

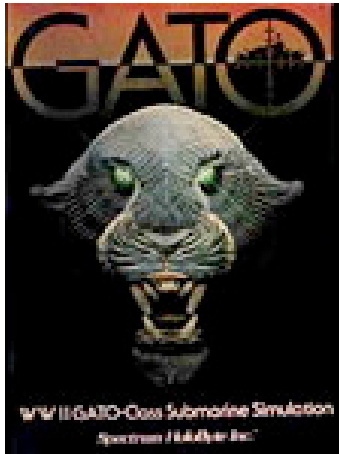
designing for ajax

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 `gotosip.js` effort from the Ruby on Rails folks.

OPEN SOURCE

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

BROWSER SUPPORT

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

AJAX SUPPORT

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

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

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 zone and Rico handles the rest.

CINEMATIC EFFECTS


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


BEHAVIORS

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

NEW! LiveGrid Behavior!

Check out the Alternative to Paging!





See Rico in Action!

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
 - Navigation Tabs
- EXPLORE DATA
 - Auto Complete
 - Calendar Picker
- Pagination
 - Item Pagination
 - Search Pagination
- ORGANIZE DATA
- GIVE FEEDBACK
 - 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
 - Architecture Review
 - 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](#).

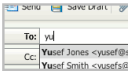
What's a Pattern?

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 ambiguous or hard to remember and therefore has the potential to be mis-typed.



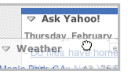
Breadcrumbs

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



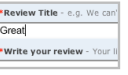
Search Pagination

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



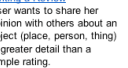
Rating an Object

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.



The Yahoo! logo, featuring a stylized 'Y' with an exclamation point inside a purple circle.

2

2

developer.yahoo.com/ypatterns

The screenshot displays the Yahoo! Developer Network Design Pattern Library. The page is organized into several sections:

- Header:** Includes the Yahoo! Developer Network logo, a search bar, and navigation links.
- Design Pattern Library:** A central section with a search bar and a list of design patterns.
- Left Sidebar:** Contains a "USER NEEDS TO" section with a list of patterns: 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 (Architecture Review, Rating an Object, Writing a Review), GIVE FEEDBACK (Ratings & Reviews), PERFORM ACTION (Drag and Drop, Drag and Drop Modules, Drag and Drop Objects, In Page Editing, Sliders), CUSTOMIZE (Drag and Drop, Drag and Drop Modules, Drag and Drop Objects, In Page Editing, Sliders), APPLICATION NEEDS TO (CALL ATTENTION, IMPROVE READABILITY, GROUP RELATED ITEMS, ORGANIZE SCREEN/PAGE).
- Main Content Area:** Features a "Welcome" message, a "What's a Pattern?" section, a "Recent Patterns" list, and a "Ratings and Reviews" section. The "Ratings and Reviews" section includes a "Problem Summary" (User wants to leave an opinion or evaluate quick opinions), "Solution Patterns" (Architecture of a Review, Rating an Object), and an "EXAMPLE:" section showing a restaurant rating interface.
- Right Sidebar:** Includes a "QUICK JUMP" section with links to Solution, Rationale, and Accessibility, and a "RELATED PATTERNS" section with links to Ratings and Reviews, Architecture of a Review, and Writing a Review.





current patterns.

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



rich patterns.

Drag and Drop. Drag and Drop Modules. In Page Editing. In Page Custom Editing. Direct State Editing. Grid Cell Editing. Inline Custom Editing. Inline Tag Editing. Popup Custom Editing. Slide-out Custom Editing. Inline Text Editing. Persistent Portals. Inline Reordering. Indication. Busy Indication. Cursor Busy. In Context Busy. In Context Progress. Inline Status. Auto Complete. Balloon Error Tip. Deferred Content Loading. Dynamic Goal. Narrowing Choices. Refining Search. Live Search. Dynamic Filter. Invitation. Cursor Invitation. Drop Invitation. Tool Tip Invitation. Hover Invitation. Detail Zoom. Opacity Focus. Configurable Module - Faceplate. Configurable Module - Flip It. Configurable Module - Inline Configure. Configurable Module - Slide Out Drawer. Slide Out. Flip. Opacity Fade. Endless Scrolling. Expandable Paging Boundary. Fresh Content. Hover Detail. In Place Drill Down. Inline Assistant. Inline Validation. Validate Then Suggest. On Demand Refresh. Periodic Refresh. Resizable Modules. Scrolling Modules. Auto Save. In Context Tools. Remembered Collection. Remembered Preferences. Auto Form Fill. Rating an Object. Transition. Brighten Transition. Cross Fade Transition. Dim Transition. Expand Transition. Fade In Transition. Fade Out Transition. Flip Transition. Move Transition. Self-Healing Transition. Collapse Transition. Slide Transition. Rich Internet Object. Available. Selected. Identifiable Object.



classic model. rich model.

My Profile

Photo

Name

Gender

Age

Http
Response

Http
Request

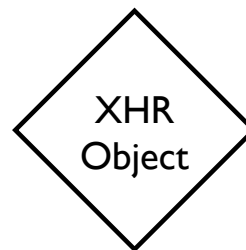
Server

My Profile

Name

Gender

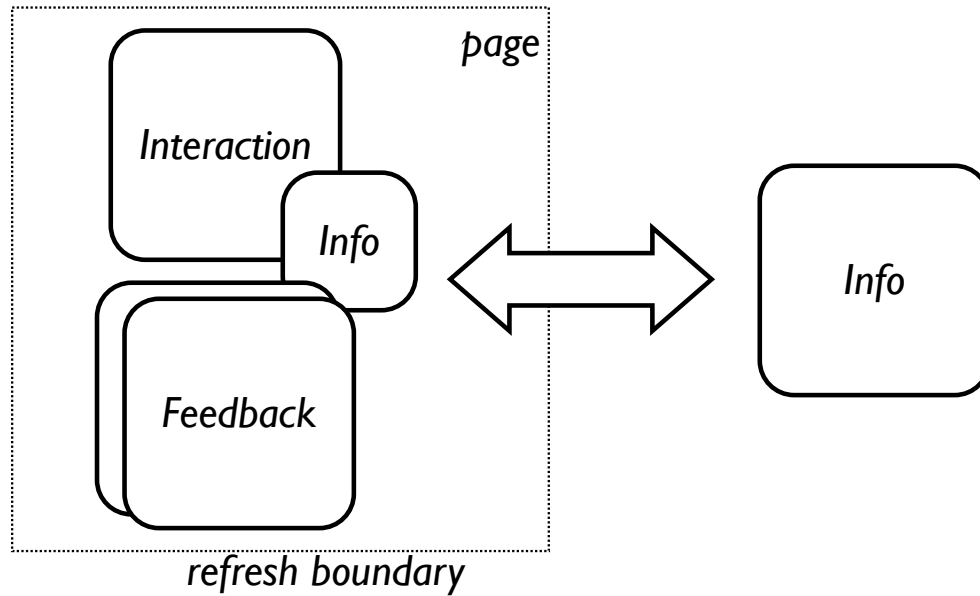
Age



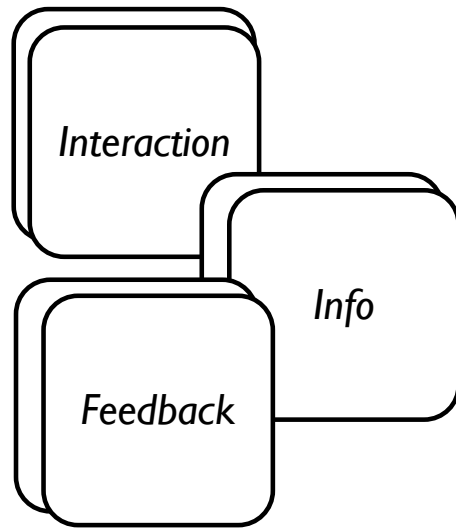
Server



interaction. presentation. data.



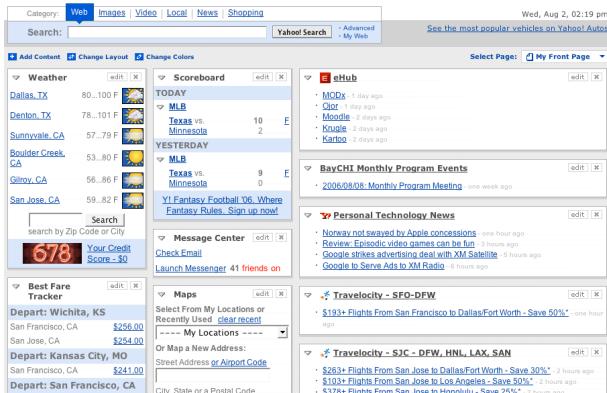
data near. interaction rich.



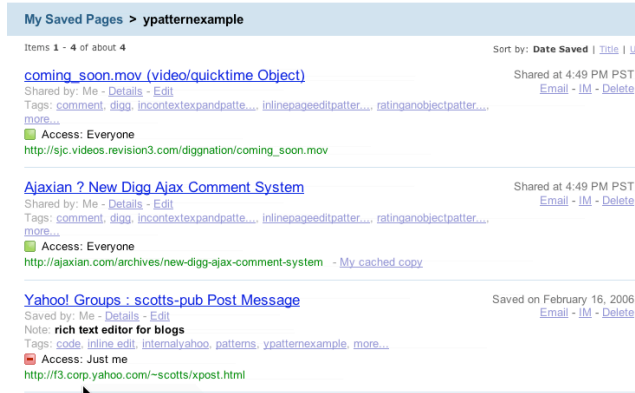
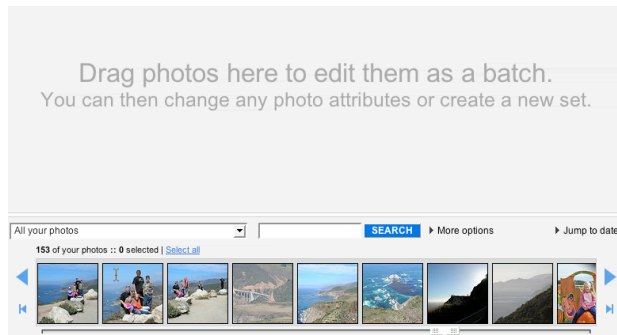
design principles for richness



principle. make it direct.



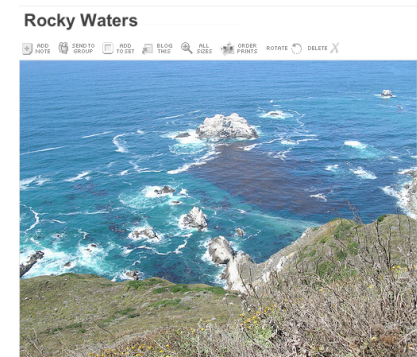
pattern. drag and drop.



pattern. inline editing.



pattern. in-context tools.



Pick Up at the Store

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



make it direct

Prefer interaction within the page

What about discoverability?



State park near our home in San Jose

Click to edit

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

Photos are from
22 Oct 05.



make it direct

Prefer interaction within the page

What about discoverability?

Use direct editing on page content

What about save/cancel?

Avoid page jitter

Reduce the feeling of modes



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

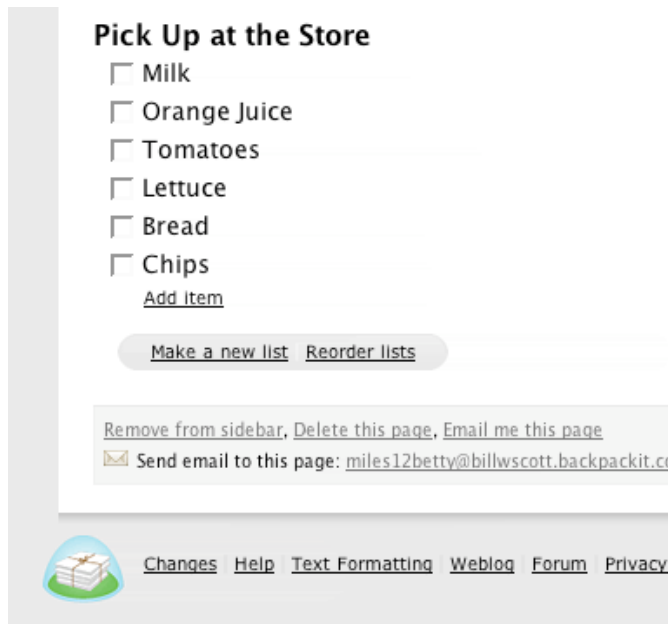
SAVE OR CANCEL



make it direct

Prefer interaction within the page

What about discoverability?



Use direct editing on page content

What about save/cancel?

Avoid page jitter

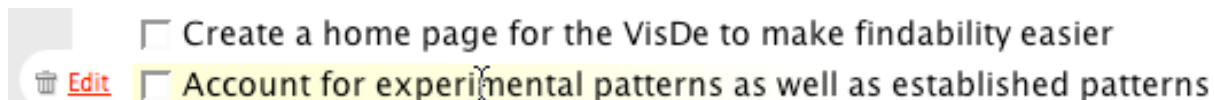
Reduce the feeling of modes

/Photos/Tags/ san franc

/GeoTagged/San Diego Internationa



/Photos



Provide in-context tools

Only good for single operations

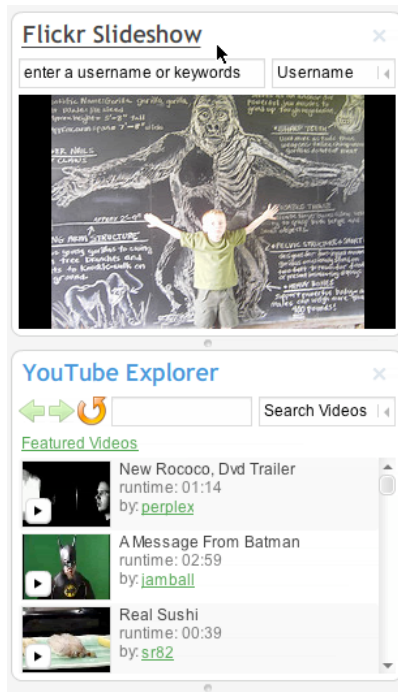
Can actually slow you down



make it direct

Prefer interaction within the page

What about discoverability?



Pick Up at the Store

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

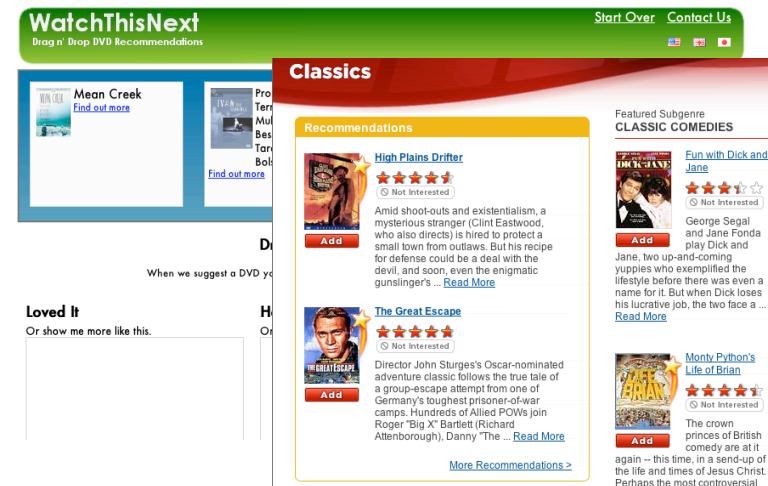
- What is spam?
- Can I transfer my message credits?
- How do I delete my HandyPay account?
- What if I didn't receive my full message package?
- I need to contact customer care regarding the Compose Text Message service.

Use direct editing on page content

What about save/cancel?

Avoid page jitter

Reduce the feeling of modes



Use drag and drop where appropriate

Not for simply setting an attribute

Good for layout changes or containment

Needs transitions

Provide in-context tools

Only good for single operations

Can actually slow you down





make it direct

Take care of the interesting moments

Drag and Drop Modules - Interesting Moments Grid




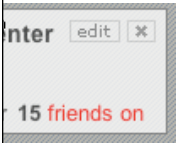
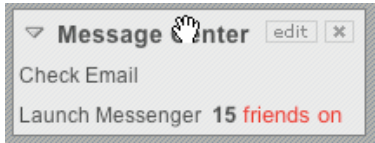
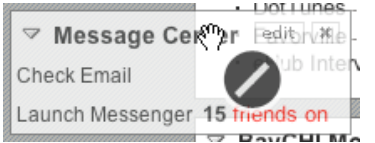
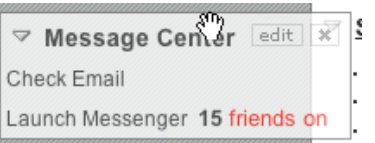
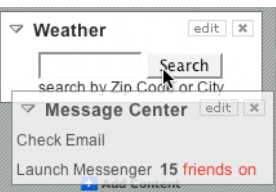
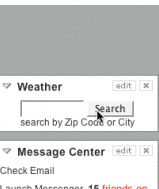
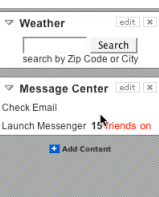
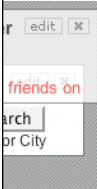
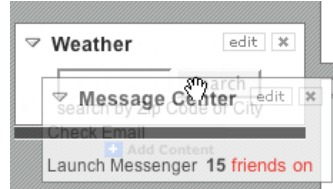
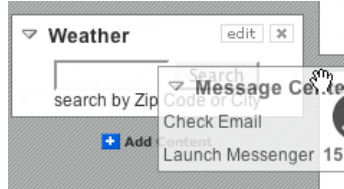
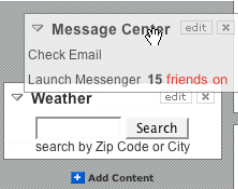
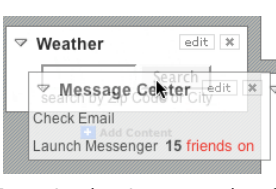
Currently on beta.my.yahoo.com		ID: Bill Scott & Eric Miraglia		Date: Nov-05				
	Mouse Hover	Mouse Down	Drag Initiated	Drag Over Valid Target	Drag Over Invalid Target	Drag Over Parent Container	Drop Accepted	Drop Rejected
Cursor							Normal Cursor	Normal Cursor
Tool Tip	CSS Move cursor	CSS Move cursor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



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

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 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](#)

[FINANCE](#) [TOOLS & RESEARCH](#) [MY MARKETWATCH](#) [MY STORIES\(0\)](#)

anal ruling

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Dow Jones Industrial Average, as
distance of a new high.



backward looking and reflects a time



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overview

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select Color: **royal grape**

\$29.50 **Buy 2 or more, \$25.00 each**



\$29.50 **\$9.99**



select Size:



[size chart](#)

Quantity:

1

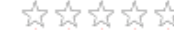
royal grape

\$29.50 \$9.99

[add to bag](#)

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](#)



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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 collection.




keep a light footprint

Watch your click weight


Keep actions immediate and light
Count "clicks"

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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[More Recommendations >](#)

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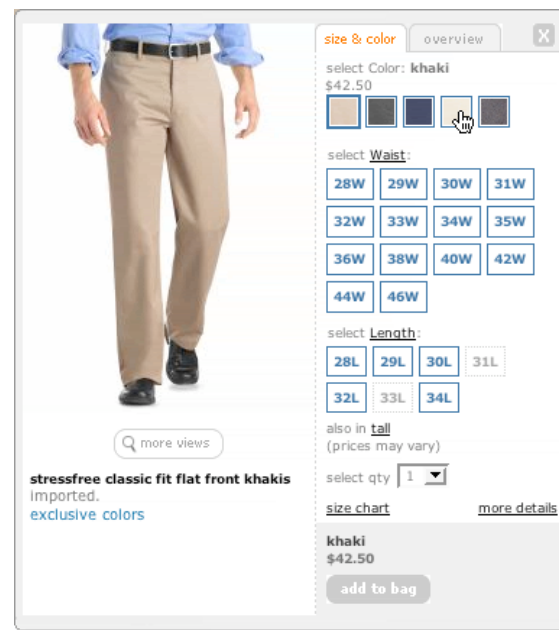
keep a light footprint

Watch your click weight

Keep actions immediate and light
Count "clicks"

Design for engaging moments

Use invitations
Keep it fun, exciting and light
Treat it like an impulse aisle



The Critics: B- 14 reviews	My Grade: Rate this Movie! Select grade to the right write a review	A B C D F
Yahoo! Users: B+ 13199 ratings		



keep a light footprint

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RECOMMEND THIS STORY

Recommend It:



Average (63 votes)



Use lightweight events

Hover

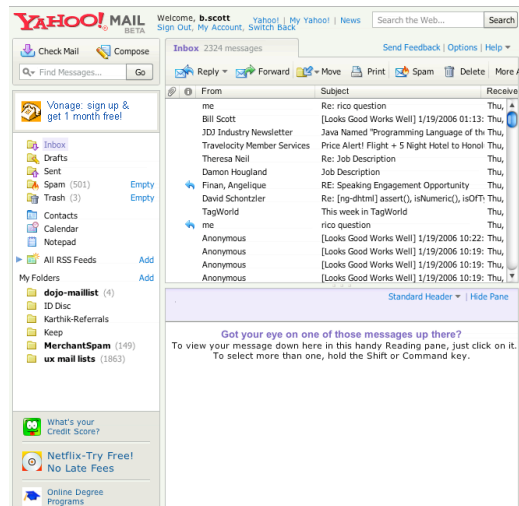
Blur, focus

Click. Avoid double-click

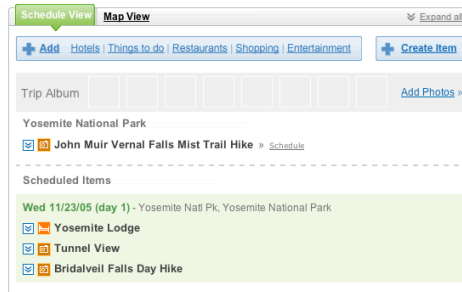


principle. cross borders reluctantly.

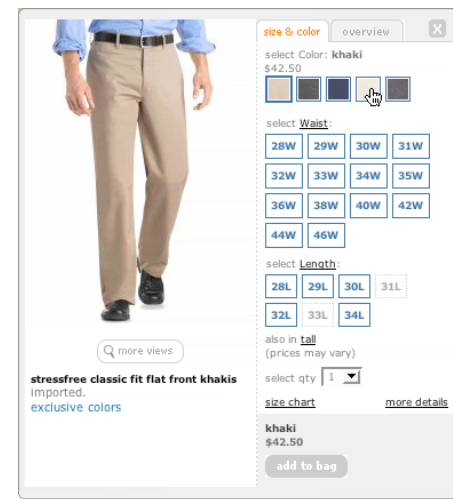
pattern. on-demand scrolling.



pattern. in-context expand.



pattern. inline assistant.



pattern. hover details.

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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

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 (DOWJ) - 11,711.49, +42.10, +0.4% - 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) - 2,267.18, +5.84, +0.3% - was up 7 points at 2,268 while the S&P 500 Index (SPX) - 1,338.79, +2.45, +0.2% - gained 2 points to 1,338.

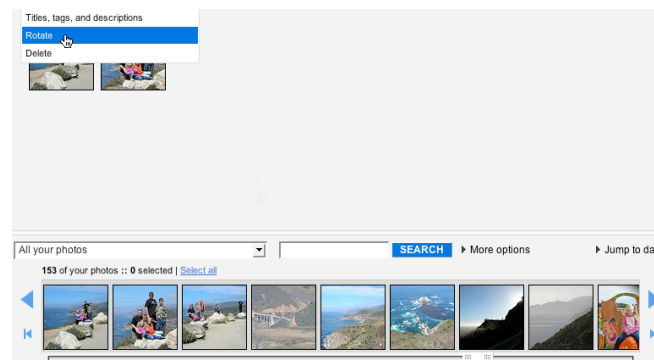
"Why shouldn't the market be going up?" says Art Hogan, chief market strategist at Jefferies & Co. "You have lower energy prices and low interest rates. You have McDonald's raising its dividend and some good news for Intel. There's more good news than bad news out there."

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) - 461.44, +2.45, +0.5% - , networkers (NWX) - 238.63, +2.01, +0.8% - , biotech (BTE) - 668.93, +8.68, +1.3% - and oil (OIL) - 585.28, +6.57, +1.1% - and oil service (OSC) - 185.02, +3.76, +2.1% - stocks put in solid gains.

pattern. lightweight popup + lightbox

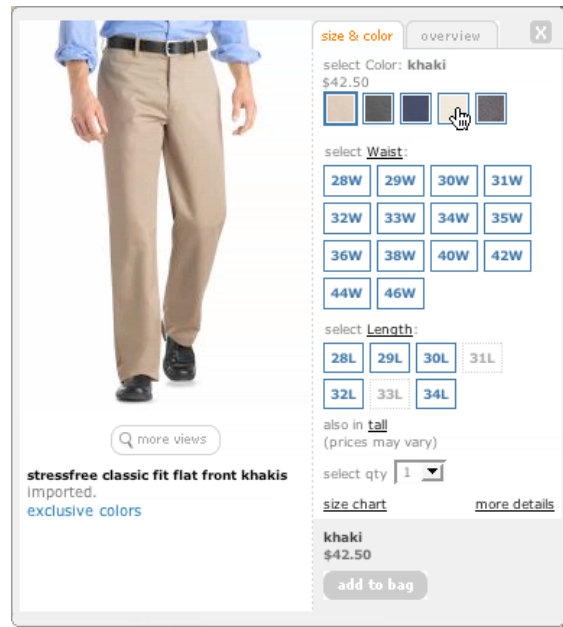


cross borders reluctantly

Rethink process flows

Its the user's model, not the page model

Every page jump is a mental speed bump







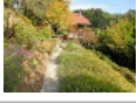
cross borders reluctantly

Rethink process flows

Its the user's model, not the page model
Every page jump is a mental speed bump

Rethink paging

Its the user's model, not the paging model
Use scrolling for "owned" data
Watch out for dual scroll bar issue

Photo Click for info	Price	Bd/Ba Sq Ft	Address and Area Presented By	MLS # (Click for info)	More Photos (Click for info)	Virtual Tours (Click for info)
	\$1,750,000 Single Res	6+, 4+ 3700	14080 BEAR CREEK RD Boulder Creek, CA 95006 (San Lore Valley) Schwarzbach Associates			
	\$1,995,000 Single Res	6+, 4+ 5675	17617 MOUNTAIN CHARLIE RD LOS GATOS, CA 95033 (Unincorporated Los Gatos Mtns) Almaden Oaks Realtors			
	\$2,286,000 Single Res	5, 4+ 4800	20930 PANORAMA DR Los Gatos, CA 95033 (Los Gatos Mtns) Alain Pinel Realtors			
	\$2,750,000 Single Res	5, 4+ 5000	155 LARITA DR Ben Lomond, CA 95005 (San Lore Valley) Network Alliance Real Estate			
	\$2,777,000 Single Res	5, 4+ 5819	777 HAPPY VALLEY RD Scotts Valley, CA 95065 (Scotts Valley) Linda Burroughs Real Estate			

New Search

<< Previous

RICO AJAX SEARCH


LiveGrid Demonstration

Powered by Yahoo! Search


Select Search Category: Web **Images** Videos

Search Images:


Search Results Results 1 - 5 of about 1580284 for flowers




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




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



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



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



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



cross borders reluctantly

Use overlays

For more information

Replace page transition

When editing an individual, more complex item

Be symmetrical

Try not to disturb the page

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



Monkey Business



One of the Marx Brothers' funniest movies, the title of the film says it all as Groucho, Harpo,

Chico and Zeppo stow away on a luxury liner. Before ... [Read More](#)



Lackawanna Blues

All Discs Guaranteed!

You loved it.

Now own it for just **\$5.99**

- FREE shipping
- original artwork
- hardcover case

[Shop now](#) for our previously viewed title: low as \$!

Rate Your

NETFLIX

Bill Scott | Your Account | Buy / Redeem Gift | Help

Browse Recommendations Friends Queue Buy DVDs

Get Recommendations (869) Rate Movies Movies You've Rated (234)

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](#)

[Add All](#)

12 Angry Men

★★★★★
Not Interested

A guilty verdict means death -- but the jury's not about to let that spoil their 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](#)

[Add](#)

You Have Recommendations!

Get more recommendations by rating more movies.

[Rate More Movies](#)

You've rated **234** movies.

Browse

[All Recommendations](#)

Favorite Genres: [Edit](#)

- Action & Adventure (89)
- Drama (123)
- Sci-Fi & Fantasy (5)
- Television (84)
- Thrillers (29)
- Comedy (38)
- Classics (223)
- Documentary (72)

Other Genres:

- Anime & Animation (19)
- Children & Family (33)
- Foreign (123)
- Independent (4)
- Music & Musicals (10)
- Romance (10)

Helpful Tip

Seen any of these movies?

★★★★★

[See All Recommendations >>](#)

CLASSICS DRAMA





Home



Prints & Gifts



View Cart



Settings



Help ▾

[+ Upload Photos](#)



All My Photos



My Albums



Paris06



My Tags



My Friends' Photos

Friendly advice for photo sharing.



All My Photos

Slideshow

Create ▾

Share ▾

Edit ▾

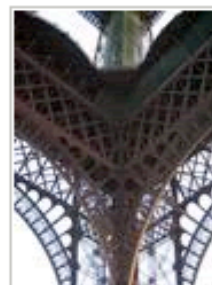
Prints & Gifts ▾

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

cross borders reluctantly

Use overlays

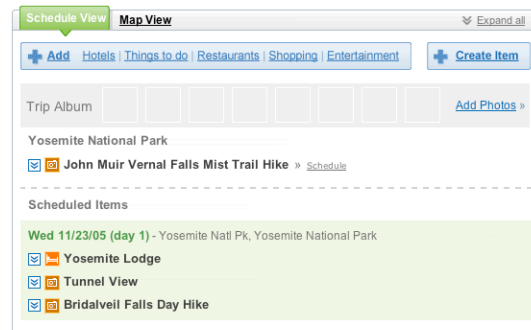
For momentary interruption

Replace page transition

When editing an individual, more complex item

Be symmetrical

Not disturb the page

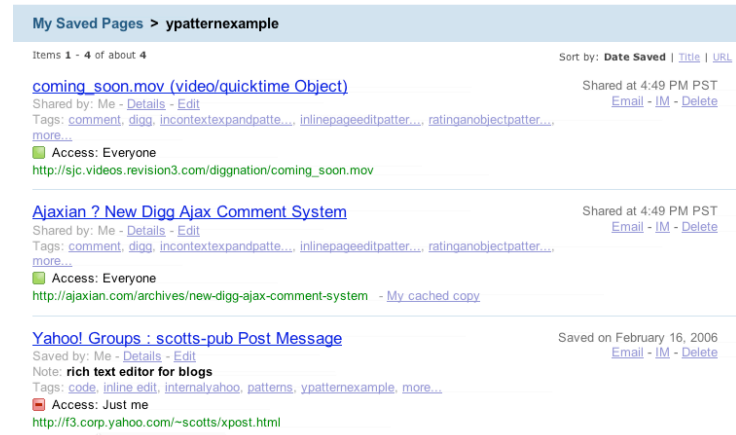


Use in-context expands

For editing part of a collection

Need to see surrounding context

For managing content modules



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

[Christians Code Heavenly Games](#)

[Cloning the Best in Show](#)

[Brain Workouts May Tone Memory](#)

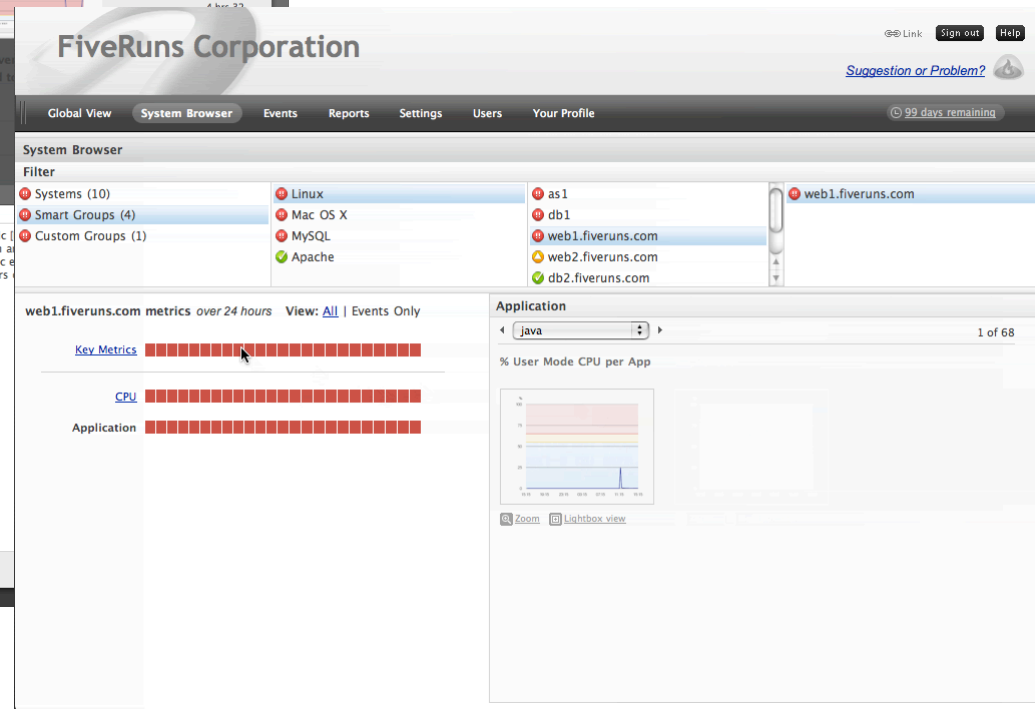
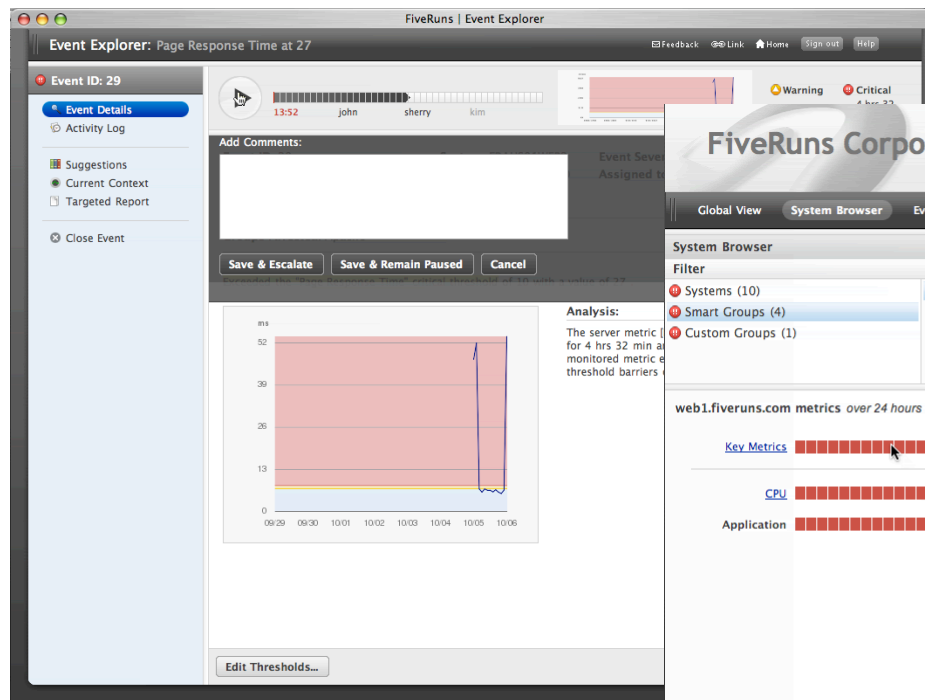
Movies [edit](#) [X](#)

[Showtimes for 76208 »](#)

Must Love Doas 1hr 30min - Rated PG-13



cross borders reluctantly



Use real-estate creatively

Use Slideouts

Us in-place zoom

Remember the backstage



The screenshot shows a Yahoo! homepage with a 'Featured' section featuring 'Animal cams' and 'Celebrity spirits haunt Hollywood hot spots'. The 'Mail' section is prominent, showing a list of emails from 'Bill Scott', 'Kirk Vorsatz', 'Nate Koechley', and 'PayPal'. The 'Weather' section shows '59° - 88°' and 'Local' news. The 'Sign Out' button is visible in the top right corner.

key principle

Interaction

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



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

from: darren 

pattern. live previews.

Find a domain name:

www. billsportfolio.com

(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

[Print](#) [E-mail](#) [Disable live quotes](#)
[RSS](#) [Digg It](#) [Delicio.us](#)

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.

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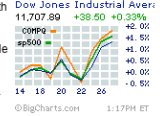
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Dow Jones Industrial Average
11,707.80 +38.60 +0.33%
+2.00
+1.00
+0.50
+0.00
-0.50
-1.00
-2.00



© BigCharts.com 1:17PM ET

give live feedback

Keep the goal in mind

Design for relevancy

Is it narrowing or is it distracting?



Instant Search **BETA**

 Search the Web

Instant Search gives you answers as you type -- no more waiting!

Why feel lucky when you can be right? With Instant Search, results instantly appear for [Yahoo! Shortcuts](#) and common searches. Give it a spin! Type in these examples below, or try your own searches:

- boston weather
- wikipedia
- nfl
- 22 5th ave new york ny
- san francisco coffee shops
- dmv



Web [Images](#) [Groups](#) [News](#) [Froogle](#) [Local](#) [more »](#)

 Google Search I'm Feeling Lucky

When you type, Google will offer suggestions. Use the arrow keys to navigate the results. [Learn more](#)

[Feedback](#) - [Discuss](#) - [Terms of Use](#) - [FAQ](#)

©2006 Google

give live feedback

Keep the goal in mind

Design for relevancy

Is it narrowing or is it distracting?

Use feedback to boost confidence

Let the user iterate where possible

The screenshot displays the alltheweb search engine interface. On the left, there is a sidebar with the 'alltheweb' logo and 'livesearch' text. Below the logo is a search bar with the text 'monterrey' entered. A list of suggestions follows: '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'. At the bottom of the sidebar are links for 'Tell a Friend' and 'Feedback'. The main content area shows search results for 'monterrey', indicating 'Results 1 - 10 of about 8,620,000'. It includes a 'Did you mean: monterrey' suggestion and two columns of 'SPONSOR RESULTS'. The first column contains links to Expedia, Travelocity, and News Results for monterrey. The second column contains a link to 'Monterrey - Weichert'. Below the sponsored results, there is a 'Yahoo! Shortcut' link and a 'Yahoo!s' section with a 'Report them' link. The main search results list includes 'All About Monterrey', 'Monterrey - Wikipedia, the free encyclopedia', and 'International Conference on Financing for Development-2003-main'.



give live feedback

Keep the goal in mind

Design for relevancy

Is it narrowing or is it distracting

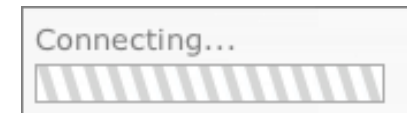
Use feedback to boost confidence

Let the user iterate where possible

Keep the user engaged

Time passes faster

Look for engaging moments



give live feedback

Keep the goal in mind

Design for relevancy

Is it narrowing or is it distracting

Use feedback to boost confidence

Let the user iterate where possible

Keep the user engaged

Time passes faster

Look for engaging moments

Find a domain name:

www.
 (ex. widgetdesigns.com)

Search

Required information for Google account

Your current email address:
 e.g. myname@example.com. This will be your username and sign-in.

Choose a password:
 Minimum of 6 characters in length.

[Password strength:](#) Too short

Use live-previews

Look before you leap



give live feedback

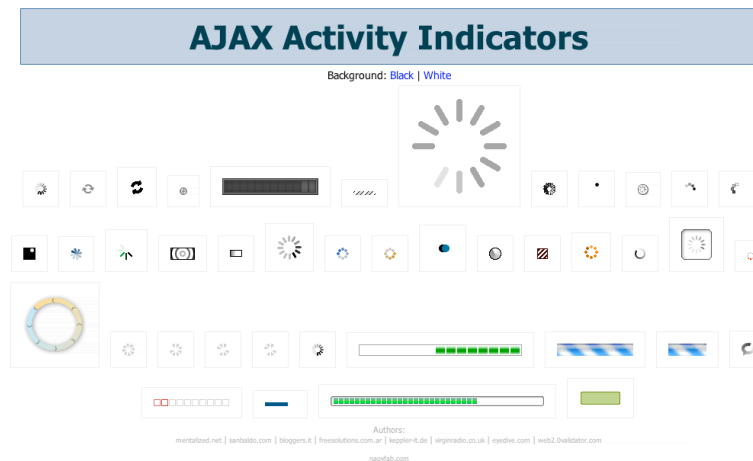
Keep the goal in mind

Design for relevancy

Is it narrowing or is it distracting

Use feedback to boost confidence

Let the user iterate where possible



Use live-previews

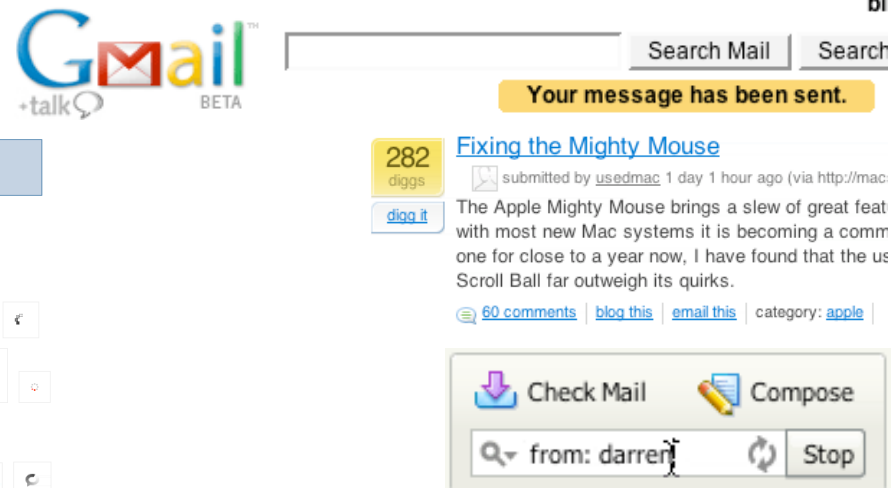
Look before you leap



Keep the user engaged

Time passes faster

Look for engaging moments



Keep feedback focused

Keep it in context

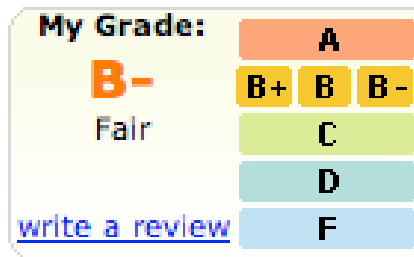
Avoid creating feedback noise/jitter

Show dynamically what is relevant

Updating too many areas at once will be confusing

principle. offer an invitation.

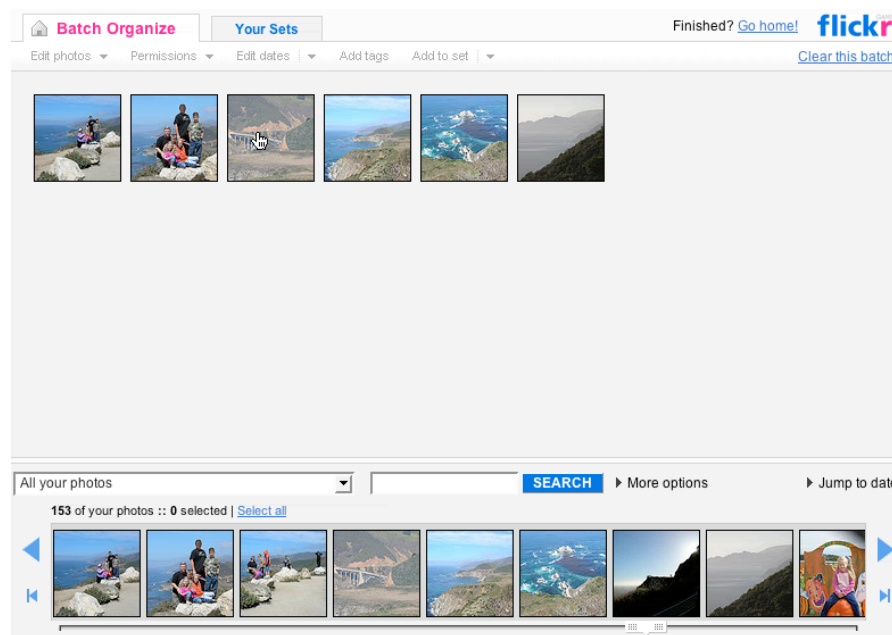
pattern. hover invitation.



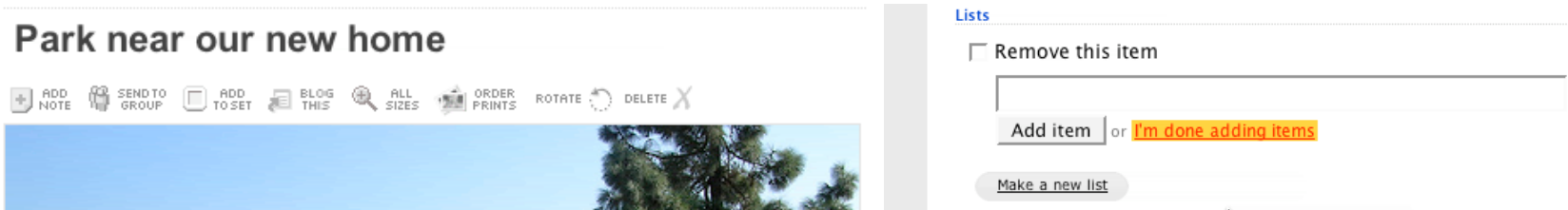
pattern. tour invitation.



pattern. drop invitation.



pattern. tooltip invitation + hover invitation + cursor invitation.



offer an invitation

Make it engaging

Use lightweight events as a welcome mat

Rediscover the hover

My Grade:

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

Lists

☐ Remove this item

Add item or **I'm done adding items**

[Make a new list](#)



offer an invitation

Make it engaging

Use lightweight events as a welcome mat
Rediscover the hover



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



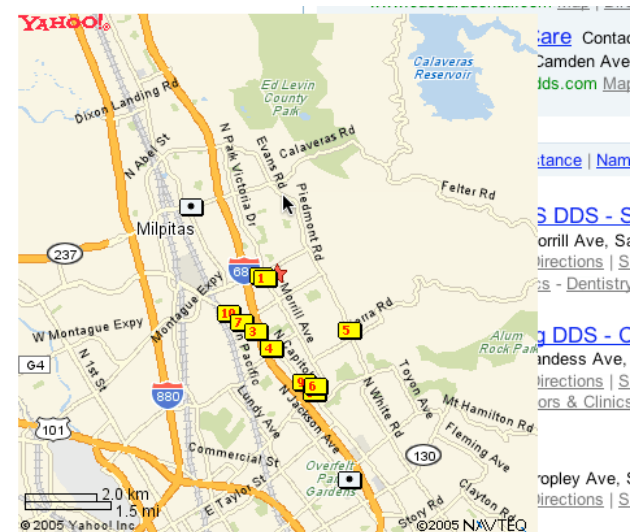
Forty Associates recently added product previews to their Web site as part of a small beta program. During the beta, visitors to Associate sites who viewed a product preview clicked through to Amazon.com over 4% of the time; those clicks resulted in a purchase nearly 6% of the time.

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

Don't worry if you don't already have Basic Display Product Links on your Web site. You can create them as part of the sign-up process. [Click here](#) for answers to questions you might have about the beta program.

Keep actions out of it

Don't make the user afraid to explore
Don't proselytize



offer an invitation

Make it engaging

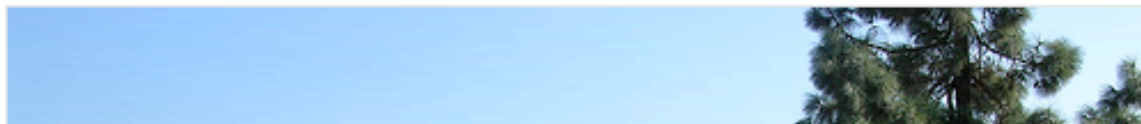
Use lightweight events as a welcome mat
Rediscover the hover

Keep actions out of it

Don't make the user afraid to explore
Don't proselytize

Park near our new home

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



Get the actors involved

Hover Invitation
Cursor Invitation
Tooltip Invitation



offer an invitation

Make it engaging

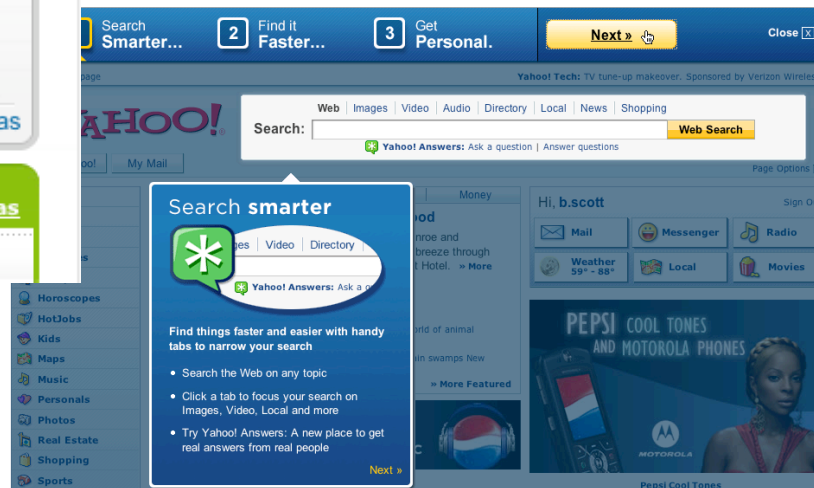
Use lightweight events as a welcome mat

Rediscover the hover

a digital SLR?
Rs are pro-quality digital
with interchangeable
hile they take amazing
ey're expensive and
USE.
[more about digital cameras](#)

[See All Digital Cameras](#)

as



Keep actions out of it

Don't make the user afraid to explore

Don't proselytize



Use invitations to aid discoverability

Two challenges: idiom & feature

Adding signposts, always-on clues doesn't scale

Add tours, help pedals, tips, spotlights

Get the actors involved

Hover Invitation

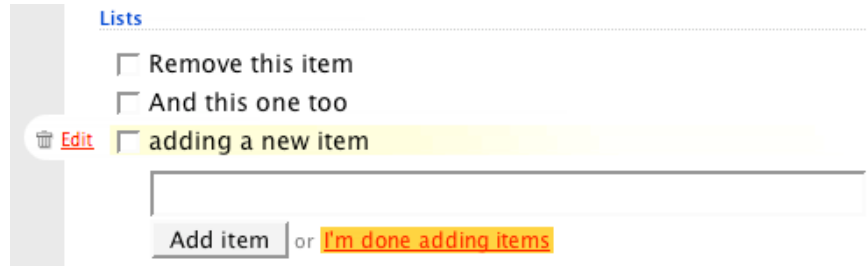
Cursor Invitation

Tooltip Invitation

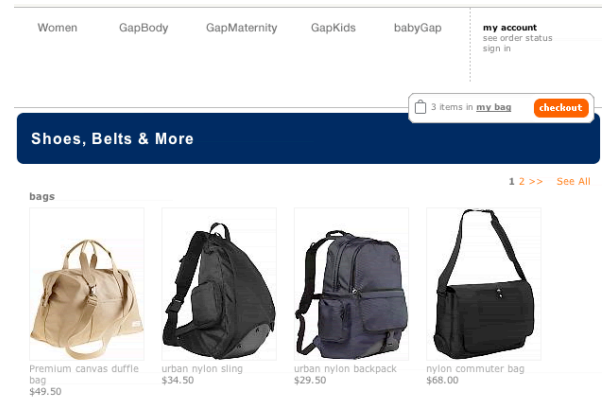


principle. show transitions.

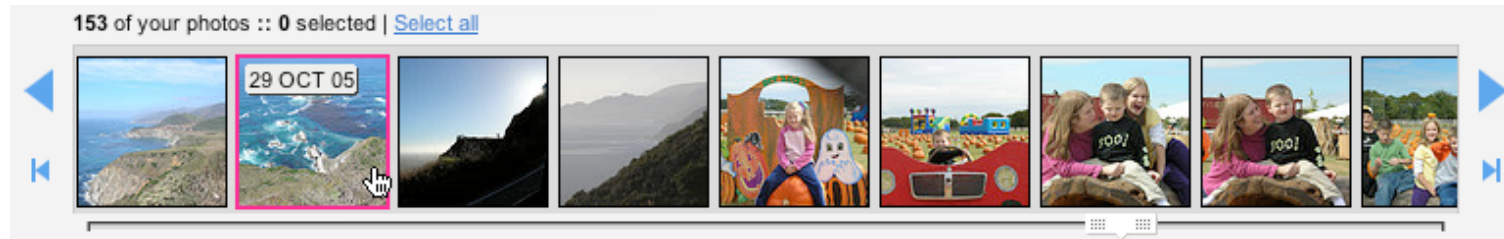
pattern. fade transition + self-healing transition.



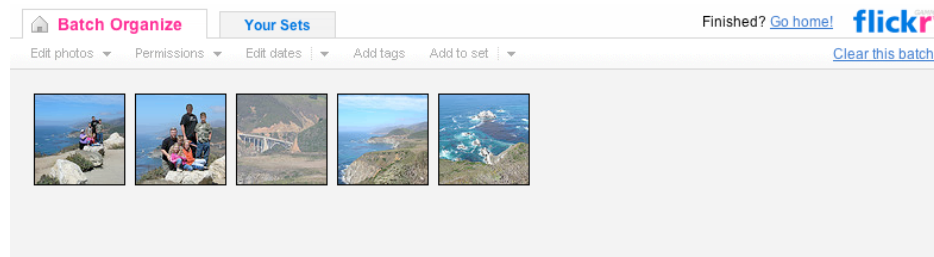
pattern. zoom box.



pattern. slide + animate.



pattern. spotlight.



Speak to the BRAIN

Understanding attention processing

MIND HACKS

Tips & Tools for Using Your Brain



*Tom Stafford &
Matt Webb*

O'REILLY®

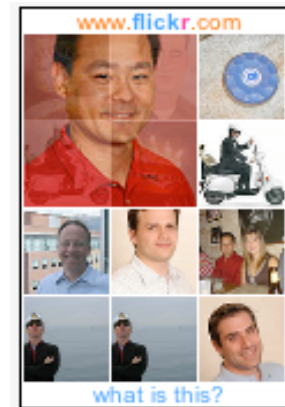
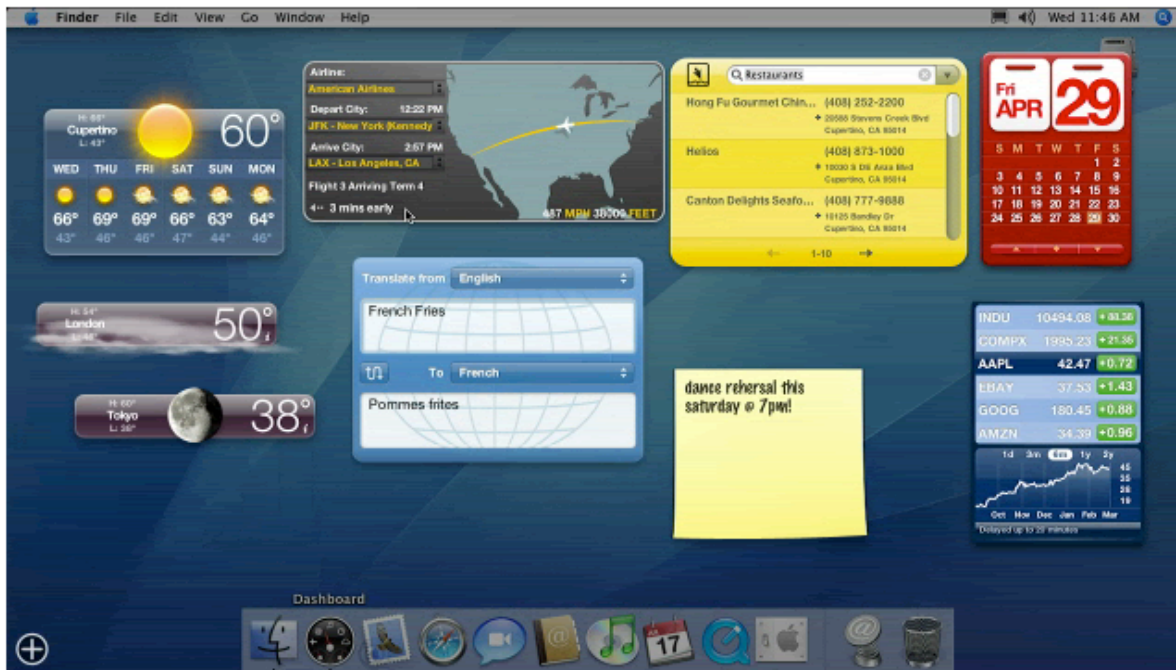
Foreword by Steven Johnson, author of Mind Wide Open



show transitions

Speak to the BRAIN

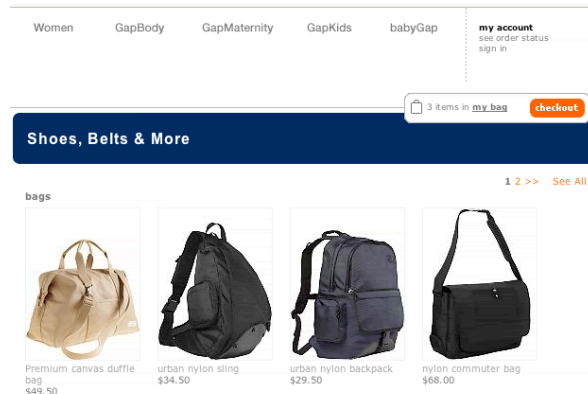
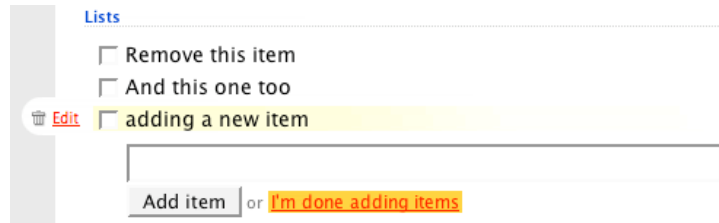
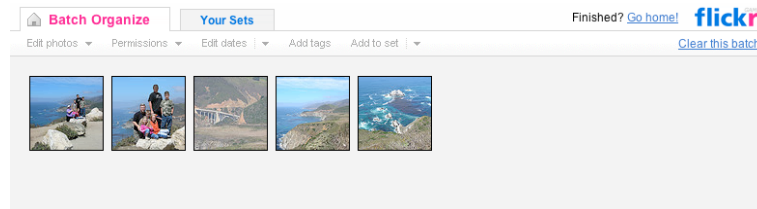
Understanding attention processing
Sending the wrong message



show transitions

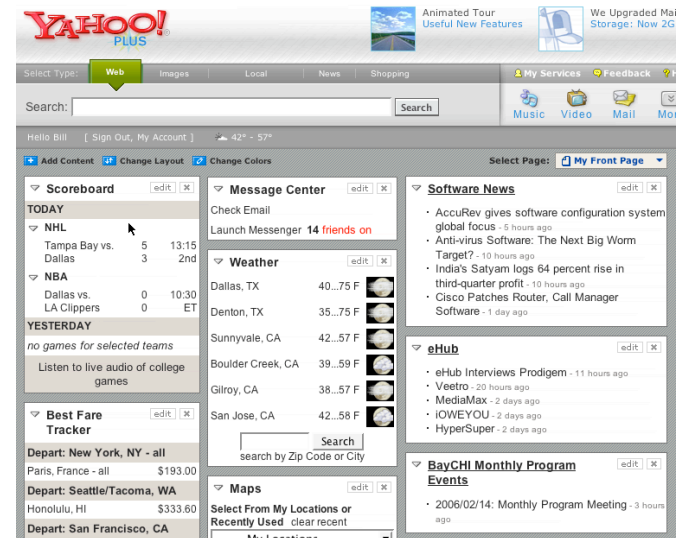
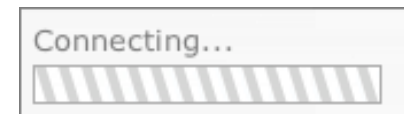
Speak to the BRAIN

Understanding attention processing
Sending the wrong message



What you can communicate

Speed up time
Slow down time
Show state change
Show relationships between objects
Focus attention

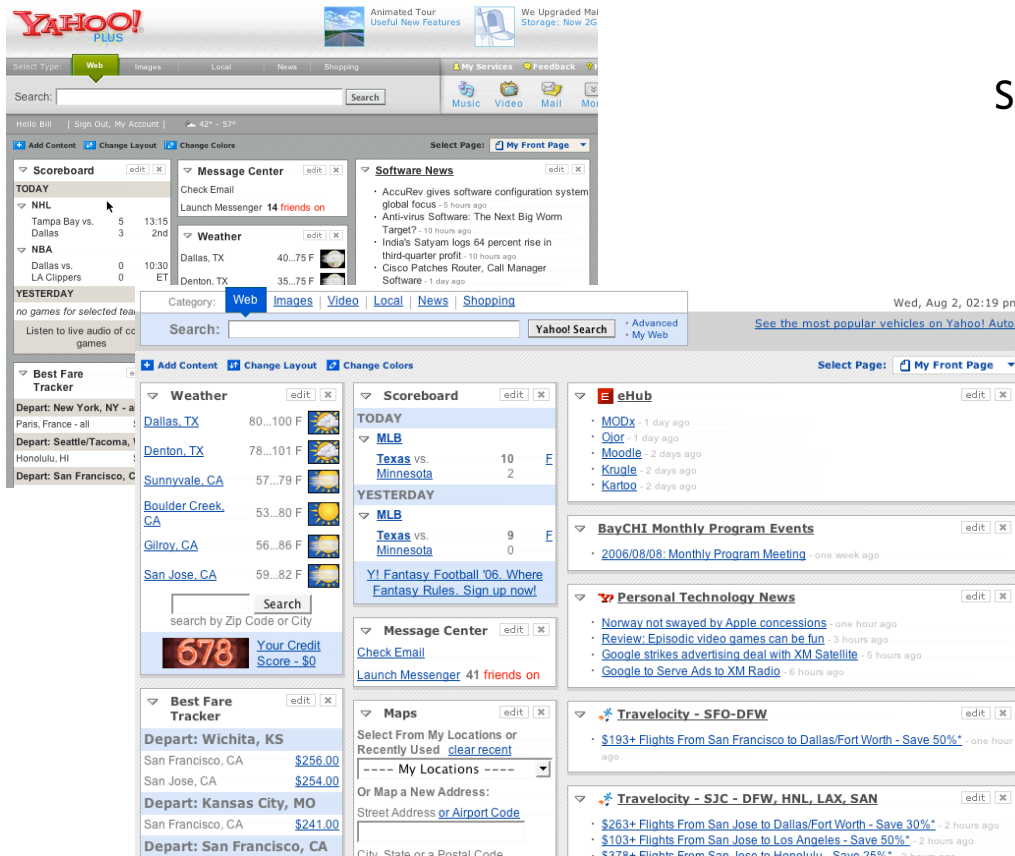


show transitions

Speak to the BRAIN

Understanding attention processing

Sending the wrong message



What you can communicate

Speed up time

Slow down time

Show state change

Show relationships between objects

Focus attention

Keep it sane

“Cut in half” rule of thumb

Use a “contrast knob” approach

Don't overuse



key principle

Feedback

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



principle. think in objects.

The screenshot shows a web application interface for Yosemite National Park. At the top, there are tabs for 'Schedule View' (highlighted in green) and 'Map View'. To the right of the tabs is a link 'Expand all'. Below the tabs is a navigation bar with links: '+ Add', 'Hotels', 'Things to do', 'Restaurants', 'Shopping', 'Entertainment', and a '+ Create Item' button. The main content area is titled 'Yosemite National Park'. It features a card for 'John Muir Vernal Falls Mist Trail Hike' with a camera icon, a phone icon, and links for 'Schedule', 'View', and 'Delete'. The card includes contact information: '+1 209 372 0200', 'Happy Isle Shuttle Stop #16', 'Yosemite National Park, CA 95389', and 'United States'. A description follows: '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'. To the right of the text is a small image of a waterfall. Below the description are sections for 'Notes: [Edit]', 'Tags: [Edit]', and 'Dates: [Add]'. A dashed line separates this section from the 'Scheduled Items' section below. The 'Scheduled Items' section has a green header and lists three items: 'Wed 11/23/05 (day 1) - Yosemite Natl Pk, Yosemite National Park', 'Yosemite Lodge', 'Tunnel View', and 'Bridalveil Falls Day Hike'. Each item in the list has a camera icon and a checkmark icon.

pattern. Shareable Object.



think in objects

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

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

1. [Trip to Amsterdam - photos, history, maps - Virtual trip to Amsterdam](#)
Web trip to **Amsterdam**. Historical and sightseeing overview ... **Trip to Amsterdam**. To begin with **Amsterdam** we should first note, that this city has two features making ... One will never forget a **Amsterdam trip** around the city by river ...
[www.medievalamsterdam.com](#) - 9k - [Cached](#) - [More from this site](#) - [Save](#)

The power of sharing
Bloggable, shareable, findable
How to dial-in community
Collections

The screenshot displays the Yahoo! Travel Trip Planner interface. At the top, the 'YAHOO! TRAVEL' logo is visible alongside a welcome message for user 'b.scott'. Below this is a 'TRIP PLANNER' section with options to 'Explore', 'Browse Trips', and 'Create a Trip'. A search bar is present with the text 'Find a location amsterdam'. The main area features a map of Amsterdam with labels for 'Sloterplas' and 'Het Nieuwe Meer'. To the right of the map is a 'flickr' photo gallery with a search bar containing 'yosemite'. Below the map, there's a section for 'All your photos' showing a grid of 338 photos, with 91 selected. A 'SEARCH' button and 'More options' link are also visible. The bottom left corner shows a small Yahoo! logo.



principle. tie information to interactivity.



pattern. Multivariate Views.





Think deeper interaction
Multi-variate data



EVENTS BROWSER

17 RESULTS

San Francisco CA

1 MH De Young Memorial ... 12 Events

2 Strybing Arboretum 3 Events

3 Amoeba Music 2 Events

Apr 2006

M	T	W	T	F	S	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

All Art Country &
Western Folk Music Misc
**Events Museums
& Galleries**
Music Rock & Pop Sports
Theater




Think deeper interaction

Multi-variate data

Interesting relationships



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

Think deeper interaction

Multi-variate data

Interesting relationships

Just-in-time information



key principle

Info

*Think in objects,
tie information to interactivity*



key principles for richness

Interaction

Prefer direct, lightweight, in-page interaction.

Feedback

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

Info

*Think in object,
tie information to interactivity*



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

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

