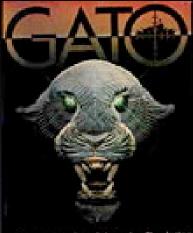
# designing for ajax

Bill Scott Yahoo! Ajax Evangelist <u>b.scott@yahoo.com</u>



## background.



WWIII GATO-Cass Submarine Simulation Spontrum (MARINE Sec."

#### Rico JavaScript for Rich Internet Applications

#### Features Demos Documentation Downloads Abou

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 <u>prototype.is</u> 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. <u>Sabre Airline</u> <u>Solutions</u> 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 Agas 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 MnitteRequest. Rico provides a very simple interface for registering Ajax request handlers a well as YHL, elements or JavaScript 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

The Res Transmission Check out the Alternative to Paging!

NEW! LiveGrid Behavior!

RICO Annual Annual Your 

100 Erret The Statement

Recent reduction

Desktop applications have long used drag and drop in their interfaces to simplify user interaction. Roco provides on their the simplex interfaces for enabling your web application to support drag and drop. Just register any ITML 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 siding transitions can communicate change in richer ways that traditional web applications have explored be Rico provides several cinematic effects as well as some simple visual style effects in a very simple interi

Take some raw HTML and sprinkle in some behaviors and what do you get? Well in Rico you can get an <u>Accordion</u> component like those found in Macromedia Fiex and Laszlo. 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 on needs to infinite the 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 fty as needed! More



Developer Network Home Help

#### TAHOO! DEVELOPER NETWORK

Yahoo! Developer Network > Design Pattern Library

#### 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?

To: vu

Auto-Complete

Module Tabs

🔄 Senu 🔚 Save Drait 🖉

Cc: Yusef Jones <yusef@s Yusef Smith <vusefs@

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.

AP Reuters AFP USATO

Cargo Ship Blocks Sue

International Observers

- Doll Chows Divide Are

The user needs to navigate

Results Page:

1 <u>2</u> <u>3</u> <u>4</u> <u>Next</u>

panes of content without

refreshing the page.

through one or more stacked

A pattern describes an optimal solution to a common problem within a specific context. more.

Travel > Guides > North Amer

ica > United States > New Yor

New York City > Things to do

User needs to navigate

information efficiently.

without becoming lost.

Navigation Tabs

\*\*\*\*

Read 20 reviews

\*\*\*

Rating an Object

Good

potentially large quantities of

vs Home U.S. Busin

The user needs to navigate

have clear indication of their

current location in the site.

through a site to locate

content and features and

Breadcrumbs

#### Navigation Tabs Recent Patterns

w EXPLORE DATA Auto Complete Calendar Picker

- NAVIGATE

Breadcrumb

Eaceted Navigation

Fly-out Menus

Horizontal Bar Hub and Spoke

Left Navigation 🛛 Tabs

Module Tabs

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

CALL ATTENTION

IMPROVE READABILITY

- Ratings & Reviews Review Architecture

GROUP RELATED ITEMS

Search Pagination The user needs to view a set A user wants to quickly ORGANIZE SCREEN/PAGE of search results ranked by leave their opinion on an relevance that is too large to object, with minimal

page

easily display within a single interruption to any other task in greater detail than a flow they are involved in.

Thursday, Februa Weather have Drag and Drop Modules The user needs needs to re-arrange the layout of modules on a web page

#### 1 - 5 of 32 First | < Prev | Ne First | < Prev | Next > | Last

directly with the mouse

Object Pagination The user needs to view data items from a potentially large

set of sorted data that will not be easy to display within a single page.

\*Review Title - e.g. We can Great \*Write your review - Your

Writing a Review

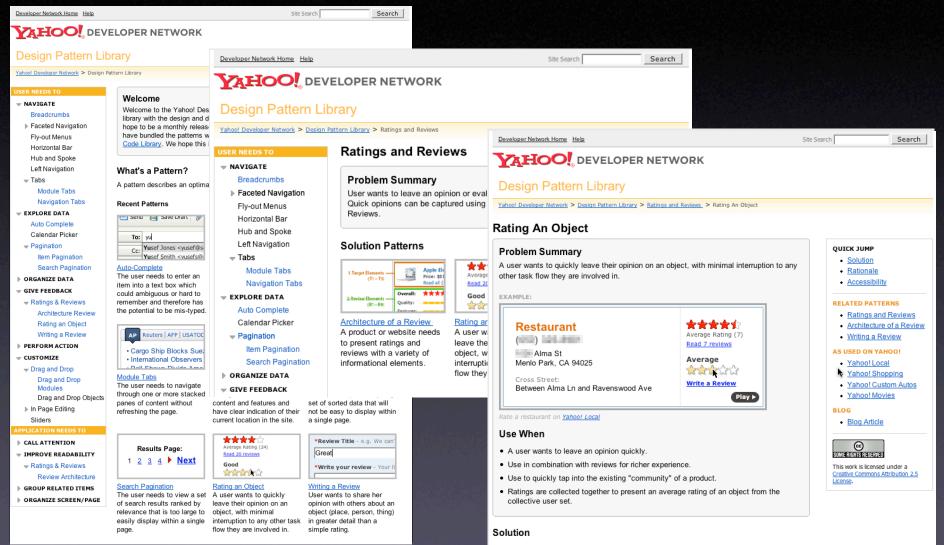
User wants to share her opinion with others about an object (place, person, thing) simple rating.





See Rico in Actio

# developer.yahoo.com/ypatterns



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

# surfacing a vocabulary.

## current patterns.

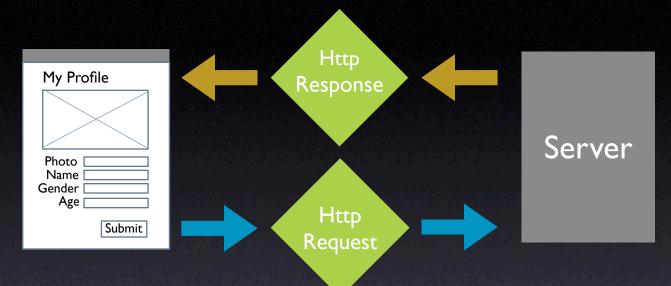
Breadcrumbs. Module Tabs. Navigation Tabs. Auto Complete. Pagination. Item Pagination. Search Pagination. Ratings and Reviews. Architecture of a Review. Rating an Object. Writing a Review. Drag and Drop. Drag and Drop Modules. Transition. Dim. Brighten. Cross Fade. Contract. Expand. Fade In. Fade Out.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

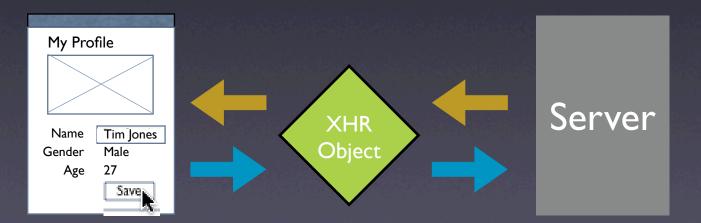


# rich patterns.

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

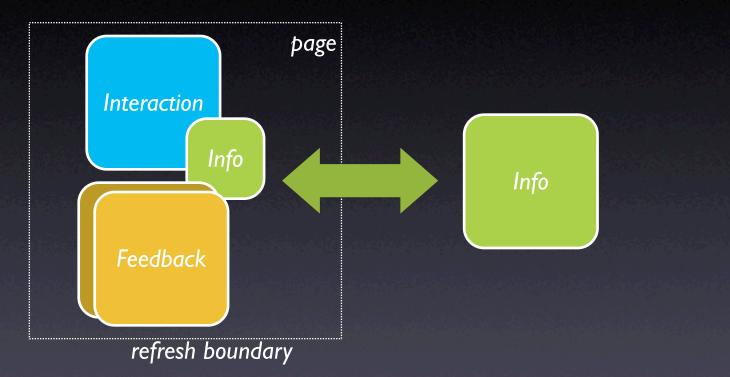
# classic model. rich model.





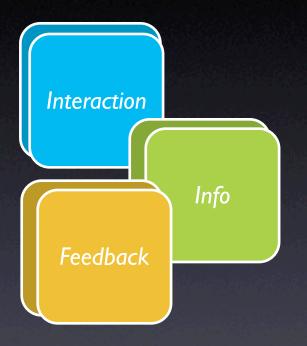
 $\mathbf{Y}$ 

# interaction. presentation. data.





# data near. interaction rich.

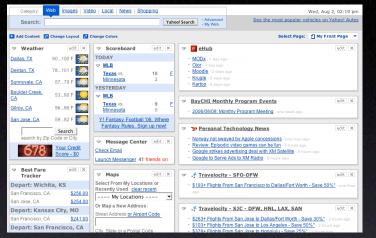




# design principles



# principle. make it direct.



#### pattern. drag and drop.

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

 Shared by: Me - Details - Edit
 Email - IM - Delete

 Tags: comment, digg, incontextexpandpatte..., inlinepageeditpatter..., ratinganobjectpatter...,
 Email - IM - Delete

 Access: Everyone
 http://sjc.videos.revision3.com/diggnation/coming\_soon.mov

 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..., ratinganobjectpatter...,

Cccess: Everyone
http://ajaxian.com/archives/new-digg-ajax-comment-system - My cached copy

Yahoo! Groups: scotts-pub Post Message Saved by: Me - Detaila - 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

#### pattern. inline editing.

#### **Rocky Waters**

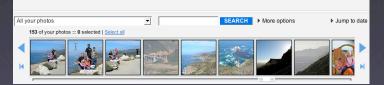
Saved on February 16, 2006

Email - IM - Delete

💌 NORE 🚳 SENDITO 🔲 NOSET 🚚 BLOS 🔍 ALL 🐋 ORDER ROTATE 🔿 DELETE 📈



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







pattern. in-context tools.

Some HTML is OK.)



## **Prefer interaction within the page**

What about discoverability?



#### State park near our home in San Jose

5 photos | Add a comment?

Photos are from 22 Oct 05.



#### **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)

CANCEL

SAVE

OR

Y

#### make it direct

## **Prefer interaction within the page**

What about discoverability?

Pick Up at the Store	
🗆 Orange Juice	
Tomatoes	_
Lettuce	
🗍 Bread	
Chips Add Item	
Make a new list Reorder lists	
Remove from sidebar, Delete this page, Ema	il me this page
Send email to this page: <a href="miles12betty@lestate">miles12betty@lestate</a>	oillwscott.backpackit.co
Changes Help Text Formatting We	blog Forum Privacy

Use direct editing on page content

What about save/cancel? Avoid page jitter Reduce the feeling of modes

Create a home page for the VisDe to make findability easier

C Account for experimental patterns as well as established patterns

#### **Provide in-context tools**

Only good for single operations Can actually slow you down

📅 Edit

## **Prefer interaction within the page**

#### What about discoverability?



by: jamball

Real Sushi

by: <u>sr82</u>

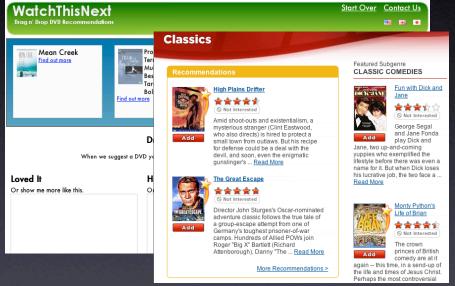
runtime: 00:39

#### Pick Up at the Store

- 🗖 DRAG Chips
- 🔲 drag Milk
- DRAG Bread
- 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

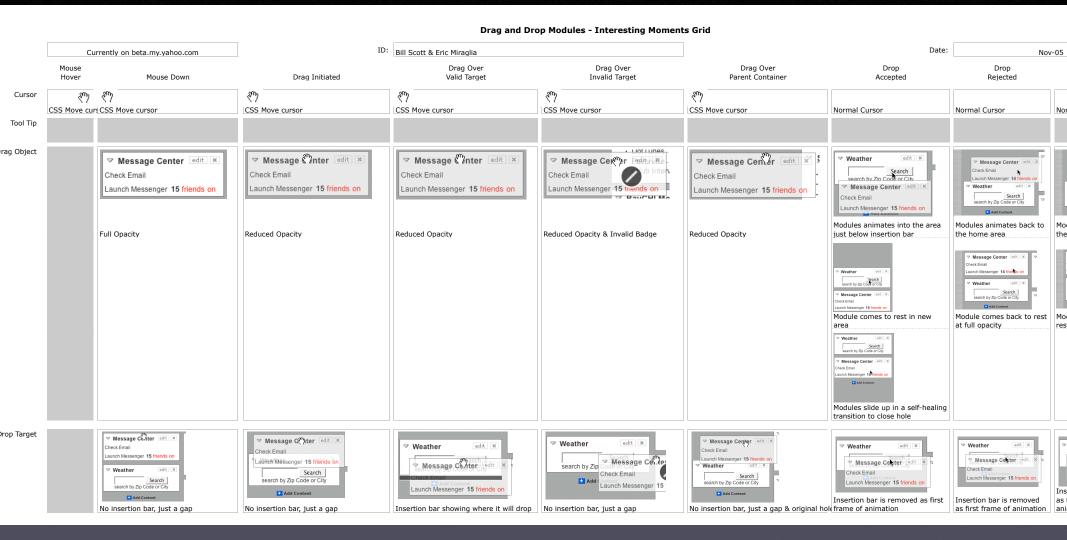
#### **Provide in-context tools**

Only good for single operations Can actually slow you down



#### make it direct

## Take care of the interesting moments





# principle. keep a light footprint.

#### pattern. in page action.

282 diggs digg it	282       Fixing the Mighty Mouse         diggs       submitted by usedmac 1 day 1 hour ago (via http://mac         digg it       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.         (a) 60 comments       blog this       email this       category: apple						
ONAL FINAL	NCE TOOLS & RESEAR	CH MY MARKETWATCH					
Digg it Dow Jones	Disable live quotes Del.icio.us Industrial Average, as of a new high.						
	Dow Jones Industrial Aver. 11,707.89 +38.50 +0.33% COMPQ - +2.0% sp500 - +1.5% +1.0%	MOST POPULAR					
	+0. 5%	READ E-MAILED	EDITOR'S PICK				
efferies & sing its t there.'	-0.5% 14 18 20 22 26 OBigCharts.com 1:17РМ ЕТ	U.S. stock futures turn	makes a play for record high lower as durable-goods data				
backward	looking and reflects a time	4. How to cope with a cor	ales up 4.1% to 1.05 million 🕀				
e New	Dow Jones Industrial Aver- 11,707.57 +38.18 +0.33%	deal 🗄 6. API reports an across-	Is billions for Renault-Nissan the-board climb in petroleum				
238.67, +5.84,	M 12,000 10,000 6,000	<ol><li>Wednesday's biggest s</li></ol>	stock gainers and decliners 🛨 idend to \$1 a share from 67				

0 items in my bag checkout Pique polo only at gap.com you'll also like overview Soft cotton pique knit. Short-sleeved, button neckline. Need large quantities? Click for Corporate Apparel 100% Cotton. Machine wash. imported. regular tall #346927 Buy More and Save prices may vary select Color: royal grape \$29.50 Buy 2 or more, \$25.00 each \$29.50 \$9.99 select Size: XS S M L XL XXL XXXL size chart Quantity: royal grape 1 💌 \$29.50 \$9.99

#### pattern. rating an object.

RECOMMEND THIS ST	ORY		
Recommend It: 숫서서서서	Average (		
Classics			
Recommendations		Featured Su	ubgenre COMEDIES
High Plains Drifter	Clint Eastwood, red to protect a	Add	Fun with Dick and         Jane         ★ ★ ★ ☆ ☆ ☆         ③ Not Interested         George Segal         and Jane Fonda         play Dick and
sinan town individual for defense could be a devil, and soon, even gunslinger's <u>Read I</u> The Great Escape	a deal with the the enigmatic	yuppies who lifestyle befor name for it.	p-and-coming o exemplified the ore there was even a But when Dick loses i job, the two face a
Add     O Not Interested     Director John Sturges     adventure classic foll     a group-escape attem     germany's toughest     camps. Hundreds of A     Roger "Big X" Bartlett     Attenborough, Damy	ows the true tale of npt from one of risoner-of-war Allied POWs join (Richard		Monty Python's Life of Brian Not Interested The crown princes of British
	Recommendations >	the life and	comedy are at it time, in a send-up of times of Jesus Christ. e most controversial
The Critics:	My Grad	le:	А
B- 14 reviews	Rate th Movie		B
Yahoo! Users:	Select gr to the rig	ade	CD
B+ 13199 ratings	write a re		F

pattern. remembered collection.



## Watch your click weight

Keep actions immediate and light Count "clicks"

#### Classics



#### \*\*\*\*\* S Not Interested

**High Plains Drifter** 

Add

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

Amid shoot-outs and existentialism, a



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

More Recommendations >

#### Featured Subgenre CLASSIC COMEDIES



Add

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



again -- this time, in a send-up of the life and times of Jesus Christ. Perhaps the most controversial



#### 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 guirks.

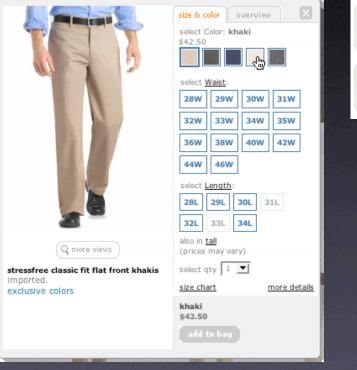
<u>60 comments</u> blog this email this category: apple

## 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:	My Grade:	А
14 reviews	Rate this Movie!	В
Yahoo! Users:	Select grade	C
B+	to the right	D
13199 ratings	write a review	F



## 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

#### RECOMMEND THIS STORY

Recommend It:



## Use lightweight events

Hover Blur, focus Click. Avoid double-click

 $\mathbf{Y}$ 

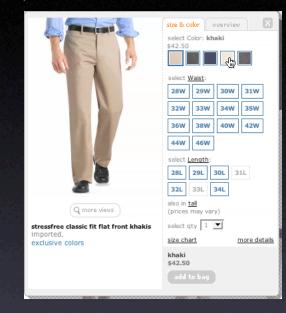
# principle. cross borders reluctantly.

#### pattern. on-demand scrolling.

	Welcome, <b>b.scott</b> Sign Out, My Account, Switch Back	ahoo!   News Search the Web Sea	rch
🕹 Check Mail 🛛 🏹 Compose	Inbox 2324 messages	Send Feedback   Options   Help	Ŧ
Q. Find Messages Go	Reply 👻 📝 Forward 🔐	🖁 🗝 Move 📇 Print 😒 Spam 🧊 Delete M	ore /
	From	Subject Rec	
Vonage: sign up & get 1 month free to those Sent Sent Sent Contacts Co	me Bill Scott JDJ Industry Newsletter Travelocity Member Services Theresa Neil Damon Hougland Finan, Angelique David Schontuler TagWorld me Anonymous Anonymous Anonymous Anonymous	Re: rice question         Thu,           [Looks Good Works Well] /1/9/2006 11:13: Thu,           Java Named "Programming Language of the Thu,           Price Alert1 Flight + 5 Night Hotel to Honol Thu,           Re: Job Description           Thu,           Re: Job Description           Thu,           Re: Group Exception           Thu,           Re: Group Exception           This week in TagWorld           This week in TagWorld           Looks Good Works Well] 1/19/2006 10:19: Thu,           Looks Good Works Well 1/19/2006 10:19: Thu,	
dojomalilist (4)     DDisc     Kathk-Referals     Keep     MerchantSpam (149)     ux mail lists (1863)	Got your eye on on To view your message down he	Standard Header ~   Hde Pan e of those messages up there? are in this handy Reading pane, just click or ne, hold the Shift or Command key.	e
What's your Credit Score? No Late Fees Online Degree Programs			

pattern. in-context expand.

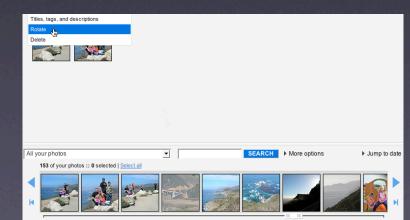
# Schedule View Expand all Add Hotels Things to do | Restaurants | Shopping | Entertainment Greate Item Trip Album Add Photos » Yosemite National Park © John Muir Vernal Falls Mist Trail Hike » <u>Schedule</u> Scheduled Items Wed 11/23/05 (day 1) - Yosemite Natl Pk, Yosemite National Park © Tunnel View Bridalveil Falls Day Hike



pattern. inline assistant.

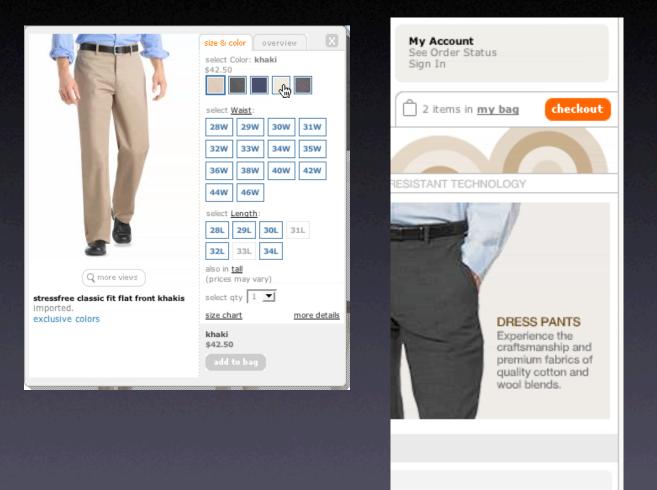
#### Market Watch pattern. hover details. NEWS & COMMENTARY MARKETS MUTUAL FUNDS & ETFS PERSONAL FINANCE TOOLS & RESEAR **Top Stories** LATEST NEWS [PRLS] Peerless Systems avg daily volume 104K shares Reuters | AFP | USATODAY.com | CSMon Dow targets record high AP Surprise rise in new home sales; Intel rallies on favorable legal ruling W.Va. Gov. Seeks Halt in Coal Product By Mark Cotton, MarketWatch E-mail Disable live quotes Last Update: 1:04 PM ET Sep 27, 2006 RSS 🐏 Digg it 📑 Del.icio.us Insurgents Thwarting Iraq Reconstruct NEW YORK (MarketWatch) – U.S. stocks rose Wednesday, with all eyes on the Dow Jones Industrial Average, as House Clears Budget-Cut Bill for Bush gains for Intel Corp., McDonald's and others put the blue-chip index within striking data or anew high. - Police Apologize, Drop Charge Vs. Sh The Dow industrials (SINDU: 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 Dov Jones Industrial Aver: 11,707.89 +38.50 +0.33% 18 of 30 components contributing to gains. - 'Commander in Chief' Takes Six-Week The Nasdaq Composite (SCOMPQ: 2,267.18, +5.84, +0.3%) Was up 7 points at 2,268 while COMPQ 🗕 the S&P 500 Index (<u>\$SPX</u> : 1,338.79, +2.45, +0.2%) gained 2 points to 1,338. » All Top Stories from AP "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 MORE TOP NEWS: U.S. News & World Re 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 Dow Jones Industrial Aver-11.707.57 +38.18 +0.33% 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 by sector, semiconductors (<u>sector</u>, +61.+4, +2.+3, +0.5%), intervolvers (<u>struct</u>, 236.83) +2.01, +0.8%), biotech (<u>SEIK</u>: 668.93, +8.68, +1.3%) and oil (<u>SOIX</u>: **585.28**, +6.57, +1.1%) and oil service (<u>SOIX</u>: **185.02**, +3.76, +2.1%) stocks put in solid gains. 10,000

#### pattern. lightweight popup + lightbox



## **Rethink process flows**

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



## **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

Photo Click for info	Price	Bd/Ba Sq Ft	Address and Area Presented By	(Click F	hotos	Virtual Tours	W	atch	out for du	ual so	croll bar issu	Je
	\$1,750,000 Single Res	6+, 4+ 3700	14080 BEAR CREEK RD Boulder Creek, CA 95006 (San Lore Valley) Schwarzbach Associates	LiveGrid Dem		AJAX S		CH deos	Power	red by Ya	hool Search	
	\$1,995,000 Single Res	6+, 4+ 5675	17617 MOUNTAIN CHARLIE RD LOS GATOS, CA 95033 (Unincorporated Los Gatos Mtns) Almaden Oaks Realtors	Search Images Search Results	flowers 02	<b>25</b> g 110k 29Feb20 ru/flowers	004 flowers02	22jpg 783k 29	Re Feb2004 flowers023jp		Search Yahoo!	1
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New Search			<pre>&lt;&lt; Pre</pre>		flowers 01 flowers015jp http://wp.li. 1024x768 - jpeg	g 781k 29Feb20 ru/flowers	004 flowers01	16jpg 455k 29	Feb2004 flowers017jp	g 143k		•



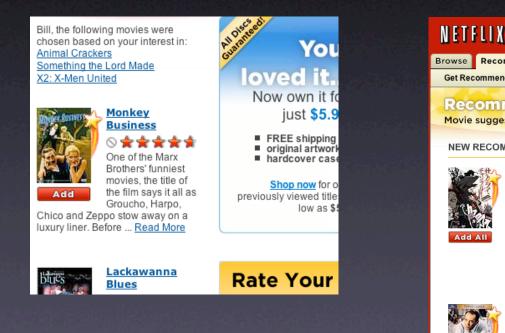
## **Think deeper interaction**

Selective richness What about the back button?

 $\mathbf{Y}$ 

## **Use overlays**

For more information **Replace page transition** When editing an individual, more complex item **Be symmetrical** Not disturb the page



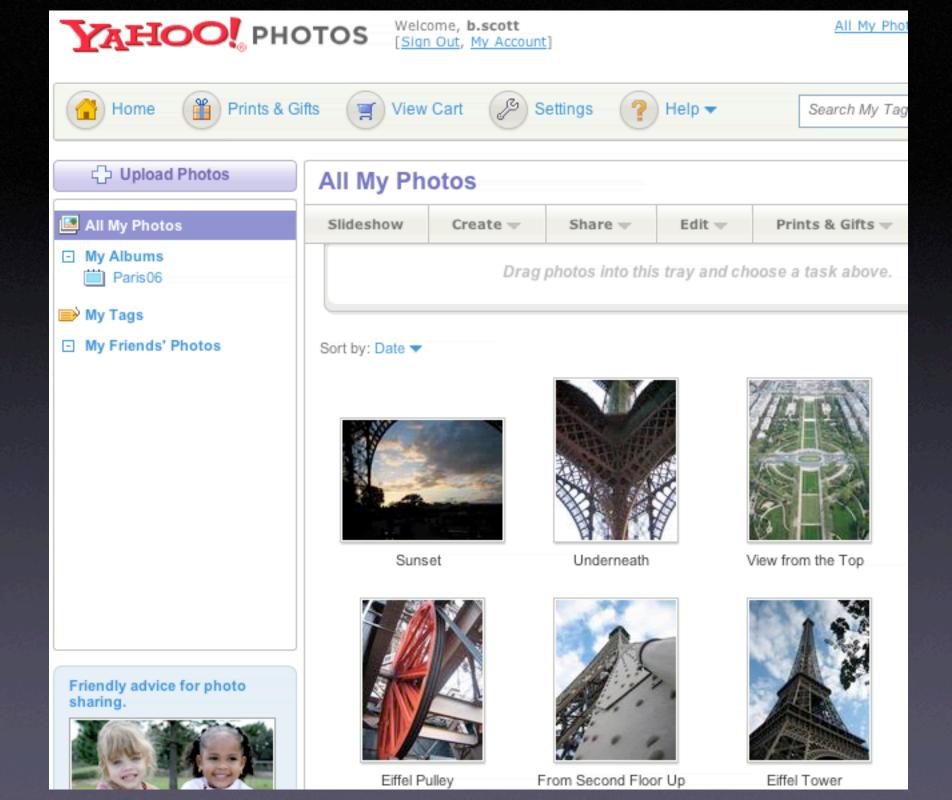
#### My Saved Pages > ypatternexample Items 1 - 4 of about 4 Sort by: Date Saved | Title | URL Shared at 4:49 PM PST coming\_soon.mov (video/quicktime Object) Email - IM - Delete Shared by: Me - Details - Edit Tags: comment, digg, incontextexpandpatte..., inlinepageeditpatter..., ratinganobjectpatter... more. Access: Everyone http://sjc.videos.revision3.com/diggnation/coming\_soon.mov 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 Email - IM - Delete Saved by: Me - Details - Ed 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 Bill Scott - | Your Account | Buy / Redeem Gift | Help Movies, actors, directors, genres Search Browse Recommondations Friends Queue Buy DVDs Get Recommendations (869) Rate Movies Movies You've Rated (234) Recommendations You have 869 Movie suggestions based on your ratings Recommendations from 234 ratings. Browse NEW RECOMMENDATIONS All Recommendations Samurai Champloo (7-Disc You Have Favorite Genres:(Edit) Series) Action & Adventure (89) Recommendations Drama (123) \*\*\*\* Get more recommendations b Sci-Fi & Fantasy (5) Not Interested rating more movies. Television (84) Director Shinichiro Watanabe mixes a Thrillers (29) maturity rarely found in anime with a Rate More Movies Comedy (38) historical Japanese setting and a funky hip-hop soundtrack. Fuu is a spacey Classics (223) waitress at a teahouse where a sword Documentary (72) You've rated 234 movies. fight ... Read More **Other Genres:** Anime & Animation (19) Children & Family (33) 12 Angry Men Foreign (123) \*\*\*\* Independent (4) ○ Not Interested Music & Musicals (10) Romance (10) 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 Helpful Tip coolly deliberate ... Read More Seen any of See All Recommendations >> these movies?

DRAMA



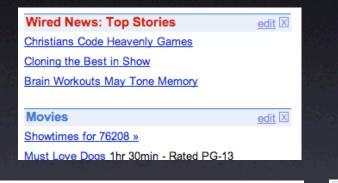
12 ANGEL MEN

Add



## **Use overlays**

For momentary interruption Replace page transition When editing an individual, more complex item



Sports

## **Use in-context expands**

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

Schedule	View Map View	¥ Expand all
nin Add	Hotels   Things to do   Restaurants   Shopping   Entertainment	<u>Create Item</u>
Trip Alb	um	Add Photos »
Yosemi	te National Park	
- Sec. 10	ohn Muir Vernal Falls Mist Trail Hike » Schedule	
Schedu	led Items	
Wed 11	23/05 (day 1) - Yosemite Natl Pk, Yosemite National Park	
	osemite Lodge	
💌 💽 T	unnel View	
💌 💽 B	ridalveil Falls Day Hike	
	Sign Out	





Celebrity spirits haunt Hollywood hot spots San Jose Sharks fans should

be booed

Webcams that view pandas in action are perpetually popular, while live eagle cams are taking flight. » More Panda pics Q Webcams More Yahoo! Buzz Log The wild world of animal 3 webcarros

Four-day rain swamps New England

» More Featured

Money

# key principle

Interaction

# Prefer direct, lightweight, in-page interaction.

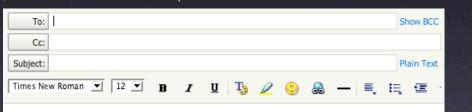


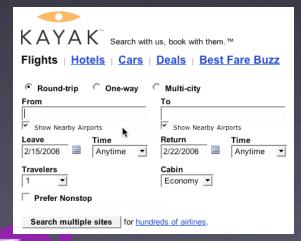
# principle. give live feedback.

#### pattern. live suggest.

Ask Your Question		
<ol> <li>Enter your question You can ask 5 more questions today.</li> </ol>	You have 110 characters to work with. Add details below.	
2. Add details (optional) No spam, please! When in doubt, please refer to our community guidelines.		
	You have 1000 characters to work with.	

#### pattern. auto complete.





#### pattern. busy indicator.

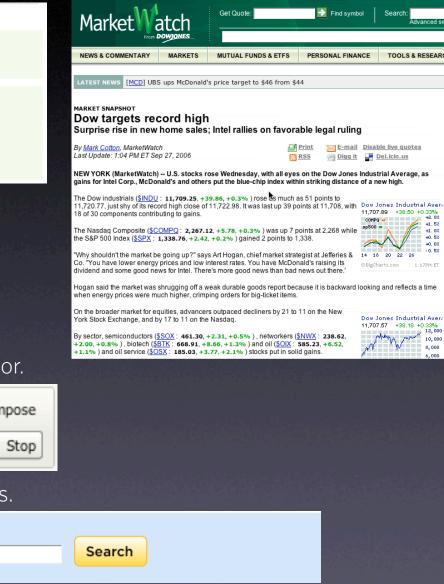
🕹 Check Mail	🍕 Cor	npose
Q, rfrom: darren	Q	Stop

#### pattern. live previews.

#### Find a domain name:

www. billsportfolio.com (ex. widgetdesigns.com)

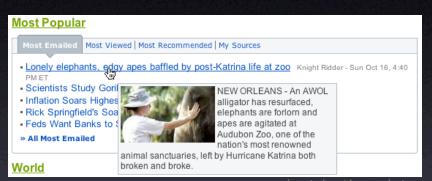
#### pattern. periodic refresh.



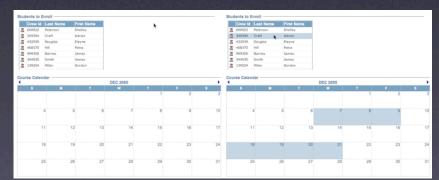
#### give live feedback

## Keep the goal in mind

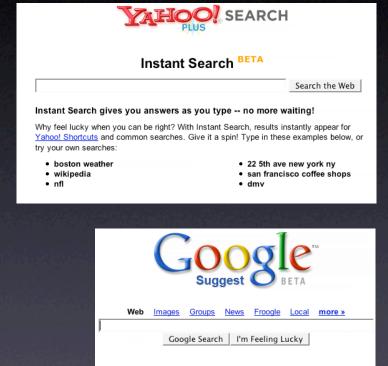
Design for immediacy Is it narrowing or is it distracting?



Just-in-time data



Just-in-time logio



pe, Google will offer suggestions. Use the arrow keys to navigate the results.

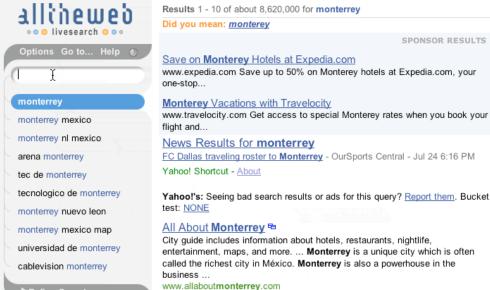
#### Feedback - Discuss - Terms of Use - FAQ

©2006 Google



## Keep the goal in mind

**Design for immediacy** Is it narrowing or is it distracting? Use feedback to boost confidence Let the user iterate where possible



Refine Search

	<b>65</b>
Tell a Friend	Feedback

#### Results 1 - 10 of about 8,620,000 for monterrey Did you mean: monterey

SPONSOR RESULTS

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Monterey - Weichert View Color photos, Virtual Tours and Thousands of Open Houses. weichert.com

(About this page)

See your message here...

International Conference on Financing for Development-2003-main

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-Saltillo-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

Monterrey - Wikipedia, the free encyclopedia

and business

en.wikipedia.org/wiki/Monterrey

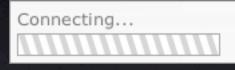


## Keep the goal in mind

Design for immediacy Is it narrowing or is it distracting Use feedback to boost confidence Let the user iterate where possible

## Keep the user engaged

Time passes faster Look for engaging moments





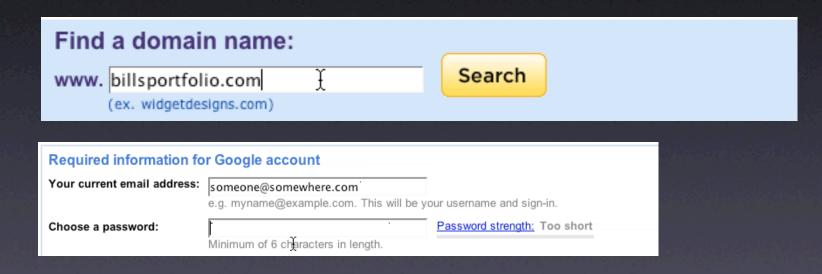


give live feedback

#### Keep the goal in mind

Design for immediacy Is it narrowing or is it distracting Use feedback to boost confidence Let the user iterate where possible

Keep the user engaged Time passes faster Look for engaging moments



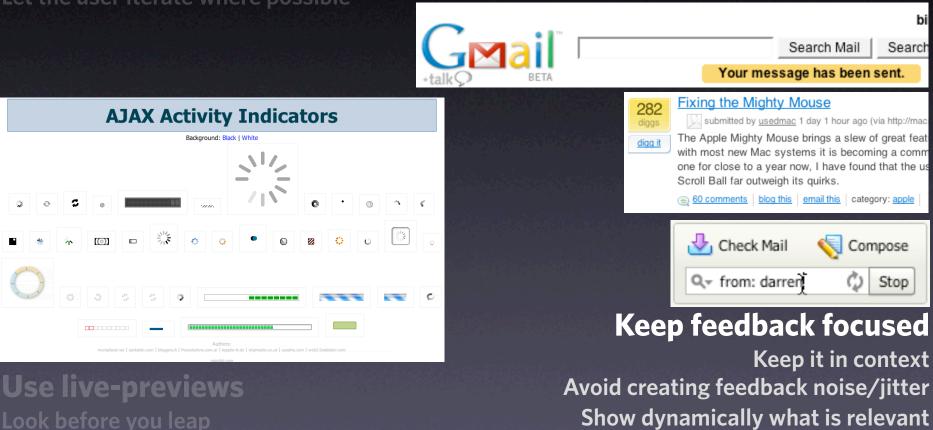
Use live-previews Look before you leap

 $\mathbf{Y}$ 

## Keep the goal in mind

Design for immediacy Is it narrowing or is it distracting Use feedback to boost confidence Let the user iterate where possible

#### Keep the user engaged Time passes faster Look for engaging moments

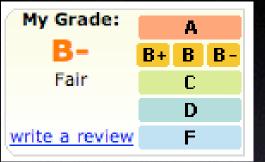


Updating too many areas at once will be confusing



# principle. offer an invitation.

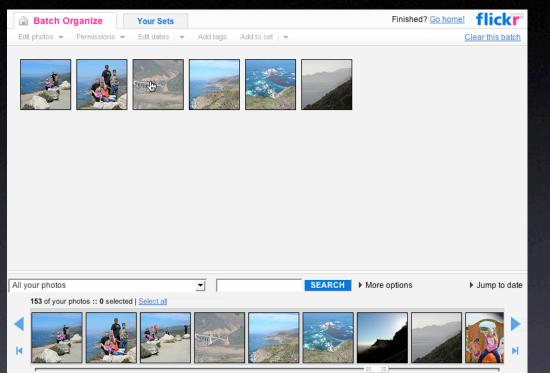
#### pattern. hover invitation.



#### pattern. tour invitation.

Search Smart	ter 2	Find it Faster	3 Get Persona	ı. 📒	<u>Next »</u>	<u>0</u>	Close 🗵
Switch to old page				Yahoo! Tecl			d by Verizon Wireless.
YAH		Web In Search:	ages   Video   Audio			opping Web Sear	
My Yahoo! My	Man		_				Page Options 🐨
Autos Finance Games GeoCities Groups Content	*	smarter	vod nroe and breeze throug t Hotel. * Ma	HI, D.:	Mail	Hessenger	Sign Out
Horoscopes HotJobs Kids Kids Maps Music Personals	tabs to narro • Search the	aster and easier with ha w your search Web on any topic to focus your search on	ndy prid of animal iin swamps Nev > More Fea			OOL TONES DTOROLA PHON	
Photos Real Estate Shopping Sports	Try Yahoo!	deo, Local and more Answers: A new place to s from real people	vget Next »				

#### pattern. drop invitation.



#### pattern. tooltip invitation + hover invitation + cursor invitation.

Park near our new home	Lists
💽 ADD 🆓 SEND TO 🔲 ADD 🚚 BLOG 🍭 ALL 🐋 ORDER ROTATE 💭 DELETE X	
	Add item or I'm done adding items
	Make a new list

## Make it engaging

#### Use lightweight events as a welcome mat Rediscover the hover

My Grade:		
my Grade:	A	
B-	B+ B B	
Fair	C	
	D	
write a review	F	이 같은 것 같은
State of the local division of the local div		
Lists		
	Remov	e this item
	Add it	em or <u>I'm done adding items</u>
	<u>Make a n</u>	ew list



#### **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.

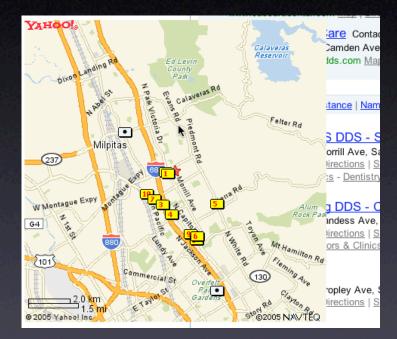
Forty Associates recently added product previews to their Web site as part of a small beta program. During the beta, visitors to Associate sites who viewed a product preview clicked through to Amazon.com over 4% of the time; those clicks resulted in a purchase nearly 6% of the time.

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. <u>Click here to join your fellow Associates in beta</u> 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. <u>Click here</u> 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 🆓 SENDTO 🔲 ADD 🚚 BLOG 🍭 ALL 🐋 ORDER ROTATE 💭 DELETE 📈



#### Get the actors involved

Hover Invitation Cursor Invitation Tooltip Invitation

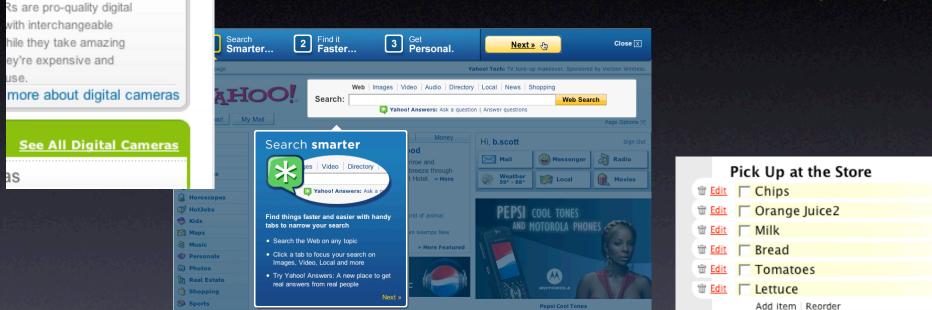


#### **Make it engaging** Use lightweight events as a welcome mat Rediscover the hover

×

a digital SLR?

#### Keep actions out of it Don't make the user afraid to explore Don't proselytize



## Use invitations to aid discoverability

#### Get the actors involved

Hover Invitation Cursor Invitation Tooltip Invitation Two challenges: idiom & feature Adding signposts, always-on clues doesn't scale Add tours, help pedals, tips, spotlights

#### pattern. zoom box. principle. show transitions. GapMaternity GapKids Women GapBody babyGap my account see order status sign in pattern. fade transition + self-healing transition. 3 items in my bag Shoes, Belts & More Lists 1 2 >> See All Remove this item bags And this one too 💼 <u>Edit</u> adding a new item urban nyl \$34.50 Add item or I'm done adding items urban r \$29.50 nylon co \$68.00 bag \$49.50 pattern. slide + animate. 153 of your photos :: 0 selected | Select all 29 OCT 05 pattern. spotlight. flickr Finished? Go home! **Batch Organize** Your Sets Edit photos 👻 Permissions 👻 Edit dates 💌 Add tags Add to set 💌 Clear this batch

#### show transitions

# **Speak to the BRAIN**

Understanding attention processing



Tips & Tools for Using Your Brain

Tom Stafford & Matt Webb Foreword by Steven Johnson, author of Mind Wide Open

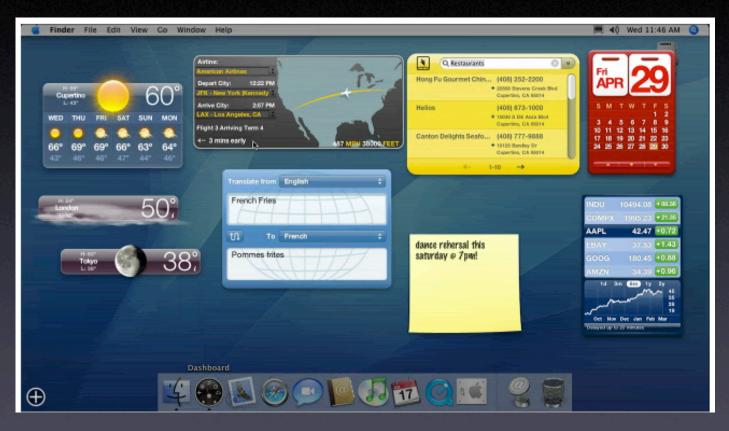
O'REILLY\*



#### show transitions

# **Speak to the BRAIN**

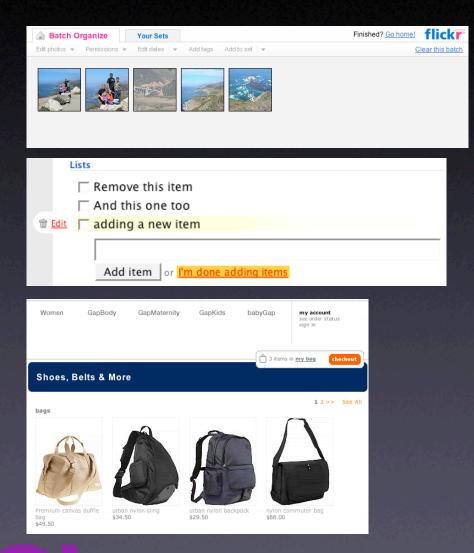
#### Understanding attention processing Sending the wrong message







# **Speak to the BRAIN**



# What you can communicate

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

VAHOO!

Search

TODAY

V NHL

Dallas

Dallas vs

YESTERDAY

Tracker Depart: New York, NY - all

Paris, France - all

Honolulu, HI

LA Clippers

no games for selected teams Listen to live audio of college games

Depart: Seattle/Tacoma, WA

Depart: San Francisco, CA

, NBA

Tampa Bay vs.

k

0

0 ET

edit 🕽

\$193.00

\$333.60

✓ Maps



Dallas, TX Denton, TX	4075 F 🌍 3575 F 🌍	third-quarter profit - 10 hours ago Cisco Patches Router, Call Manager Software - 1 day ago	
Sunnyvale, CA	4257 F 🌍	✓ eHub edit.	
Boulder Creek, CA	3959 F 🌍	eHub Interviews Prodigem - 11 hours ago	
Gilroy, CA	3857 F 🌍	Veetro - 20 hours ago     MediaMax - 2 days ago	
San Jose, CA	4258 F 🌍	iOWEYOU - 2 days ago	
	Search	HyperSuper - 2 days ago	

ago

search by Zip Code or City

Select From My Locations or

Recently Used clear recent

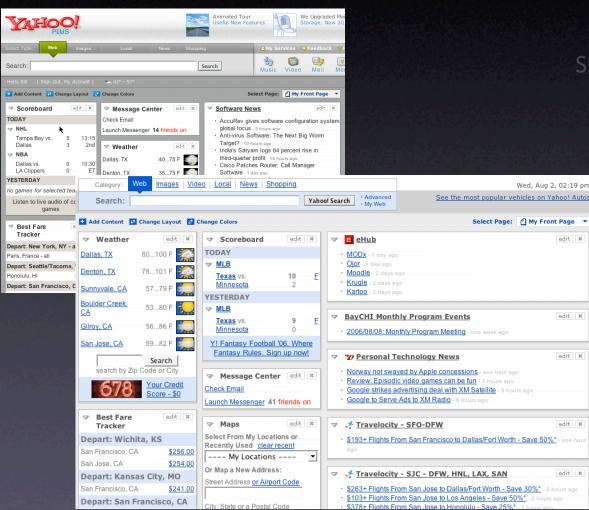
My Location

edit 🛪

**BayCHI Monthly Program** edit 🛪 Events 2006/02/14: Monthly Program Meeting - 3 hours

# **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

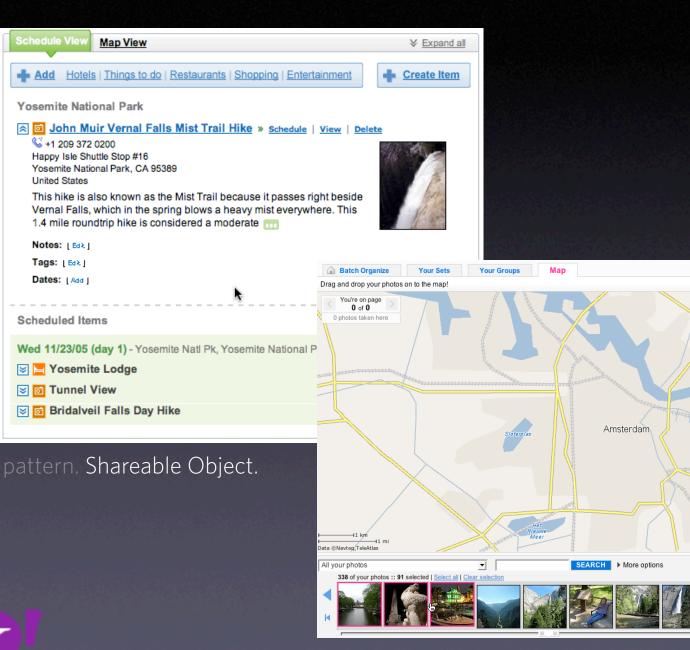
# key principle

Feedback

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



# principle. think in objects.



flickr

GO

Map

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Jump to date

Need help?

Back to your photos

Find a location amsterdam

## The power of sharing

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

- Y Amsterdam Trip Plans on Yahoo! Travel Yahoo! Shortcut - <u>About</u>
- Y My Web Results for amsterdam trip (49)
- 1. <u>Trip to Amsterdam photos, history, maps Virtual trip to Amsterdam</u> 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 - <u>Cached</u> - <u>More from this site</u> - <u>Save</u>

<b>У</b> дноо	TRAVEL Welcome, b.scott [Sign Out, My Account]	<u>Travel Home</u> - <u>My Travel</u> - <u>Help</u>
💼 TRIP P		Search
Public Trips	We're giving away two plane tickets a day! <u>Create a trip for your chance to win</u> . yosemite Search	]
164 trips found	<u>Yosemite</u> 10 day trip by tabicat_2005 ( <u>View tabicat_2005's trips</u> ) YOSEMITE NATIONAL PARK Trip to Yosemite in the new trailer. Jessica, Jaleh, Tabitha's one week get-a-way! <u>Copy and customize</u> (11 people have!)	(4)
	Yosemite By matt_minac (View matt_minac's trips) YOSEMITE NATIONAL PARK, GROVELAND Spring trip to Yosemite Copy and customize (9 people have!)	To (16) 🖒 (10)
	Yosemite 12 day trip by <u>wasitova (View wasitova's trips)</u> YOSEMITE NATIONAL PARK Travel on the way to <b>Yosemite</b> and back <u>Copy and customize</u> (3 people have!)	(1)

 $\mathbf{Y}$ 

think in objects

The power of sharing

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



#### Web 2.0 as a platform

Rich objects fit the SOA model Creates a good separation of concerns Mashups

 $\mathbf{Y}$ 



Info

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



# key principles

Prefer direct, lightweight, in-page interaction.

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

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



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

# developer.yahoo.com/ypatterns yuiblog.com looksgoodworkswell.com billwscott.com/share/presentations/ajaxworld/

