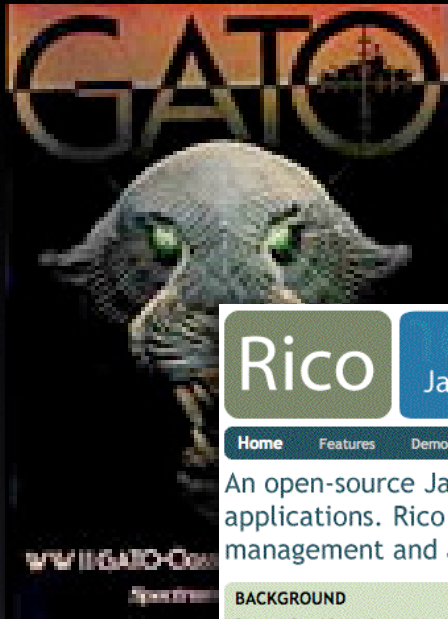


Designing for Ajax

Principles and patterns for rich interaction

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](#).

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 the application, 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 behaviors. 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's Laszlo. 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

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.

Review Title

e.g. We can't Great!

Write your review - Your Name

See Rico in Action!

developer.yahoo.com/ypatterns

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
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- Left Navigation
- Tabs
 - Module Tabs
 - Navigation Tabs

EXPLORE DATA

- Auto Complete
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- 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
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APPLICATION NEEDS TO

CALL ATTENTION

IMPROVE READABILITY

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GROUP RELATED ITEMS

ORGANIZE SCREEN/PAGE

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[Module Tabs](#)

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

Developer Network Home Help Site Search Search

YAHOO! DEVELOPER NETWORK

Design Pattern Library

Yahoo! Developer Network > Design Pattern Library > Ratings and Reviews

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 and Reviews

Problem Summary

User wants to leave an opinion on an object. Quick opinions can be captured using Reviews.

Solution Patterns

Architecture of a Review

A product or website needs to present ratings and reviews with a variety of informational elements.

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

(1234) [Read 7 reviews](#)

Alma St
Menlo Park, CA 94025

Cross Street:
Between Alma Ln and Ravenswood Ave

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

Average
[Write a Review](#)

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.

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

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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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 outwards. The spiky heads are a vibrant green color. The background is a solid, clear blue sky. In the bottom left corner, there are some light-colored rocks and a small portion of another Joshua tree.

surfacing vocabulary

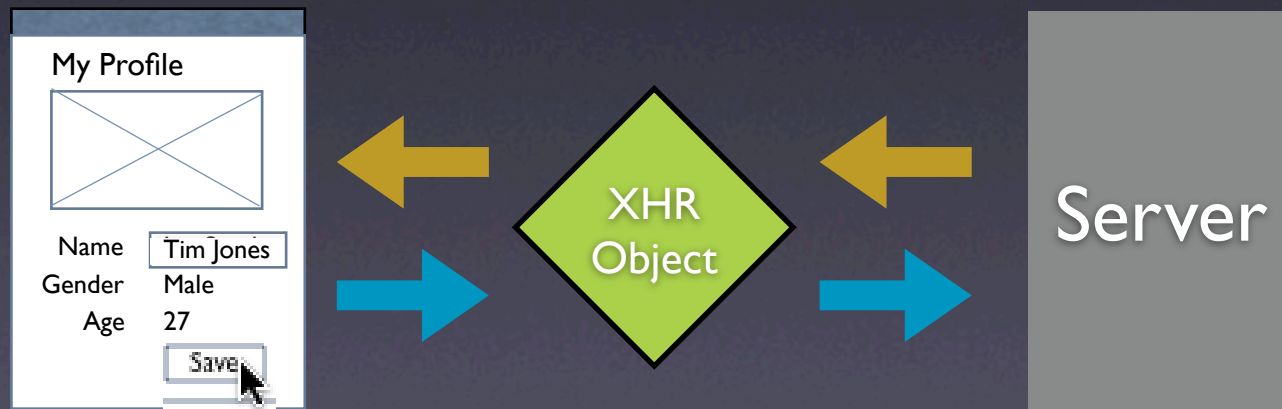
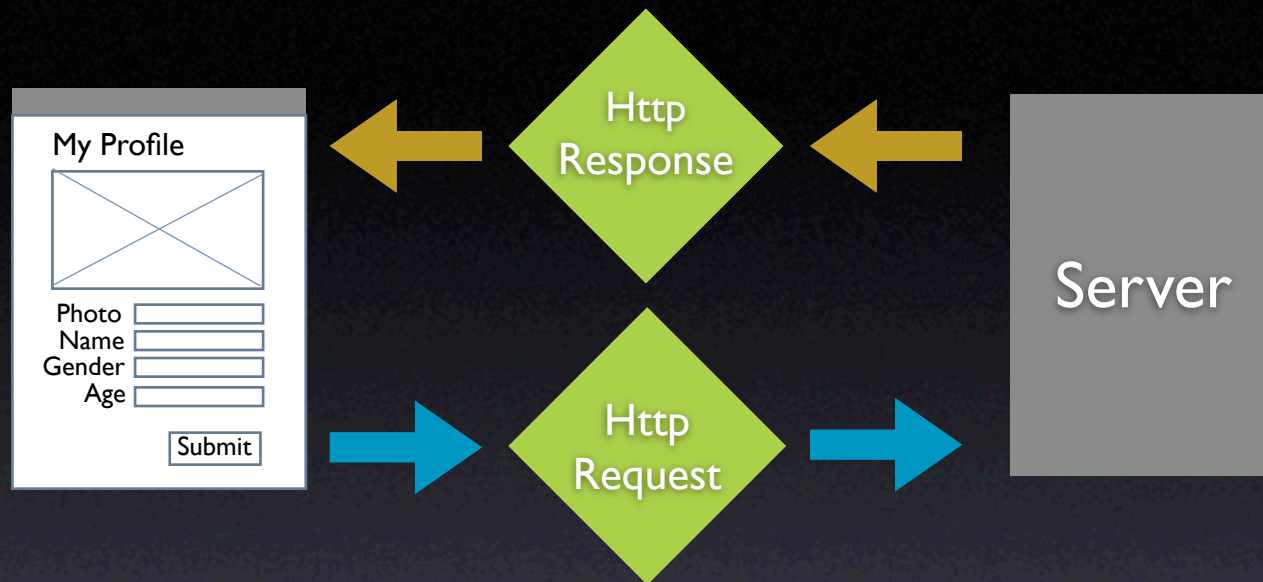
current patterns

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.

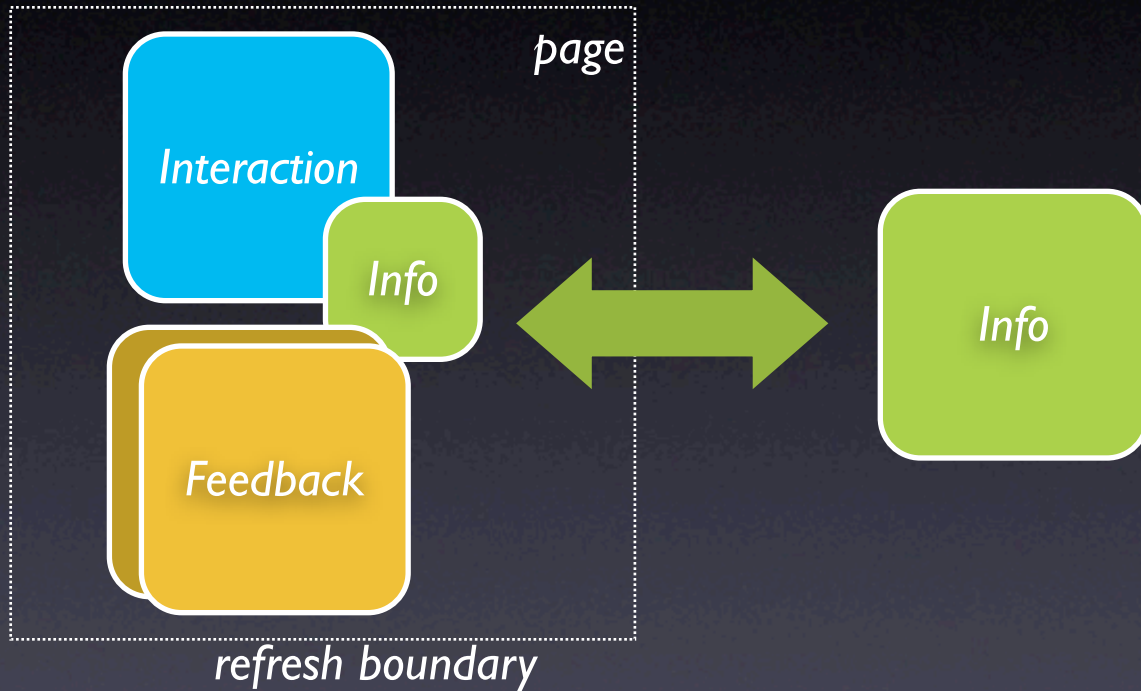
rich patterns

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.



interaction + feedback + information = richness





Interaction

Feedback

Info

design principles for richness



Interaction

Feedback

Info

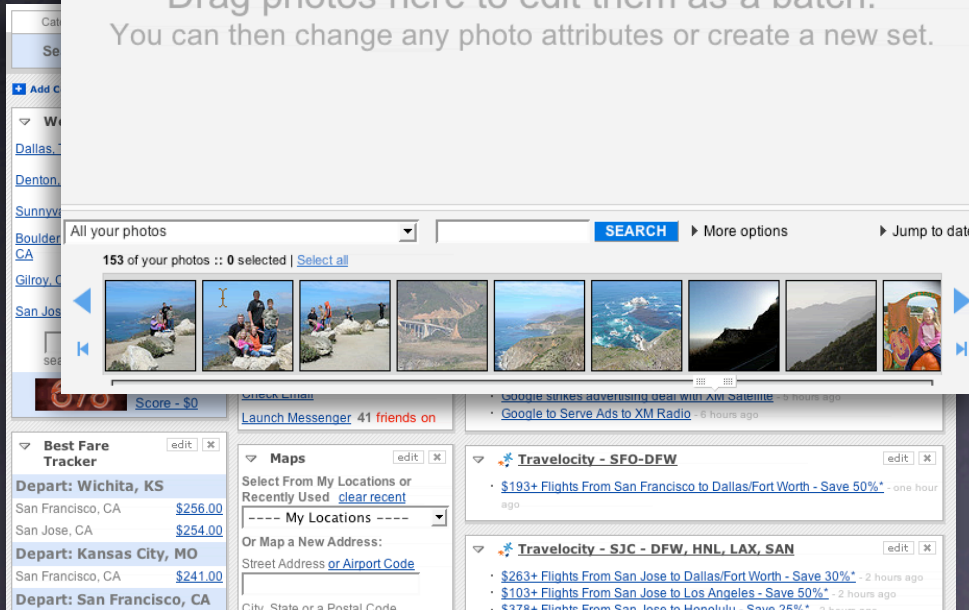
interaction principles

principle. make it direct.

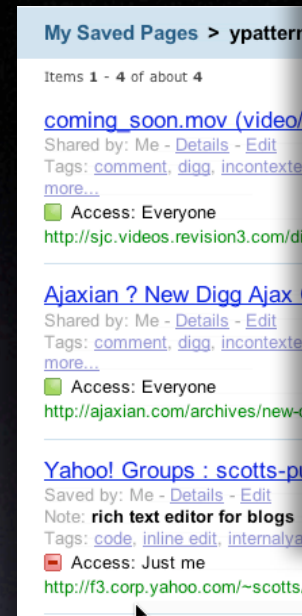


pattern. in-page action.

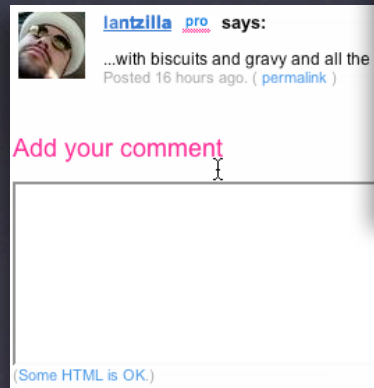
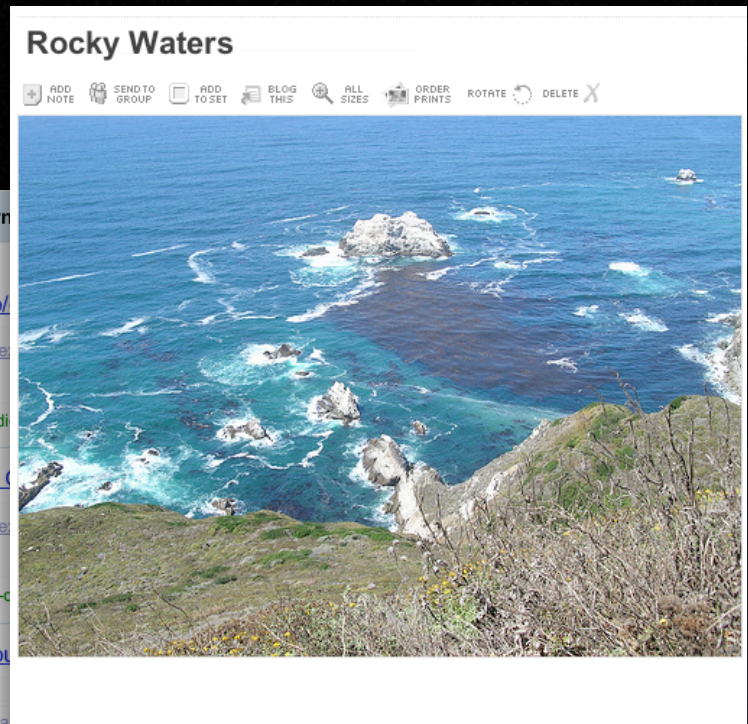
Drag photos here to edit them as a batch.
You can then change any photo attributes or create a new set.



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 [\[Edit \]](#)



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 [...](#)



My Sav

Items 1

[comin](#)

Shared

Tags: [c](#)

[more...](#)

Access

[http://sj...](#)

[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

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

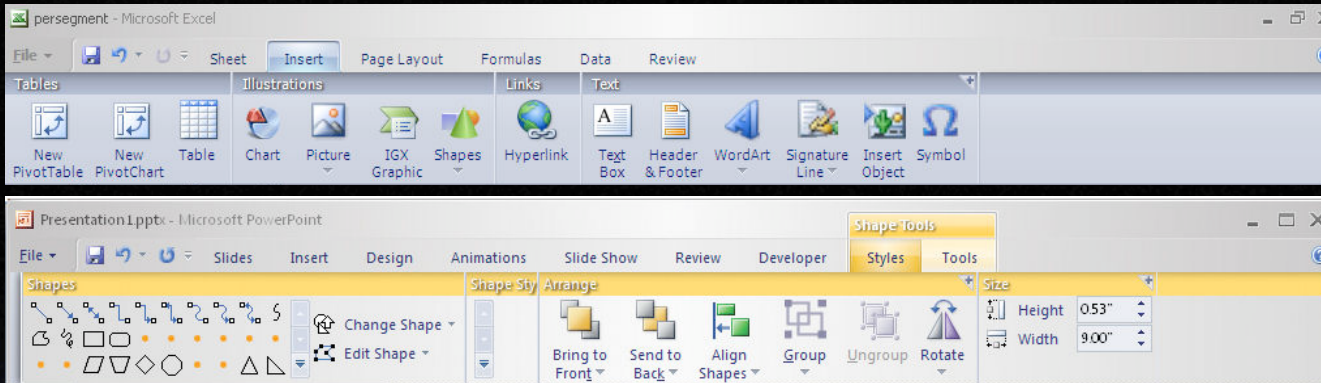
[Email](#) - [IM](#) - [Delete](#)

Note: **rich text editor for blogs**

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

Access: Just me

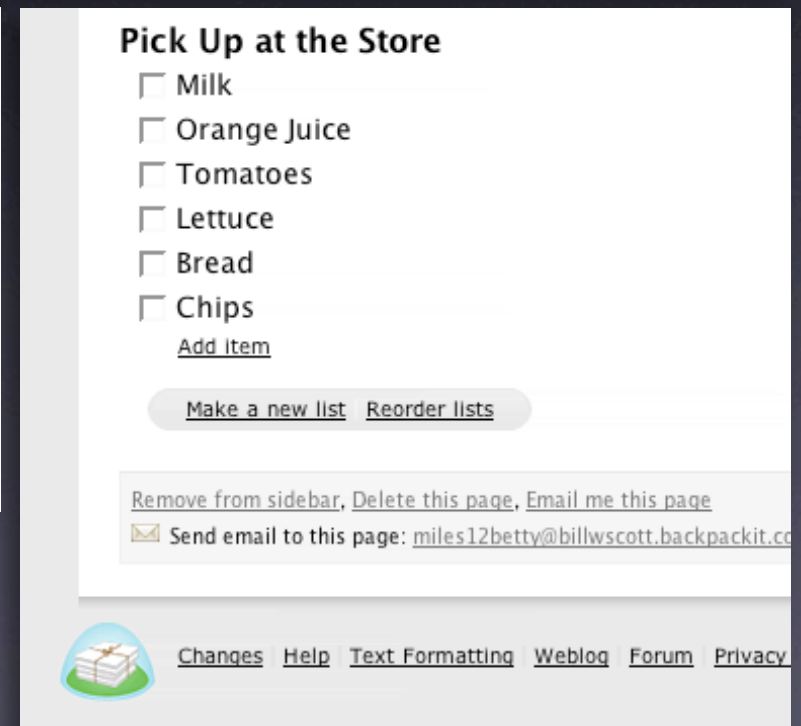
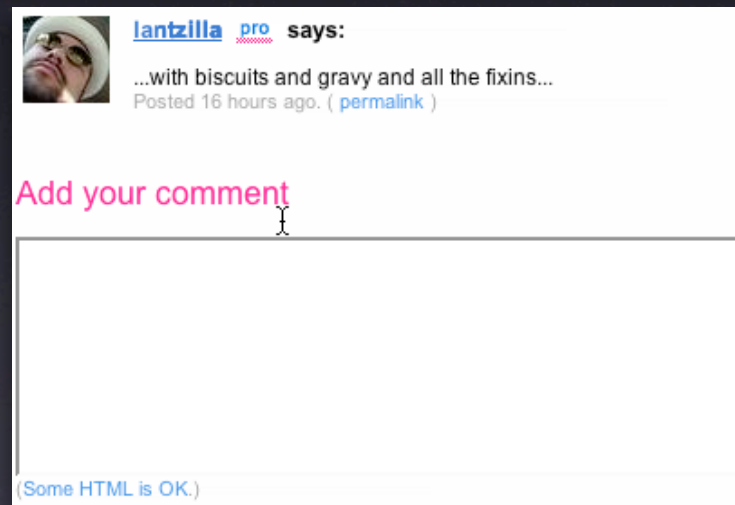
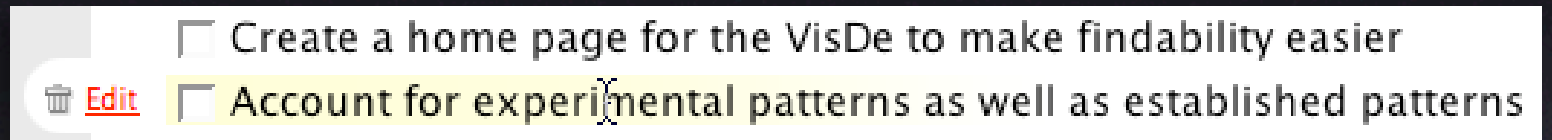
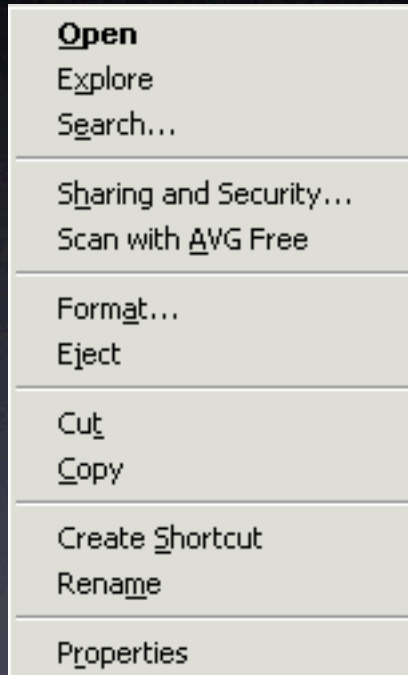
[http://f3.corp.yahoo.com/~scotts/xpost.html](#)



make it direct

In-context tools

Same as context menus
Only good for single objects
Can actually slow you down



make it direct

WatchThisNext

Drag n' Drop DVD Recommendations

[Start Over](#) [Contact Us](#)

Mean Creek
[Find out more](#)

Prokofiev - Ivan the Terrible / Mukhamedov, Bessmertnova, Taranda, Zhuravlis, Bolshoi Ballet
[Find out more](#)

Drag the DVDs

When we suggest a DVD you like, click the "find out more" button

Loved It
Or show me more like this.

Haven't Seen It
Or I'm not interested

Classics

Recommendations

High Plains Drifter
★★★★★
[Not Interested](#)

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

[Add](#)

The Great Escape
★★★★★
[Not Interested](#)

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

[Add](#)

[More Recommendations >](#)

Featured Subgenre

CLASSIC COMEDIES

Fun with Dick and Jane
★★★★★
[Not Interested](#)

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

[Add](#)

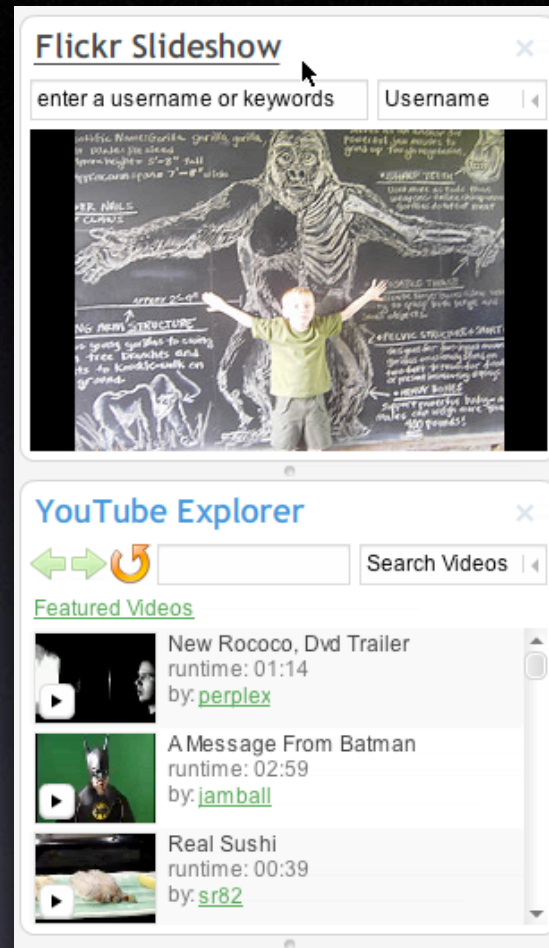
Monty Python's Life of Brian
★★★★★
[Not Interested](#)

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

[Add](#)

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

make it direct



Pick Up at the Store

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






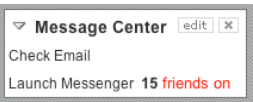
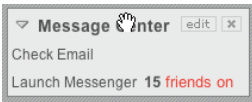
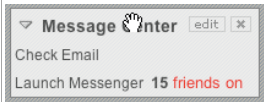
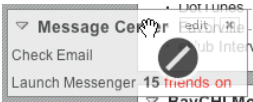
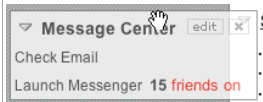
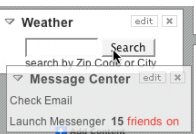
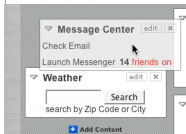
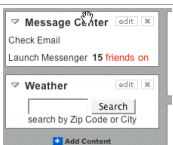
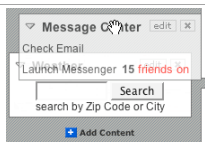
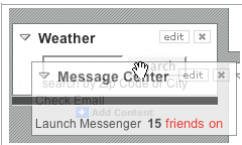
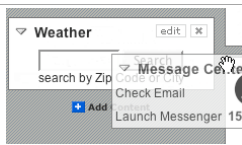
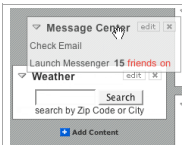
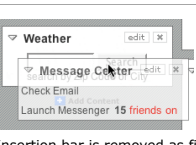
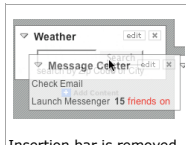
- What is spam?
- Can I transfer my message credits?
- How do I delete my HandyPay account?
- What if I didn't receive my full message package?
- I need to contact customer care regarding the Compose Text Message service.

Use Drag & Drop where appropriate

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

make it direct

Drag and Drop Modules - Interesting Moments Grid

Currently on beta.my.yahoo.com		ID: Bill Scott & Eric Miraglia		Date: Nov-0			
Mouse Hover	Mouse Down	Drag Initiated	Drag Over Valid Target	Drag Over Invalid Target	Drag Over Parent Container	Drop Accepted	Drop Rejected
Cursor	 CSS Move cursor	 CSS Move cursor	 CSS Move cursor	 CSS Move cursor	 CSS Move cursor	Normal Cursor	Normal Cursor
Tool Tip							
Drag Object	 <p>Full Opacity</p>	 <p>Reduced Opacity</p>	 <p>Reduced Opacity</p>	 <p>Reduced Opacity & Invalid Badge</p>	 <p>Reduced Opacity</p>	 <p>Modules animates into the area just below insertion bar</p>	 <p>Modules animates back to the home area</p>
Drop Target	 <p>No insertion bar, just a gap</p>	 <p>No insertion bar, just a gap</p>	 <p>Insertion bar showing where it will drop</p>	 <p>No insertion bar, just a gap</p>	 <p>No insertion bar, just a gap & original hold frame of animation</p>	 <p>Insertion bar is removed as first frame of animation</p>	 <p>Insertion bar is removed as first frame of animation</p>

Take care of the interesting moments

Drag and Drop Modules - Interesting Moments Grid

ID: Bill Scott & Eric Miraglia

Date:

Initiated

Drag Over
Valid Target

Drag Over
Invalid Target

Drag Over
Parent Container

Drop
Accepted



CSS Move cursor

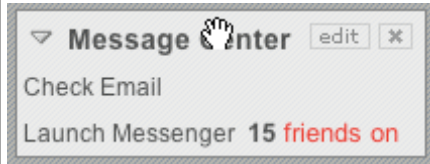
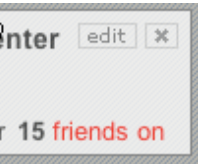


CSS Move cursor



CSS Move cursor

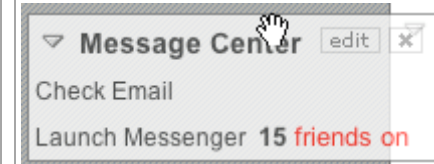
Normal Cursor



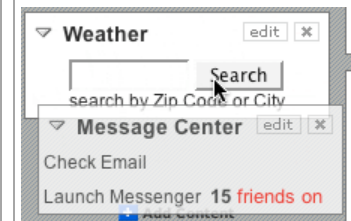
Reduced Opacity



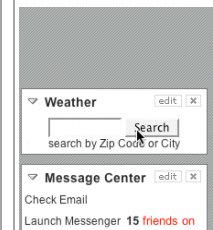
Reduced Opacity & Invalid Badge



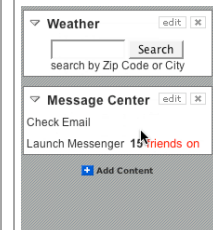
Reduced Opacity



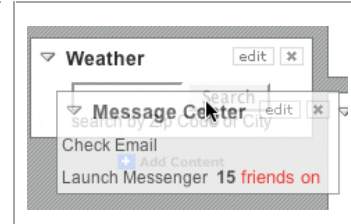
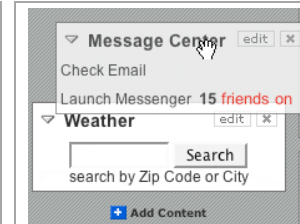
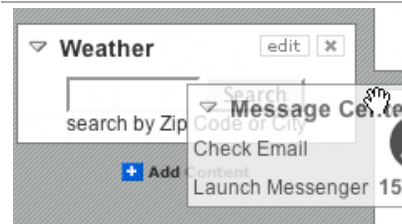
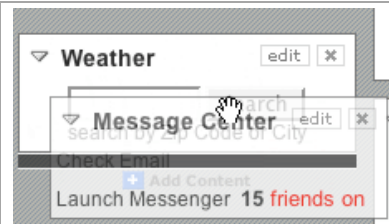
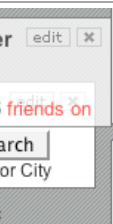
Modules animates into the area just below insertion bar



Module comes to rest in new area



Modules slide up in a self-healing transition to close hole



Insertion bar is removed as first

Search: Search

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

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

Depart: New York, NY - all
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Depart: San Francisco, CA
London, United Kingdom - all \$252.00

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

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

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Or Map a New Address:

Street Address or Airport Code

City, State or a Postal Code

U.S.

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	

principle. keep a light footprint.

pattern. in page action.

282 diggs
[dig 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 features with most new Mac systems it is becoming a common one for close to a year now, I have found that the use of the Scroll Ball far outweighs its quirks.

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

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Legal ruling

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Dow Jones Industrial Average, as of 11:17PM ET
Distance of a new high.

1,708, with
2,268 while

COMPQ
sp500

© BigCharts.com 1:17PM ET

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- U.S. stock futures turn lower; disappointment
- U.S. Aug. new-home sales up
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- API reports an across-the-board climb in petroleum supplies
- Wednesday's biggest stock gainers and decliners
- McDonald's boosts dividend to \$1 a share from 67 cents

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only at [gap.com](#)

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Soft cotton pique knit.
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regular tall

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

select Size:
[XS](#) [S](#) [M](#) [L](#) [XL](#) [XXL](#) [XXXL](#)
[size chart](#)

Quantity: [1](#) [royal grape](#) **\$29.50 \$9.99** [add to bag](#)

pattern. rating an object.

RECOMMEND THIS STORY

Recommend It: [☆☆☆☆☆](#) Average (63 votes) [★★★★★](#)

Classics

Recommendations

High Plains Drifter
☆☆☆☆☆ [Not Interested](#)
Amid shoot-outs and existentialism, a mysterious stranger (Clint Eastwood, who also directs) is hired to protect a small town from outlaws. But his recipe for defense could be a deal with the devil, and soon, even the enigmatic gunslinger's ... [Read More](#)

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](#)

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CLASSIC COMEDIES

Fun with Dick and Jane
☆☆☆☆☆ [Not Interested](#)
George Segal and Jane Fonda play Dick and Jane, two up-and-coming yuppies who exemplified the lifestyle before there was even a name for it. But when Dick loses his lucrative job, the two face a ... [Read More](#)

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

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

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

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

A
B
C
D
F

pattern. remembered collections.

keep a light footprint

Remove the “pain points”


Shorten the path

Keep actions immediate and light

Use hover, blur, focus; avoid heavy events

Classics

Recommendations




High Plains Drifter

★★★★★

Not Interested

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

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The Great Escape

★★★★★


Not Interested

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[More Recommendations >](#)

Featured Subgenre
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Not Interested

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Add



Monty Python's Life of Brian

★★★★★

Not Interested


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282 diggs

digg it

Fixing the Mighty Mouse

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keep a light footprint

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select Color: khaki \$2.50

select Waist:

28W 29W 30W 31W

32W 33W 34W 35W

36W 38W 40W 42W

44W 46W

select Length:

28L 29L 30L 31L

32L 33L 34L

also in tall (prices may vary)

select qty 1

size chart more details

khaki \$42.50

add to bag

stressfree classic fit flat front khakis Imported. exclusive colors

more views

Design for engagement

Use invitations & feedback

Treat it like an impulse aisle

Theory of fun

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

My Grade: **Rate this Movie!**

Select grade to the right

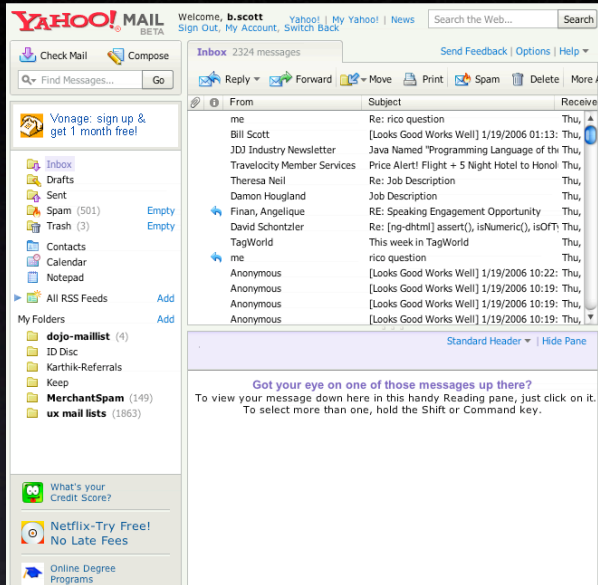
[write a review](#)

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

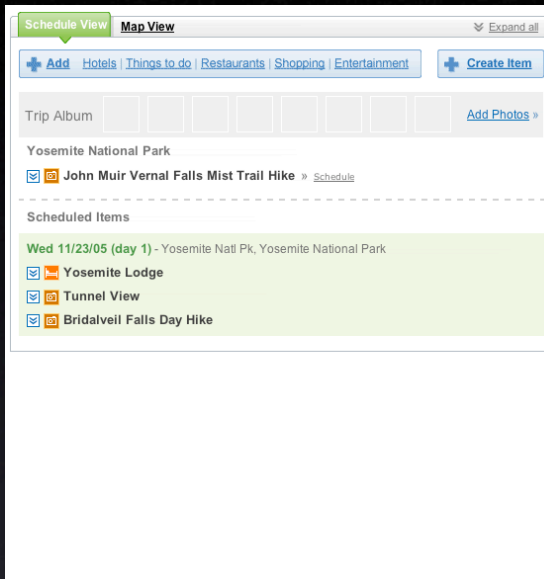
A
B
C
D
F

principle. cross borders reluctantly.

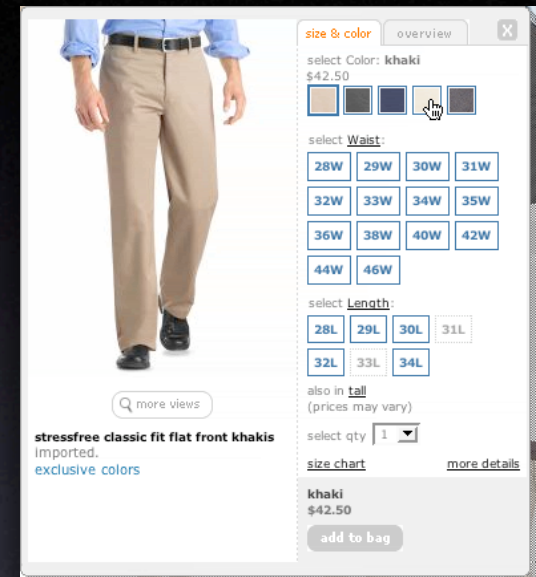
pattern. on-demand scrolling.



pattern. in-context expand.



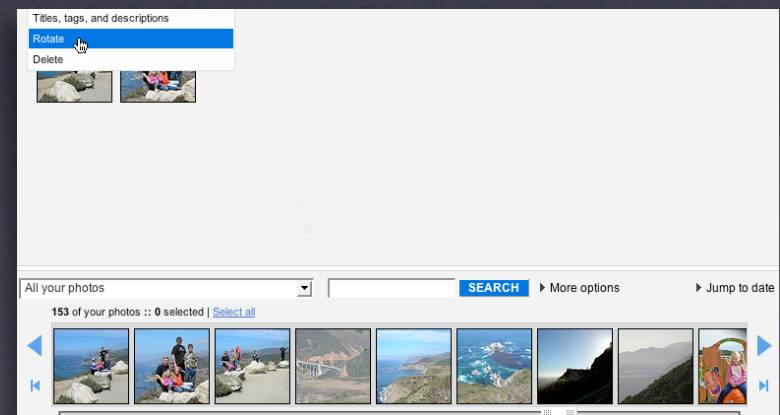
pattern. inline assistant.



pattern. hover details.



pattern. lightweight popup + lightbox.

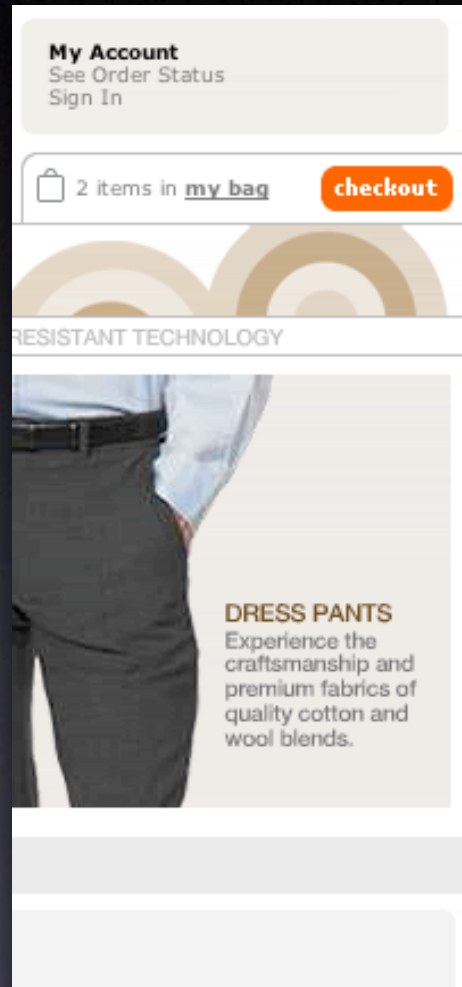
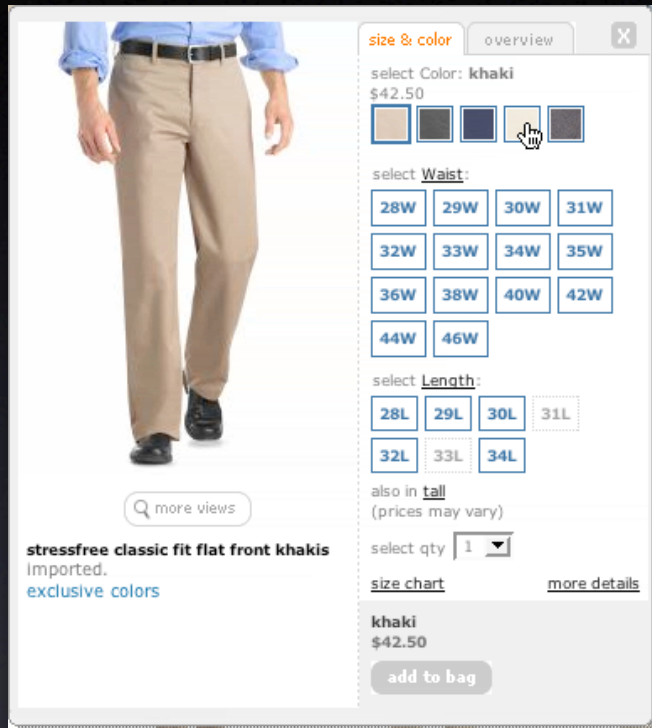


cross borders reluctantly














Rethink process flows

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

Every page jump is a mental speed bump



cross borders reluctantly


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
	\$1,995,000 Single Res	6+, 4+ 5675	17617 MOUNTAIN CHARLIE RD LOS GATOS, CA 95033 (Unincorporated Los Gatos Mtns) Almaden Oaks Realtors	608215	 MULTI	
	\$2,286,000 Single Res	5, 4+ 4800	20930 PANORAMA DR Los Gatos, CA 95033 (Los Gatos Mtns) Alain Pinel Realtors	604907	 MULTI	 TOUR
	\$2,750,000 Single Res	5, 4+ 5000	155 LARITA DR Ben Lomond, CA 95005 (San Lorenzo Valley) Network Alliance Real Estate	616947	 MULTI	
	\$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
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RICO AJAX SEARCH
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Select Search Category: Web **Images** Videos

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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


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?](#)

cross borders reluctantly

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

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

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 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](#)

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?**
★★★★★

CLASSICS DRAMA

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 ▼

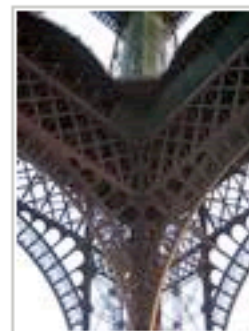
Prints & Gifts ▼

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.





cross borders reluctantly

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

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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](#)


[coming_soon.mov \(video/quicktime Object\)](#) Shared at 4:49 PM PST
[Email](#) - [IM](#) - [Delete](#)

Shared by: Me - [Details](#) - [Edit](#)
Tags: [comment](#), [digg](#), [incontextexpandpatte...](#), [inlinepageeditpatter...](#), [ratinganobjectpatter...](#), [more...](#)
 Access: Everyone
http://sjc.videos.revision3.com/diggation/coming_soon.mov

[Ajaxian ? New Digg Ajax Comment System](#) Shared at 4:49 PM PST
[Email](#) - [IM](#) - [Delete](#)

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Tags: [comment](#), [digg](#), [incontextexpandpatte...](#), [inlinepageeditpatter...](#), [ratinganobjectpatter...](#), [more...](#)
 Access: Everyone
<http://ajaxian.com/archives/new-digg-ajax-comment-system> - [My cached copy](#)

[Yahoo! Groups : scotts-pub Post Message](#) Saved on February 16, 2006
[Email](#) - [IM](#) - [Delete](#)

Saved by: Me - [Details](#) - [Edit](#)
Note: **rich text editor for blogs**
Tags: [code](#), [inline edit](#), [internalyahoo](#), [patterns](#), [ypatternexample](#), [more...](#)
 Access: Just me
<http://f3.corp.yahoo.com/~scotts/xpost.html>

Stock Market [edit](#) 

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

cross borders reluctantly

Use real-estate creatively

Use slideouts

Use in-place zoom

Remember the backstage

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](#)

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 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




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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](#)

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59° - 88°  **Local**  **Movies**

FiveRuns Corporation [Link](#) [Sign out](#) [Help](#)

[Global View](#) **System Browser** [Events](#) [Reports](#) [Settings](#) [Users](#) [Your Profile](#) [99 days remaining](#)

System Browser


Linux **Mac OS X** **MySQL** **Apache**

as1 **db1** **web1.fiveruns.com** **web2.fiveruns.com** **db2.fiveruns.com**

Application

java 1 of 68

% User Mode CPU per App



[Zoom](#) [Lightbox view](#)

key principle

Interaction

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.

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. auto complete.

To: [Show BCC](#)

Cc:

Subject: [Plain Text](#)

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

KAYAK™ Search with us, book with them.™

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

☒ Round-trip ☐ One-way ☐ Multi-city

From **To**

☒ Show Nearby Airports ☒ Show Nearby Airports

Leave 2/15/2006 **Time** Anytime **Return** 2/22/2006 **Time** Anytime

Travelers 1 **Cabin** Economy

☐ Prefer Nonstop

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

pattern. busy indicator.

Check Mail Compose

pattern. live previews.

Find a domain name:

www.

(ex. widgetdesigns.com)

pattern. periodic refresh.

MarketWatch From DOW JONES

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 Cotton](#), MarketWatch
Last Update: 1:04 PM ET Sep 27, 2006

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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 ([\\$COMPO](#) : 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, +3.77, +2.1%) stocks put in solid gains.

Dow Jones Industrial Average
11,707.89 +38.50 +0.33%
COMPQ +4.5%
SP500 +0.5%
14 18 20 22 26
©BigCharts.com 1:17PM ET

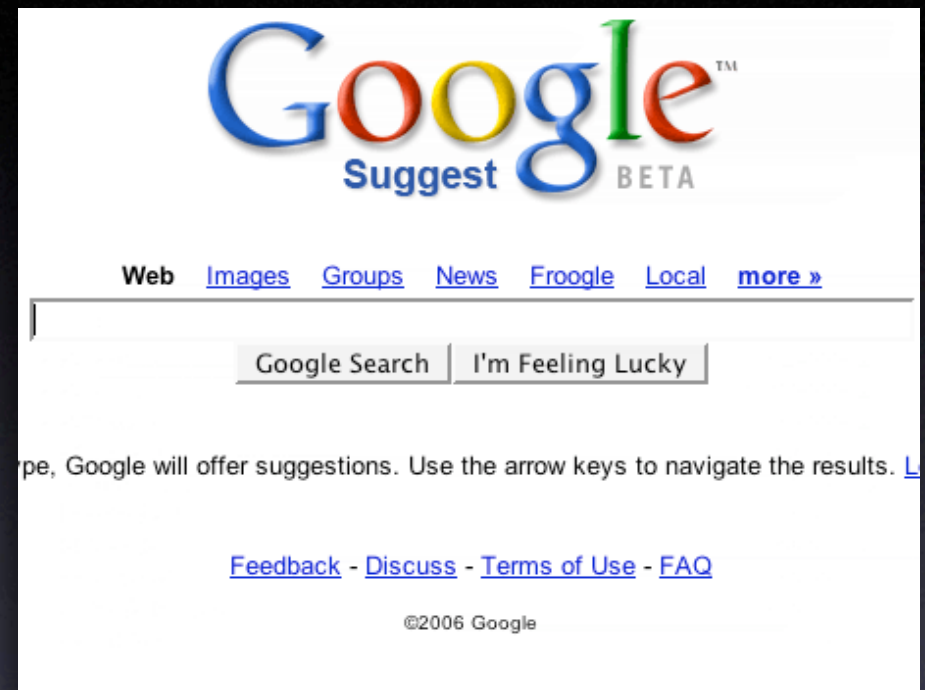
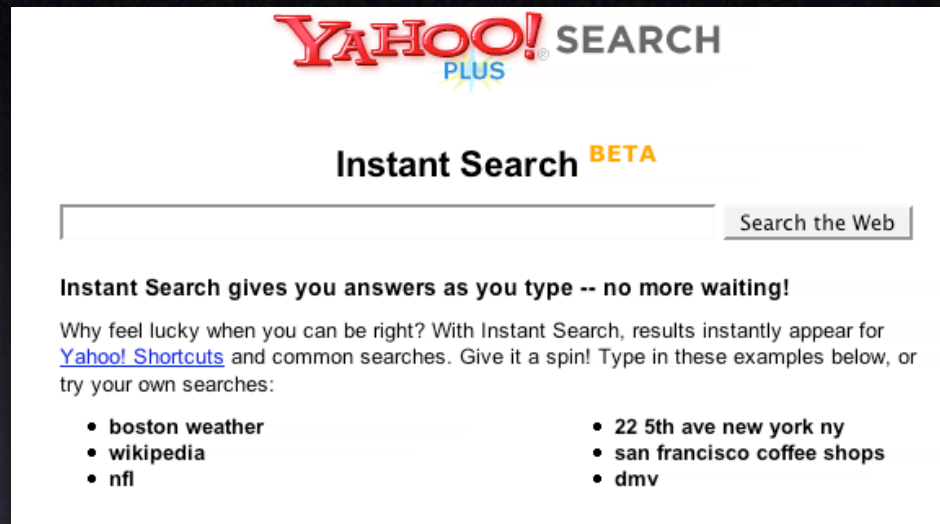
Dow Jones Industrial Average
11,707.57 +38.18 +0.33%
12,000
8,000
4,000

give live feedback

Keep the goal in mind

Design for relevancy

Is it narrowing or distracting



give live feedback

Keep the goal in mind

Design for relevancy

Is it narrowing or 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 visible: 'monterrey', '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'. A 'Did you mean' suggestion for 'monterrey' is shown. The results are categorized into 'SPONSOR RESULTS' and 'News Results for monterrey'. The 'SPONSOR RESULTS' section includes links to 'Save on Monterrey Hotels at Expedia.com' and 'Monterrey Vacations with Travelocity'. The 'News Results' section includes a link to 'FC Dallas traveling roster to Monterrey'. A 'Yahoo! Shortcut' link is also present. A 'Yahoo!s' section provides a link to 'Report them' for bad search results. An 'All About Monterrey' section provides a city guide. A 'Monterrey - Wikipedia, the free encyclopedia' section provides a brief overview of the city. The page also includes a 'Refine Search' button and a 'Feedback' link.

alltheweb
livesearch

Options Go to... Help

monterrey

monterrey mexico

monterrey nl mexico

arena monterrey

tec de monterrey

tecnologico de monterrey

monterrey nuevo leon

monterrey mexico map

universidad de monterrey

cablevision monterrey

Refine Search

Tell a Friend

Feedback

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

Did you mean: [monterrey](#)

SPONSOR RESULTS

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

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

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

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

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

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

[Monterrey - Weichert](#)
View Color photos, Virtual Tours and Thousands of Open Houses.
[weichert.com](#)

[See your message here...](#)

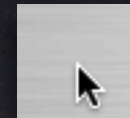
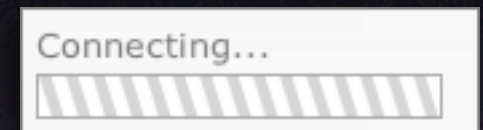
[International Conference on Financing for Development-2003-main](#)

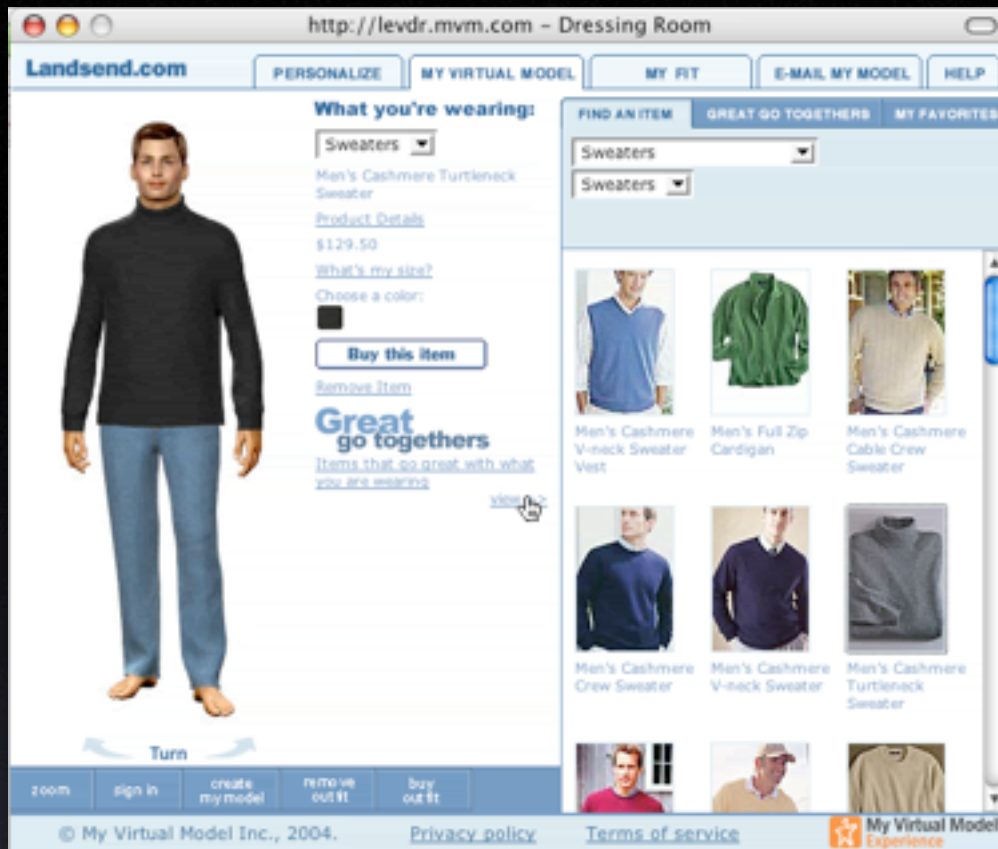
give live feedback

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.

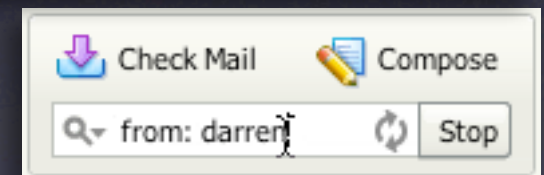
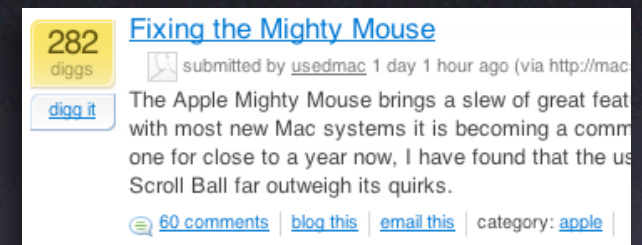
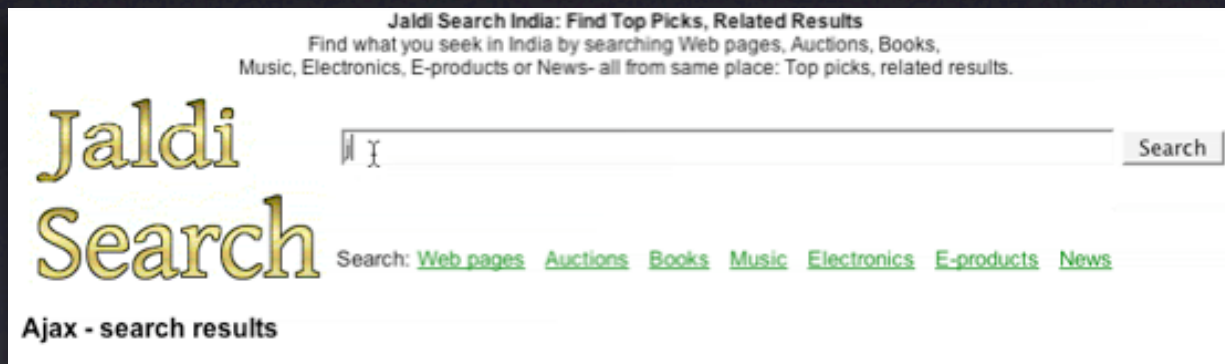
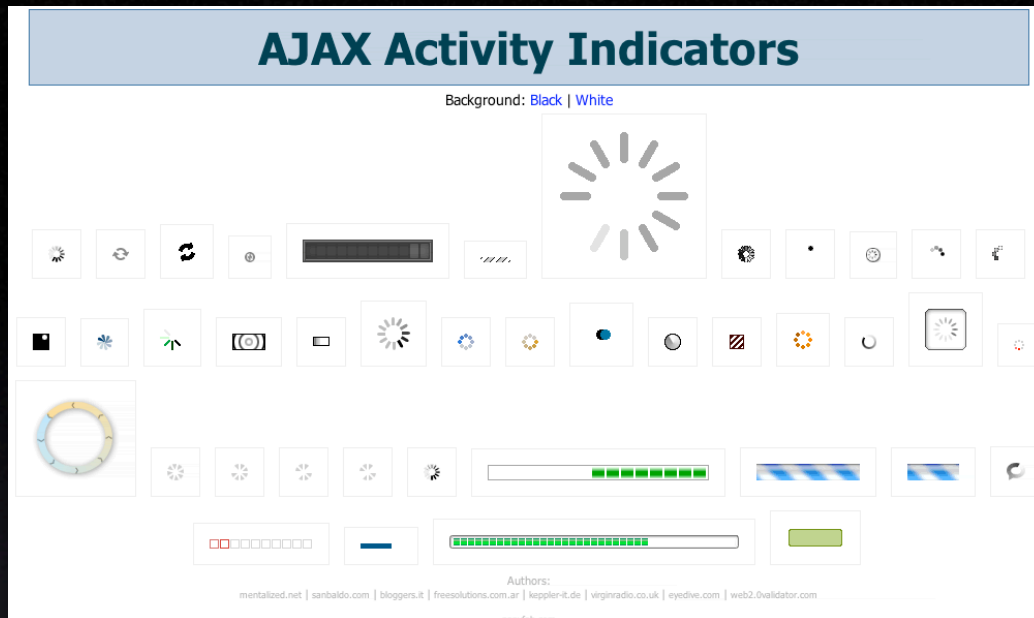
Prevent errors before-hand

Ounce of preventive design worth pound of error-handling

Use live-previews

Look before you leap

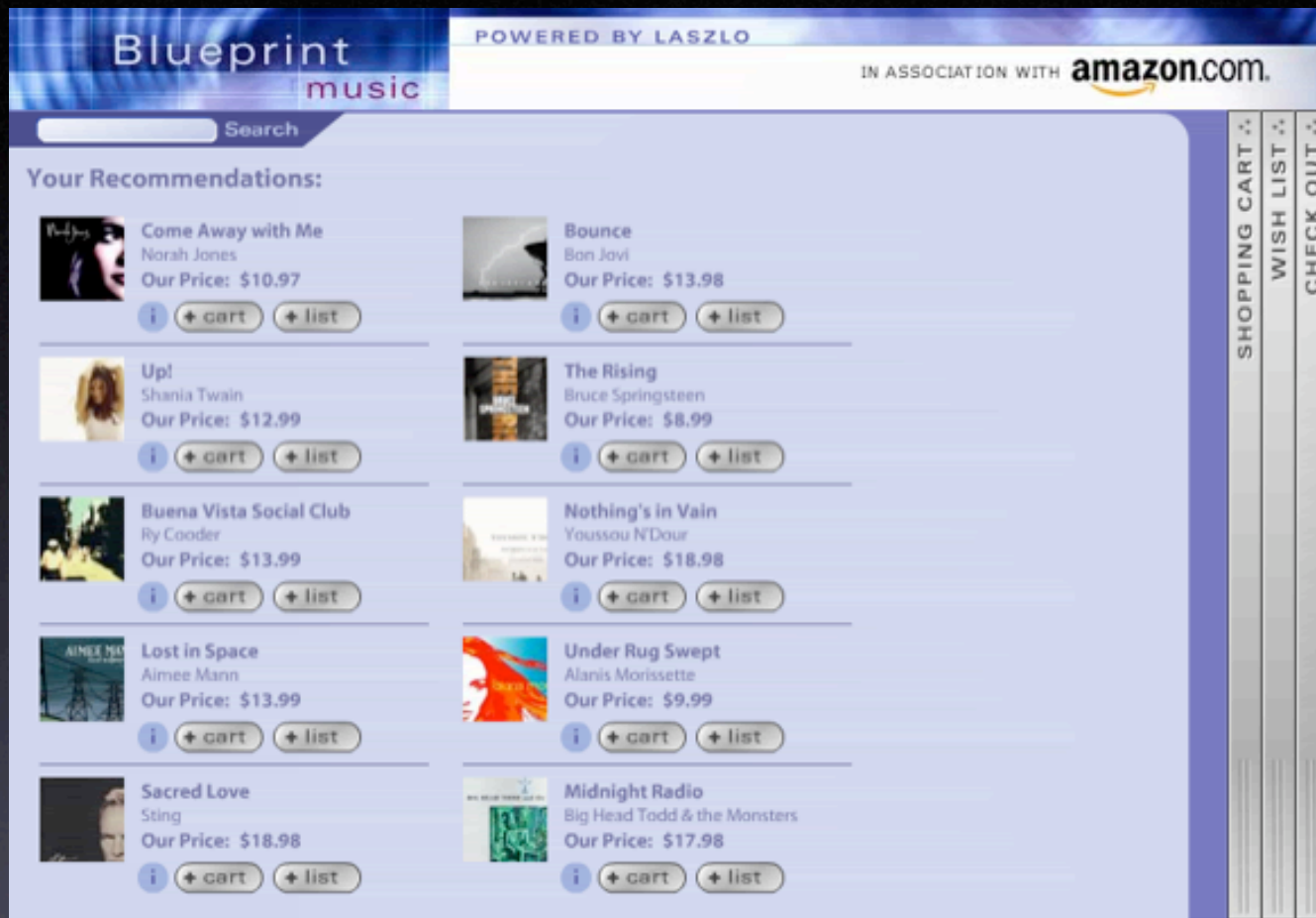
give live feedback



Keep feedback focused

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

give live feedback



Keep feedback focused

Use laws of proximity in context feedback

Respect feedback bandwidth

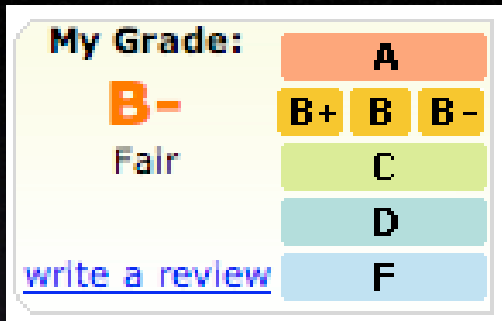
Reveal relevance just-in-time

Avoid side-noise (peripheral distractions)

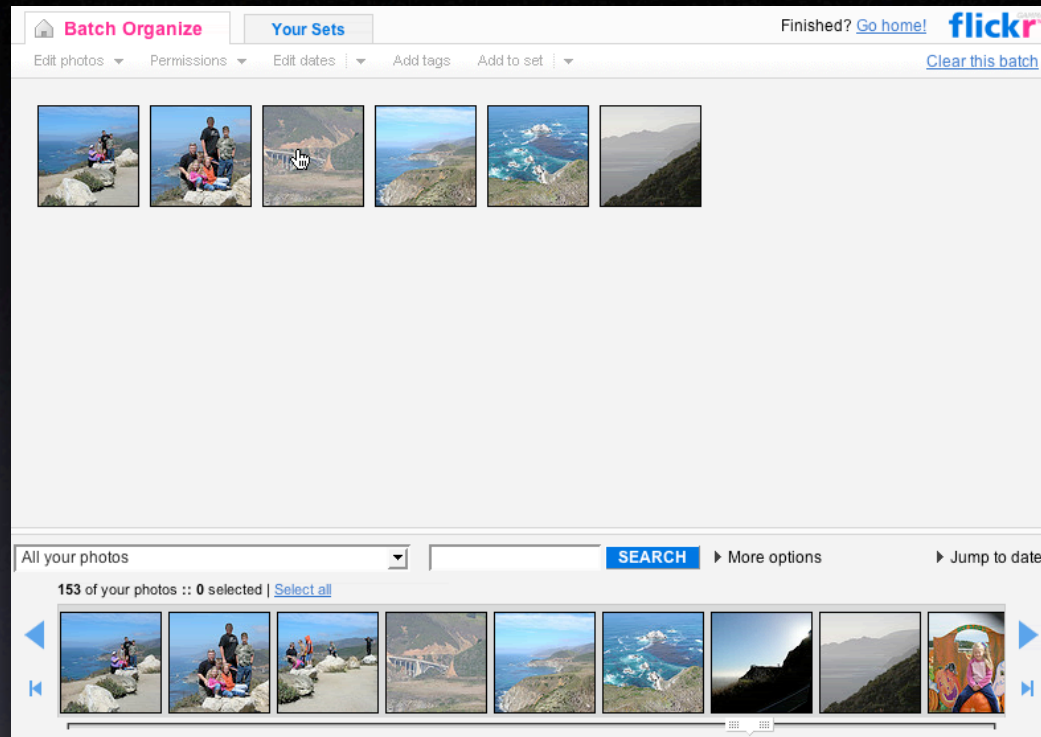
Use nuance

principle. offer an invitation.

pattern. hover invitation.



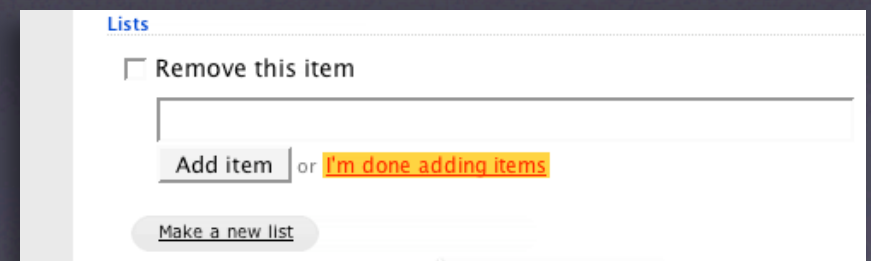
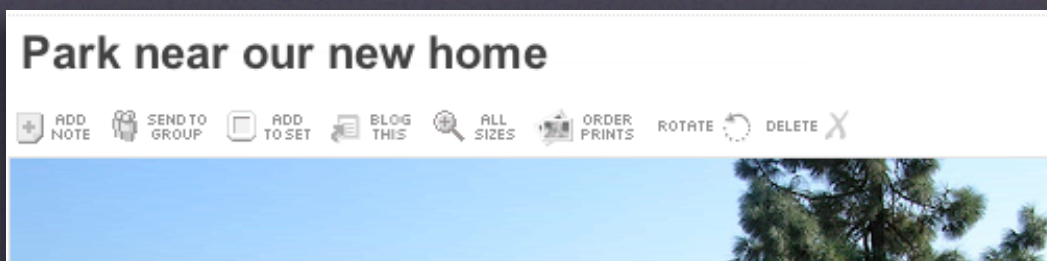
pattern. drop invitation.



pattern. tour invitation.



pattern. tooltip invitation + hover invitation + cursor invitation.



offer an 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.

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

Search:

[Web Search](#)

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

Autos

Finance

Games

GeoCities

Groups

Horoscopes

HotJobs

Kids

Maps

Music

Personals


Photos

Real Estate

Shopping

Sports

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 »](#)

Money

Hi, b.scott

[Sign Out](#)

[Mail](#)

[Messenger](#)


[Radio](#)

[Weather 59° - 88°](#)

[Local](#)

[Movies](#)

PEPSI COOL TONES AND MOTOROLA PHONES



[More Featured](#)

offer an invitation

Bridge the new with the old


Hyperlinks as actions

Reveal with hovers


Drop down clues

17%

Tue 12/05/06
9:04 AM



40°
San Jose, CA
H 67° L 41°

WED

67° 45°

- [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 \(Reuters\)](#)

Pick Up at the Store

☐ Milk

☐ Orange Juice

☐ Tomatoes

☐ Lettuce

☐ Bread

☐ Chips



[lantzilla](#) pro says:
...with biscuits and gravy and all the fixins...
Posted 16 hours ago. ([permalink](#))

Add your comment

(Some HTML is OK.)


offer an invitation

My Grade:

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


[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](#)



Park near our new home

[+](#) ADD NOTE [📁](#) SEND TO GROUP [📄](#) ADD TO SET [📝](#) BLOG THIS [🔍](#) ALL SIZES [🖨](#) ORDER PRINTS [🔄](#) ROTATE [🗑](#) DELETE X



Make it inviting

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

offer an invitation

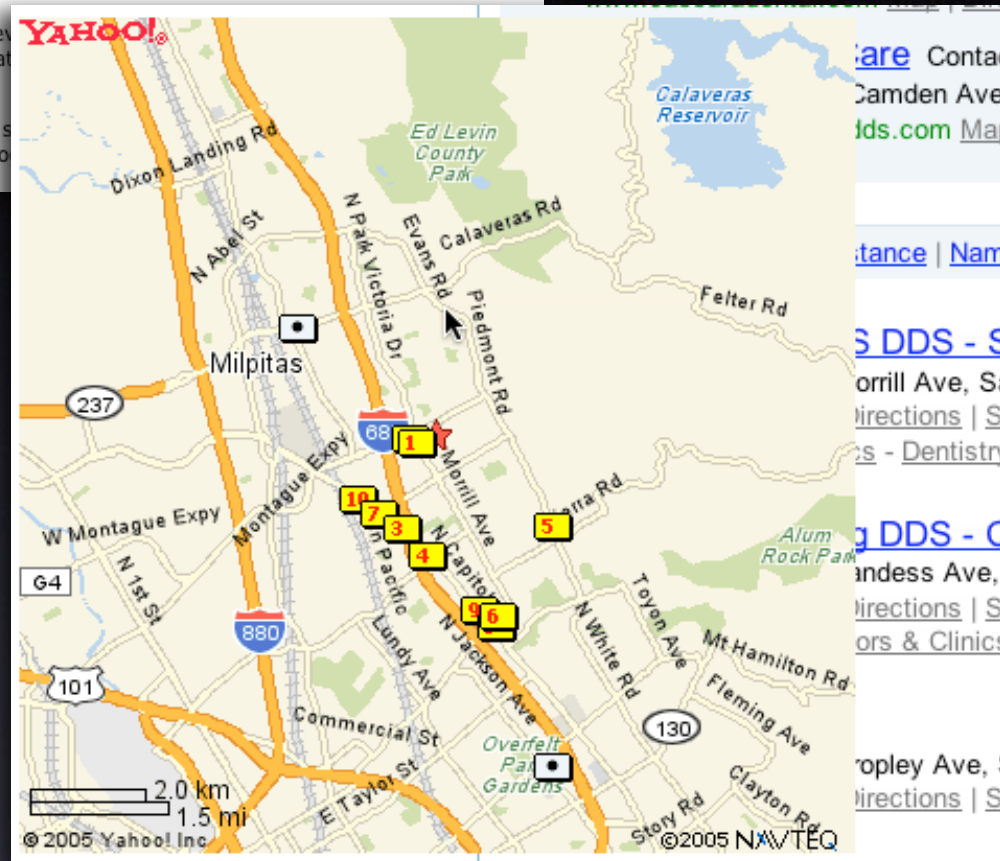
To see a product preview in action, hover over the link below.



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 preview through a product preview-enhanced link will receive a \$5 Amazon gift certificate [testing product previews](#).

Don't worry if you don't already have Basic Display Product Links on your Web site process. [Click here](#) for answers to questions you might have about the beta program.

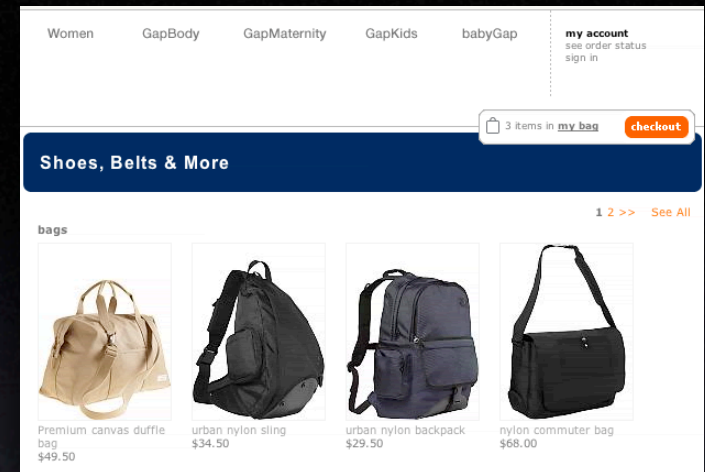
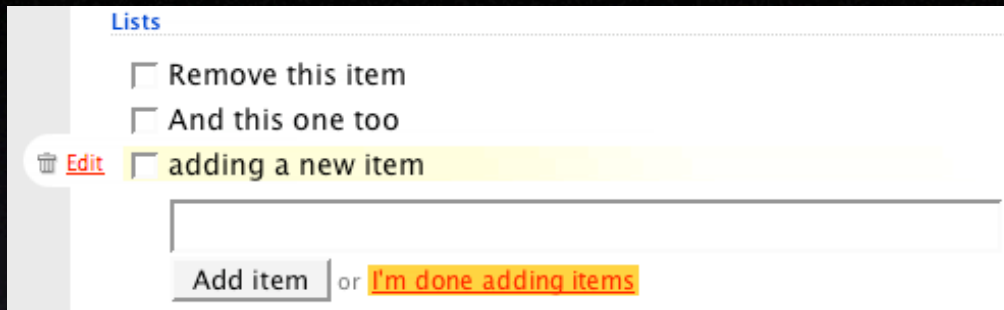


Keep actions out of it

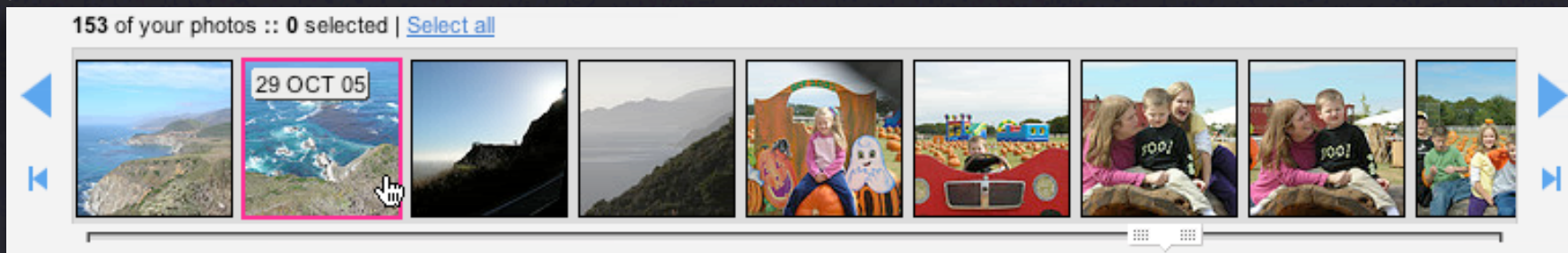
Let the user feel free to explore
Don't proselytize

principle. show transitions.

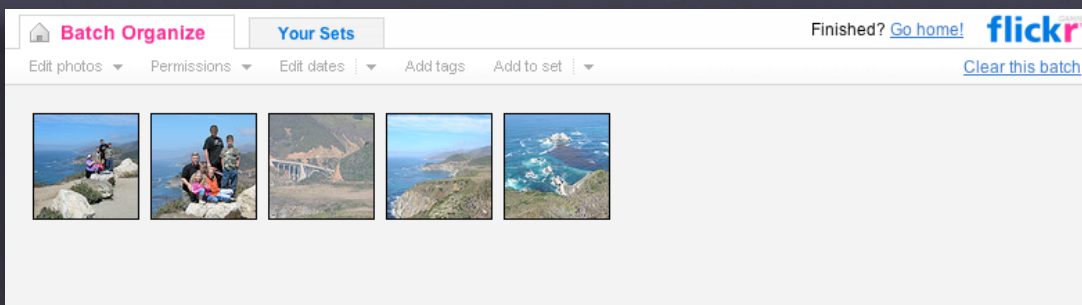
pattern. fade transition + self-healing transition.



pattern. slide transition.



pattern. active spotlight.



Speak to the brain

Understanding attention processing

MIND HACKS

Tips & Tools for Using Your Brain



**Tom Stafford &
Matt Webb**

O'REILLY*

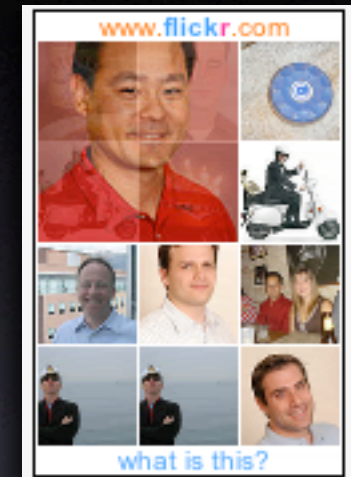
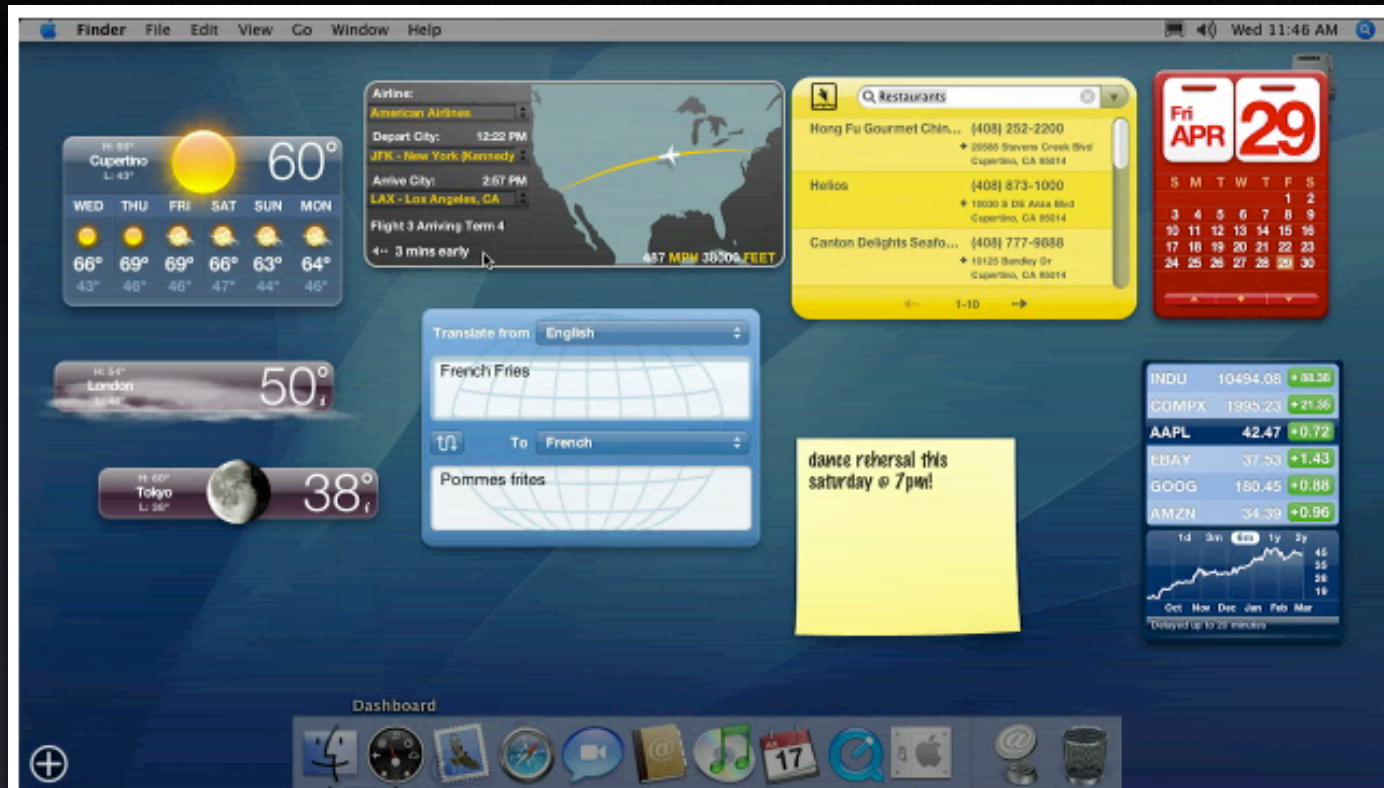
Foreword by Steven Johnson, author of Mind Wide Open

show transitions

Speak to the brain

Understanding attention processing

Sending the wrong message



show transitions

What you can communicate...

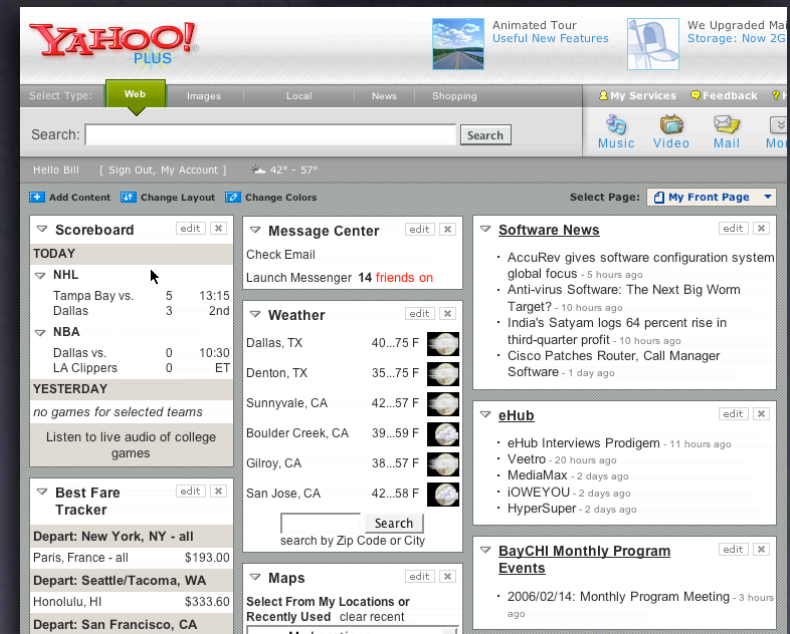
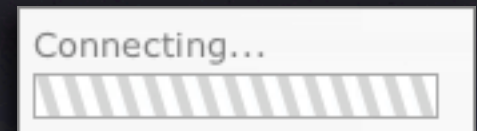
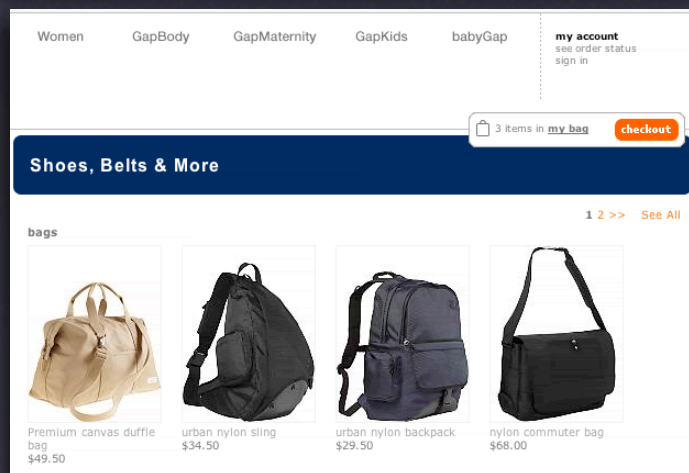
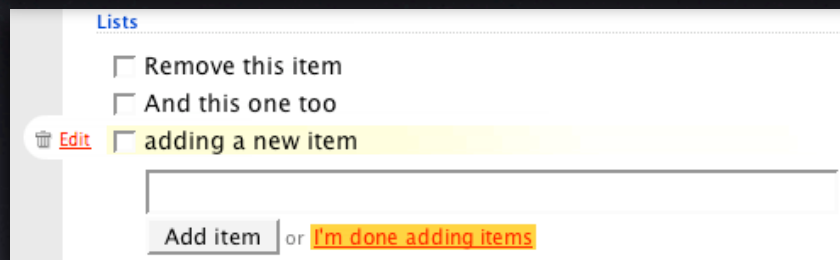
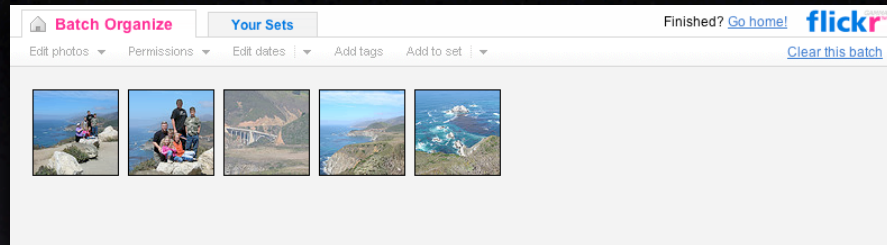
Speed up time

Slow down interaction

Show state change

Show relationships between objects

Focus attention



show transitions

The screenshot shows the Yahoo! Plus homepage. At the top is the Yahoo! logo with 'PLUS' underneath. Navigation tabs include 'Web', 'Images', 'Local', 'News', and 'Shopping'. A search bar is present with a 'Search' button. Below the navigation bar, there's a 'Hello Bill' greeting and links for 'Sign Out' and 'My Account'. A 'Select Page:' dropdown is set to 'My Front Page'. The main content area is divided into several modules: 'Scoreboard' (NHL, NBA, YESTERDAY), 'Message Center' (Check Email, Launch Messenger), 'Weather' (Dallas, TX, Denton, TX, Sunnyvale, CA, Boulder Creek, CA, Gilroy, CA, San Jose, CA), 'Software News', 'eHub', 'Best Fare Tracker', and 'Maps'. The 'Scoreboard' module shows NHL games (Tampa Bay vs. Dallas) and NBA games (Dallas vs. LA Clippers). The 'Weather' module shows temperatures for various cities. The 'Software News' module lists articles about AccuRev, Anti-virus Software, and India's Satyam. The 'eHub' module features a '678 Your Credit Score - \$0' banner. The 'Best Fare Tracker' module shows flight prices from Wichita, KS to San Francisco, CA (\$256.00) and from Kansas City, MO to San Francisco, CA (\$241.00). The 'Maps' module allows users to select from recent locations or clear them.

The screenshot shows the Yahoo! homepage. At the top is the Yahoo! logo. Navigation tabs include 'Web', 'Images', 'Video', 'Local', 'News', and 'Shopping'. A search bar is present with a 'Search' button. Below the navigation bar, there's a 'Hello Bill' greeting and links for 'Sign Out' and 'My Account'. A 'Select Page:' dropdown is set to 'My Front Page'. The main content area is divided into several modules: 'Weather' (Dallas, TX, Denton, TX, Sunnyvale, CA, Boulder Creek, CA, Gilroy, CA, San Jose, CA), 'Scoreboard' (NHL, NBA, YESTERDAY), 'eHub', 'Best Fare Tracker', 'Message Center', 'Maps', and 'Travelocity'. The 'Weather' module shows temperatures for various cities. The 'Scoreboard' module shows NHL games (Tampa Bay vs. Dallas) and NBA games (Dallas vs. LA Clippers). The 'eHub' module features a '678 Your Credit Score - \$0' banner. The 'Best Fare Tracker' module shows flight prices from Wichita, KS to San Francisco, CA (\$256.00) and from Kansas City, MO to San Francisco, CA (\$241.00). The 'Message Center' module shows 'Check Email' and 'Launch Messenger'. The 'Maps' module allows users to select from recent locations or clear them. The 'Travelocity' module shows flight deals from San Francisco, CA to Dallas/Fort Worth, TX (\$193+) and from San Jose, CA to Dallas/Fort Worth, TX (\$263+).

Keep it sane

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

key principle

Feedback

Provide invitations beforehand,
transitions during,
and feedback after interaction



Interaction

Feedback

Info

information principles

principle. think in objects.

Schedule ViewMap 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.

think in objects

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

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

[Y! 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](#)

The screenshot displays a Yahoo! Trip Planner interface. At the top, there's a green header with 'TRIP PLANNER' and navigation links: 'Explore', 'Browse Trips', and 'Create a Trip'. Below this, a search bar contains 'amsterdam' and a 'GO' button. The main area features a map of Amsterdam with yellow roads and blue water bodies. A sidebar on the right shows map controls (Map, Hybrid, Satellite) and a vertical zoom slider. Below the map, there's a Flickr photo gallery titled 'All your photos' with a search bar and a 'Jump to date' link. The gallery shows a row of 11 photo thumbnails, with the first three highlighted. The first thumbnail shows a canal in Amsterdam, the second shows a stone archway, and the third shows a night scene with lights. The gallery also includes a '338 of your photos :: 91 selected' status and 'Select all' and 'Clear selection' links.

principle. tie information to interactivity.



pattern. multi-variate views.

tie information to interactivity

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


[Home](#) | [Sign Up for Email](#)

[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](#)

tie information to interactivity

Think “deeper interaction”

Multi-variate data




Interesting relationships

The screenshot displays a desktop environment with several applications open. On the left, a map of San Francisco is shown, highlighting the Richmond District and surrounding areas. Below the map is a calendar for April 2006, with the 11th and 12th highlighted. To the right of the calendar is a partially visible poster for 'All About Music & Galleries Theater'. The main window is an email client, showing a list of folders (Inbox, Sent, Drafts, Junk, Trash) and a search bar. The selected email is from 'Fred Friend' with the subject 'Skype Me and Map My Location'. The email content includes a message about calling at (415) 555-1212 and a map of the location at 1101 Park Pl, San Mateo, CA 94403.

Think “deeper interaction”

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

Students to Enroll

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

Course Calendar

◀

DEC 2005

▶

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

key principle

Info

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
ue.corp.yahoo.com/bscott/share/presentations/2007/e7

```
YAHOO.util.Motion = function(e1, attributes, duration, method) {
    if (!e1) {
        this.initMotion(e1, attributes, duration, method);
    }
    YAHOO.util.Motion.prototype = new YAHOO.util.Anim();
    YAHOO.util.Motion.prototype.initMotion = function(e1, attributes, duration, method) {
        YAHOO.util.Anim.call(this, e1, 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](#)

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USER NEEDS TO

- NAVIGATE
 - [Breadcrumbs](#)
 - [Faceted Navigation](#)
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- Tabs
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- CUSTOMIZE
 - [Drag and Drop](#)
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APPLICATION NEEDS TO

- CALL ATTENTION
- IMPROVE READABILITY
 - [Ratings & Reviews](#)
 - [Review Architecture](#)
- GROUP RELATED ITEMS
- ORGANIZE SCREEN/PAGE

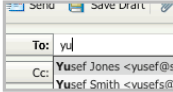
Welcome

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...](#)

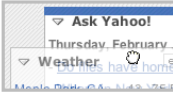
Recent Patterns




[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.




[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.



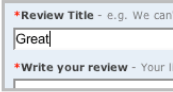
[Object Pagination](#)
The user needs to view data items from a potentially large set of sorted data that will not be easy to display within a single page.



[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.