink process flows

It's the user's mental model, not the page model

Every page jump is a mental speed bump

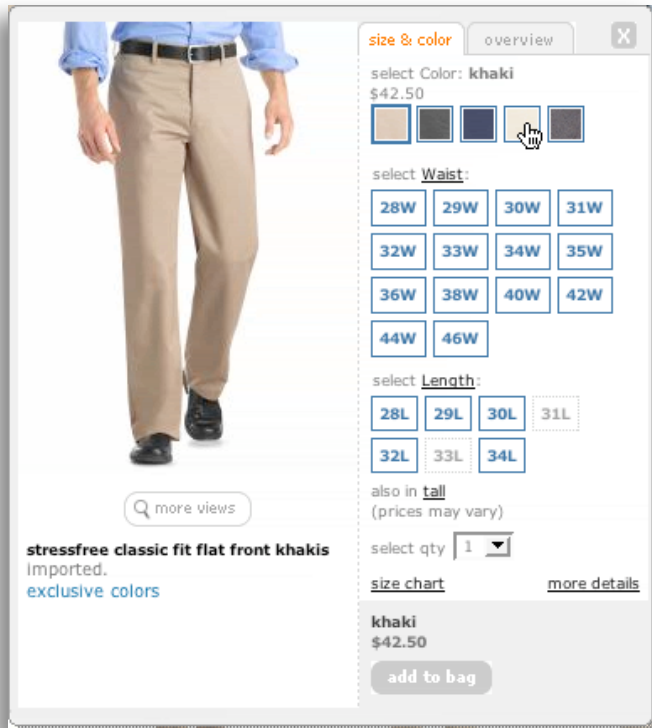


Photo Click for info	Price	Bd/Ba Sq Ft	Address and Area Presented By	MLS # (Click for info)	More Photos (Click for view)	Virtual Tours (Click for view)
	\$1,750,000 Single Res	6+, 4+ 3700	14080 BEAR CREEK RD Boulder Creek, CA 95006 (San Lorenzo Valley) Schwarzbach Associates	550701	 MULTI	 TOUR
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	\$2,286,000 Single Res	5, 4+ 4800	20930 PANORAMA DR Los Gatos, CA 95033 (Los Gatos Mtns) Alain Pinel Realtors	604907	 MULTI	 TOUR
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	\$2,777,000 Single Res	5, 4+ 5819	777 HAPPY VALLEY RD Scotts Valley, CA 95065 (Scotts Valley) Linda Burroughs Real Estate	616474	 MULTI	 TOUR






New Search << Previous Next >>

RICO AJAX SEARCH
LiveGrid Demonstration Powered by Yahoo! Search

Select Search Category: Web **Images** Videos

Search Images: Search Yahoo!


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 fnt - 0.3MB
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	flowers 045 flowers041.jpg 277k 29Feb2004 flowers042.jpg 125k 29Feb2004 flowers043.jpg 744k http://wp.li.ru/flowers 1024x768 - jpeg fnt - 0.1MB
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Re-think paging

Use scrolling for “owned” data
Watch out for dual scroll bar issue
Hybrid of paging & scrolling


FEATURED RECIPES




Pear Bruschetta with Hazelnut Cream



Roasted Asparagus with Pine Nuts



Easy Cheesy Stuffed Chicken



Chewy Chocolate Gingerbread Cookies

Page: [1](#) [2](#) [3](#) [4](#)



Getting it off his chest
Zinedine Zidane apologizes for using his head, but says he couldn't stomach slurs toward family. [» Story](#)

- All the rage on the Web
- A denial

Final highlights, including head-butt

[Lonely elephants baffled by post-Katrina life](#)
[Scientists study gorilla habitat](#)
[Some birds stay aloft up to 10 years](#)
[Inflation soaring high](#)
[Fed wants banks to come into compliance](#)
[Life after death - is there proof?](#)

Bill, the following movies were chosen based on your interest in:
[Animal Crackers](#)
[Something the Lord Made](#)
[X2: X-Men](#)

NETFLIX

Browse Recommendations Friends Queue Buy D

Get Recommendations (869) Rate Movies Movies You've Rat

Recommendations
Movie suggestions based on your ratings

NEW RECOMMENDATIONS

Samurai Champloo (7-Disc Series)
★★★★★
Not Interested
Director Shinichiro Watanabe mixes a maturity rarely found in anime with a historical Japanese setting and a funky hip-hop soundtrack. Fuu is a spacey waitress at a teahouse where a sword fight ... [Read More](#)

12 Angry Men
★★★★★
Not Interested
A guilty verdict means death -- but the jury's r day. Twelve men must decide the fate of an 18-year-old boy accused of fatally stabbing his father. Only one (Henry Fonda) wants to take the time to coolly deliberate ... [Read More](#)

[See All Recommendations >>](#)

CLASSICS DRAMA

Transmit 3.5.5.dmg (5.8 MB - 10/11/06 - [Release Notes](#))
Requires Mac OS X 10.3.9. Sessions/Favorites limited after 15 day trial.

download the transmit dashboard widget.
Transmit Widget 2.0.zip (784 KB - 10/18/06 - [Release Notes](#))
Requires Mac OS X 10.4 and Transmit 3

MacMinute
Showtime Award Winner: MWSF 05

Macworld BEST OF SHOW 2005

Apple Design Award
Best Use of Mac OS X Tiger Technologies
2005 Winner

screenshots

more info

What is FTP?
FTP, or File Transfer Protocol, is the universal way to send, receive, and manage your files and folders using the internet. If you manage a web site, need to send a file to a friend running an FTP server, need to post eBay images to a image host, or download a lot of software updates, then Transmit is the perfect program for you: it makes FTP easy and fun!

Helpful Tip
◀ **Seen any of these movies?**
★★★★★

Use Overlays

For more information

Replace page transition

When editing an individual, more complex item

Be symmetrical

Try not to disturb the page



Home



Prints & Gifts



View Cart



Settings



Help ▼

[+ Upload Photos](#)



All My Photos



My Albums



Paris06



My Tags



My Friends' Photos

All My Photos

Slideshow

Create ▼

Share ▼

Edit ▼

Prints & Gifts ▼

Drag photos into this tray and choose a task above.

Sort by: [Date](#) ▼



Sunset



Underneath



View from the Top



Eiffel Pulley



From Second Floor Up



Eiffel Tower

Friendly advice for photo sharing.



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](#)

My Saved Pages > ypatternexample

Items 1 - 4 of about 4 Sort by: **Date Saved** | [Title](#) | [URL](#)

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

Stock Market [edit](#) [x](#)

TSG	31.89	-0.01 (-0.03%)
DJIA	12445.52	+28.76 (0.23%)
NASDAQ	2457.20	+3.35 (0.14%)
NYSE	9140.39	-6.81 (-0.07%)
S&P 500	1427.09	+1.60 (0.11%)

Delayed at least 15 minutes unless otherwise indicated. [Disclaimer](#)

Use in-context expands

For editing part of a collection
 Need to see surrounding context
 For managing content modules

Use real-estate creatively

Use slideouts

Use in-place zoom

Remember the backstage

The collage illustrates several web application interfaces:

- FiveRuns Corporation System Browser:** A dashboard with a top navigation bar (Global View, System Browser, Events, Reports, Settings, Users, Your Profile) and a sidebar with a list of system components (Linux, Mac OS X, MySQL, Apache, as1, db1, web1.fiveruns.com, web2.fiveruns.com, db2.fiveruns.com). The main content area shows a list of events with a 'View: All | Events Only' filter and a '24 hours' time range. A 'Lightbox view' is shown for the 'web1.fiveruns.com' event, displaying a graph of '% User Mode CPU per App'.
- Featured Entertainment Section:** A slideout menu with categories like 'Featured', 'Entertainment', 'Sports', and 'Money'. The 'Entertainment' section is active, showing a 'Panda pics' slideout with a 'Webcams' link. The main content area features a 'Animal cams gone wild' article with a 'More' link and a 'Panda pics' link.
- Hi, b.scott Sign Out:** A user profile section with a 'Sign Out' link and a 'Mail' link. Below the profile is a table of recent emails:

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

Below the email table are links for 'Weather 59° - 88°', 'Local', and 'Movies'.

prefer direct,
lightweight,
in-page interaction



Interaction

Feedback

Info

feedback principles

principle. give live feedback.

pattern. **live suggest.**

Ask Your Question

- 1. Enter your question**

You can ask 5 more questions today.

You have 110 characters to work with. Add details below.
- 2. Add details (optional)**

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









You have 1000 characters to work with.

pattern. **auto complete.**

To: [Show BCC](#)

Cc:

Subject: [Plain Text](#)

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



The screenshot shows the Kayak.com homepage. At the top is the Kayak logo, an orange stylized 'Y' shape. Below it, the text 'KAYAK™' is displayed in a large, black, sans-serif font. To the right of the logo, the tagline 'Search with us, book with them.™' is written in a smaller, black, sans-serif font. Below the tagline, there are five navigation links: 'Flights', 'Hotels', 'Cars', 'Deals', and 'Best Fare Buzz'. The 'Flights' link is underlined, and the others are not. Below the navigation links, there are three radio buttons for selecting the type of trip: 'Round-trip', 'One-way', and 'Multi-city'. The 'Round-trip' radio button is selected. Below the radio buttons, there are two columns for flight search. The left column has a 'From' label, a text input field with a dropdown arrow, a checked checkbox for 'Show Nearby Airports', a 'Leave' label, a date input field showing '2/15/2006' with a calendar icon, a 'Time' label, and a dropdown menu showing 'Anytime'. The right column has a 'To' label, a text input field with a dropdown arrow, a checked checkbox for 'Show Nearby Airports', a 'Return' label, a date input field showing '2/22/2006' with a calendar icon, a 'Time' label, and a dropdown menu showing 'Anytime'. Below these columns, there are two more sections: 'Travelers' with a dropdown menu showing '1' and 'Prefer Nonstop' with an unchecked checkbox. At the bottom, there is a search button labeled 'Search multiple sites' and a link 'for hundreds of airlines.'.

pattern. **busy** indicator.

Check Mail Compose

from: darren

Stop

pattern. **live** previews.

Find a domain name:

www.

(ex. widgetdesigns.com)

pattern. **periodic refresh.**

Get Quote: Find symbol
 Search: Advanced search

NEWS & COMMENTARY | MARKETS | MUTUAL FUNDS & ETFs | PERSONAL FINANCE | TOOLS & RESEARCH

LATEST NEWS [MCD] UBS ups McDonald's price target to \$46 from \$44

MARKET SNAPSHOT

Dow targets record high

Surprise rise in new home sales; Intel rallies on favorable legal ruling

By [Mark Colton](#), MarketWatch
Last Update: 1:04 PM ET Sep 27, 2006

Print
 E-mail
 [Disable live quotes](#)

RSS
 Digg it
 Delicious

NEW YORK (MarketWatch) -- U.S. stocks rose Wednesday, with all eyes on the Dow Jones Industrial Average, as gains for Intel Corp., McDonald's and others put the blue-chip index within striking distance of a new high.

The Dow industrials ([**\\$INDU**](#)) : **11,709.25**, +**39.86**, +**0.3%**) rose as much as 51 points to 11,720.77, just shy of its record high close of 11,722.98. It was last up 39 points at 11,708, with 18 of 30 components contributing to gains.

The Nasdaq Composite ([**\\$COMPQ**](#)) : **2,267.12**, +**5.78**, +**0.3%**) was up 7 points at 2,268 while the S&P 500 Index ([**\\$SPX**](#)) : **1,338.76**, +**2.42**, +**0.2%**) gained 2 points to 1,338.

"Why shouldn't the market be going up?" says Art Hogan, chief market strategist at Jefferies & Co. "You have lower energy prices and low interest rates. You have McDonald's raising its dividend and some good news for Intel. There's more good news than bad news out there."

Hogan said the market was shrugging off a weak durable goods report because it is backward looking and reflects a time when energy prices were much higher, crimping orders for big-ticket items.

On the broader market for equities, advancers outpaced decliners by 21 to 11 on the New York Stock Exchange, and by 17 to 11 on the Nasdaq.

By sector, semiconductors ([**\\$SOX**](#)) : **461.30**, +**2.31**, +**0.5%**), networkers ([**\\$NWX**](#)) : **238.62**, +**2.00**, +**0.8%**), biotech ([**\\$BTK**](#)) : **668.91**, +**8.66**, +**1.3%**) and oil ([**\\$OIL**](#)) : **585.23**, +**6.52**, +**1.1%**) and oil service ([**\\$OSX**](#)) : **185.03**, +**9.77**, +**2.1%**) stocks put in solid gains.

Dow Jones Industrial Average
11,707.89 +38.50 +0.33%

sp500 +1.0%
compq +0.5%
sp500 -0.5%

©BigCharts.com 1:17PM ET

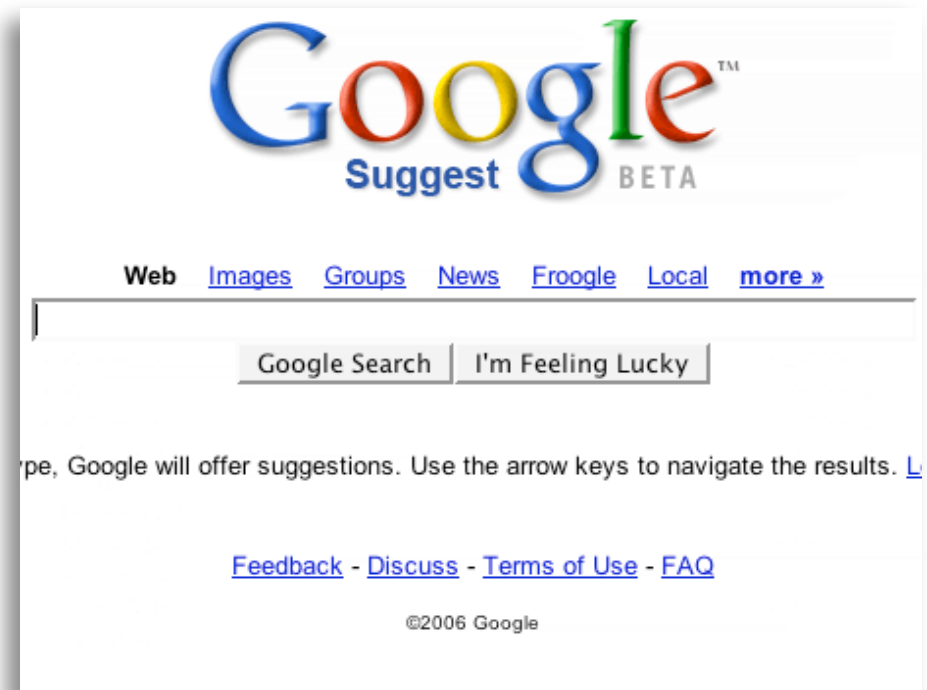
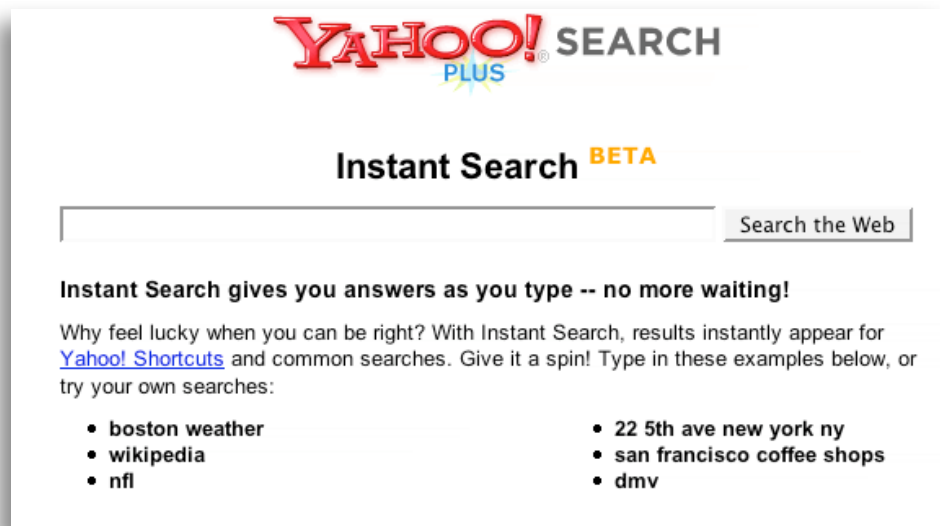
Dow Jones Industrial Average
11,707.57 +38.18 +0.33%

12,000
10,000
8,000

Keep the goal in mind

Design for relevancy

Is it narrowing or distracting



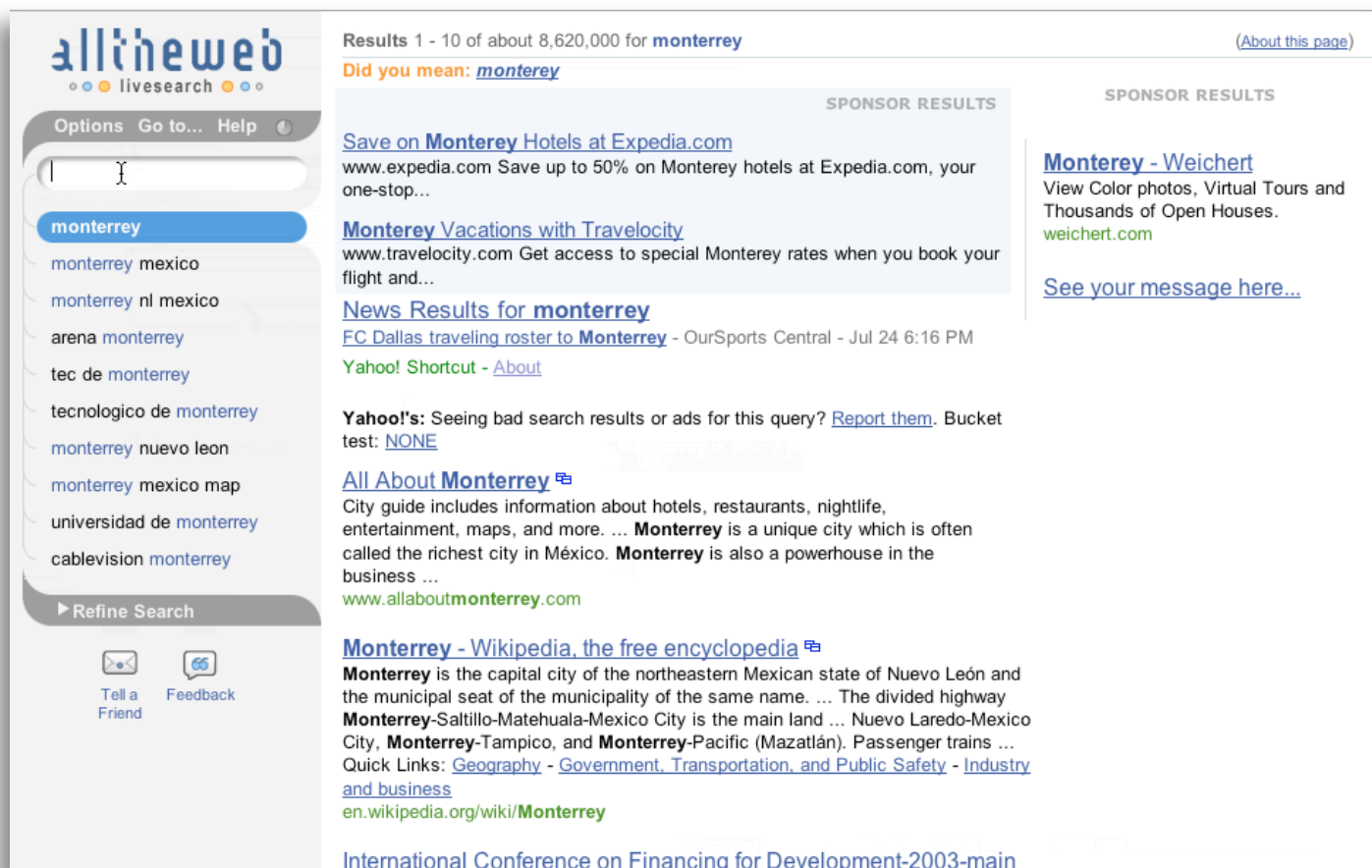
Keep the goal in mind

Design for relevancy

Is it narrowing or distracting?

Use feedback to boost confidence

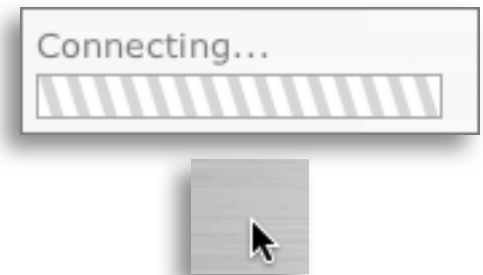
Let the user iterate where possible



Shape user perception

Make time pass faster

Make application feel more responsive



give live feedback



Find a domain name:

www.

(ex. widgetdesigns.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:

[Password strength:](#) Too short

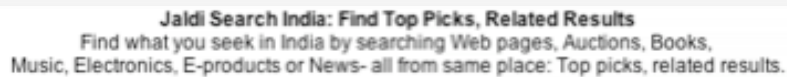
Minimum of 6 characters in length.

Prevent errors before-hand

Ounce of preventive design worth pound of error-handling

Use live-previews

Look before you leap



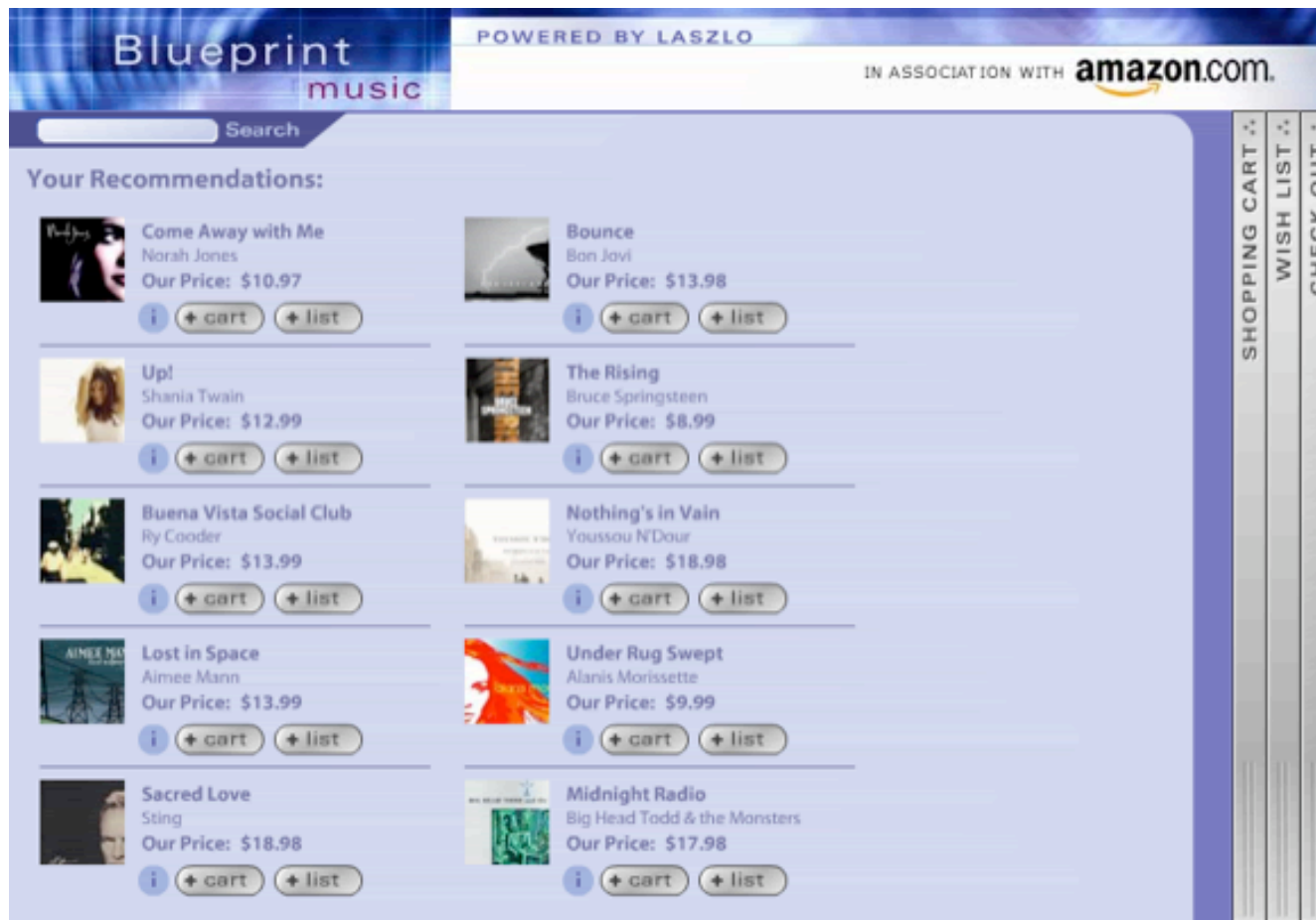
Jaldi Search

Search: [Web pages](#) [Auctions](#) [Books](#) [Music](#) [Electronics](#) [E-products](#) [News](#)

Ajax - search results

- Use laws of proximity in context feedback
- Respect feedback bandwidth
- Reveal relevance just-in-time
- Avoid side-noise (peripheral distractions)





Keep feedback focused

Use laws of proximity in context feedback

Respect feedback bandwidth

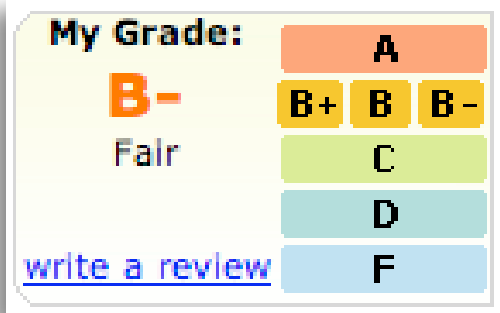
Reveal relevance just-in-time

Avoid side-noise (peripheral distractions)

Use nuance

principle. offer an invitation.

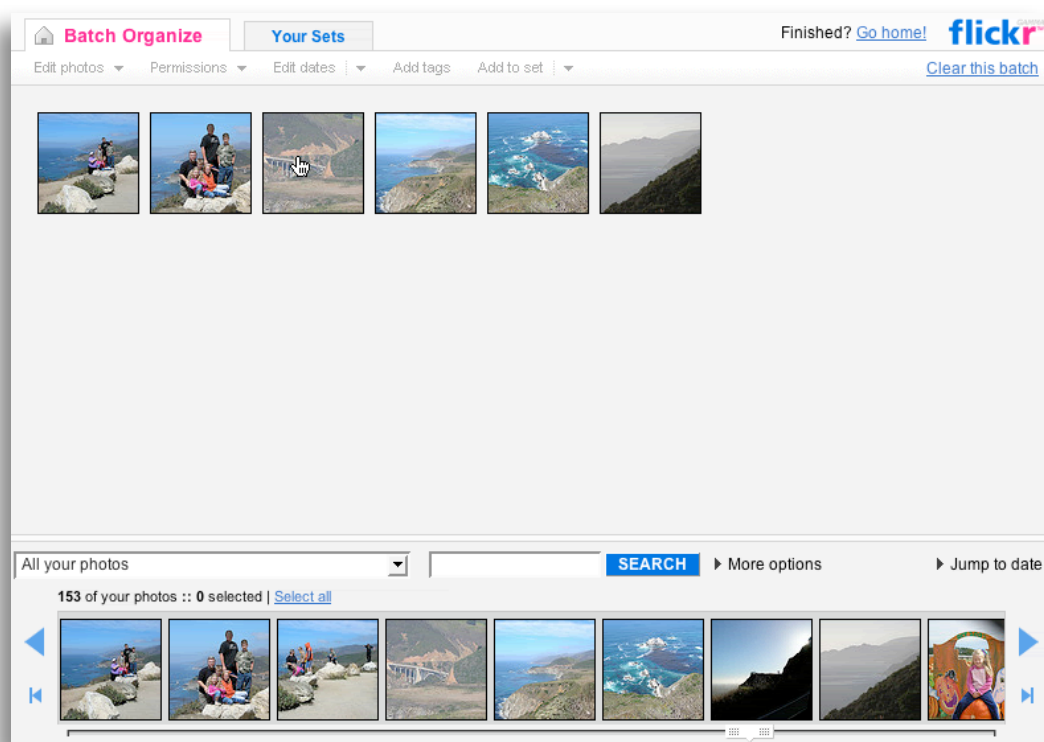
pattern. **hover** invitation.



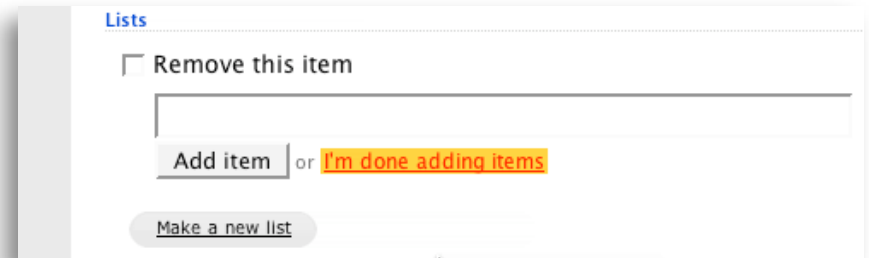
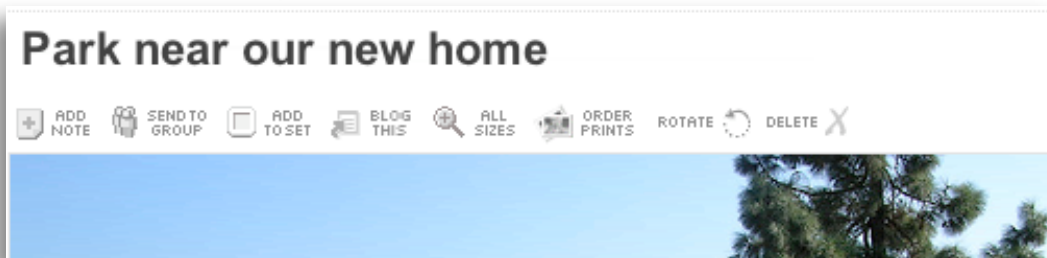
pattern. **tour** invitation.



pattern. **drop** invitation.



pattern. **tooltip** invitation + **hover** invitation + **cursor** invitation.



Discoverability

No easy answer

Use the hover to reveal interaction

Use the familiar to teach the new

Tours are generally a band-aid

Can't flag all interactions



State park near our home in San Jose

Click to edit

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

Photos are from
22 Oct 05.

Pick Up at the Store

	Edit	<input type="checkbox"/> Chips
	Edit	<input type="checkbox"/> Orange Juice2
	Edit	<input type="checkbox"/> Milk
	Edit	<input type="checkbox"/> Bread
	Edit	<input type="checkbox"/> Tomatoes
	Edit	<input type="checkbox"/> Lettuce

[Add item](#) [Reorder](#)

Lists

☐ Remove this item

or **I'm done adding items**

[Make a new list](#)

1 Search Smarter... 2 Find it Faster... 3 Get Personal. [Next »](#) [Close](#)

Switch to old page Yahoo! Tech: TV tune-up makeover. Sponsored by Verizon Wireless.

YAHOO! Web | Images | Video | Audio | Directory | Local | News | Shopping

Search: [Web Search](#)

[My Yahoo!](#) [My Mail](#)

[Yahoo! Answers: Ask a question](#) | [Answer questions](#)

Page Options

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

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

[Weather 59° - 88°](#) [Local](#) [Movies](#)

[More](#)

Search smarter

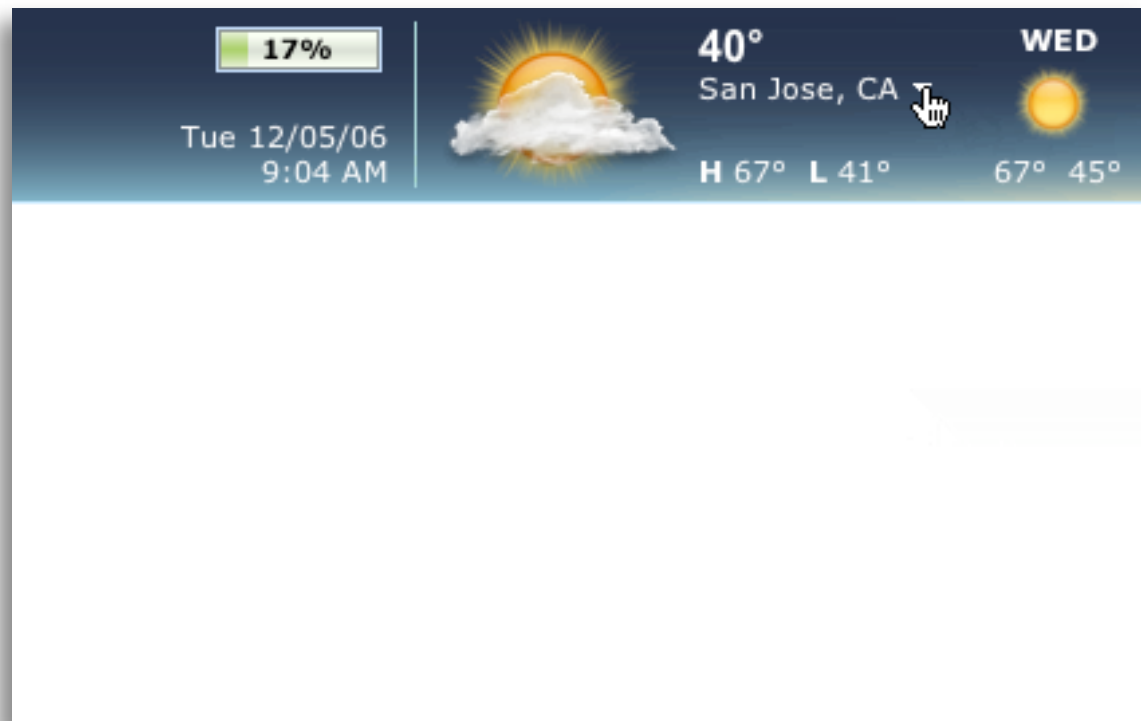
Find things faster and easier with handy tabs to narrow your search

- Search the Web on any topic
- Click a tab to focus your search on Images, Video, Local and more
- Try Yahoo! Answers: A new place to get real answers from real people

[Next »](#)

PEPSI COOL TONES AND MOTOROLA PHONES

[More Featured](#)



A weather widget for San Jose, CA. It features a dark blue header with a battery level indicator (17%) on the left, a sun and cloud icon in the center, and temperature information on the right. The temperature is 40° with a high of 67° and a low of 41°. The date is Tue 12/05/06 at 9:04 AM. A mouse cursor is hovering over the location 'San Jose, CA'.

- [Donovan who? Garcia leads Eagles to win \(AP\)](#)
- [Arenas, Wizards end Mavs' winning streak \(AP\)](#)
- [Turco, Stars end Sharks winning streak \(AP\)](#)
- [No. 11 Wisconsin beats Winthrop in OT \(AP\)](#)
- [Redskins place faith in Suisham after releasing Novak \(Reuters\)](#)

Bridge the new with the old

Hyperlinks as actions

Reveal with hovers

Drop down clues



A shopping list form titled 'Pick Up at the Store'. It contains a list of items with checkboxes: Milk, Orange Juice, Tomatoes, Lettuce, Bread, and Chips. A mouse cursor is hovering over the 'Milk' checkbox.











A comment form. It features a profile picture of a person wearing sunglasses and a hat. The text 'lantzilla pro says:' is followed by a truncated comment '...with biscuits and gravy and all the fixins...'. Below this, it says 'Posted 16 hours ago. ([permalink](#))'. There is a text input field with the placeholder 'Add your comment' and a mouse cursor hovering over it. At the bottom, it says '(Some HTML is OK.)'.


offer an invitation

My Grade:

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

Park near our new home

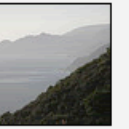

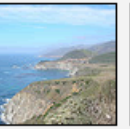



 ADD NOTE  SEND TO GROUP  ADD TO SET  BLOG THIS  ALL SIZES  ORDER PRINTS  ROTATE  DELETE X



[Batch Organize](#) [Your Sets](#)


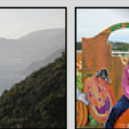
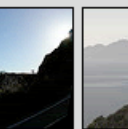




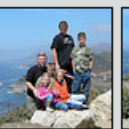

Finished? [Go home!](#) **flickr**

Edit photos ▾ Permissions ▾ Edit dates ▾ Add tags Add to set ▾ [Clear this batch](#)



All your photos ▾ **SEARCH** ▸ More options ▸ Jump to date

153 of your photos :: 0 selected | [Select all](#)

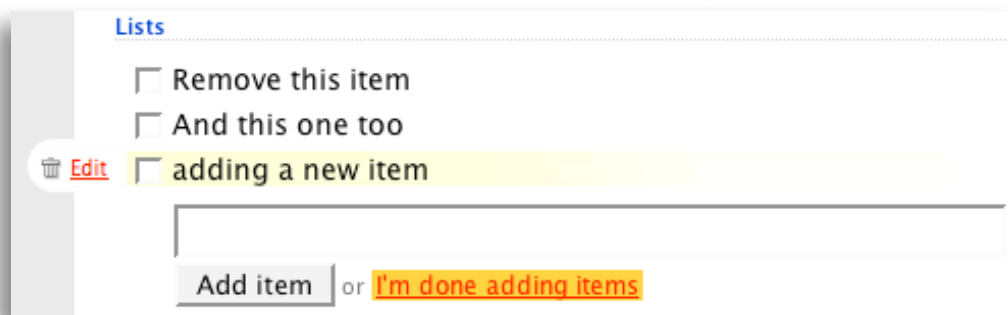


Make it inviting

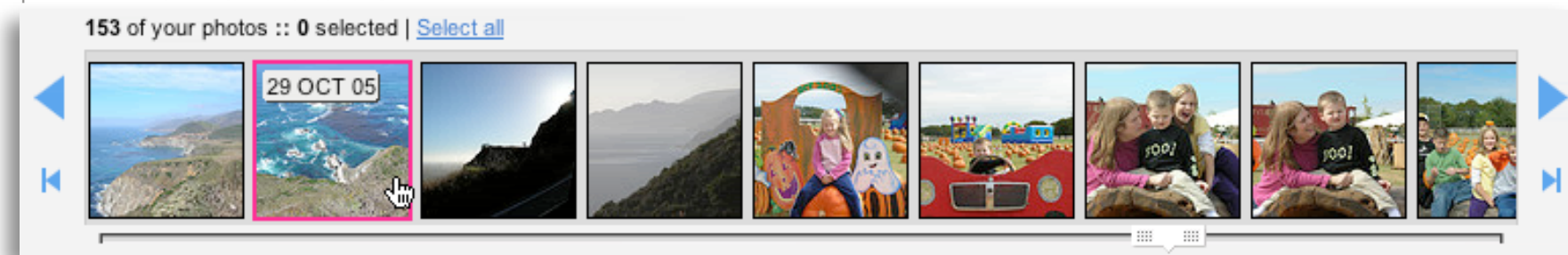
Treat it as a welcome mat
Use hover, cursor, tooltip, and page
Keep the noise down

principle. show transitions.

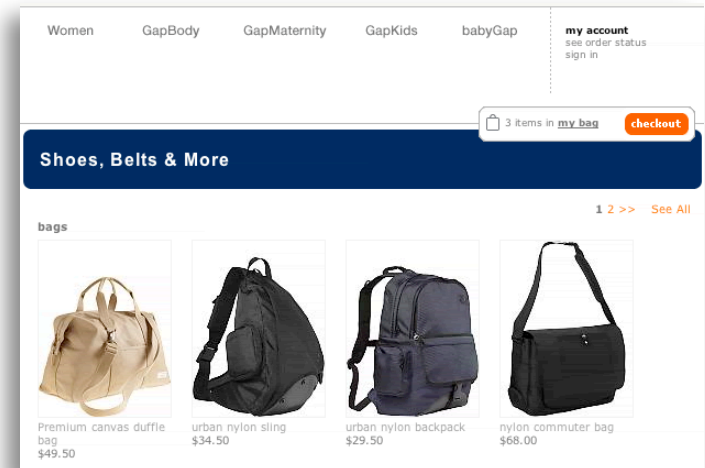
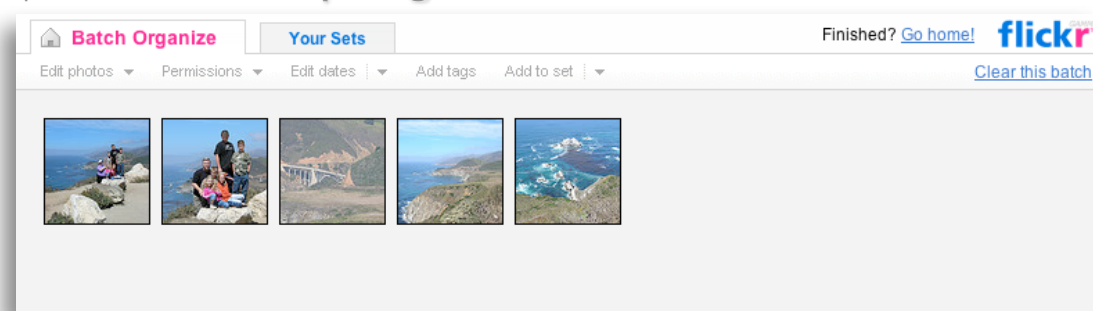
pattern. **fade transition** + self-healing transition.



pattern. **slide transition**.



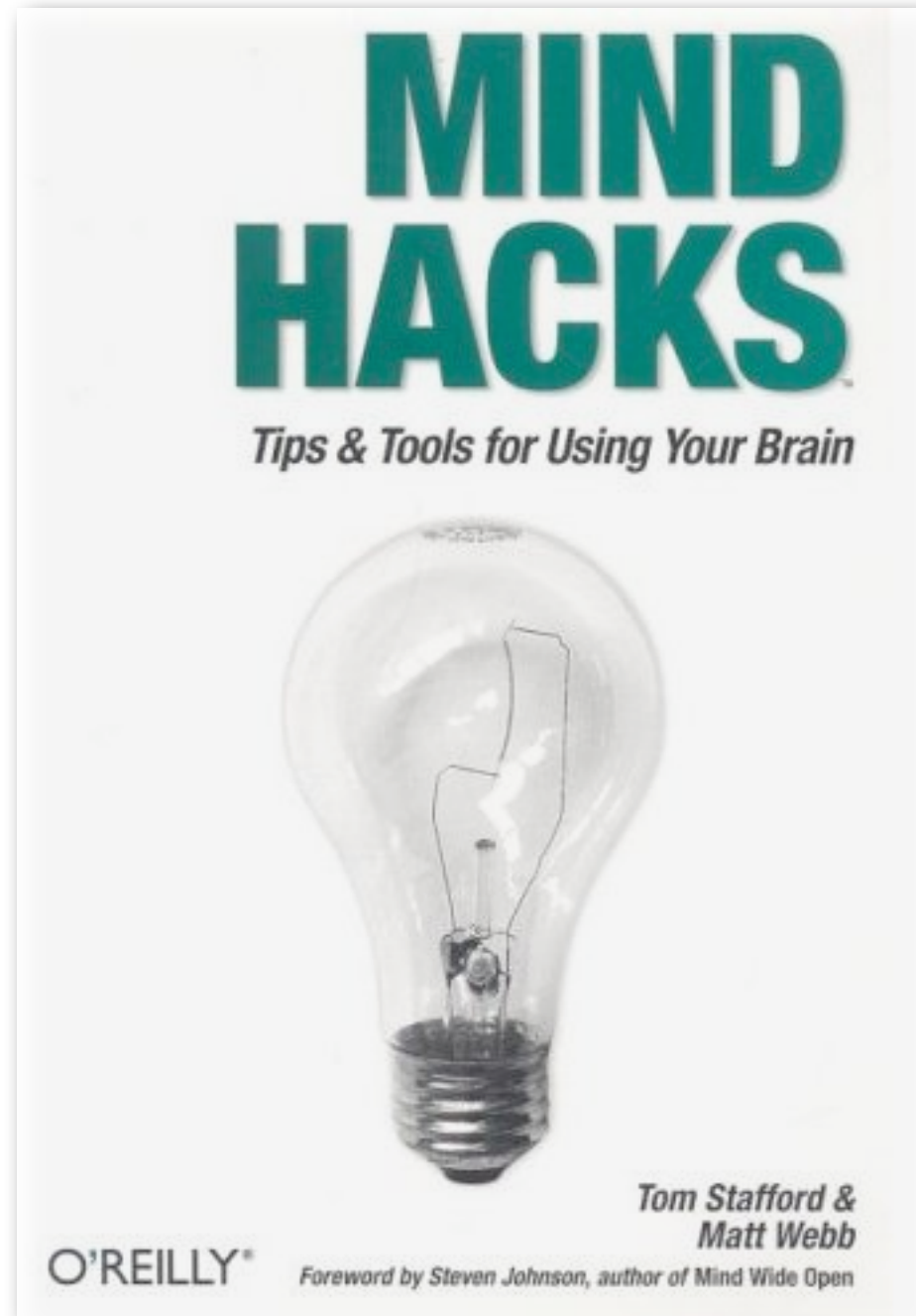
pattern. **active spotlight**.



pattern. **zoom box**.

Speak to the brain

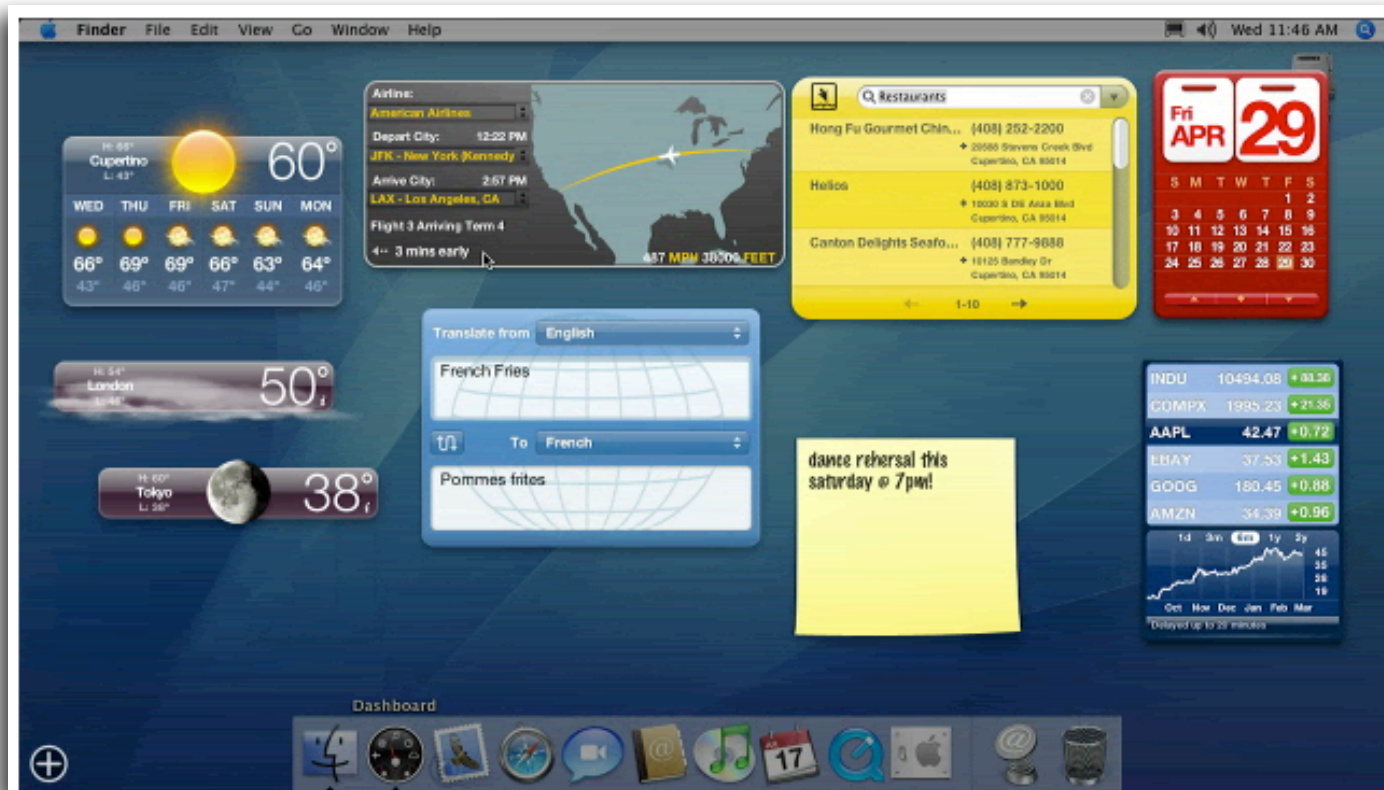
Understanding attention processing



Speak to the brain

Understanding attention processing

Sending the wrong message



What you can communicate...

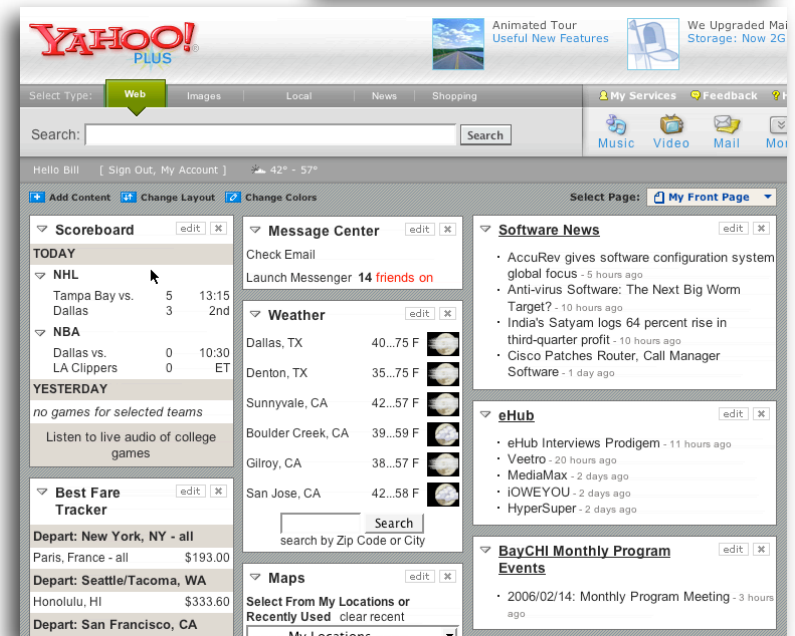
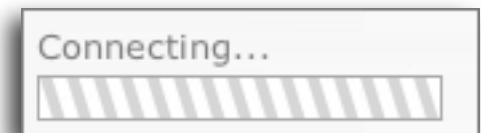
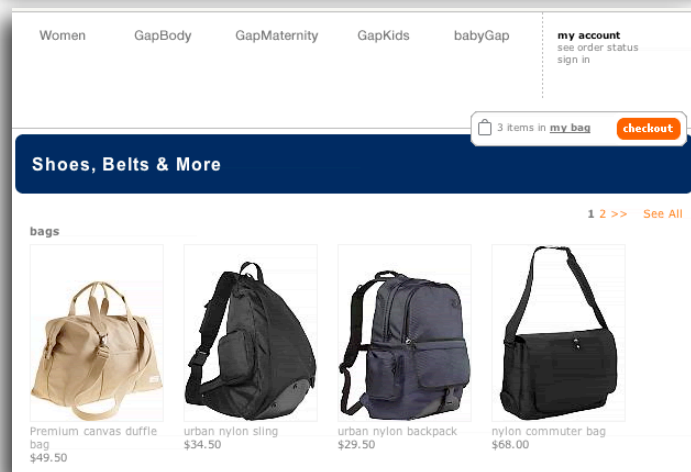
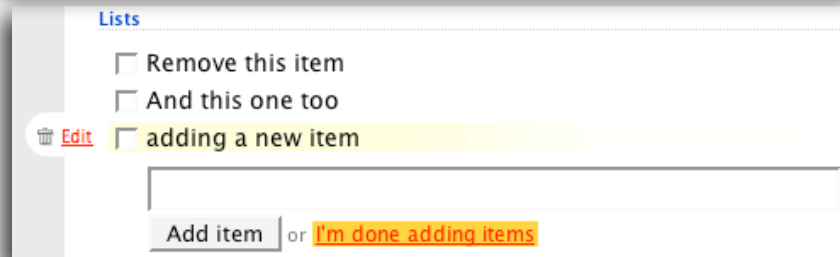
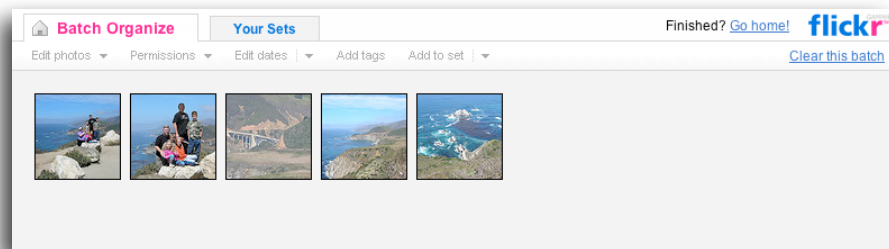
Speed up time

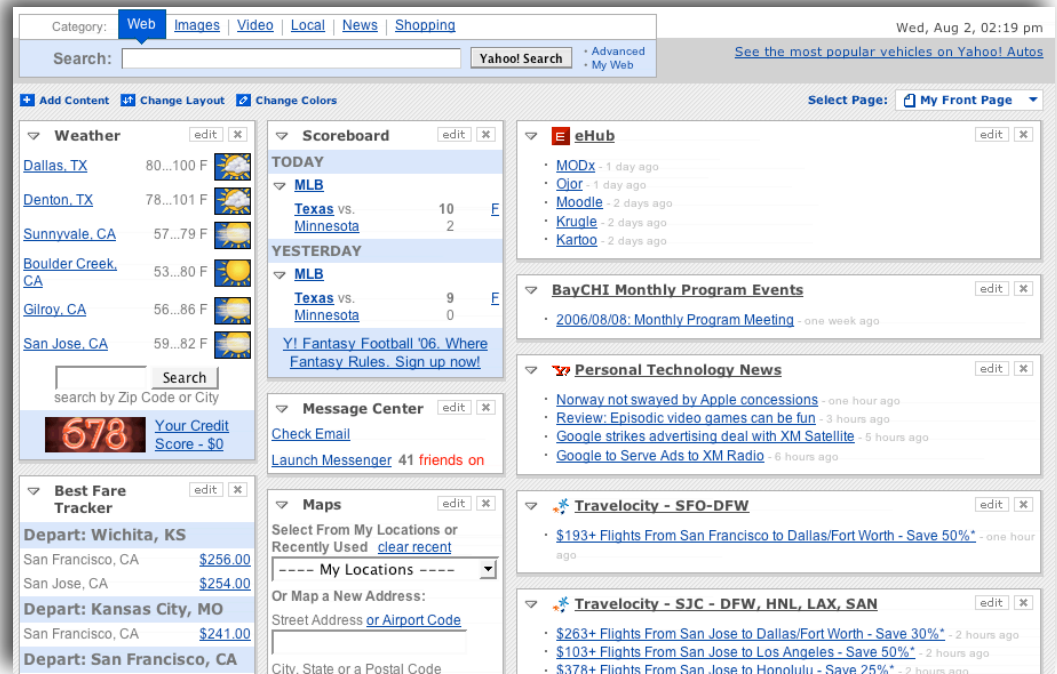
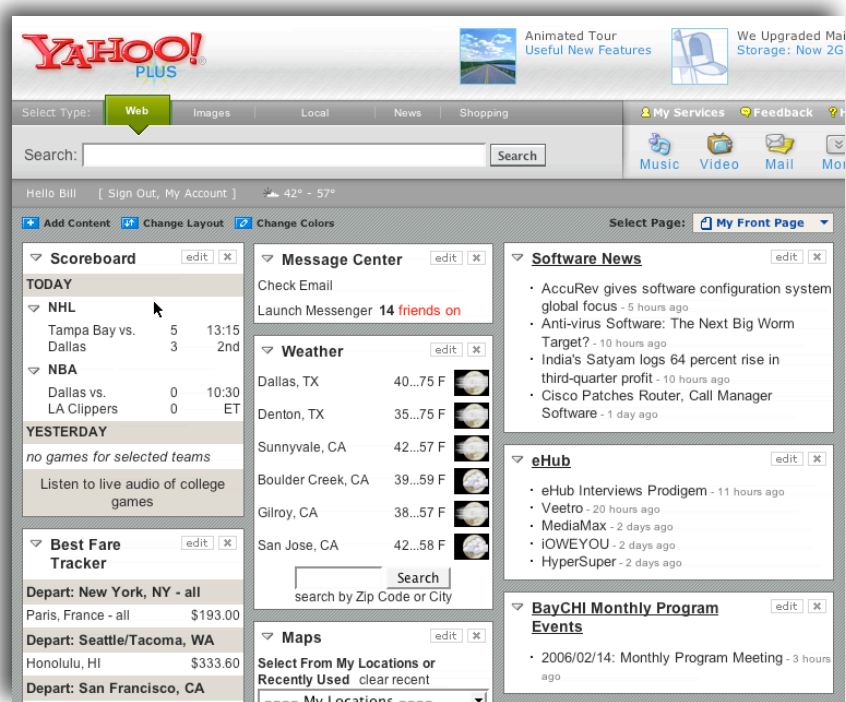
Slow down interaction

Show state change

Show relationships between objects

Focus attention





Keep it sane
 “Cut it in-half” rule of thumb
 Use “contrast knob” approach
 Don’t overuse

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



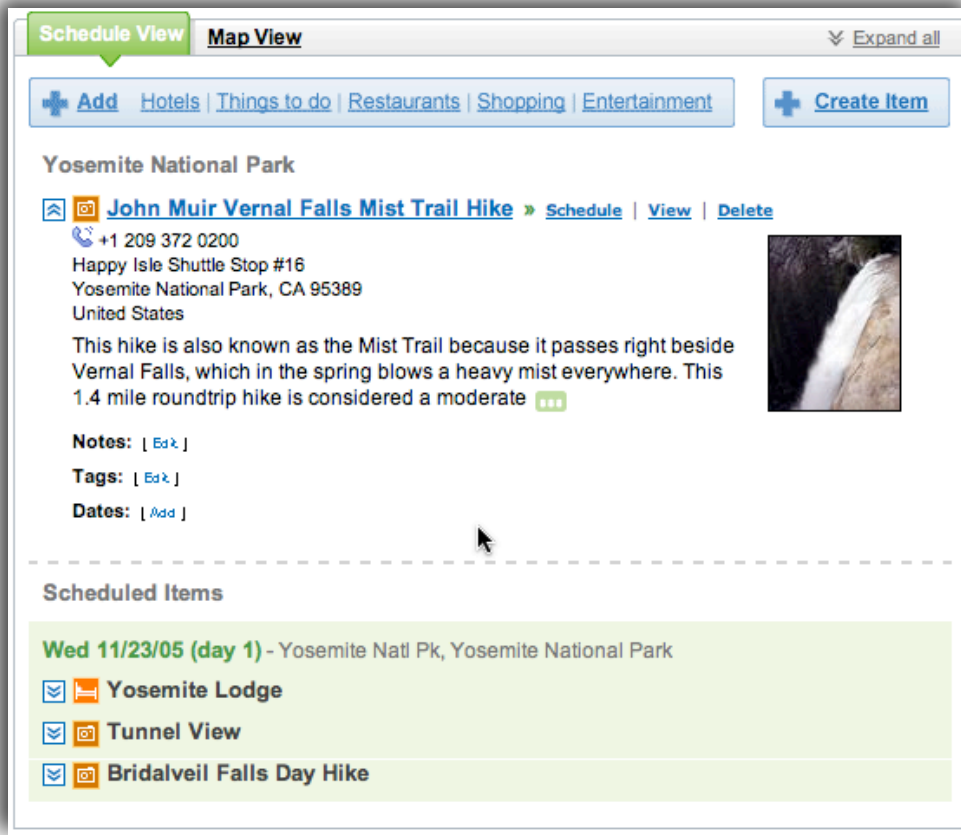
Interaction

Feedback

Info

feedback principles

principle. think in objects.



pattern. shareable object.

Y! Amsterdam Trip Plans on Yahoo! Travel
 Yahoo! Shortcut - [About](#)

Y! My Web Results for amsterdam trip (49)

- 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](#)

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.](#)

flickr Back to your photos

Find a location **GO**

Map Hybrid Satellite

Drag and drop your photos on to the map!

You're on page 0 of 0
 0 photos taken here

Amsterdam

Scale: 41 km / 41 mi
 Data ©Navteq/TeleAtlas

338 of your photos :: 91 selected | [Select all](#) | [Clear selection](#) | [SEARCH](#) | [More options](#) | [Jump to date](#) | [Need help?](#)

principle. tie information to interactivity.



pattern. **multi-variate** views.

Think “deeper interaction”

Multi-variate data

YAHOO! FINANCE

Enter symbol(s) [GET CHART](#)

COMPARE TO:

☒ **COMPETITORS**

- DELL INC (DELL)
- HEWLETT PA... (HPQ)
- MICROSOFT... (MSFT)

☒ **INDEXES**

- DOW JONES (^DJI)
- NASDAQ (^IXIC)
- S&P 500 (^GSPC)

[+ MORE INDEXES](#)

☒ **RECENT**

ADD SYMBOL(S) [GO](#)

CHART TIPS

View Quote Data: The data row above the chart details quote info on the primary symbol you are plotting.

Beta Farecast Know When to Buy


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[Learn more about List View](#)

All Times (Listed) **Select Times (Grid)**


Results for:
 Leave: **All Times**
 San Jose, CA (SJC)
 Fri, Oct 20 2006
 Return: **All Times**
 Dallas, TX (DFW)
 Sat, Oct 28 2006
 Adults: 1 [Change Search](#)

Fare Prediction

 **Lowest fares rising \$50+**
 on average within departure date
Confidence: 56%
Tip: Buy Now.

Fare History

87-Day Low: \$189 Avg Low: \$356



86 Days Ago Now

Refine Results [\[Reset \]](#)

Showing 201 of 201 options

Price Range

\$559 \$1393 \$1393

Stops

☒ 0 \$1228
☒ 1 \$559
☐ 2+ -

Airlines [Compare](#)

- ☒ Alaska \$731
- ☒ America West \$636
- ☒ American \$675
- ☒ Continental \$719
- ☒ Delta \$1183
- ☒ Frontier \$639

Price	Airline	Airport	Departs	Arrives	Stops
\$559* orbitz.com	Multiple Carriers flight details	SJC>DFW	7:15a	2:07p	1 4h 52m
\$559* orbitz.com	Multiple Carriers flight details	DFW>SJC	12:50p	4:40p	1 5h 50m
\$559* orbitz.com	Multiple Carriers flight details	SJC>DFW	7:15a	2:07p	1 4h 52m
\$559* orbitz.com	Multiple Carriers flight details	DFW>SJC	12:50p	4:40p	1 5h 50m
\$559* orbitz.com	Multiple Carriers flight details	SJC>DFW	7:15a	2:07p	1 4h 52m
\$559* orbitz.com	Multiple Carriers flight details	DFW>SJC	11:30a	4:40p	1 7h 10m
\$559* orbitz.com	Multiple Carriers flight details	SJC>DFW	7:15a	2:07p	1 4h 52m
\$559* orbitz.com	Multiple Carriers flight details	DFW>SJC	11:30a	4:40p	1 7h 10m
\$559* orbitz.com	Multiple Carriers flight details	SJC>DFW	7:15a	4:10p	1 6h 55m
\$559* orbitz.com	Multiple Carriers flight details	DFW>SJC	12:50p	4:40p	1 5h 50m
\$561* orbitz.com	Multiple Carriers flight details	SJC>DFW	12:29p	7:18p	1 4h 49m
\$561* orbitz.com	Multiple Carriers flight details	DFW>SJC	12:50p	4:40p	1 5h 50m
\$561* orbitz.com	Multiple Carriers flight details	SJC>DFW	12:29p	7:18p	1 4h 49m
\$561* orbitz.com	Multiple Carriers flight details	DFW>SJC	12:50p	4:40p	1 5h 50m
\$561* orbitz.com	Multiple Carriers flight details	SJC>DFW	6:15a	1:26p	1 5h 11m
\$561* orbitz.com	Multiple Carriers flight details	DFW>SJC	12:50p	4:40p	1 5h 50m

[Splits](#) [Dividends](#) [1 Day](#) [5 Days](#) [1 Month](#) [3 Months](#) [6 Months](#) [1 Year](#) [2 Years](#) [5 Years](#) [Max](#) [Time Range](#) ▲ Aug 9,2004 - Aug 4,2006

Planning Tools

[Flexible? Fares from \\$325](#)
[Track this trip with RSS](#)

Sponsored Links

Dallas Hotels

[Dallas TX Hotel - Orbitz](#)
 Sort Dallas hotels by price, distance & star rating. Orbitz and Go.
[www.orbitz.com](#)

[Book Dallas Texas Hotels at CheapTickets](#)
 Save with CheapTickets® Best Price Guarantee on hotels - book now.
[www.cheaptickets.com](#)

[Dallas Inns](#)
 Let Inns.com help you find unique lodging in Dallas Texas. Book online with...
[www.inns.com](#)

[Dallas Accommodations](#)
 Enjoy Golf, Spas, Fine Dining & More - Minutes Away from Dallas.
[ad.doubleclick.net](#)

Sponsored Links

Activities in Dallas

[ORBITZ: Dallas Vacation](#)
 Over 500 vacation destinations to choose from. Book a trip to Dallas
[www.orbitz.com](#)

Think “deeper interaction”

Multi-variate data

Interesting relationships

The collage illustrates various interactive web components:

- Map Interface:** A map of San Francisco, CA, with three numbered markers (1, 2, 3) indicating specific locations. A scale bar shows 0.5 miles.
- Calendar:** A calendar for April 2006, showing the days of the week (M, T, W, T, F, S, S) and the dates (1-30).
- Mail Sidebar:** A sidebar for a webmail interface (Zimbra) showing folders (Inbox (7), Sent (2), Drafts, Junk (1), Trash, Open Source, Stash (2)), searches (Follow up, From External Domain, Unread, With attachments), tags (Customers (1), Industry News (2), Zimbra (10)), and zimlets (Search).
- Email Content:** An email from 'Fred Friend' with the subject 'Skype Me and Map My Location'. The body text includes:

Hey - when you get a moment call me at (415) 555-1212. You can click the number to call add me to your Contacts directly from here.

If you want to see a map of my location, mouse over the address below:

[1101 Park Pl San Mateo CA 94403](#)








Let's try to catch up today.

Fred

Think “deeper interaction”

Multi-variate data
Interesting relationships
Just-in-time information

Students to Enroll

	Crew Id	Last Name	First Name
	600922	Peterson	Shelley
	349394	Craft	Adrian
	432939	Douglas	Elayne
	468370	Hill	Petra
	999300	Barnes	James
	344935	Smith	James
	139204	Miller	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

Think in objects,
tie information to interactivity

key principles for richness

Interaction

Prefer direct, lightweight, in-page interactions

Feedback

Provide invitations beforehand, transitions during and feedback after interaction

Info

Think in objects and tie information to interactivity

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

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

