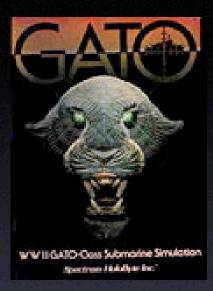
impact of Ajax

Bill Scott Yahoo! Ajax Evangelist b.scott@yahoo.com



background.





JavaScript for Rich Internet Applications

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 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

The library is a fully object-oriented JavaScript library. Recently we refactored the library to extend the excellent prototype. is 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 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

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 MinittpRequest. Rico provides a very simple interface for registering Ajax request handlers as well as IrML elements or JavaScript objects as Ajax response objects. Multiple elements and onlycts this yeb updated as the recitot of one Ajax request. Want to get started learning? Check out our demos and then read our two Ajax tutorials on the Documentation page.

Desktop applications have long used drag and drop in their Desktop appications have long used orige and origin their interfaces to simplify user interaction. Rico provides one of the simpler interfaces for enabling your welface application to support day a trion jour, but 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 size transitions can communicate change in richer ways than traditional war 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 <u>Accordion</u> component like those found in Macromedia Flex 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 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





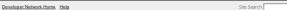
NEW! LiveGrid Behavior!

Check out the Alternative to Paging!

The same in in the same

State State





YAHOO! DEVELOPER NETWORK

Yahoo! Developer Network > Design Pattern Library

- NAVIGATE

▶ Faceted Navigation Fly-out Menus Horizontal Bar Hub and Spoke Left Navigation

Module Tabs Navigation Tabs

▼ EXPLORE DATA

Auto Complete Calendar Picker To: vu Pagination

Item Pagination Search Pagination

▶ ORGANIZE DATA

▼ GIVE FEEDBACK - Ratings & Reviews

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

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



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 | USATOR

· Cargo Ship Blocks Sue



International Observers - Dall Chaus Divide Am

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

Results Page: 1 2 3 4 Next

Review Architecture

Search Pagination

of search results ranked by leave their opinion on an

The user needs to view a set A user wants to quickly relevance that is too large to object, with minimal

Travel > Guides > North Amer ica > United States > New Yor New York City > Things to do

Breadcrumbs

User needs to navigate potentially large quantities of information efficiently. without becoming lost.



The user needs needs to re-arrange the layout of modules on a web page directly with the mouse

1 - 5 of 32 First | < Prev | Ne

First | < Prev | Next > | Last

The user needs to view data

items from a potentially large

not be easy to display within

set of sorted data that will



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.

Read 20 reviews

全量量量

flow they are involved in.



Object Pagination

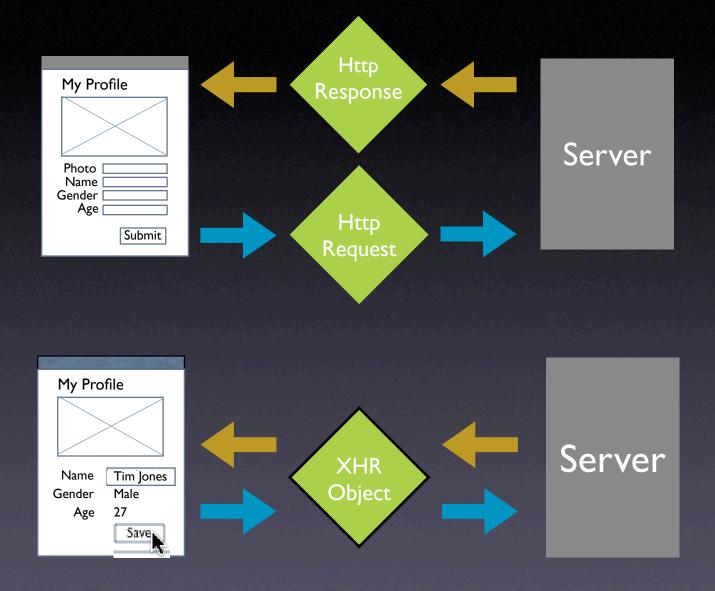
opinion with others about an object (place, person, thing)







classic model. rich model.

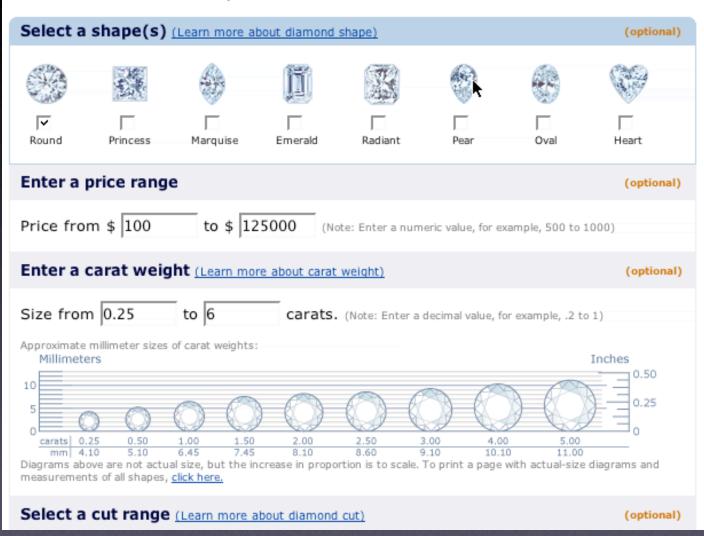




Amazon Diamond Search (before & after)

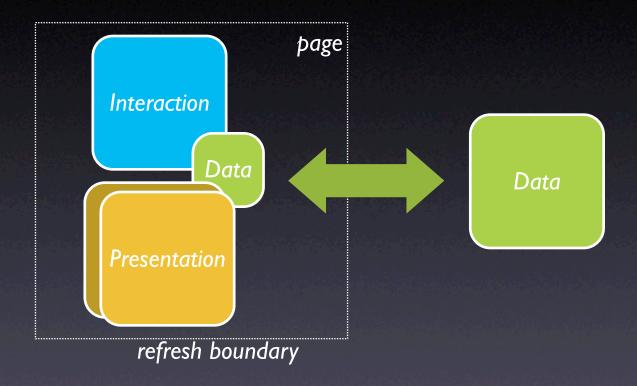
Amazon.com Diamond Search

Click here to return to our dynamic diamond search.



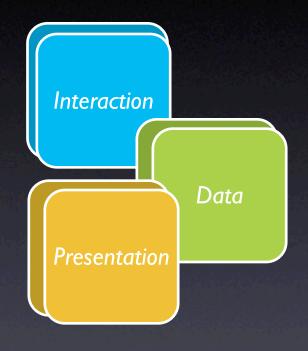


interaction. presentation. data.





data near. interaction rich.





internet application spectrum

Page-based (PIA)

Page navigation

URL

Browser history

Back button = undo

Document model

Static content

Read-only

Synchronous

Page services

Browser chrome

Transient

Rich Interaction (RIA)

Micro content

Application state

Application history

Application undo

Object model

Dynamic content

Read/Write

Asynchronous

Web services

Application controls

Sovereign

Transitional Applications



internet application spectrum. examples.

Page-based (PIA)

Page navigation

ymail (classic)

Browser history

google search

Static content

Remapquest

Synchronous

Page services

Browser chrome

Transient

Rich Interaction (RIA)

backpackit

yphotos3

yfinance

gfinance

flickr

Transitional Applications

gsuggests

gmail

gmaps

Micro content

Apymailbeta

Application history

ANOTHER EXAMPLE

writely ad/Write

Asynchronous

Web services

Application controls

Sovereigi



internet application spectrum. technologies.

Page-based (PIA)	Rich	Interaction (RIA)
	flash	
Browser history		
	Transitional Applications	
Static content		
	ajax	
	dhtml	
Page services		
Browser chrome		
Transient		



tim o'reilly's definition of web 2.0

Web 1.0	Web 2.0
DoubleClick	Google AdSense
Ofoto	flickr
akamai	bit torrent
mp3.com	napster
britannica online	wikipedia
personal websites	blogging
evite	upcoming
domain name speculation	search engine optimization
page views	cost per click
screen scraping	web services
publishing	participation
content mgmt systems	wikis
directories	tagging (folksonomy)
stickiness	syndication
SINGLE VENDER	MASHUP
READONLY	READ/WRITE
CONTENT MGMT SYSTEMS	CURATED MGMT SYSTEMS

http://www.oreillynet.com/pub/a/oreilly/tim/news/2005/09/30/what-is-web-20.html



the tipping point.

law of the few connectors mavens salesmen sticky message



sequence of events.

invented and held captive in redmond dot com bust innovation under the radar seeds were sown by the browser wars firefox rises from the ashes google's gambit ajax christened tipping point



ajax trends



shift. to event granularity.

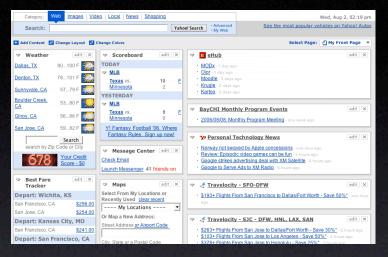
submit hyperlink



mouseout hover keypress keydown mousedown drop filter choices mouseup drag click select focus blur resize move timeout



trend. directness.

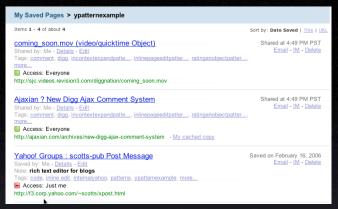


pattern. drag and drop.



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

Account for experimental patterns as well as established patterns



pattern. inline editing.





pattern. in-context tools.

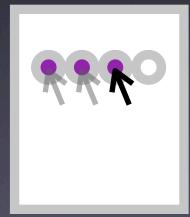
Some HTML is OK.)



shift. to lightweight events.



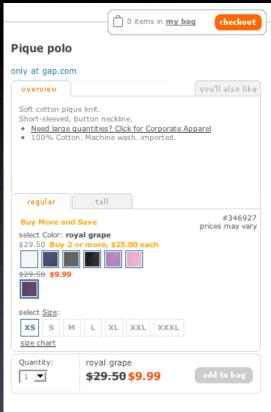


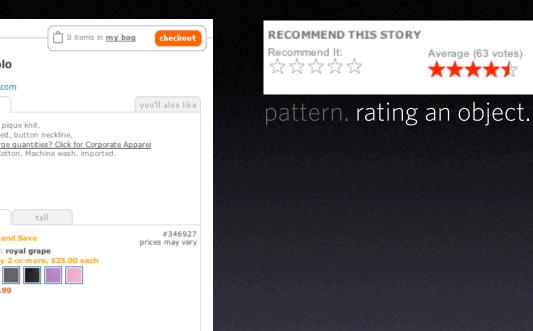


light-weight actions

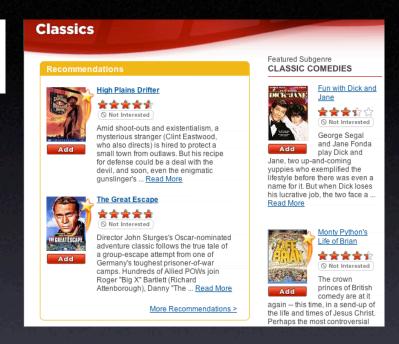


trend. light footprint.





pattern. remembered collection.





digg it

Average (63 votes)

Fixing the Mighty Mouse

submitted by usedmac 1 day 1 hour ago (via http://mac

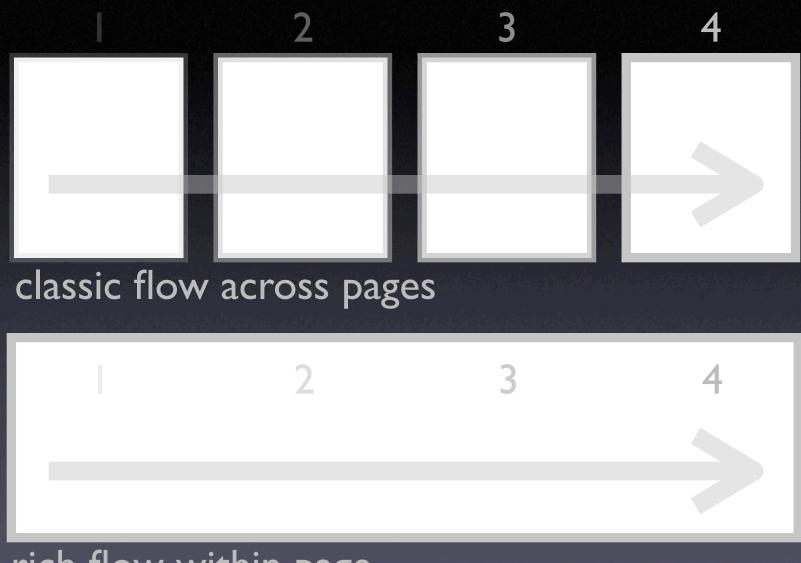
The Apple Mighty Mouse brings a slew of great feat with most new Mac systems it is becoming a comm one for close to a year now, I have found that the us Scroll Ball far outweigh its guirks.

60 comments blog this email this category: apple

pattern. in page action.



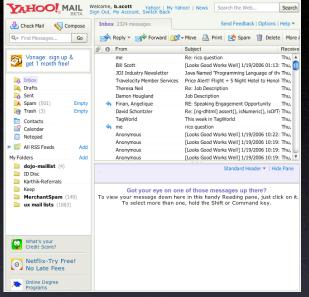
shift. to flow within the page



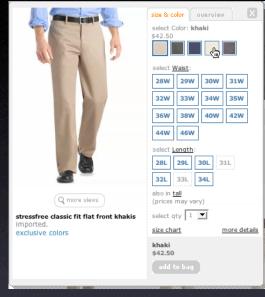
rich flow within page



trend. stay on the page.







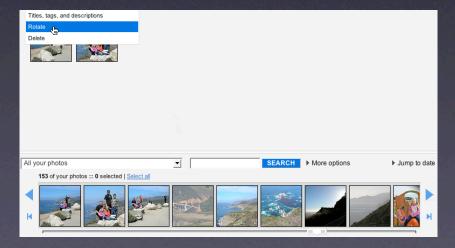
pattern. endless scrolling.

pattern. in-context expand.

pattern. inline assistant.



pattern. hover details.



pattern. lightweight popup + lightbox

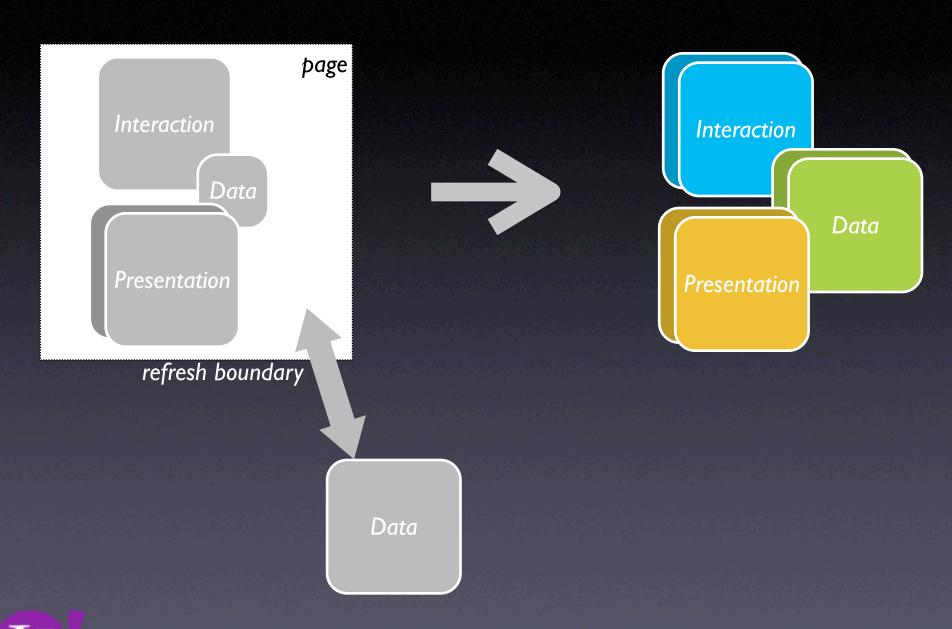


key trend

Direct, lightweight, in-page interaction.

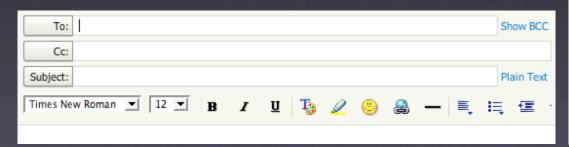


shift. to immediacy.



trend. lively feedback.







pattern. auto complete.



shift. to deeper interaction.



shiftclick doubleclick drag dragdrop dragflipdrop shiftdoubleclick tripleclick shifttripleclick

hover blur focus Click key shiftclick doubleclick drag dragdrop dragflipdrop shiftdoubleclick tripleclick shifttripleclick



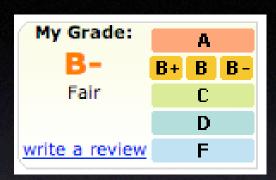
hover blur focus Click

key shiftclick doubleclick dragdragdrop

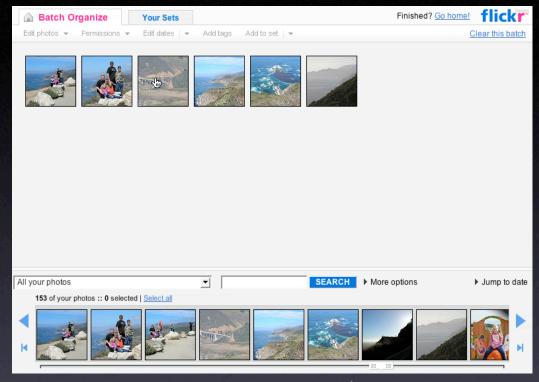
hover blur focus click key shiftclick doubleclick drag dragdrop



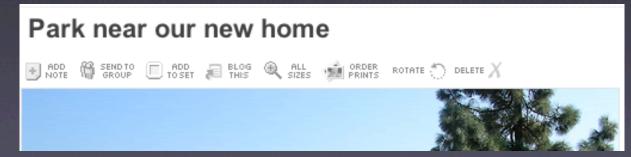
principle. invitational.



pattern. hover invitation.



pattern. drop invitation.

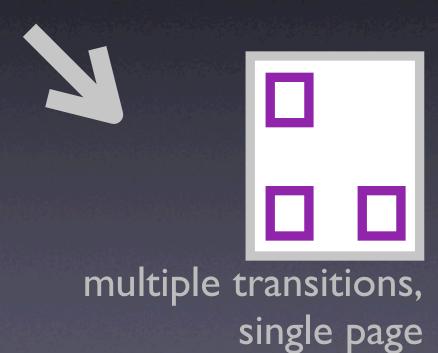


pattern. tooltip invitation + hover invitation + cursor invitation.



shift. to multiple happenings.







trend. cinematic.

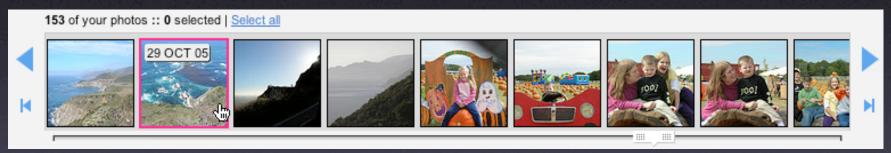
```
Remove this item

And this one too

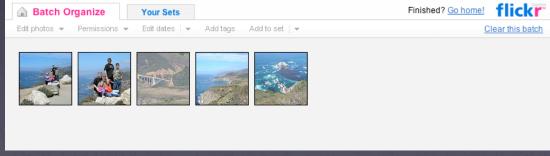
Edit adding a new item

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

pattern. fade transition + self-healing transition.



pattern. slide + animate.



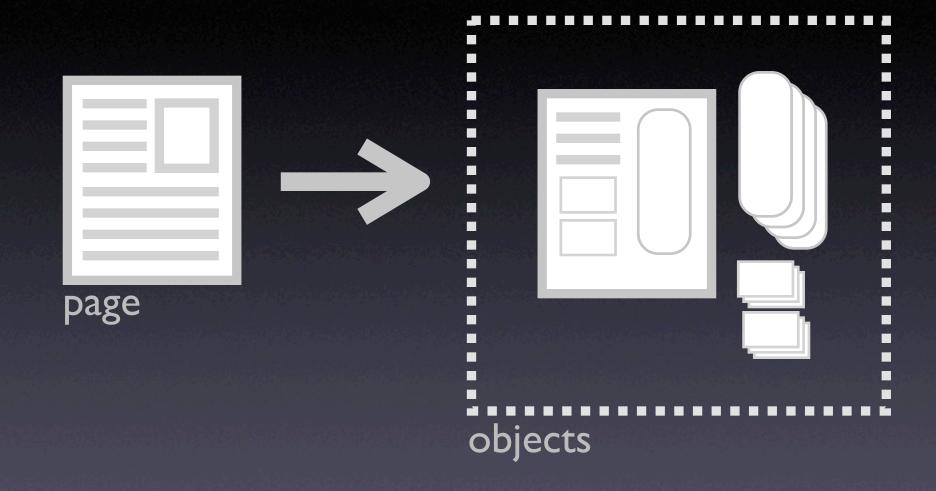


key trend

Invitations beforehand, transitions during, and feedback after interaction

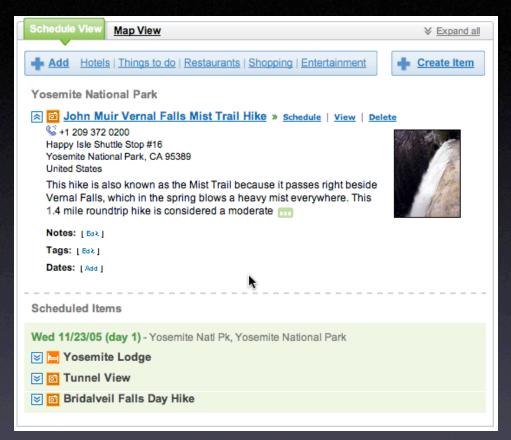


shift. to rich objects.





trend. objects.



pattern. Shareable Object.

Other trips you might like ...



The Ultimate A ... by ajrao1918 Copy this trip



SF Trip by pilak_shah Copy this trip



6 Parks in 8 d ... by <u>lacorebb</u> Copy this trip





Yosemite by whiskeywom ... Copy this trip



Cali Baby! by ibily78 Copy this trip



The power of sharing

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

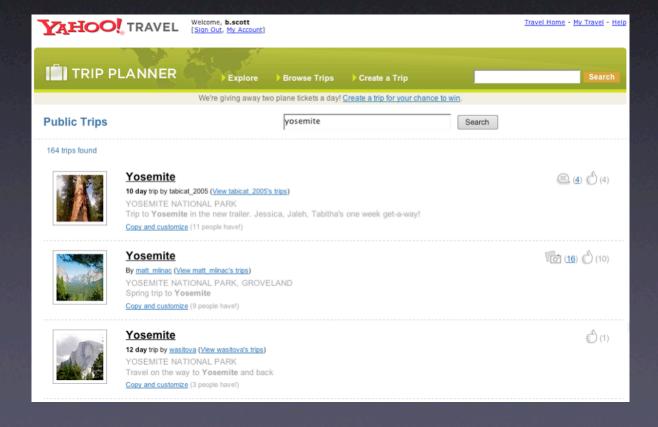
Y/ Amsterdam Trip Plans on Yahoo! Travel Yahoo! Shortcut - About

My Web Results for amsterdam trip (49)

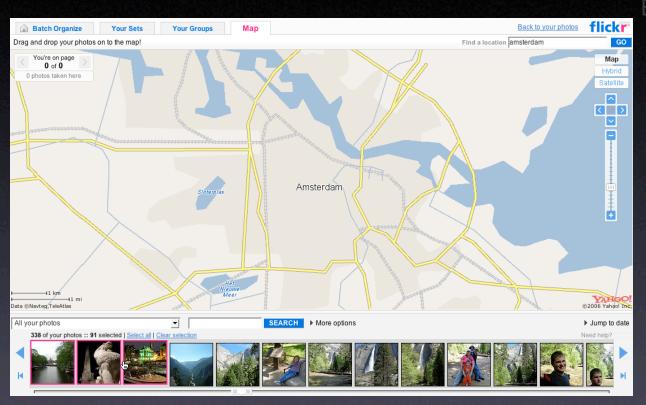
1. Trip to Amsterdam - photos, history, maps - Virtual trip to Amsterdam 19

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







Web 2.0 as a platform

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



The power of sharing

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

User's mental model and their primary goals



key trends

Direct, lightweight, in-page interaction.

Invitations beforehand, transitions during, and feedback after interaction.

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/strategy/



