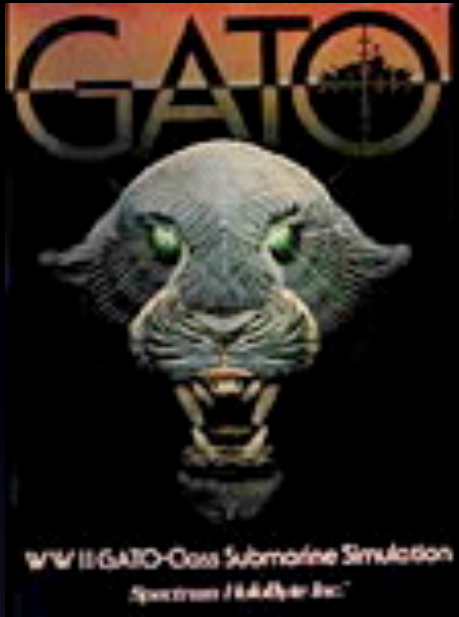


# Ajax Patterns

Rich interaction idioms

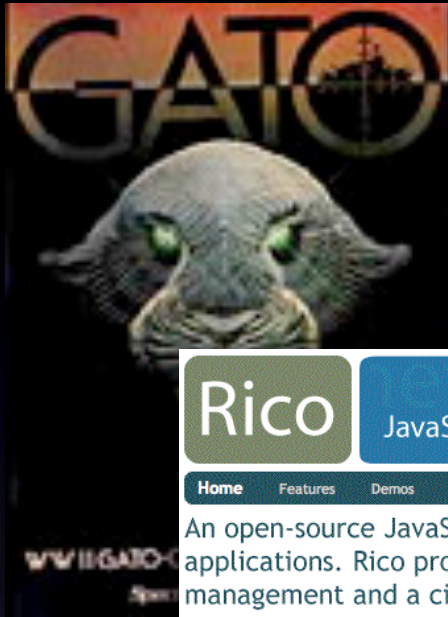
Bill Scott  
Yahoo! Ajax Evangelist  
[bscott@yahoo-inc.com](mailto:bscott@yahoo-inc.com)

# background





# background



## Rico

### JavaScript for Rich Internet Applications

[Home](#) [Features](#) [Demos](#) [Documentation](#) [Downloads](#) [About](#)

An open-source JavaScript library for creating rich internet applications. Rico provides full Ajax support, drag and drop management and a cinematic effects library.

#### BACKGROUND

Rico is a Spanish word meaning *rich*. The goal of Rico is to provide a rich experience for web sites using Ajax technology.

Rico is just one small part of a larger effort at Sabre Airline Solutions to create a suite of rich internet components, behaviors and effects for the web application space.

The library is a fully object-oriented JavaScript library. Recently we refactored the library to extend the excellent [prototype.js](#) effort from the Ruby on Rails folks.

#### OPEN SOURCE

Rico is 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](#).

#### DRAW 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 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 behaviors are planned!

#### NEW! LiveGrid Behavior!



Check out the Alternative to Paging!



See Rico in Action!



## JavaScript for Rich Internet Applications

## BACKGROUND

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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.

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

Desktop applications have long used drag interfaces to simplify user interaction. R is the simplest interfaces for enabling your support drag and drop. Just register any JavaScript object as a draggable and it handles the rest.

When actions are no longer occurring just required to clue the user on what has transitioned can communicate change in Rico provides several cinematic effects a

Take some raw HTML and sprinkle in some JavaScript. And you can get an `Accordion` component. Just nest some `Divs` and with one `onScroll` event. And the latest behavior is connect an HTML table up to a stream of data. And you can get an `Table` component. 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!

Developer Network Home
Help

Site Search
Search

# DEVELOPER NETWORK

## Design Pattern Library

[Yahoo! Developer Network](#) > Design Pattern Library

**USER NEEDS TO**

**NAVIGATE**

[Breadcrumbs](#)

[Faceted Navigation](#)

[Fly-out Menus](#)

[Horizontal Bar](#)

[Hub and Spoke](#)

[Left Navigation](#)

[Tabs](#)

[Module Tabs](#)

[Navigation Tabs](#)

**EXPLORE DATA**

[Auto Complete](#)

[Calendar Picker](#)

[Pagination](#)

[Item Pagination](#)

[Search Pagination](#)

**ORGANIZE DATA**

**GIVE FEEDBACK**

[Ratings & Reviews](#)

[Architecture Review](#)

[Rating an Object](#)

[Writing a Review](#)

**PERFORM ACTION**

**CUSTOMIZE**

[Drag and Drop](#)

[Drag and Drop Modules](#)

[Drag and Drop Objects](#)

[In Page Editing](#)

[Sliders](#)

**APPLICATION NEEDS TO**

**CALL ATTENTION**

**IMPROVE READABILITY**

[Ratings & Reviews](#)

[Review Architecture](#)

**GROUP RELATED ITEMS**

**ORGANIZE SCREEN/PAGE**

### Welcome

Welcome to the Yahoo! Design Pattern Library. We are very happy to be sharing our library with the design and development community. This is our first drop of what we hope to be a monthly release cycle for the publication of patterns. In many cases we have bundled the patterns with pointers to related code from the [Yahoo! User Interface Code Library](#). We hope this is a useful resource and look forward to your [feedback](#).

### What's a Pattern?

A pattern describes an optimal solution to a common problem within a specific context. [more](#)

### Recent Patterns

[Auto-Complete](#)  
The user needs to enter an item into a text box which could be ambiguous or hard to remember and therefore has the potential to be mis-typed.

[Breadcrumbs](#)  
User needs to navigate potentially large quantities of information efficiently, without becoming lost.

[Drag and Drop Modules](#)  
The user needs needs to re-arrange the layout of modules on a web page directly with the mouse.

[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.

[Writing a Review](#)  
User wants to share her opinion with others about an object (place, person, thing) in greater detail than a simple rating.

[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.

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

[Faceted Navigation](#)  
The user needs to filter a large set of results based on multiple criteria.

[Calendar Picker](#)  
The user needs to select a specific date from a range of dates.

[Hub and Spoke](#)  
The user needs to navigate between a central hub and related sub-items.

[Horizontal Bar](#)  
The user needs to quickly access a set of related items or categories.

[Fly-out Menu](#)  
The user needs to access a list of options without cluttering the main interface.

[Left Navigation](#)  
The user needs to quickly access a set of related items or categories.

[Tabs](#)  
The user needs to switch between multiple views or sections of content.

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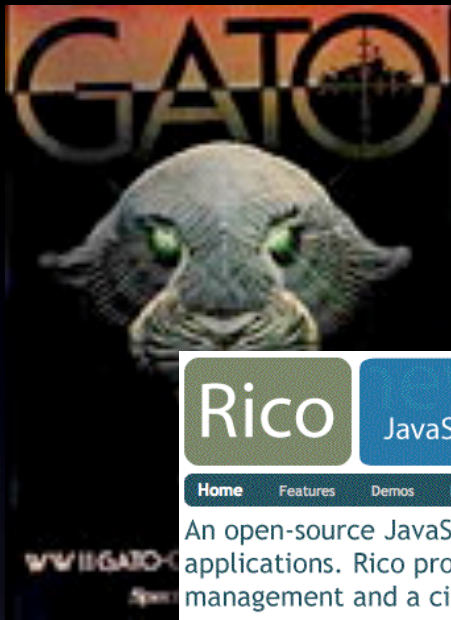
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[Faceted Navigation](#)  
The



# background



## Rico

JavaScript for Rich Internet Applications

Home Features Demos Documentation Downloads About

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Developer Network Home Help

Site Search Search

## YAHOO! DEVELOPER NETWORK

### Design Pattern Library

Yahoo! Developer Network > Design Pattern Library

**USER NEEDS TO**

- NAVIGATE
  - Breadcrumbs
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  - Fly-out Menus
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  - Hub and Spoke
  - Left Navigation
  - Module Tabs
  - Navigation Tabs
- EXPLORE DATA
  - Auto Complete
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  - Drag and Drop
    - Drag and Drop Modules
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**APPLICATION NEEDS TO**

- CALL ATTENTION
- IMPROVE READABILITY
  - Ratings & Reviews
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- GROUP RELATED ITEMS
- ORGANIZE SCREEN/PAGE

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**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 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.

### Scratchpad

Add Website to Scratchpad

### Projects(3)

**National Mapping - Fab Facts, Landforms**  
<http://www.ga.gov.au/education/fab>

Geography: Landfor...

Add Website to Project

The cell is engaged in metabolic activity and performing its prepare for...

**Civil War Battles**

Add Website to Project

Create a new Project



# 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.

# How to deconstruct patterns?

- Interaction  
event, timer, invitation
- Operation  
lookup, action, validate, message
- Presentation  
update to the interface





# interaction.

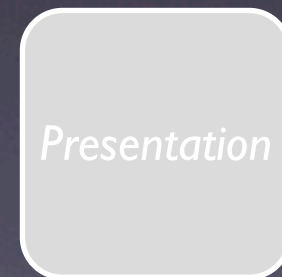
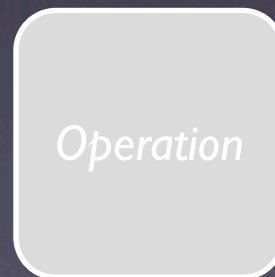
- Every pattern starts with an interaction

User event (event)

System event (timer)

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

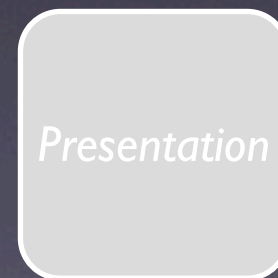
- Some patterns are about **inviting** interaction





# operation.

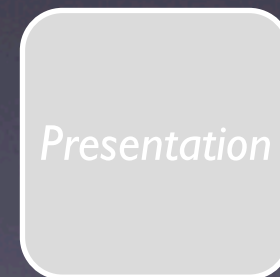
- Lookup. I can get information when I need it.
- Action. I can take action in context.
- Validate. I can prevent errors early.
- Message. I can communicate instantly.



# operation. lookup.

- I can get information when I need it

Auto Complete. Deferred Content Loading.  
Dynamic Goal. Narrowing Choices. Refining  
Search. Live Search. Dynamic Filter. Detail Zoom.  
Endless Scrolling. Expandable Paging Boundary.  
Fresh Content. Hover Detail. In Place Drill Down.  
On Demand Refresh. Periodic Refresh. Resizable  
Modules. Scrolling Modules. Auto Form Fill.

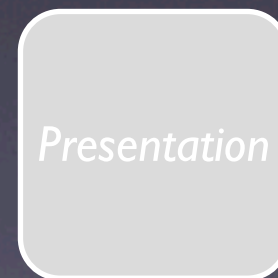




# operation. action.

- I can take action in context

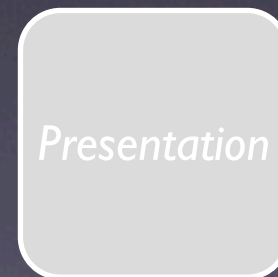
Drag and Drop Modules. In Page Editing. In Page Custom Editing. Direct State Editing. Grid Cell Editing. Inline Custom Editing. Inline Tag Editing. Popup Custom Editing. Slide-out Custom Editing. Inline Text Editing. Inline Reordering. Auto Save. Remembered Collection. Remembered Preferences. Rating an Object.



# operation. validate.

- I can prevent errors early

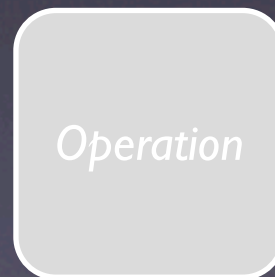
inline validate. validate then suggest. balloon error  
tip. character counter. live preview.



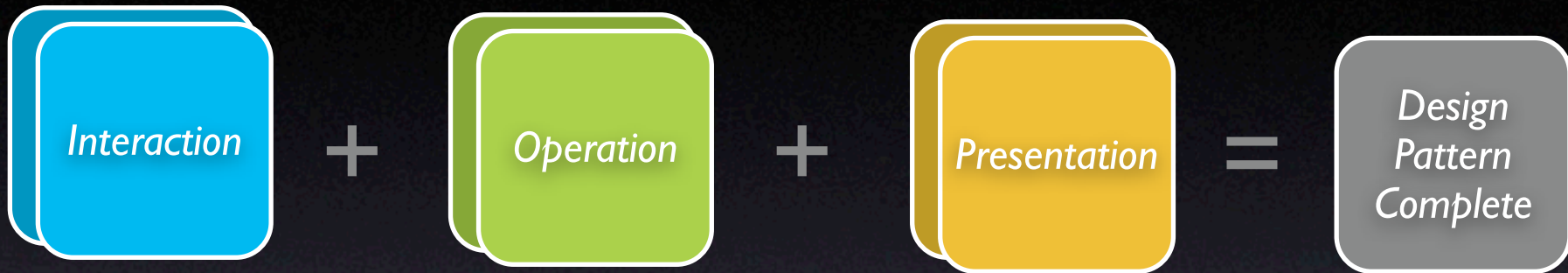


# presentation

Indication. Busy Indication. Cursor Busy. In Context  
Busy. In Context Progress. Inline Status. 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..  
Available. Selected. Slide-out. Popup Balloon.



# Pattern-O-Matic





# Pattern-O-Matic



Auto Complete. Deferred Content Loading. Dynamic Goal. Narrowing Choices. Refining Search. Live Search. Dynamic Filter. Detail Zoom. Endless Scrolling. Expandable Paging Boundary. Fresh Content. Hover Detail. In Place Drill Down. On Demand Refresh. Periodic Refresh. Resizable Modules. Scrolling Modules. Auto Form Fill.

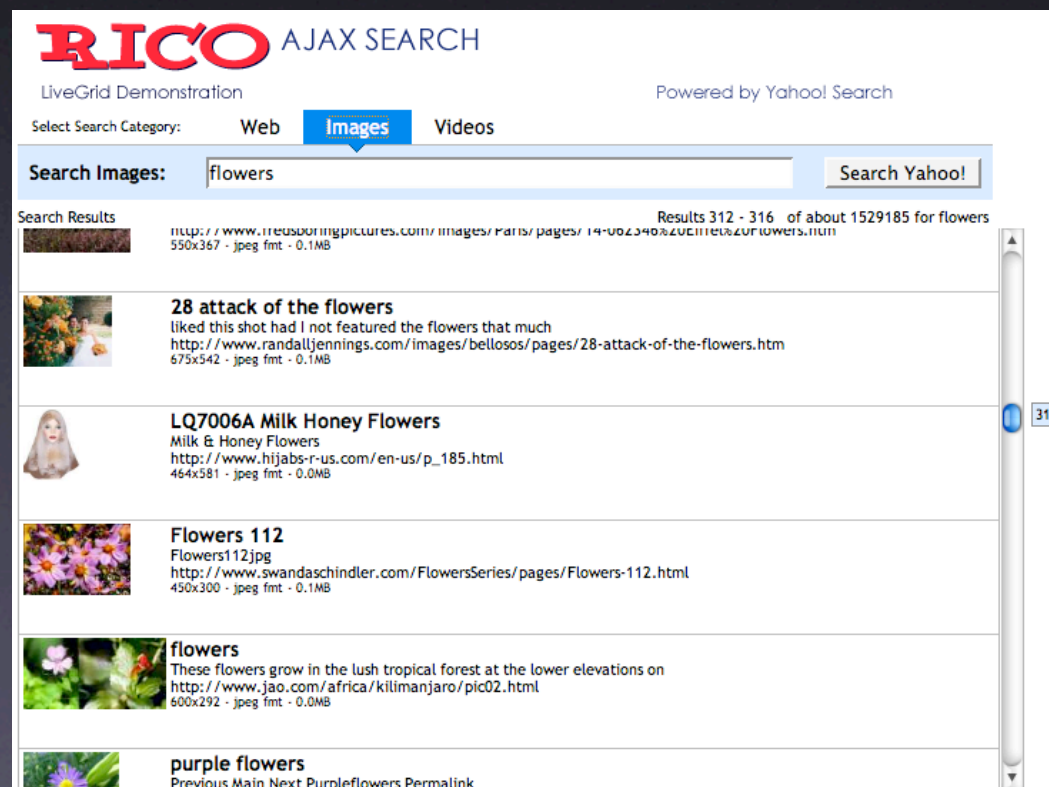
# Pattern-O-Matic



The screenshot shows the Kayak website's flight search interface. The 'From' field contains the text 'dall' and has a dropdown menu open showing three options: 'Dallas/Fort Worth, TX USA - Dallas/Ft Worth Intl (DFW) Airport', 'Dallas, TX USA - Love Field (DAL) Airport', and 'Dallas, TX'. The 'To' field is empty. Below the 'From' field, there is a 'Travelers' dropdown set to '1' and a 'Search' button. To the right of the 'Search' button, there is a checkbox for 'Show Nearby Airports' (checked) and a checkbox for 'Prefer Nonstop' (unchecked). The top of the page features the Kayak logo and navigation links for 'Flights', 'Hotels', 'Cars', 'Deals', and 'Buzz'. The bottom of the page has a footer with the text 'hundreds of airlines from 100+ sites.'



# Pattern-O-Matic



# Pattern-O-Matic




# Netflix Top 100

These are the all-time most rented movies at Netflix. If you've seen any of them, let us know how you liked them by clicking the stars.

↑ ↓ = Movement on the list since the previous week

↑ +8	Add	1. <a href="#">Mystic River</a>
↓ -1	Add	2. <a href="#">Collateral</a>
↓ -1	Add	3. <a href="#">The Terminal</a>
↓ -1	Add	4. <a href="#">Man on Fire</a>
↓ -1	Add	5. <a href="#">Ray</a>
↓ -1	Add	6. <a href="#">The Aviator</a>
↓ -1	Add	7. <a href="#">The Last Samurai</a>
↓ -1	Add	8. <a href="#">The Day After Tomorrow</a>
↓ -1	Add	9. <a href="#">The Bourne Supremacy</a>

### Collateral (2004)



Max (Oscar nominee Jamie Foxx) takes a job as a taxi driver to make ends meet, hoping to one day run his own business. Twelve years later, he's still driving the same cab and is about to have his craziest day on the job yet when he discovers that Vincent (Tom Cruise), who's just paid Max a handsome sum to be driven around all night, is a hit man. Now, it's up to Max to save the life of Vincent's final hit ... while keeping his own life intact.

**Starring:** Tom Cruise, Jamie Foxx  
**Director:** Michael Mann  
**Genre:** Thrillers

**R**

⊙ ★ ★ ★ ★ ★



# Pattern-O-Matic



**Flight Results** Results 1 - 20 of 236 for **San Jose, CA to Los Angeles, CA** (02/10 - 02/17) [\(About this page\)](#)

**Flights** **Hotels**

[Change Your Search](#)

**Refine Results:**

**Flight Times** from

**DEPARTURE**

☒ 5am - 9am

☒ 9am - 3pm

☒ 3pm - 9pm

☒ 9pm - 5am

**RETURN**

☒ 5am - 9am

☒ 9am - 3pm

☒ 3pm - 9pm

☒ 9pm - 5am

**SPONSOR RESULTS**

**Los Angeles Airfare: Buy Direct and Save**  
Save money and earn 1,000 bonus miles when booking Los Angeles airfare at AlaskaAir.com. W...  
[www.alaskaair.com](http://www.alaskaair.com)

**Los Angeles Flight: Compare at Travelzoo**  
Save on Los Angeles flights at Travelzoo - Get great deals on Los Angeles flights by compa...  
[www.travelzoo.com](http://www.travelzoo.com)

**SPONSOR DEALS**

**Great Flight + Hotel deals for Los Angeles**  
Save with add-ons! Add a hotel to your flight to Los Angeles and save more.  
[www.chaptickets.com](http://www.chaptickets.com)

**Save with Flight + Hotel deals for Los Angeles**  
Build your trip to Los Angeles, find a great deal! Just Orbitz and Go.  
[www.orbitz.com](http://www.orbitz.com)

**Los Angeles Vacation Packages from Lodging.com**  
Save more when you book a hotel with your flight to Los Angeles.  
[www.lodging.com](http://www.lodging.com)

**Updating results...**

Sort by [Low price](#) | [Departure times](#) | [Arrival times](#)

<b>\$132</b>	<b>JetBlue</b> (flight details)	<b>6:35a-7:55a</b>	<b>Non-stop</b>	<b>OAK-LGB</b>	<b>\$132</b>
per person		<b>6:50a-8:10a</b>	<b>Non-stop</b>	<b>LGB-OAK</b>	
<a href="#">jetBlue</a>	<a href="#">Book it now</a> - <a href="#">Email</a> - <a href="#">IM</a>	<a href="http://jetblue.com">jetblue.com</a>			

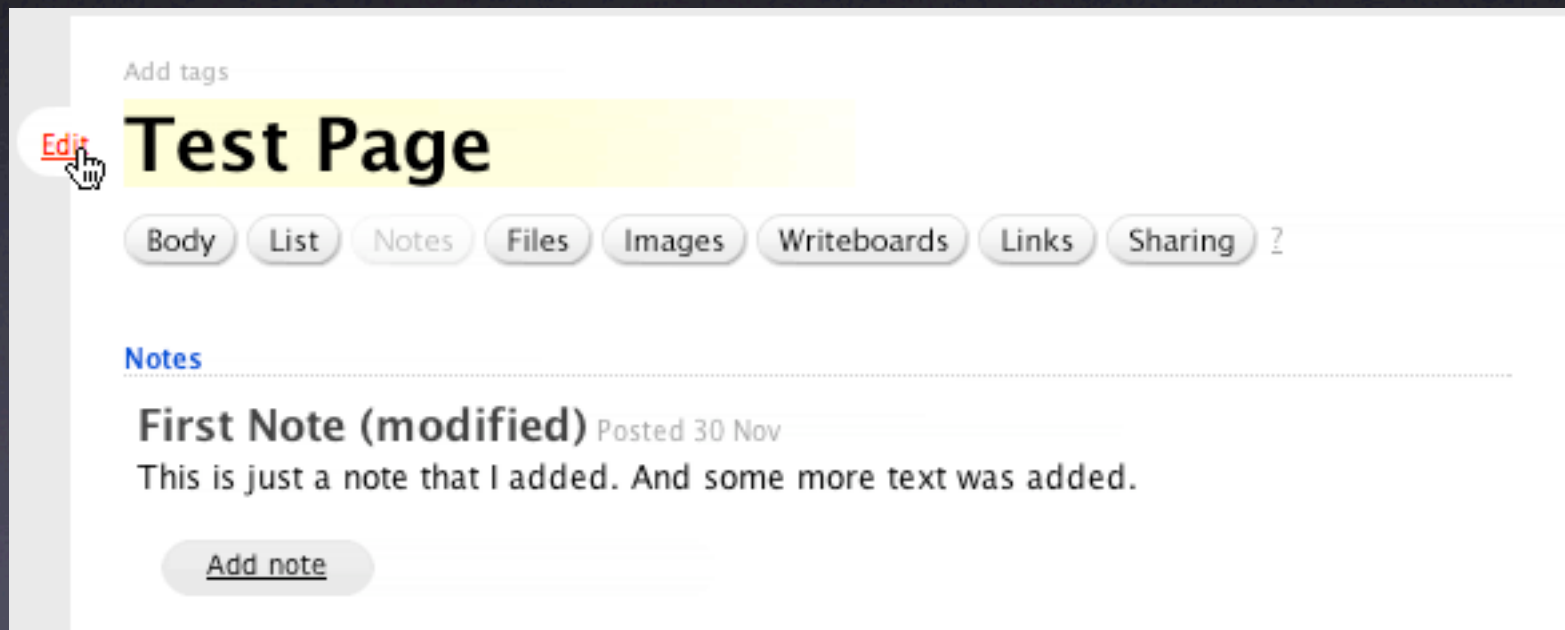
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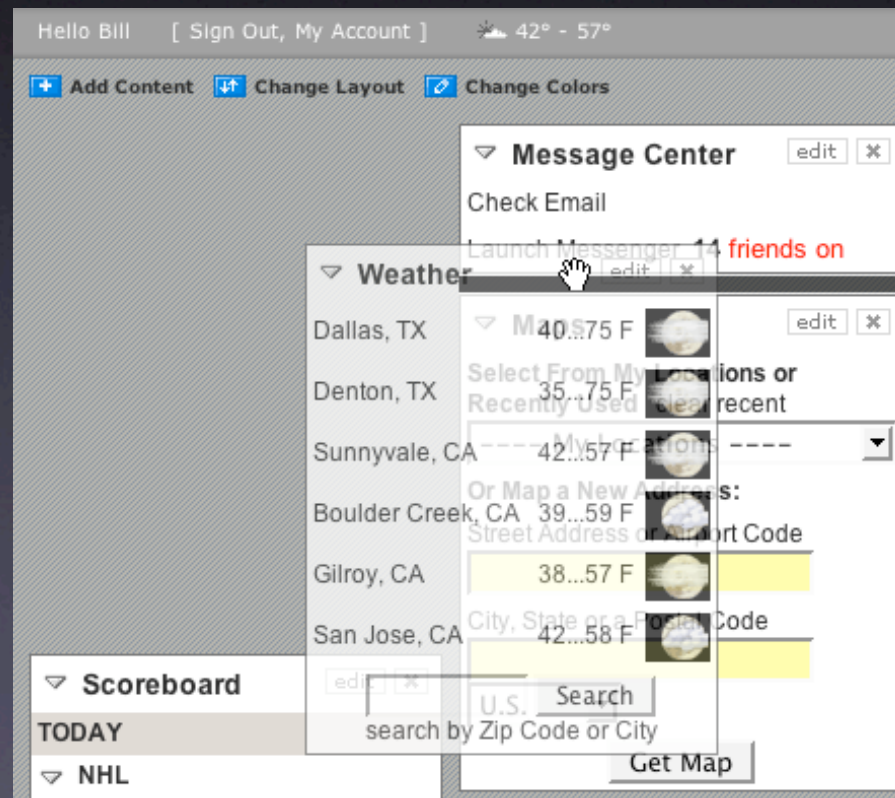
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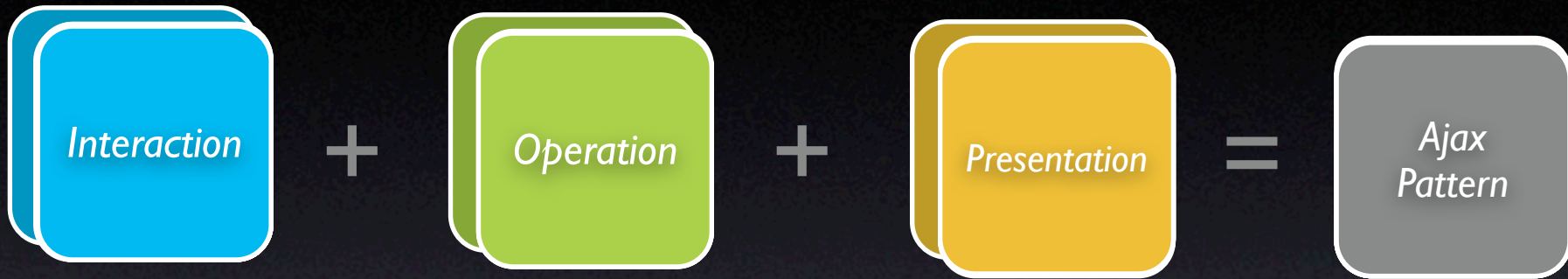


# Pattern-O-Matic





# Pattern-O-Matic



# How to Open up Patterns?

The screenshot shows the Yahoo! Developer Network Design Pattern Library. The page has a header with the Yahoo! logo and 'DEVELOPER NETWORK'. Below the header is a navigation bar with 'Yahoo! Developer Network' and 'Design Pattern Library'. The main content area is divided into two columns. The left column contains a 'USER NEEDS TO' section with a 'NAVIGATE' subsection. The 'NAVIGATE' subsection lists various navigation patterns: Breadcrumbs, Faceted Navigation, Fly-out Menus, Horizontal Bar, Hub and Spoke, Left Navigation, Tabs, Module Tabs, and Navigation Tabs. Below this is an 'EXPLORE DATA' section with 'Auto Complete', 'Calendar Picker', 'Pagination', and 'Item Pagination'. The right column contains a 'Welcome' message, a 'What's a Pattern?' section, and a 'Recent Patterns' section. The 'Recent Patterns' section lists several patterns: Auto-Complete, Breadcrumbs, Drag and Drop Modules, Module Tabs, Navigation Tabs, Object Pagination, Results Page, Rating an Object, and Writing a Review. Each pattern is accompanied by a small image of a web page snippet and a brief description of the user need it addresses.

Developer Network Home Help Site Search Search

**YAHOO! DEVELOPER NETWORK**

Design Pattern Library

Yahoo! Developer Network > Design Pattern Library

**USER NEEDS TO**

**NAVIGATE**

- Breadcrumbs
- Faceted Navigation
  - Fly-out Menus
  - Horizontal Bar
  - Hub and Spoke
  - Left Navigation
- Tabs
  - Module Tabs
  - Navigation Tabs

**EXPLORE DATA**

- Auto Complete
- Calendar Picker
- Pagination
  - Item Pagination
  - Search Pagination

**ORGANIZE DATA**

**GIVE FEEDBACK**

- Ratings & Reviews
  - Architecture Review
  - Rating an Object
  - Writing a Review

**PERFORM ACTION**

**CUSTOMIZE**

- Drag and Drop
  - Drag and Drop Modules
  - Drag and Drop Objects
- In Page Editing
- Sliders

**APPLICATION NEEDS TO**

- CALL ATTENTION
- IMPROVE READABILITY
  - Ratings & Reviews
    - Review Architecture
- GROUP RELATED ITEMS
- ORGANIZE SCREEN/PAGE

**Welcome**

Welcome to the Yahoo! Design Pattern Library. We are very happy to be sharing our library with the design and development community. This is our first drop of what we hope to be a monthly release cycle for the publication of patterns. In many cases we have bundled the patterns with pointers to related code from the [Yahoo! User Interface Code Library](#). We hope this is a useful resource and look forward to your [feedback](#).

**What's a Pattern?**

A pattern describes an optimal solution to a common problem within a specific context. [more...](#)

**Recent Patterns**

- Auto-Complete**  
The user needs to enter an item into a text box which could be ambiguous or hard to remember and therefore has the potential to be mis-typed.
- Breadcrumbs**  
User needs to navigate potentially large quantities of information efficiently, without becoming lost.
- Drag and Drop Modules**  
The user needs to re-arrange the layout of modules on a web page directly with the mouse.
- Module Tabs**  
The user needs to navigate through one or more stacked panes of content without refreshing the page.
- Navigation Tabs**  
The user needs to navigate through a site to locate content and features and have clear indication of their current location in the site.
- Object Pagination**  
The user needs to view data items from a potentially large set of sorted data that will not be easy to display within a single page.
- Results Page**  
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.



# How to Open up Patterns?

**Developer Network Home Help** Site Search Search

## YAHOO! DEVELOPER NETWORK

### Design Pattern Library

Yahoo! Developer Network > Design Pattern Library

**USER NEEDS TO**

- NAVIGATE
  - Breadcrumbs
  - Faceted Navigation
  - Fly-out Menus
  - Horizontal Bar
  - Hub and Spoke
  - Left Navigation
- Tabs
  - Module Tabs
  - Navigation Tabs
- EXPLORE DATA
  - Auto Complete
  - Calendar Picker
- Pagination
  - Item Pagination
  - Search Pagination
- ORGANIZE DATA
- GIVE FEEDBACK
  - Ratings & Reviews
    - Architecture Review
    - Rating an Object
    - Writing a Review
- PERFORM ACTION
- CUSTOMIZE
  - Drag and Drop
    - Drag and Drop Modules
    - Drag and Drop Objects
  - In Page Editing
  - Sliders

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The user needs to navigate through a site to locate content and features and have clear indication of their current location in the site.
- Calendar Picker**  
The user needs to select a date from a calendar.
- Horizontal Bar**  
The user needs to view a set of search results ranked by relevance that is too large to easily display within a single page.
- Hub and Spoke**  
The user needs to view a set of search results ranked by relevance that is too large to easily display within a single page.
- Left Navigation**  
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- Navigation Tabs**  
The user needs to view a set of search results ranked by relevance that is too large to easily display within a single page.
- Search Pagination**  
The user needs to view a set of search results ranked by relevance that is too large to easily display within a single page.
- Writing a Review**  
The user needs to share her opinion with others about an object (place, person, thing) in greater detail than a simple rating.

**Ratings and Reviews**

**Problem Summary**

User wants to leave an opinion or evaluation about an object, person, place or thing. Quick opinions can be captured using Ratings or more in-depth evaluations using Reviews.

**Solution Patterns**

- 1. Target Elements (T1 - T5)**
- 2. Review Elements (R1 - R5)**
- Overall: ★★★★★**
- Quality: ★★★★★**
- Excludes: ★★★★★**

**Architecture of a Review**

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

**Rating An Object**

**Problem Summary**

A user wants to quickly leave their opinion on an object, with minimal interruption to any other task flow they are involved in.

**EXAMPLE:**

**Restaurant**  
(12345) Alma St  
Menlo Park, CA 94025  
Cross Street:  
Between Alma Ln and Ravenswood Ave

**Average Rating (7)**  
Read 7 reviews

**Average**  
★★★★★  
Write a Review

**Play ▶**

Rate a restaurant on [Yahoo! Local](#)

**Use When**

- A user wants to leave an opinion quickly.
- Use in combination with reviews for richer experience.
- Use to quickly tap into the existing "community" of a product.
- Ratings are collected together to present an average rating of an object from the collective user set.

**Solution**

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

**QUICK JUMP**

- [Solution](#)
- [Rationale](#)
- [Accessibility](#)

**RELATED PATTERNS**

- [Ratings and Reviews](#)
- [Architecture of a Review](#)
- [Writing a Review](#)

**AS USED ON YAHOO!**

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# How to Share Patterns?



# How to Share Patterns?

[Developer Network Home](#) [Help](#) Site Search

**YAHOO! DEVELOPER NETWORK**

Design Pattern Library


[Yahoo! Developer Network](#) > [Design Pattern Library](#) > [Ratings and Reviews](#) > Rating An Object

## Rating An Object

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EXAMPLE:

**Restaurant**  
()  
Alma St  
Menlo Park, CA 94025  
Cross Street:  
Between Alma Ln and Ravenswood Ave

★★★★★

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

Average  
★★★★☆  
[Write a Review](#)

Play ▶

Rate a restaurant on [Yahoo! Local](#)

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### QUICK JUMP

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### RELATED PATTERNS


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- [Architecture of a Review](#)
- [Writing a Review](#)

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# How to Share Patterns?

Developer Network Home Help Site Search Search

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### Design Pattern Library

Yahoo! Developer Network > Design Pattern Library > Ratings and Reviews > Rating An Object

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[Write a Review](#)

Play ▶

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**QUICK JUMP**

- [Solution](#)
- [Rationale](#)
- [Accessibility](#)

**RELATED PATTERNS**


- [Ratings and Reviews](#)
- [Architecture of a Review](#)
- [Writing a Review](#)

**AS USED ON YAHOO!**

- [Yahoo! Local](#)
- [Yahoo! Shopping](#)
- [Yahoo! Custom Autos](#)
- [Yahoo! Movies](#)

**BLOG**

- [Blog Article](#)

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Pattern  
Service



# How to Share Patterns?

The screenshot shows the 'Rating An Object' pattern page on the Yahoo! Developer Network. The page includes a 'Problem Summary' section with an example of a restaurant rating interface, a 'Use When' section with four bullet points, and a 'Solution' section with one bullet point. The example interface shows a restaurant name, address, and a star rating system with an average rating of 7 and a 'Write a Review' link. The 'Use When' section lists scenarios like 'A user wants to leave an opinion quickly' and 'Use in combination with reviews for richer experience'. The 'Solution' section states 'Show clickable items (most often used are stars) that light up on rollover to infer clickability'.

Developer Network Home Help Site Search Search

**YAHOO! DEVELOPER NETWORK**

Design Pattern Library

Yahoo! Developer Network > Design Pattern Library > Ratings and Reviews > Rating An Object

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EXAMPLE:

**Restaurant**

( )

Alma St  
Menlo Park, CA 94025

Cross Street:  
Between Alma Ln and Ravenswood Ave

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

Average  
★★★★★  
[Write a Review](#)

Play ▶

Rate a restaurant on [Yahoo! Local](#)

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**QUICK JUMP**

- [Solution](#)
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**AS USED ON YAHOO!**

- [Yahoo! Local](#)
- [Yahoo! Shopping](#)
- [Yahoo! Custom Autos](#)
- [Yahoo! Movies](#)

**BLOG**

- [Blog Article](#)

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Pattern  
Service

Yahoo! service responds with a JSON representation of a pattern. Allows anyone to mashup the patterns into a corporate pattern library

# How to Share Patterns?

The screenshot shows the Yahoo! Developer Network Design Pattern Library page for the 'Rating An Object' pattern. The page includes a header with the Yahoo! logo and 'DEVELOPER NETWORK', a search bar, and a breadcrumb trail: 'Yahoo! Developer Network > Design Pattern Library > Ratings and Reviews > Rating An Object'. The main content area is titled 'Rating An Object' and contains a 'Problem Summary' section with a user scenario, an 'EXAMPLE:' section showing a restaurant rating interface, a 'Use When' section with bullet points, and a 'Solution' section with a bullet point. The example shows a restaurant card with a star rating, address, and a 'Write a Review' button. The right sidebar contains 'QUICK JUMP' links (Solution, Rationale, Accessibility), 'RELATED PATTERNS' (Ratings and Reviews, Architecture of a Review, Writing a Review), 'AS USED ON YAHOO!' (Yahoo! Local, Yahoo! Shopping, Yahoo! Custom Autos, Yahoo! Movies), and a 'BLOG' link (Blog Article). A Creative Commons license notice is at the bottom of the sidebar.

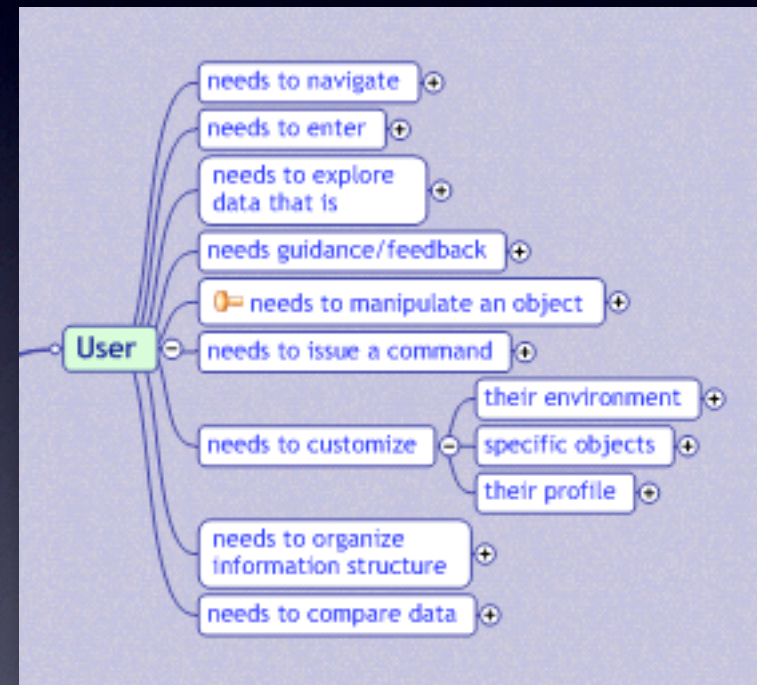
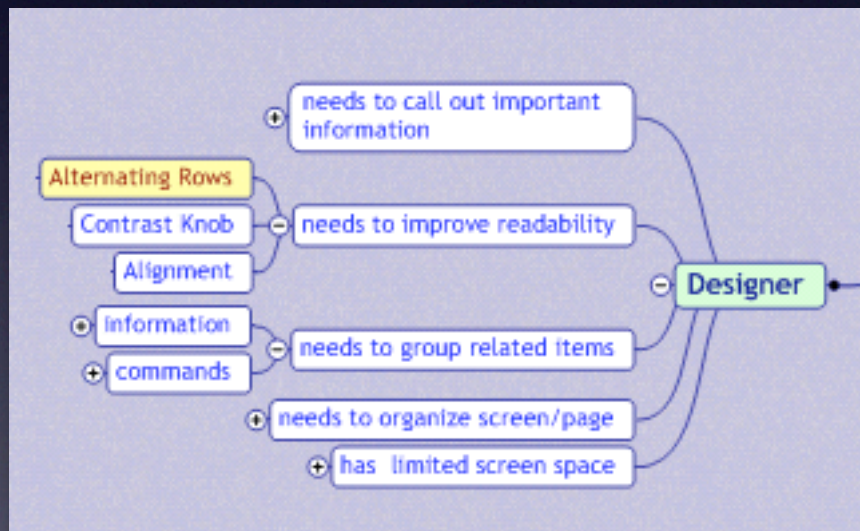
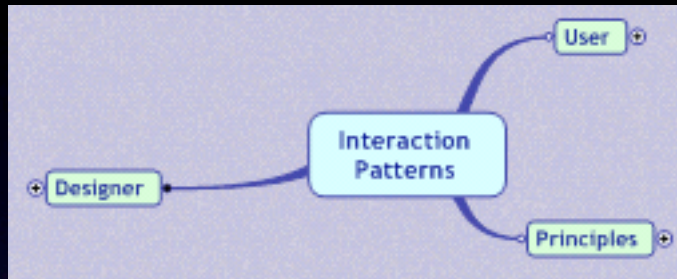
Yahoo! service responds with a JSON representation of a pattern. Allows anyone to mashup the patterns into a corporate pattern library

Pattern Service

Corporate Branded Pattern Site (mashup)



# How to Organize?



# How to Teach Patterns?



design principles for richness



principle. make it direct.

principle. make it direct.



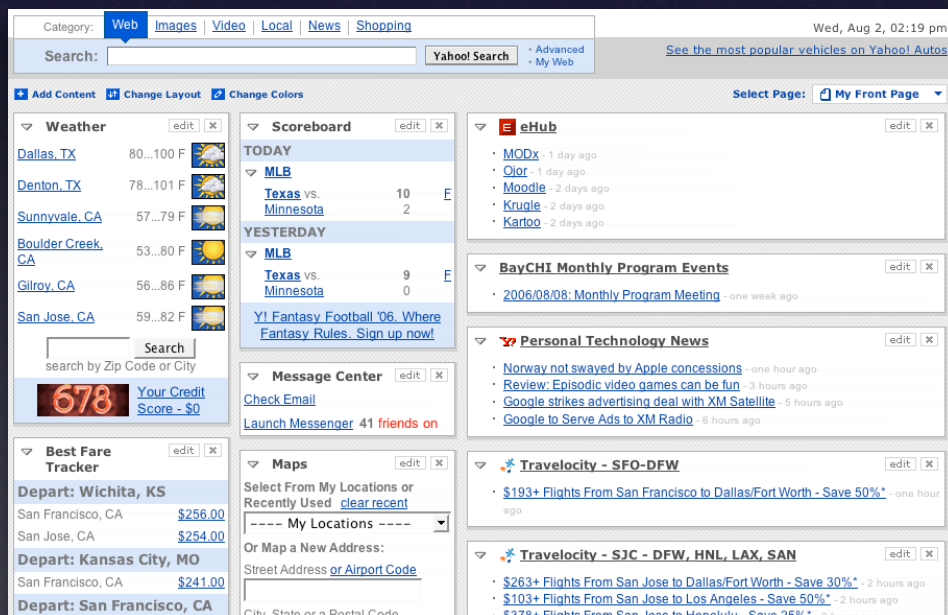
pattern. in-page action.



# principle. make it direct.



pattern. in-page action.



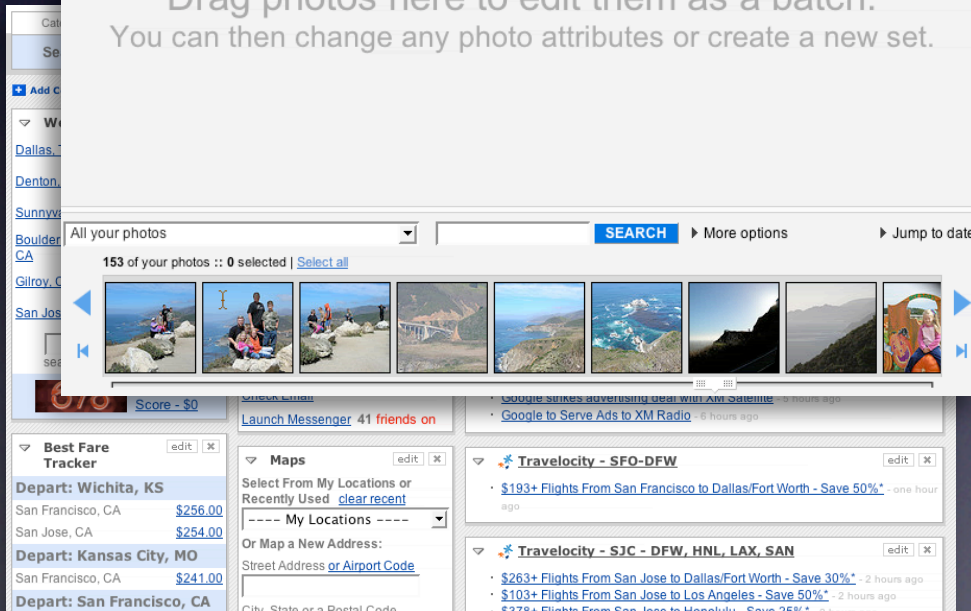
pattern. drag & drop.

# principle. make it direct.



pattern. in-page action.

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



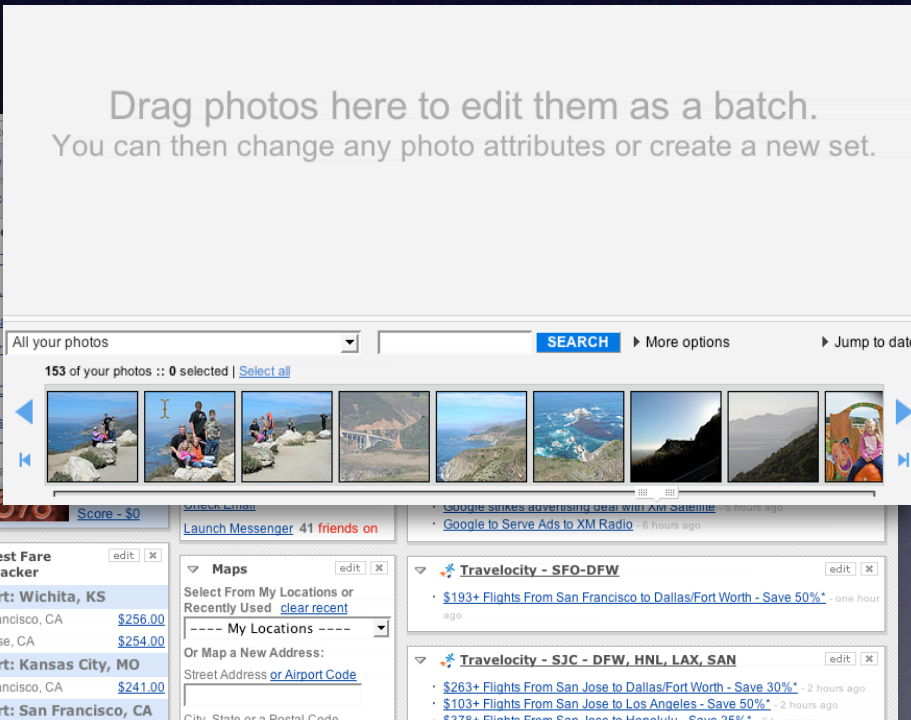
pattern. drag & drop.



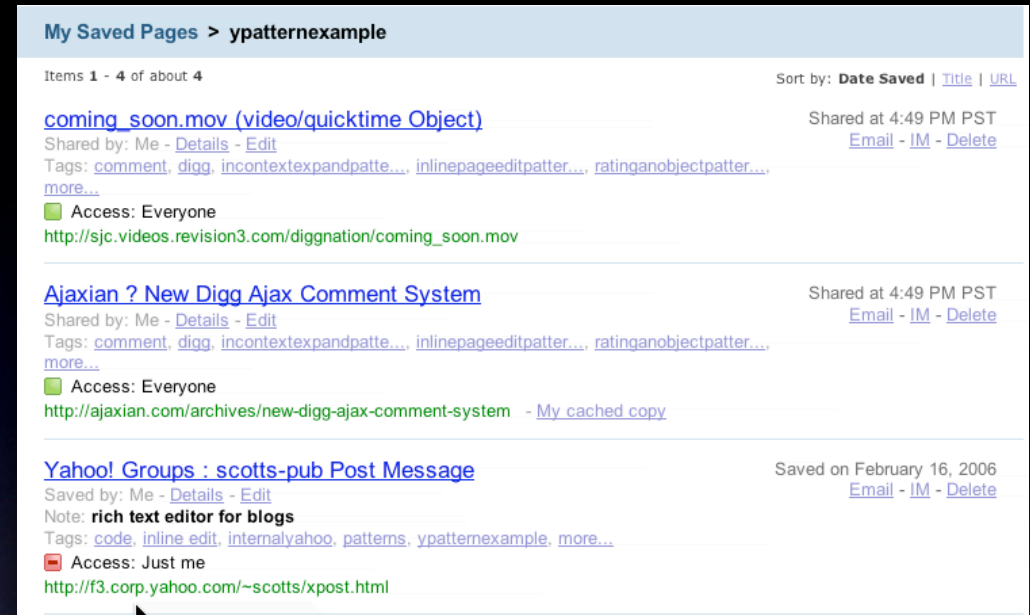
# principle. make it direct.



pattern. in-page action.



pattern. drag & drop.

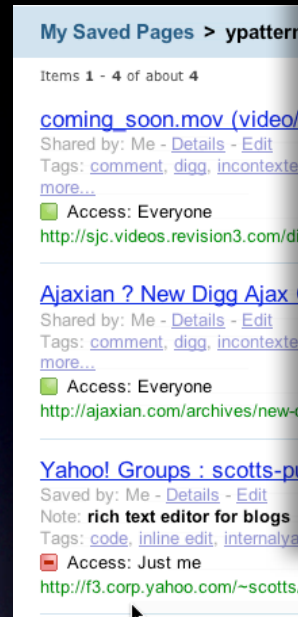


pattern. inline editing.

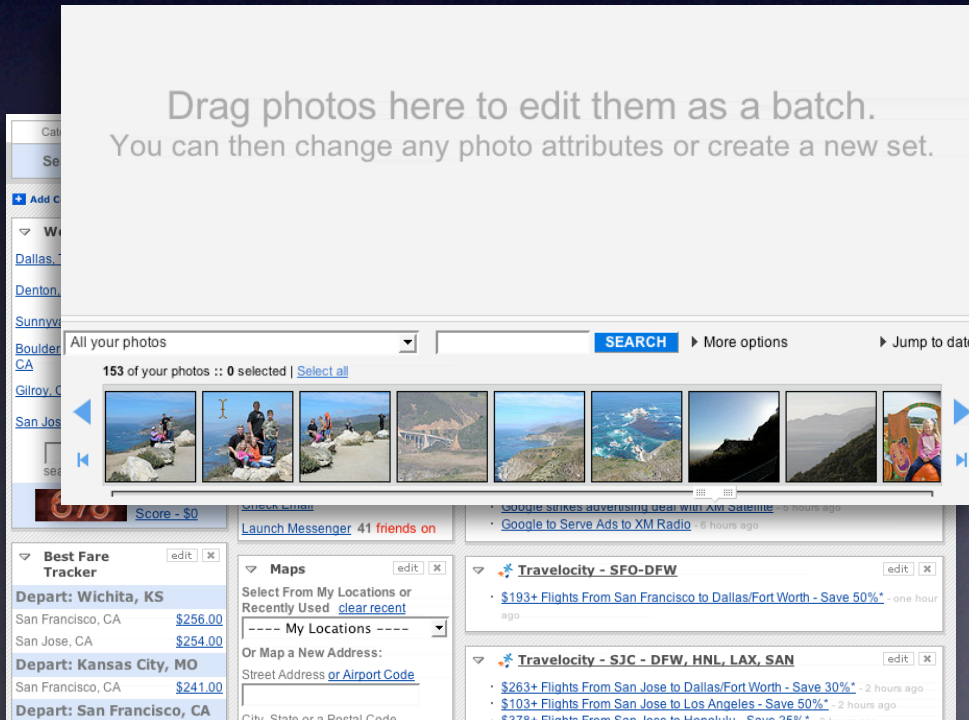
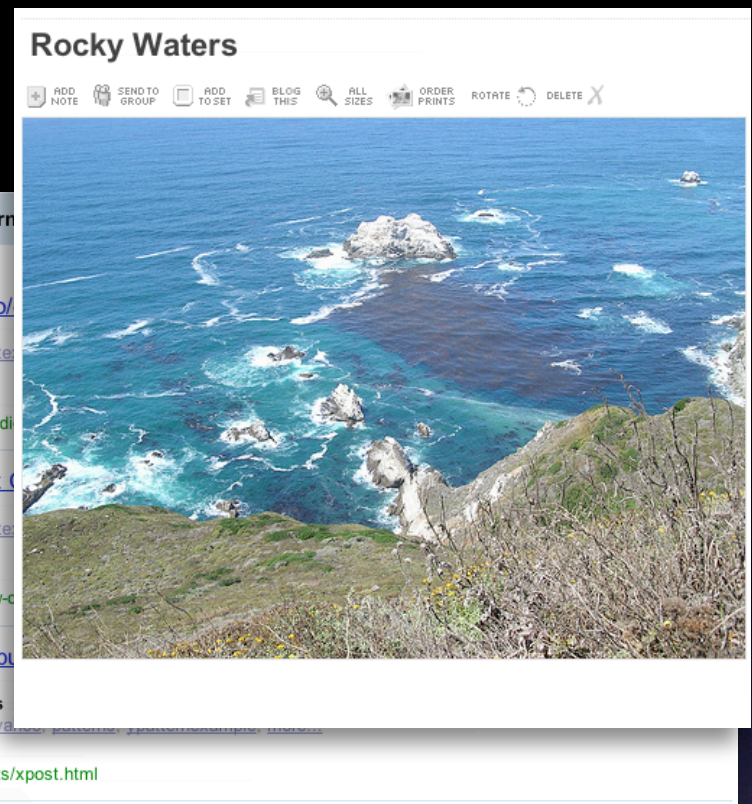
# principle. make it direct.



pattern. in-page action.



pattern. inline editing.



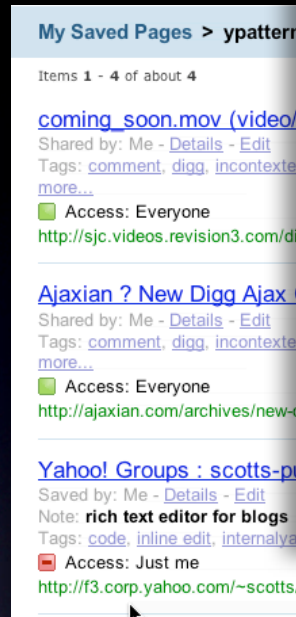
pattern. drag & drop.



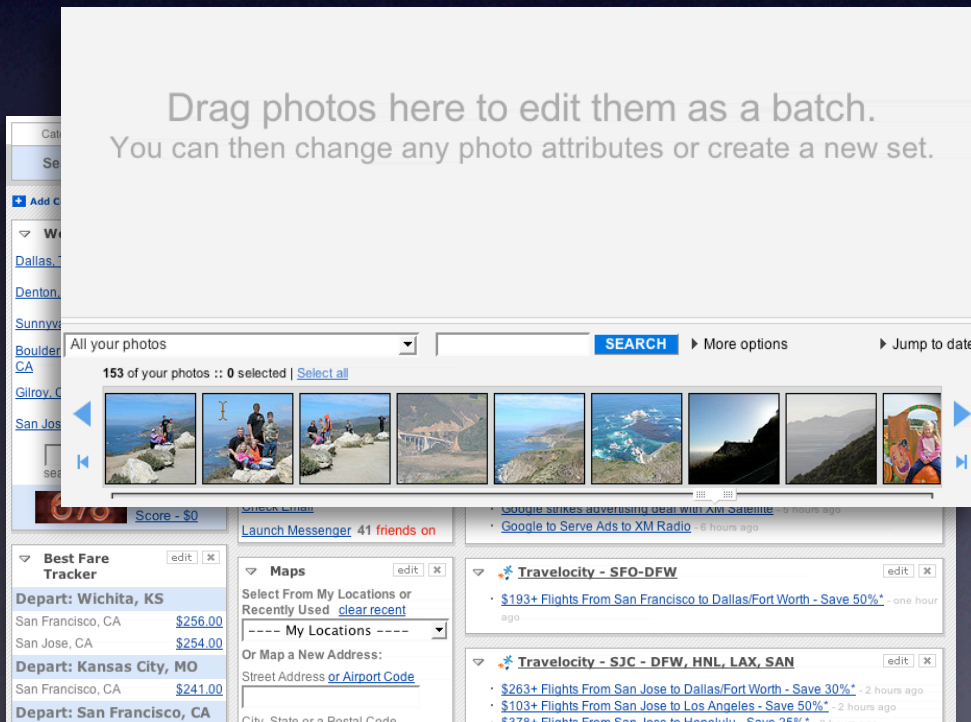
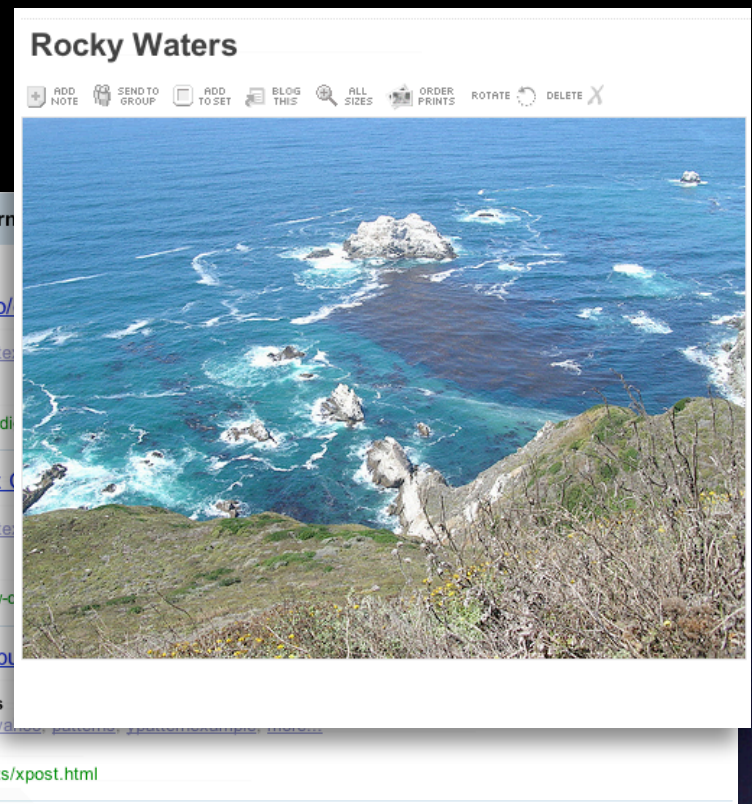
# principle. make it direct.



pattern. in-page action.



pattern. inline editing.



pattern. drag & drop.



pattern. in-context tools.

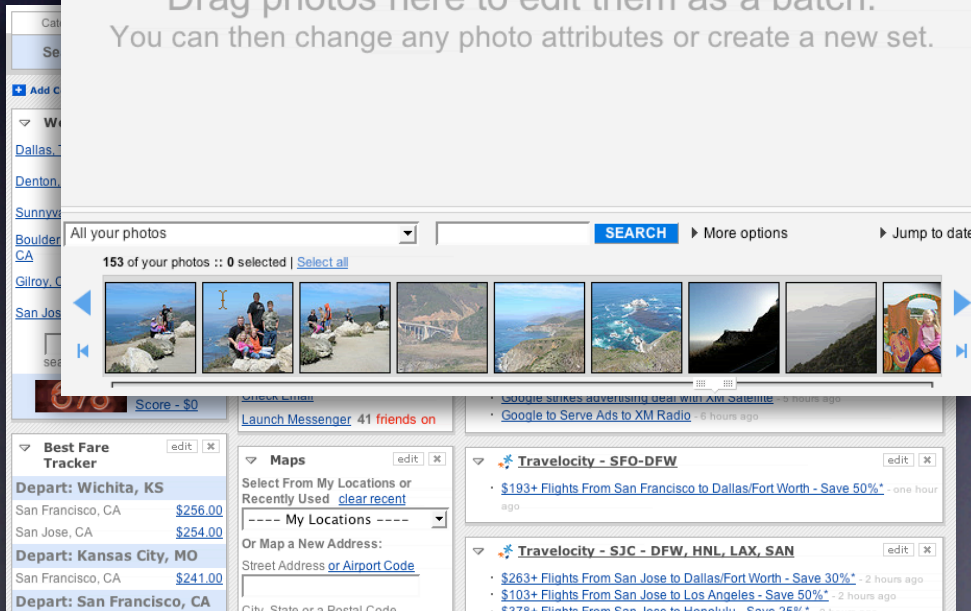


# principle. make it direct.

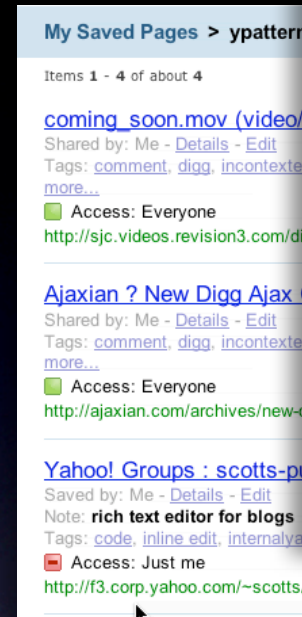


pattern. in-page action.

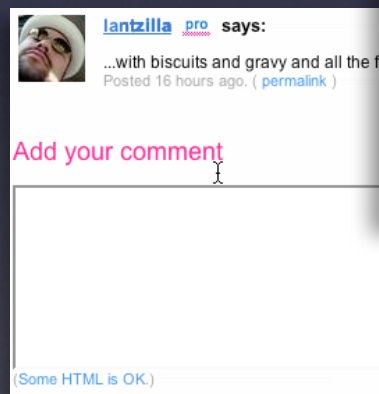
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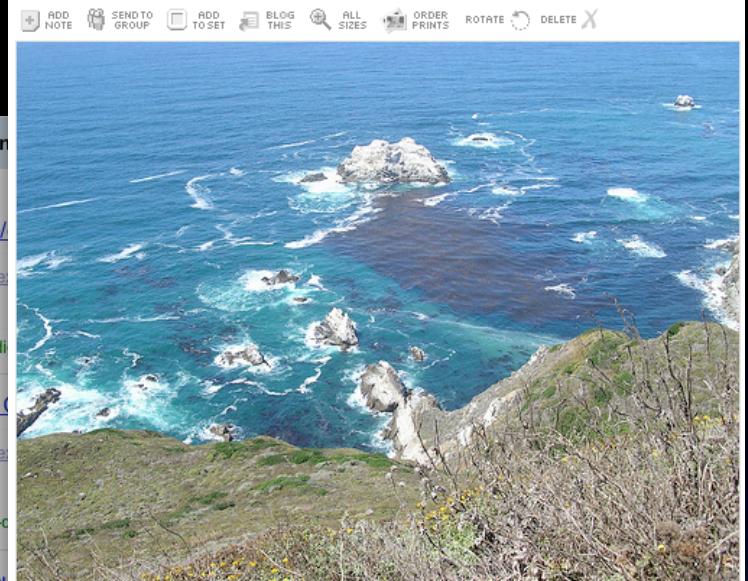


pattern. inline editing.



pattern. in-context tools.

## Rocky Waters



## Pick Up at the Store

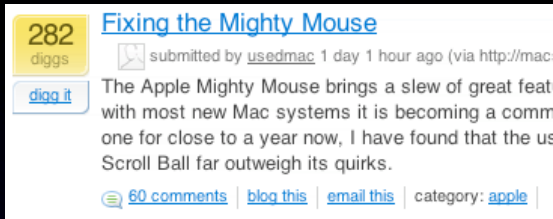
- ☐ Milk
- ☐ Orange Juice
- ☐ Tomatoes
- ☐ Lettuce
- ☐ Bread
- ☐ Chips



principle. keep a light footprint.

# principle. keep a light footprint.

pattern. in page action.





# principle. keep a light footprint.

pattern. in page action.

282  
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### Fixing the Mighty Mouse

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

The Apple Mighty Mouse brings a slew of great features with most new Mac systems it is becoming a common one for close to a year now, I have found that the use of the Scroll Ball far outweighs its quirks.

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5. GM reportedly demands billions for Renault-Nissan deal

6. API reports an across-the-board climb in petroleum supplies

7. Wednesday's biggest stock gainers and decliners

8. McDonald's boosts dividend to \$1 a share from 67 cents

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1,708, with

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size chart

Quantity: 

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\$29.50 \$9.99

add to bag

pattern. remembered collections.



pattern. in page action.

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

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1,708, with

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e New

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+5.84,

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

The chart displays two indices over a period from day 14 to 26. The y-axis ranges from -0.5% to +2.0%. The x-axis shows days 14, 18, 20, 22, and 26. The blue line represents the Dow Jones Industrial Average, and the green line represents the S&P 500. Both indices show a general upward trend with some fluctuations.

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5. GM reportedly demands billion		
6. API reports an across-the-bo		
7. Wednesday's biggest stock p		
8. McDonald's boosts dividend		

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

The chart shows the Dow Jones Industrial Average index value. The y-axis ranges from 6,000 to 12,000. The x-axis represents time. The blue line shows the index value fluctuating between approximately 11,500 and 11,800.

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

pattern. rating an object.

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

**The Great Escape**  
★★★★★ [Not Interested](#)  
Director John Sturges's Oscar-nominated adventure classic follows the true tale of a group-escape attempt from one of Germany's toughest prisoner-of-war camps. Hundreds of Allied POWs join Roger "Big X" Bartlett (Richard Attenborough), Danny "The ... [Read More](#)

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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

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Dow Jones Industrial Aver:  
11,707.89 +38.50 +0.33%  
COMPQ +2.0%  
sp500 +1.5%  
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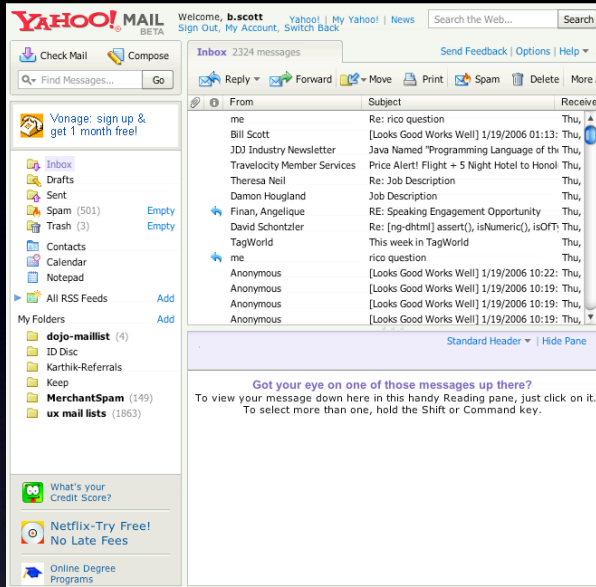
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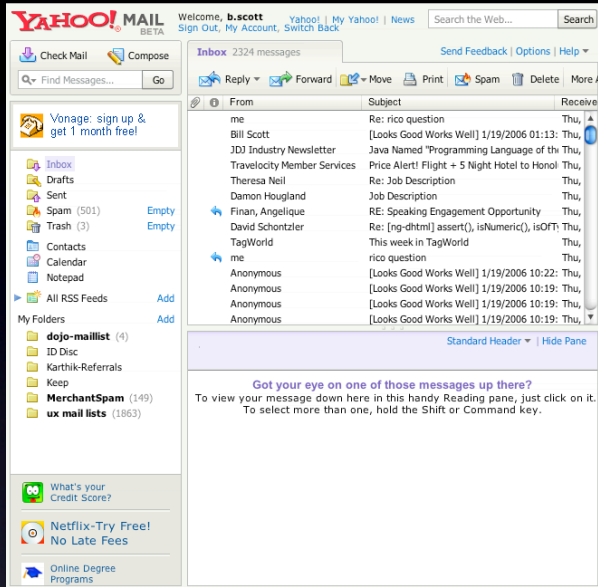
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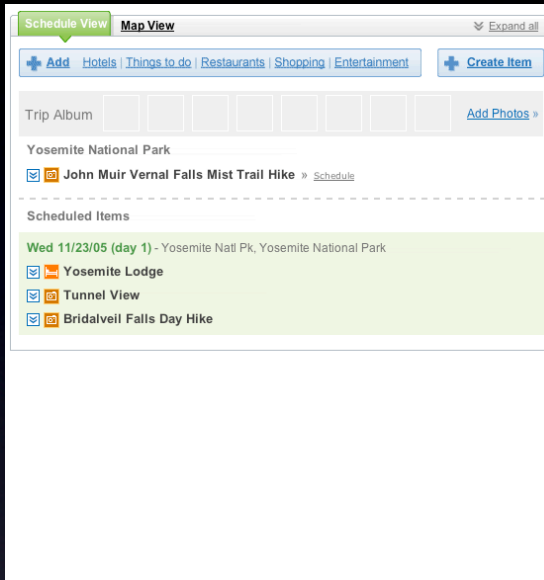


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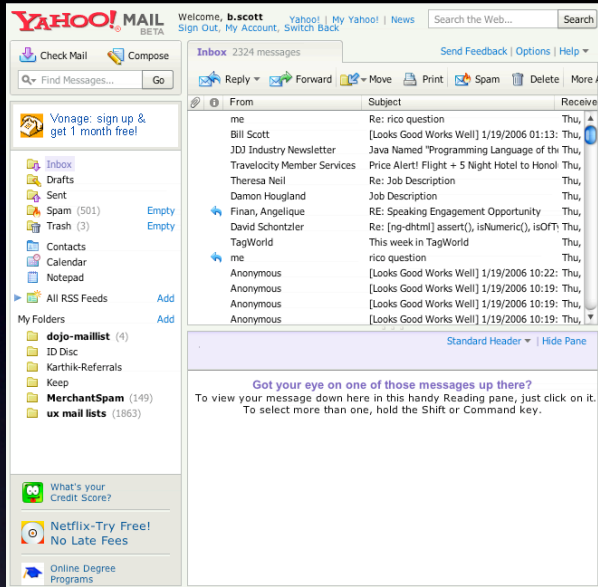
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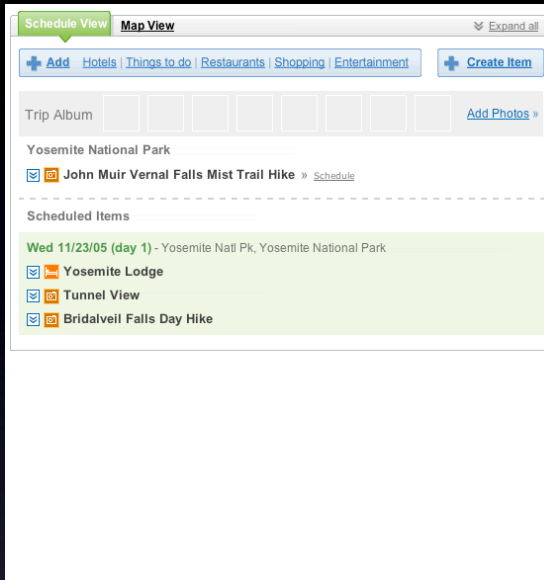


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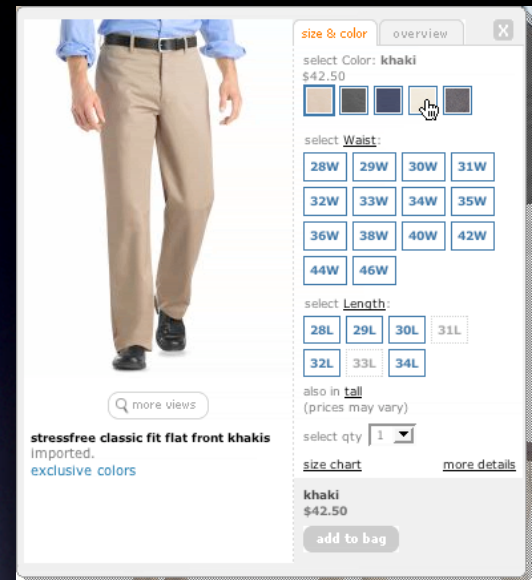
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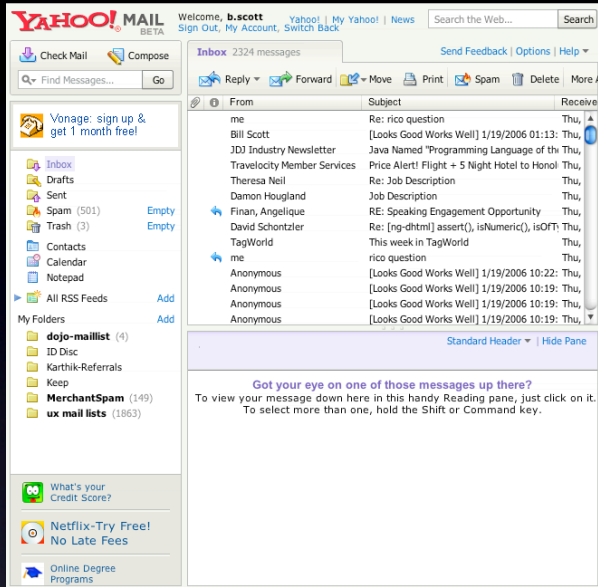


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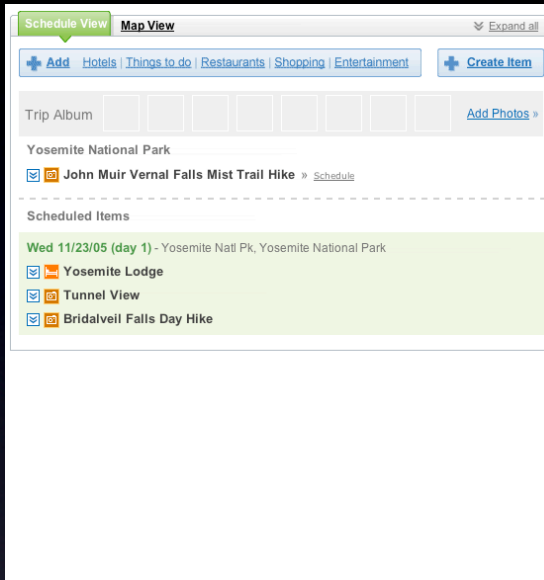


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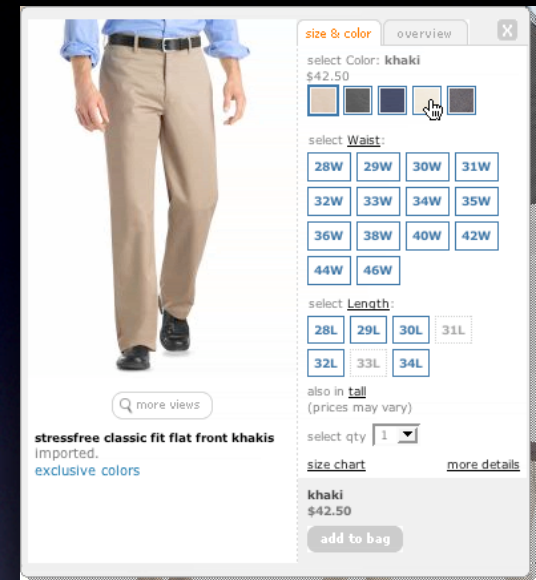
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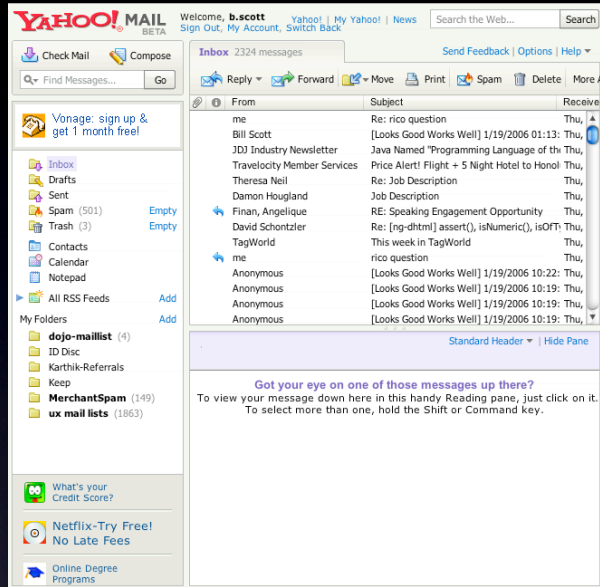
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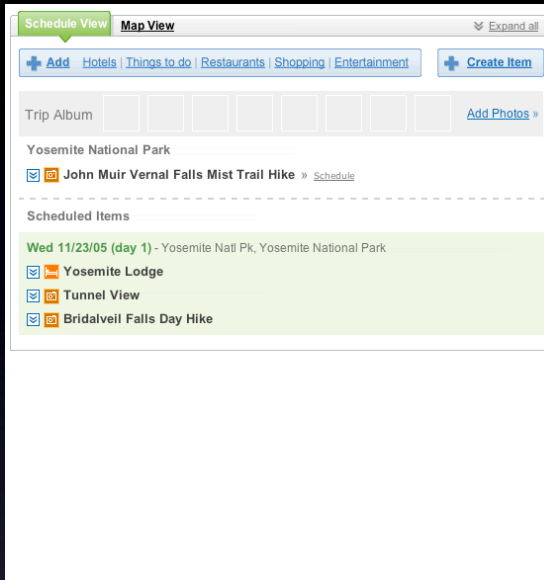


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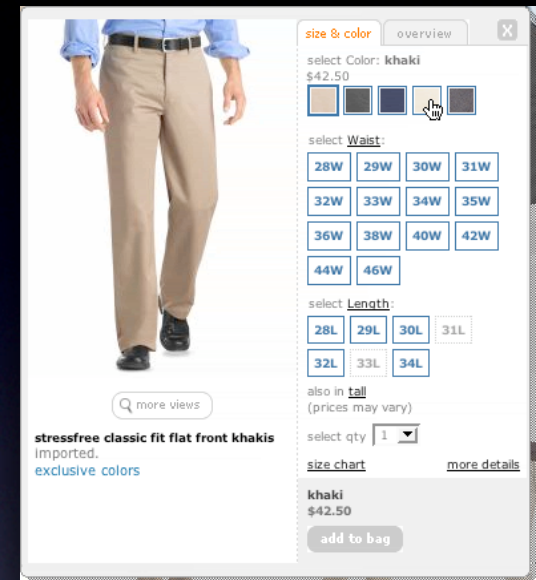
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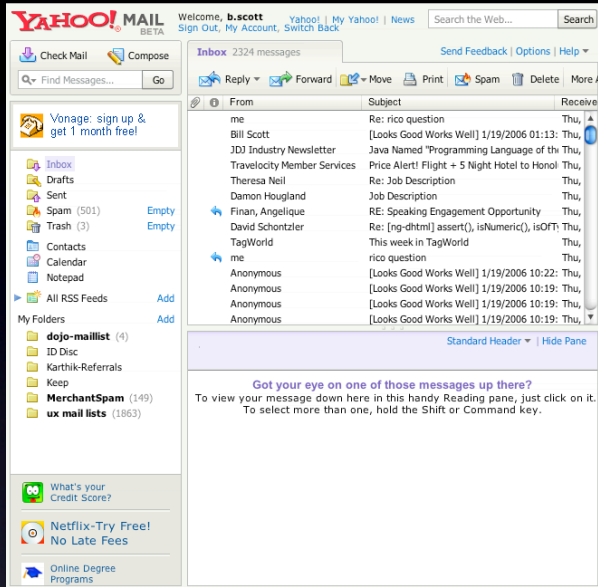


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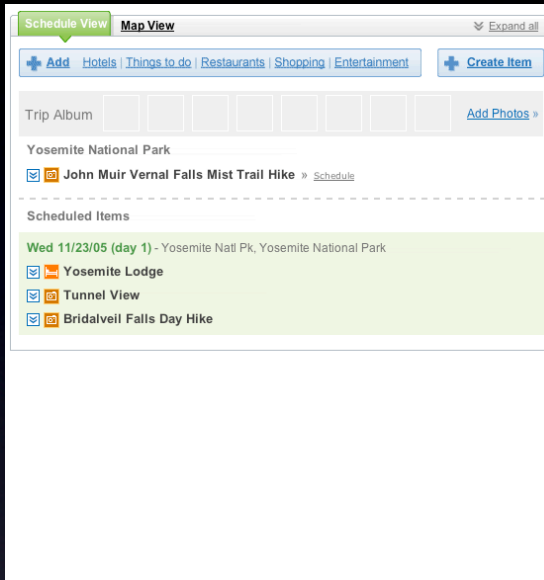


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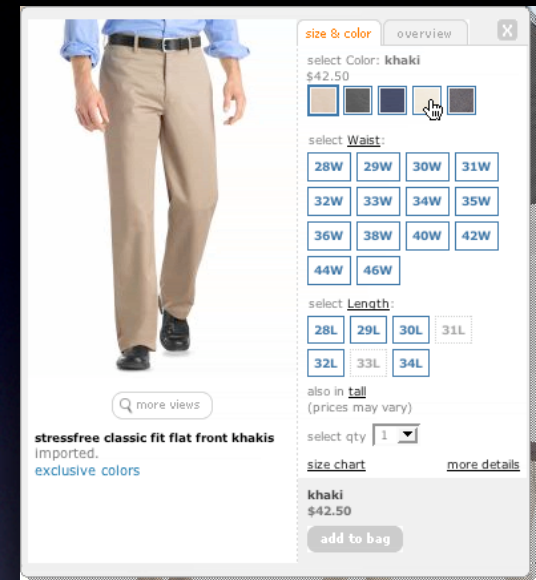
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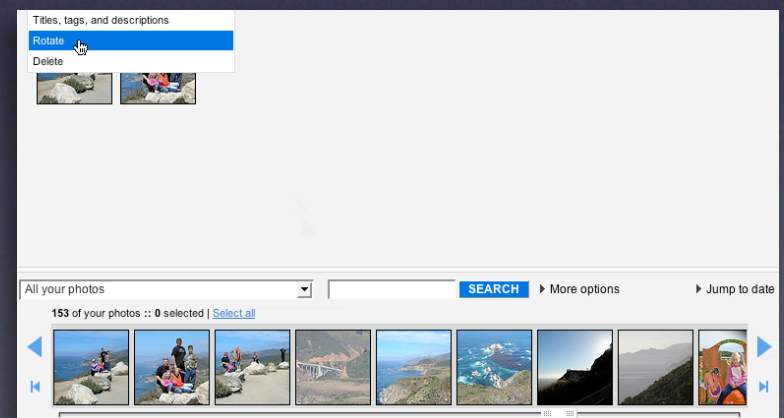
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
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MARKET SNAPSHOT

**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

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

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

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

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

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

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

Dow Jones Industrial Average

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By sector, semiconductors ([\\$SOX](#): 461.30, +2.31, +0.5%), networkers ([\\$NWX](#): 238.62, +2.00, +0.8%), biotech ([\\$BTK](#): 668.91, +8.66, +1.3%) and oil ([\\$OIL](#): 585.23, +6.52, +1.1%) and oil service ([\\$OSX](#): 185.03, +3.77, +2.1%) stocks put in solid gains.

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

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MARKET SNAPSHOT

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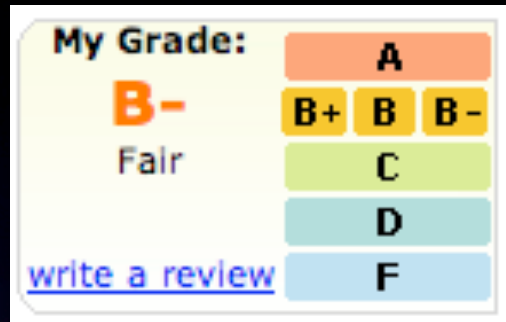


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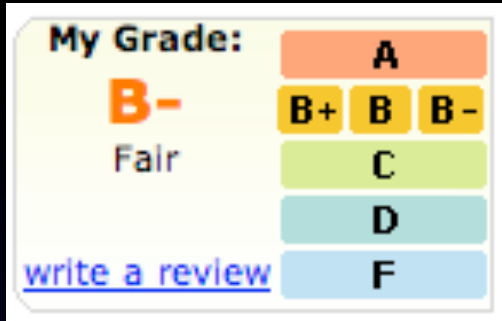
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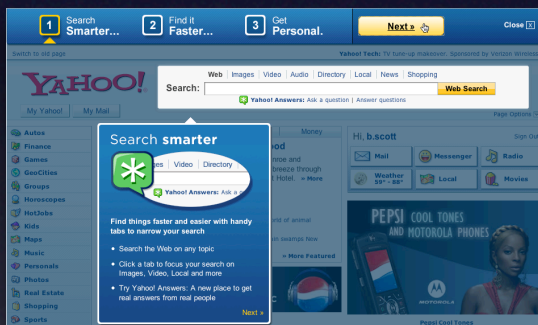


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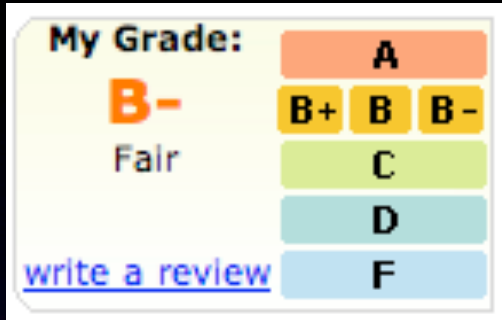
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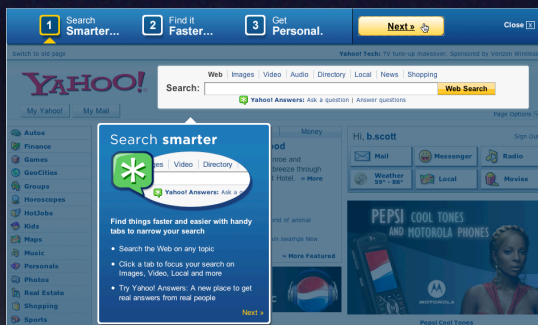


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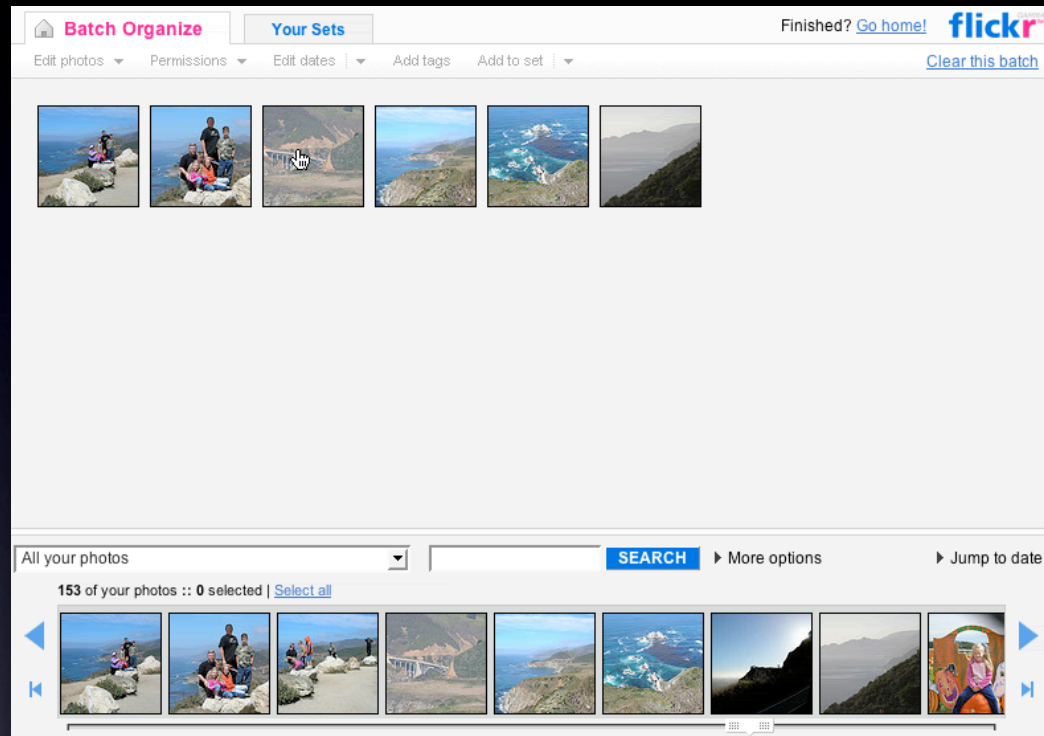
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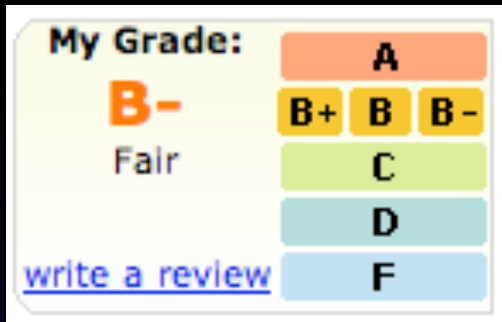


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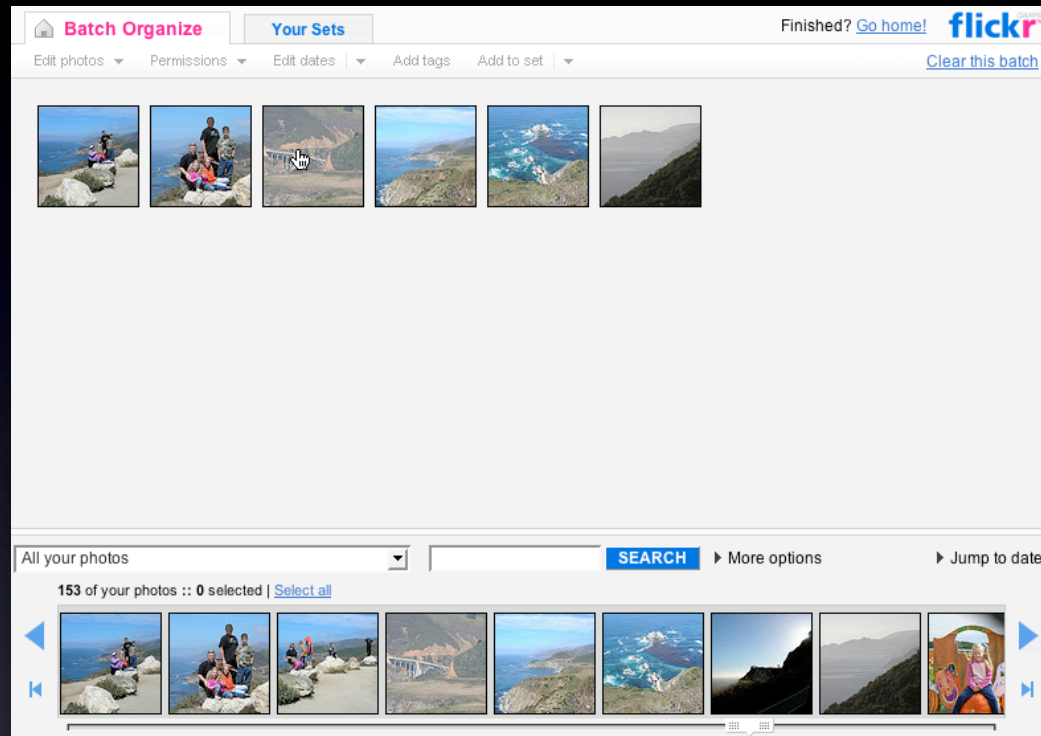


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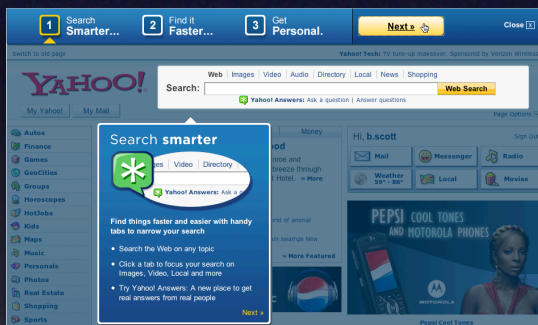
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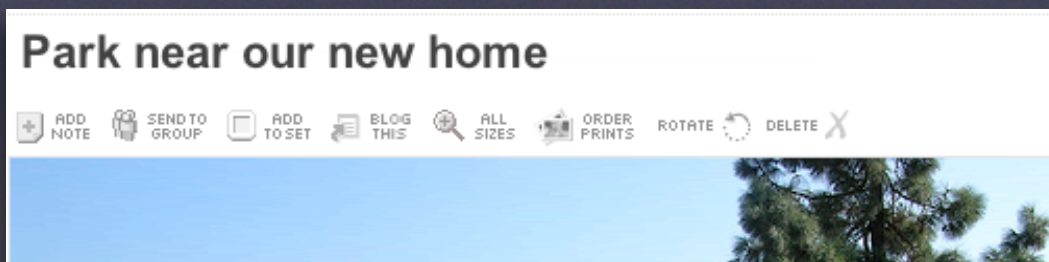
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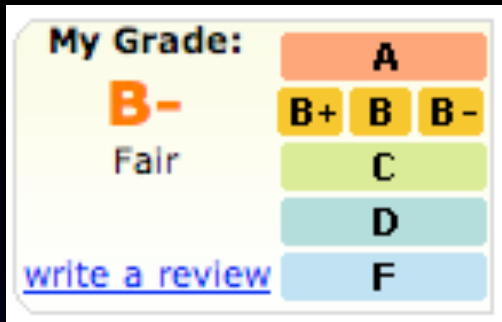
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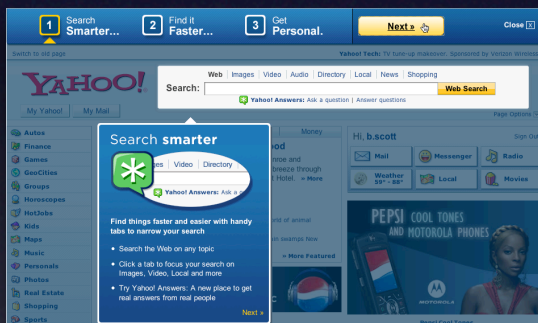


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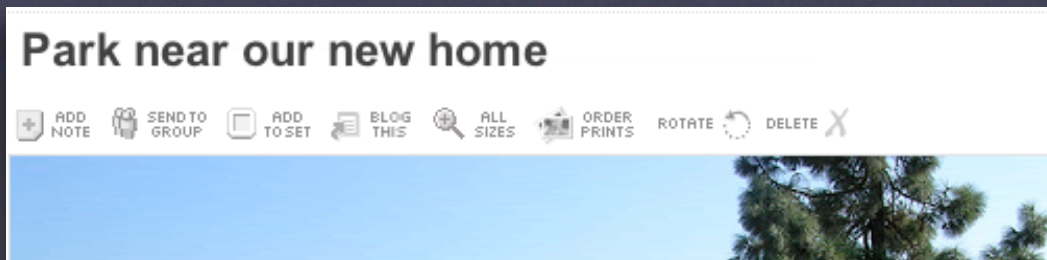
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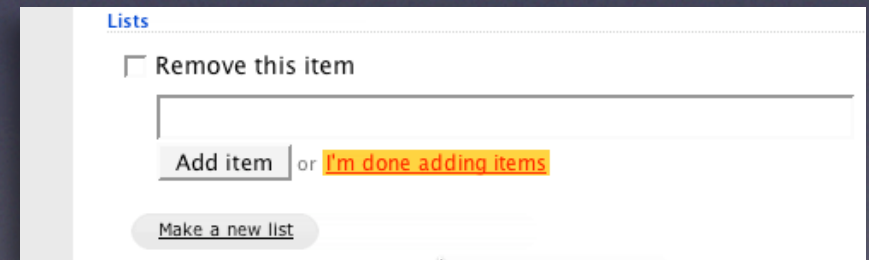
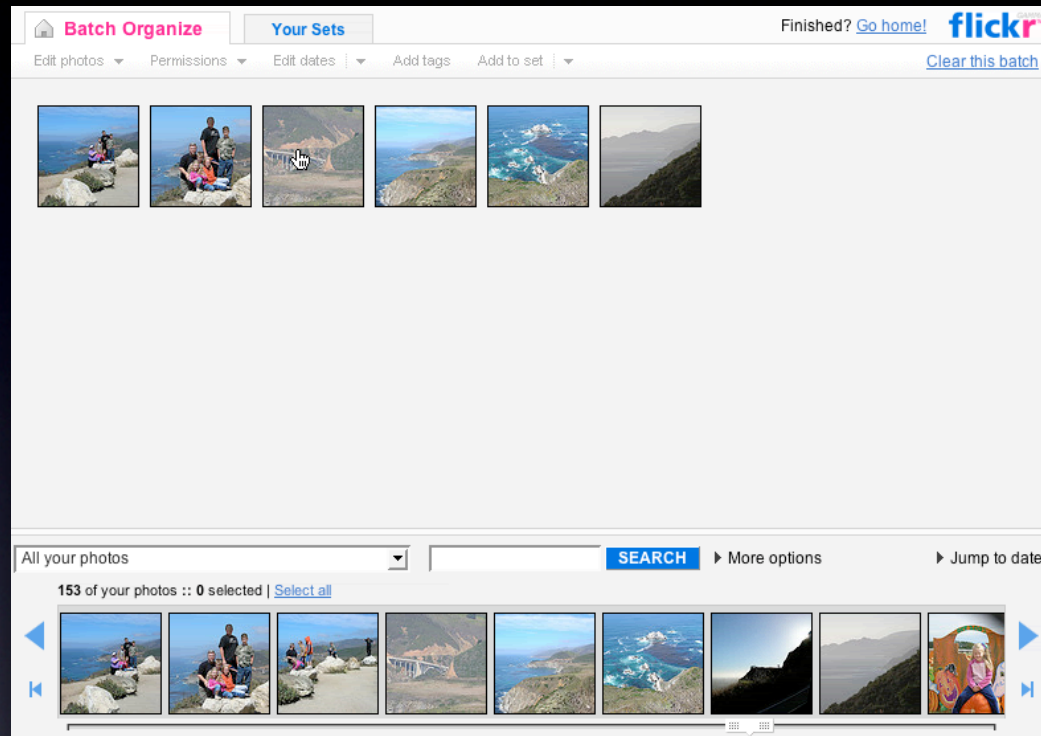
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pattern. drop invitation.

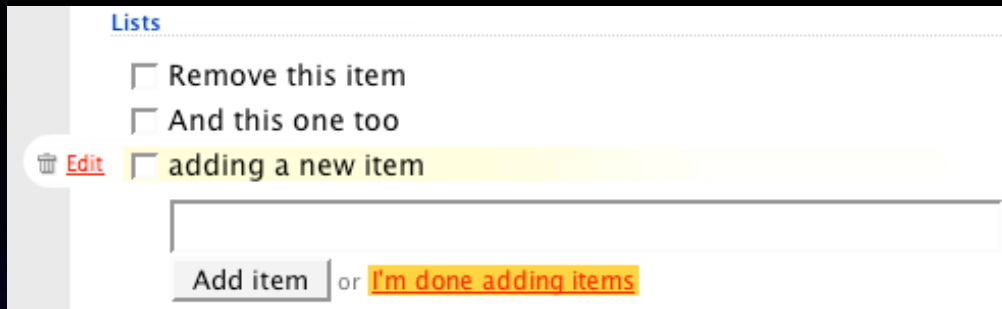


principle. show transitions.



# principle. show transitions.

pattern. fade transition + self-healing transition.



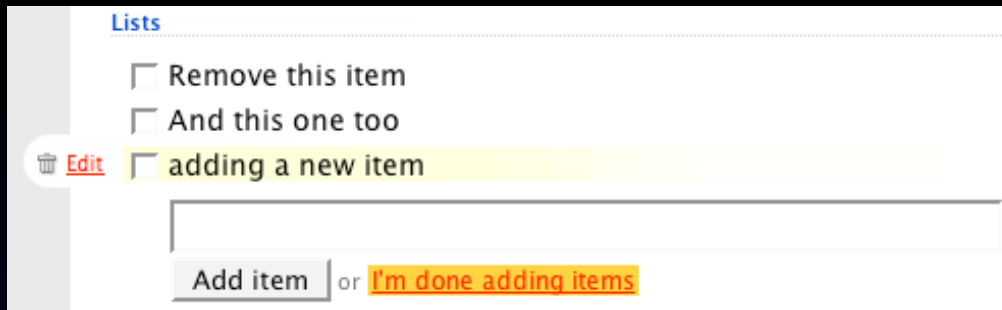
The screenshot shows a web form titled "Lists". It contains a list of three items, each with a checkbox:

- ☐ Remove this item
- ☐ And this one too
- ☐ adding a new item

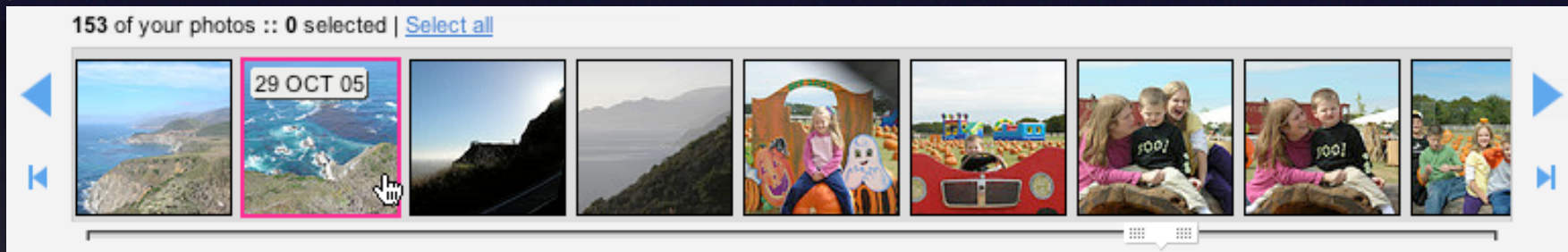
Below the list is a text input field. To the left of the input field is a button labeled "Add item". To the right of the input field is a button labeled "I'm done adding items".

# principle. show transitions.

pattern. fade transition + self-healing transition.



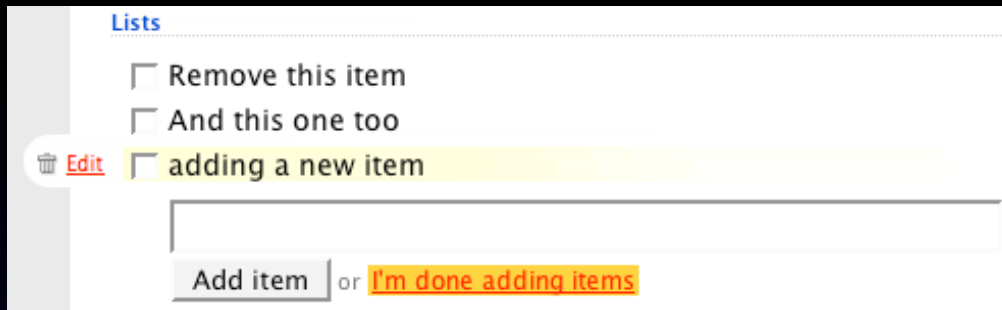
pattern. slide transition.



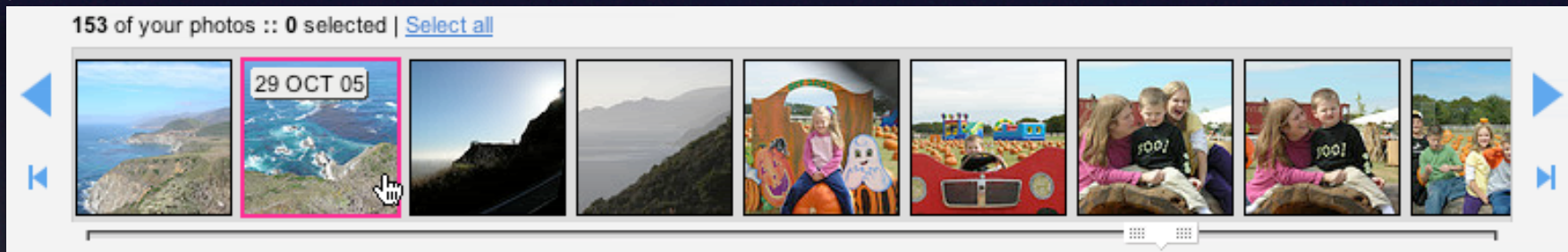


# principle. show transitions.

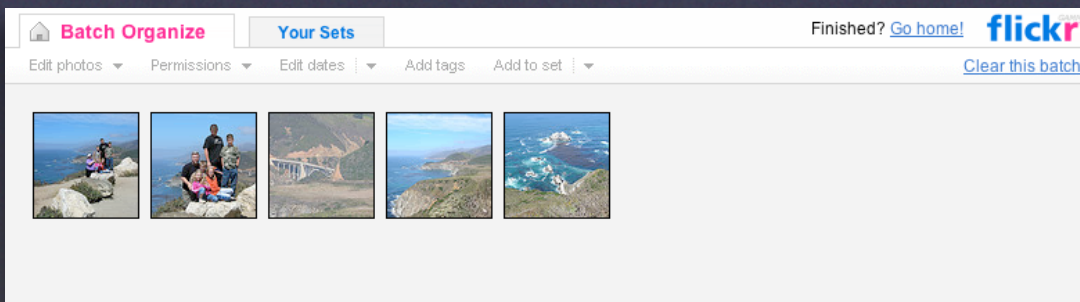
pattern. fade transition + self-healing transition.



pattern. slide transition.

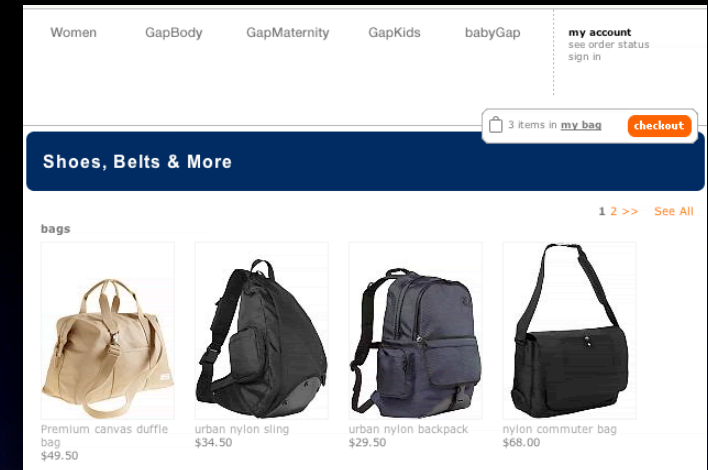
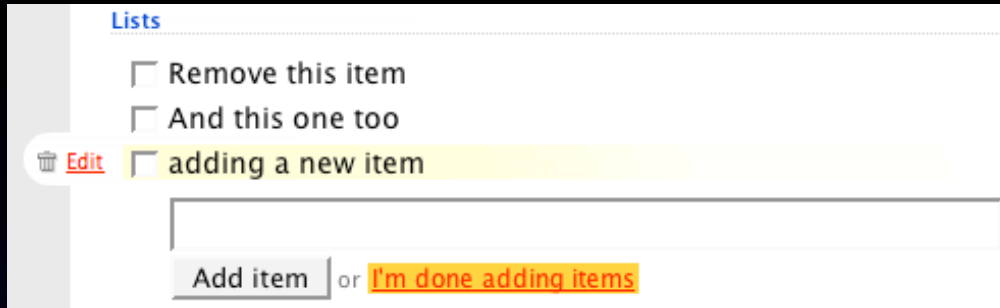


pattern. active spotlight.

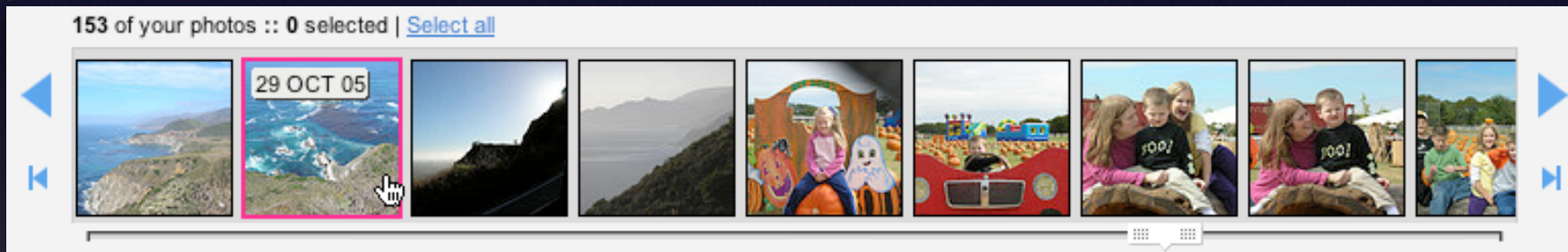


# principle. show transitions.

pattern. fade transition + self-healing transition.

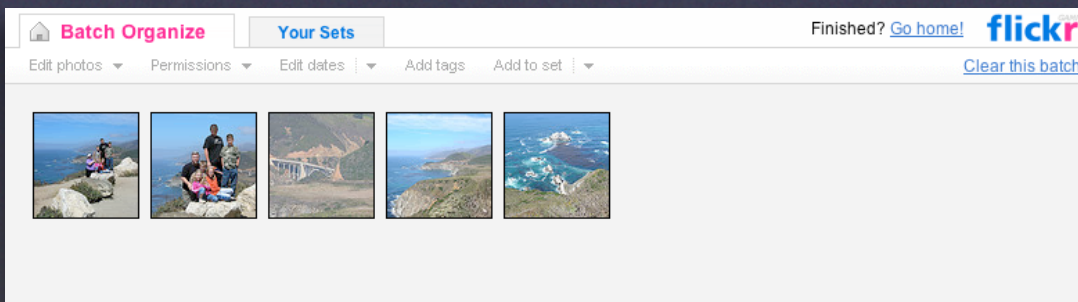


pattern. slide transition.



pattern. zoom box.

pattern. active spotlight.





principle. think in objects.

# principle. think in objects.



pattern. shareable object.



principle. tie information to interactivity.

# principle. tie information to interactivity.



pattern. multi-variate views.



# principle. tie information to interactivity.

## YAHOO! FINANCE

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

COMPARE TO:

- COMPETITORS
  - DELL INC (DELL)
  - HEWLETT PA... (HPQ)
  - MICROSOFT... (MSFT)
- INDEXES
  - DOW JONES (^DJI)
  - NASDAQ (^IXIC)
  - S&P 500 (^GSPC)
  - + MORE INDEXES
- RECENT
  - ADD SYMBOL(S)
  - 
  - [GO](#)

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

## Beta Farecast

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

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

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

**Fare History**  
87-Day Low: \$189 Avg Low: \$356  


**Refine Results** [\[ Reset \]](#)  
Showing 201 of 201 options

▼ Price Range  
\$559 \$1393 \$1393

▼ Stops  
☒ 0 \$1228  
☒ 1 \$559  
☐ 2+ -

▼ Airlines [Compare](#)  
☒ Alaska \$731  
☒ America West \$636  
☒ American \$675  
☒ Continental \$719  
☒ Delta \$1183  
☒ Frontier \$639

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

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pattern. multi-variate views.

# A look at the flip-side: Anti-Patterns

big ball of mud. **meandering way.**

**borg idiom. tiny targets.** mystery meat.

buried treasure. **hover and cover.**

**pogo stick navigation. novel notions.**

against the flow. **metaphor mismatch.**

**double duty. linkitus.** blind type.

**windows aplenty. animation gone wild.**

**misguided misdirections.** unmarked hazards.

**missed moments.** missing scene.

**one at a time. non-symmetrical actions.**



# How to make it easier to prototype?



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Protoscript is a simplified scripting language for creating Ajax style prototypes for the Web. With Protoscript it's easy to bring interface elements to life. Simply connect them to behaviors and events to create complex interactions.

Here's an example that fades & removes the image when the user clicks on it. (It's live, so go ahead and try it!)



```
$proto('img#avatar', {  
  Click: {},  
  onClick: {  
    Fade: {  
      opacity: {to: 0},  
      onComplete: {Close : {} } ,  
    }  
  }  
});
```

The protoscript above says: *for an image with id **avatar**, fade it out when the user clicks on it and hide it when the fade completes.*

Protoscript is for prototyping. It's simple syntax makes it easy to sprinkle behaviors onto any web page.

Easy to query for interface elements

Uses jQuery. Plug-in architecture allows different selector plugins.

Simple to express complex dependent behaviors

Just nest behaviors within behaviors or callbacks.

Add new behaviors & events with plug-in architecture

Uses YUI library. Can be extended to use other Ajax frameworks.

# anatomy of a drag/drop

```
'#scratchpad-list img': {
  DragDrop: {
    dropTarget: '#idcard-mini div.icon, h2:contains(My Portfolio)',
    onDragOver: {
      ReplaceStyle: {
        removeClass: 'not-dragged-over',
        addClass: 'dragged-over'
      }
    },
    onDragOut: {
      ReplaceStyle: {
        removeClass: 'dragged-over',
        addClass: 'not-dragged-over'
      }
    },
    onDragDrop: {
      InnerHtml: {
        copyFrom: '$drag',
        onTrigger: {
          Fade: {
            opacity: {from:0.0, to: 1.0},
            duration: 0.25
          }
        }
      },
      ReplaceStyle: {
        removeClass: 'dragged-over',
        addClass: 'not-dragged-over'
      }
    }
  }
},
```



# anatomy of a drag/drop

```
'#scratchpad-list img': {
  DragDrop: {
    dropTarget: '#idcard-mini div.icon, h2:contains(My Portfolio)',
    onDragOver: {
      ReplaceStyle: {
        removeClass: 'not-dragged-over',
        addClass: 'dragged-over'
      }
    },
    onDragOut: {
      ReplaceStyle: {
        removeClass: 'dragged-over',
        addClass: 'not-dragged-over'
      }
    },
    onDragDrop: {
      InnerHtml: {
        copyFrom: '$drag',
        onTrigger: {
          Fade: {
            opacity: {from:0.0, to: 1.0},
            duration: 0.25
          }
        }
      },
      ReplaceStyle: {
        removeClass: 'dragged-over',
        addClass: 'not-dragged-over'
      }
    }
  }
},
```

Reads like this:

*Make all images in scratchpad draggable.*

*On drag over, change style to reflect hover. On drag out, restore style.*

*On drop (on valid target) copy the drag item's HTML into the id photo area, then fade the dropped item from 0 to 100%*

# anatomy of a drag/drop

```
'#scratchpad-list img': {
  DragDrop: {
    dropTarget: '#idcard-mini div.icon, h2:contains(My Portfolio)',
    onDragOver: {
      ReplaceStyle: {
        removeClass: 'not-dragged-over',
        addClass: 'dragged-over'
      }
    },
    onDragOut: {
      ReplaceStyle: {
        removeClass: 'dragged-over',
        addClass: 'not-dragged-over'
      }
    },
    onDragDrop: {
```

Reads like this:

*Make all images in  
scratchpad draggable.*

*On drag over, change style  
to reflect hover. On drag*



**Bill Scott**  
Total Projects 12  
Total Points 24

**'#idcard-mini div.icon, h2:contains(My Portfolio)'**

**My Portfolio**  
Sort by: Recent | Alpha | Points  
▼ Project One [view](#) | [delete](#)  
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Proin tempor, lectus aliquet ornare suscipit, diam turpis suscipit velit, rhoncus feugiat purus metus gravida turpis. Nam nisl. Nulla et est in neque laoreet consequat. Quisque quis pede. Curabitur pretium. Etiam varius. Suspendisse tempus nisl eu lectus. Integer et velit. Quisque quis magna. Nunc pellentesque pharetra ligula. Morbi semper.  
▼ Project Two [view](#) | [delete](#)  
Quisque nunc. In ac urna egestas arcu egestas imperdiet. Donec id erat id nulla molestie venenatis. Nam a

**'#scratchpad-list img'**

**Scratchpad**

```
},
```



# Behaviors ~ Patterns

Resize. Animate. Spotlight. Fade. Move.  
ToggleStyle. Style. ReplaceStyle. Show. Hide.  
ToggleShowHide. Eval. Open. Close.  
ToggleOpenClose. InnerHtml. AjaxInnerHtml.  
Popup. DragDrop. Click. Dblclick. Blur. Focus.  
Mouseover. Mousemove. Mouseout.  
Keydown. Keyup.