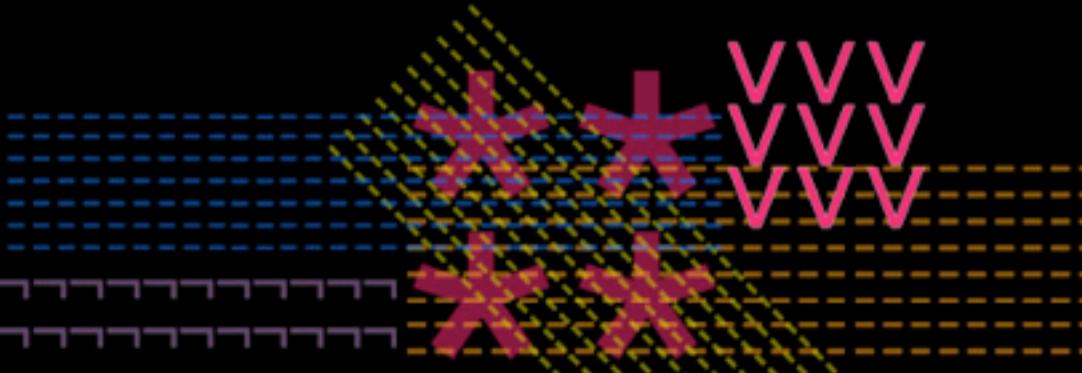


Microsoft



THE  
NEXT  
WEB  
NOW



<3//  
YOUR  
WEB//++

# Interactive Prototyping with DHTML

tips, techniques, tools, libraries and frameworks for rapid prototyping

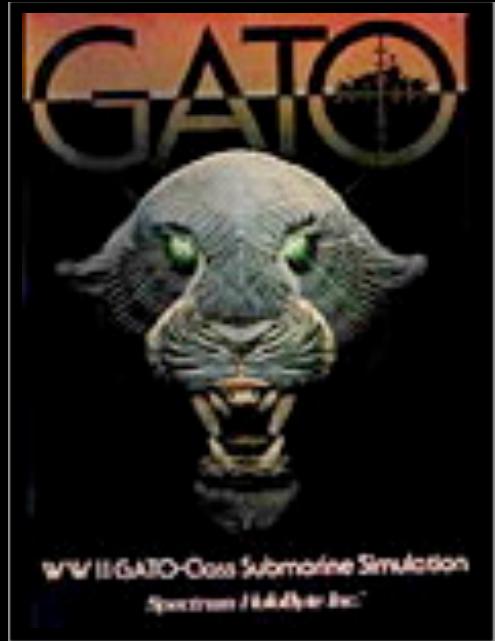
Mix 09

Bill Scott

Mar. 19th, 2009



# My Background



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**  
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.

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

**Rating an Object**  
A user wants to share her opinion with others about an object (place, person, thing) in greater detail than a simple rating.

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

**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, behavioral objects 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 community.

**DRAg AND DRoP**  
Desktop applications have long used drag and drop in their interfaces to simplify user interaction. Rico provides an interface 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**  
Web pages are no longer occurring just at the page level, but within the page itself, more clues are required to tell 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 Lazarus. Just have some DIVs, add one or two behaviors to your div elements into an accordion. And the next 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!

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.

Current Conditions: San Jose, California  
77°F

See Rico in Action!

NETFLIX

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

Browse DVDs Watch Instantly Your Queue Movies You'll Love Friends & Community DVD Sale \$39.99

Home Genres New Releases Previews Netflix Top 100 Critic's Picks Award Winners

Movies, actors, directors, genres Search

Because you enjoyed:

ERON: The Smartest Guys in the Room  
Who Killed the Electric Car?  
Iraq for Sale: The War Profiteers

We think you'll enjoy:  
Global Warming: The Signs and the Science

OPUS HOME VIDEO  
GLOBAL WARMING: THE SIGNS AND THE SCIENCE

Play Add

Your RECENT ACTIVITY

10/19 You watched Superbad  
10/18 You watched I Remember Me  
10/18 You watched The Office: Season 2 - Performance Review  
10/18 You watched 21 Up  
10/17 You watched The Whipping Boy

SUGGESTIONS FOR YOU

You have new suggestions in Movies You'll Love

TV Sci-Fi & Fantasy

Based on your interest in:  
Jenicho: Season 2  
Battstar Galactica: Season 1  
Heroes: Season 3

Set this genre TV Sci-Fi & Fantasy

Eleventh Hour  
Add All ★★★★☆ Not Interested

StarGate: Atlantis: Season 1  
Add All ★★★★☆ Not Interested

New: Season 1  
The 4400: Season 1  
Add All ★★★★☆ Not Interested

TV Dramas

Based on your interest in:  
Jenicho: Season 2  
Battstar Galactica: Season 1  
Heroes: Season 3

Set this genre TV Dramas

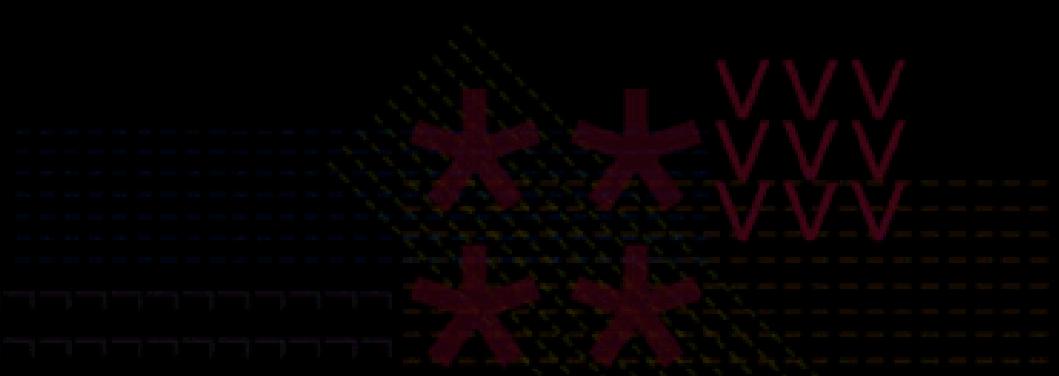
House  
Add All ★★★★☆ Not Interested

Desperate Housewives: Season 1  
Add All ★★★★☆ Not Interested

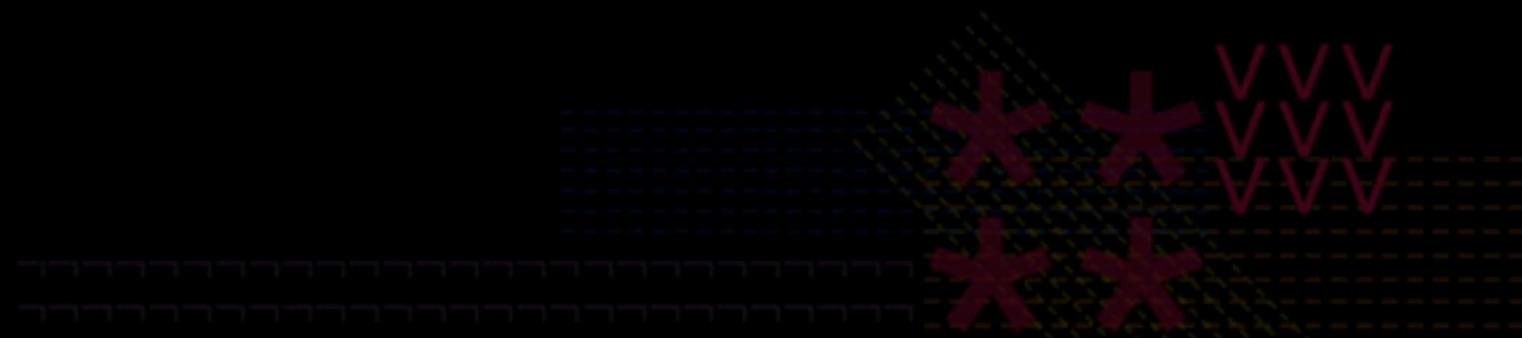
The Closer: Season 1  
The Wire: Season 2  
Add All ★★★★☆ Not Interested

# the challenge

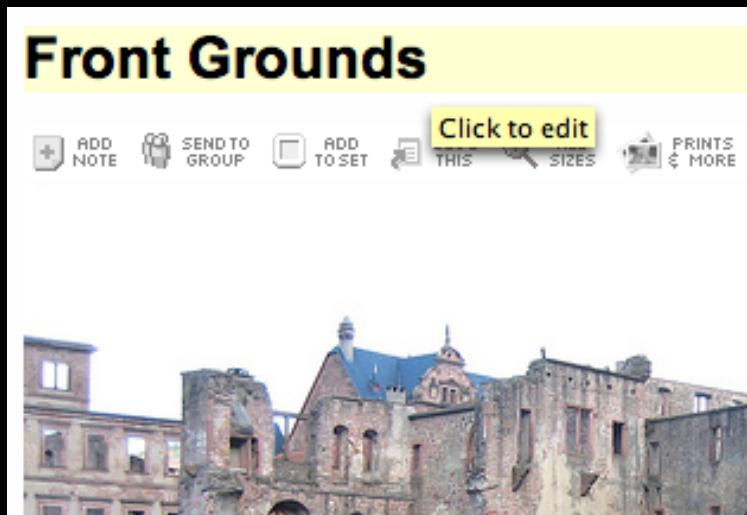
interaction is dynamic



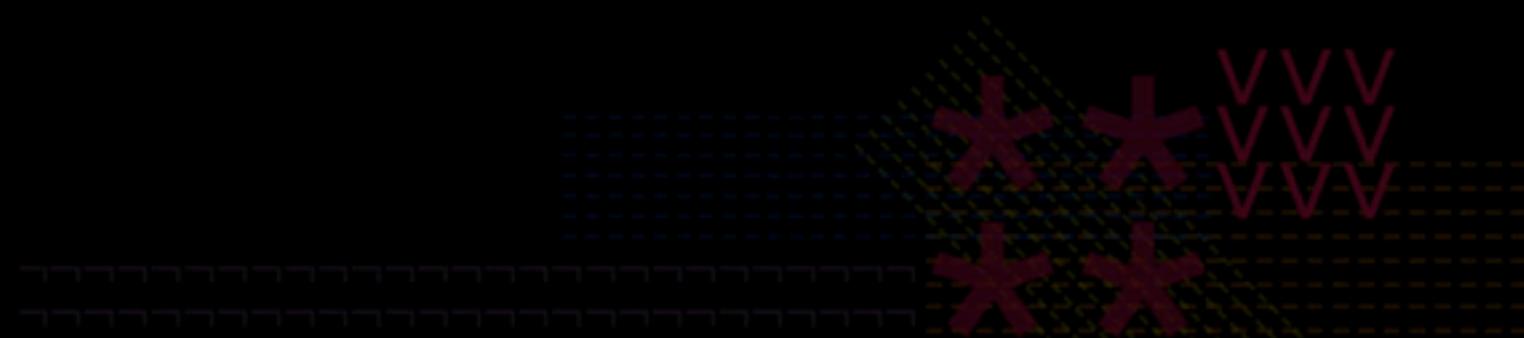
# Interaction is Nuanced



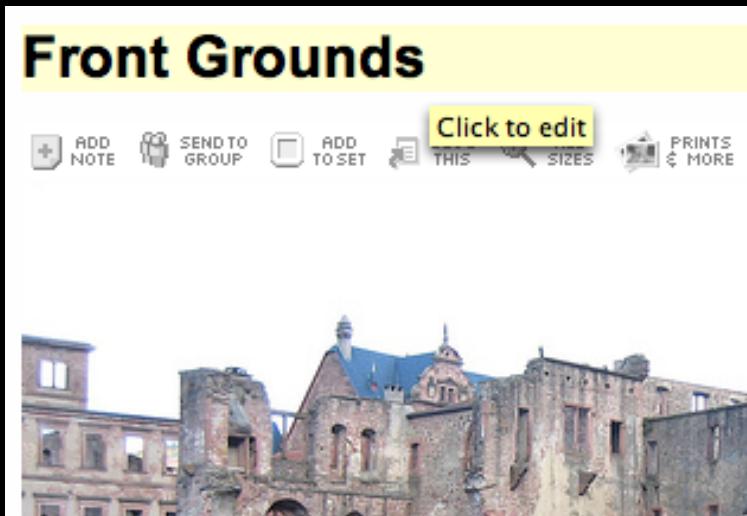
# Interaction is Nuanced



flickr. inline edit



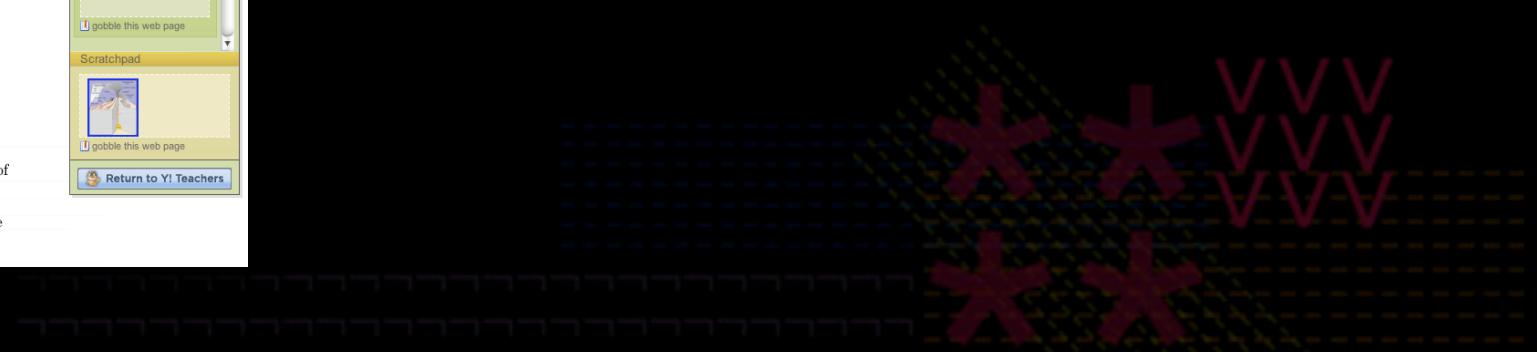
# Interaction is Nuanced



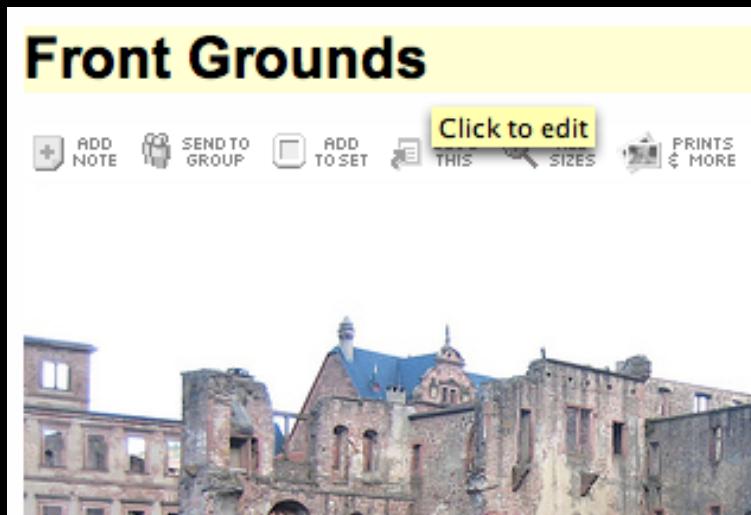
flickr. inline edit

A screenshot of the USGS Hawaiian Volcano Observatory website. It features a large image of lava flowing into the ocean. The page includes navigation links for Kilaua, Mauna Loa, Earthquakes, Other Volcanoes, Volcanic Hazards, Types, Lava Zones, and About HVO. A sidebar on the right shows a "YAHOO! GOBBLER" interface with various projects and snippets of text.

y! teachers. drag & drop



# Interaction is Nuanced



flickr. inline edit

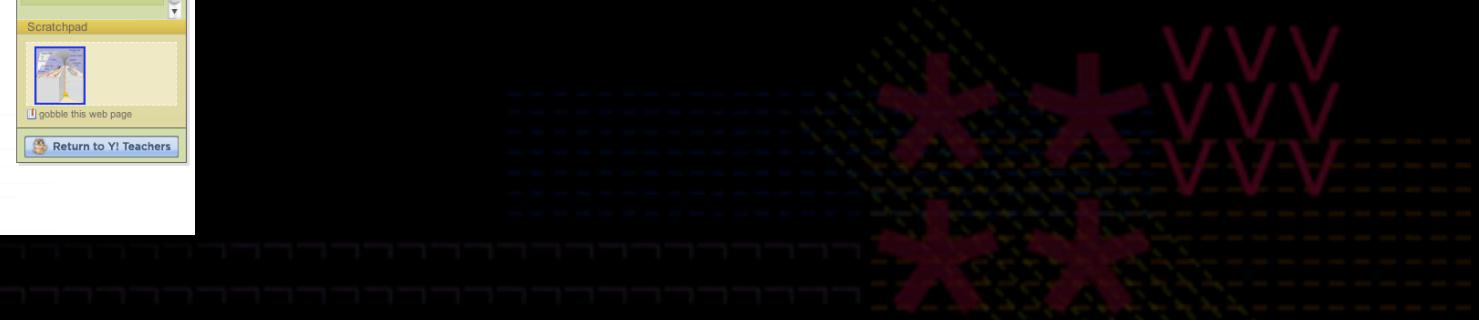
A screenshot of a shopping list interface. It has a header "Pick Up at the Store" and a list of items with checkboxes:

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

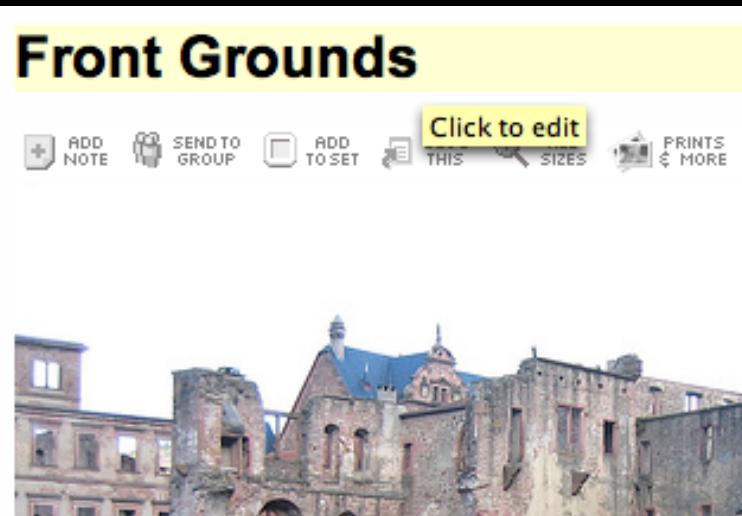
backpackit. contextual tools

A screenshot of the USGS Hawaiian Volcano Observatory website. The header includes the USGS logo and "science for a changing world". The main content features a photograph of a volcano erupting and lava flowing into the ocean. The text "When Lava Enters the Sea: Growth &amp; Collapse of Lava Deltas" is displayed. On the left, a sidebar lists various volcanic hazards and types. At the bottom, a caption reads: "Photograph by C. Heliker on November 12, 1992. Only four days old, this fan-shaped lava delta (center of image) extends about 200 m into the ocean on the southeast coast of Kilauea Volcano, Hawai'i. The diffuse plume of white steam at the leading edge of the delta indicates that several small lava flows are pouring into the ocean. Countless deltas have formed".

y! teachers. drag & drop



# Interaction is Nuanced



A screenshot of a mobile application interface titled "backpackit. contextual tools". It displays a list of items with checkboxes: Milk, Orange Juice, Tomatoes, Lettuce, Bread, and Chips. The background features a dark grid pattern.

backpackit. contextual tools

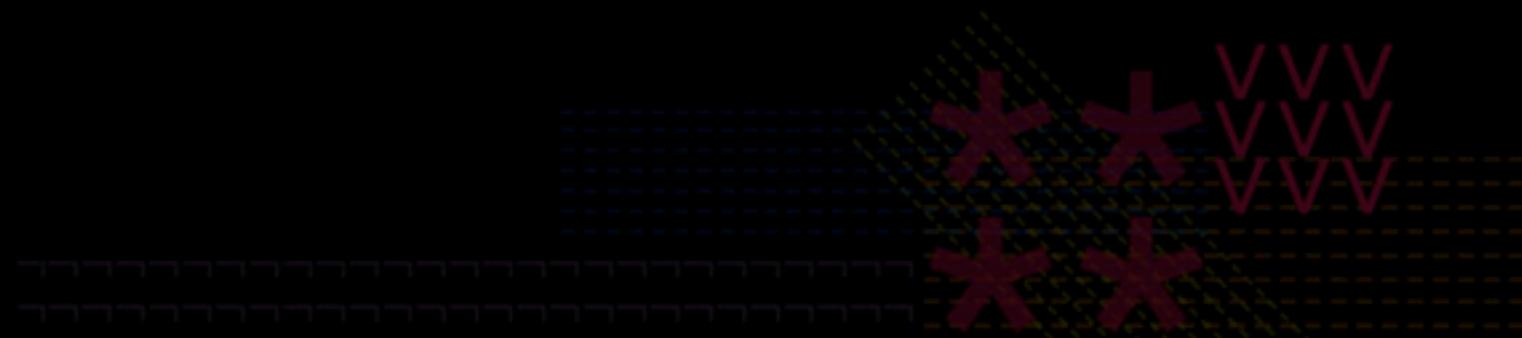
A screenshot of a Gap product page for a "Pique polo". The page includes a "my bag" button with "0 items" and a "checkout" button. The product description states: "Soft cotton pique knit. Short-sleeved, button neckline." It also mentions "Need large quantities? Click for Corporate Apparel" and "100% Cotton. Machine wash. imported." Below the description, there are color swatches for "regular" and "tall" sizes, with "royal grape" selected. The price is \$29.50, with a "Buy 2 or more, \$25.00 each" offer. A "Buy More and Save" section shows a price of \$9.99 for a single item. The size chart includes options from XS to XXXL. The quantity is set to 1, and the total price is \$29.50 / \$9.99. An "add to bag" button is at the bottom.

the gap. inline assistant

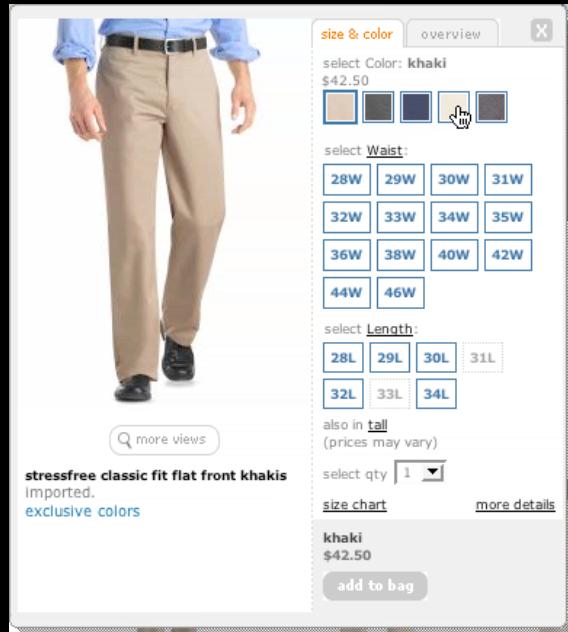
A screenshot of the USGS Hawaiian Volcano Observatory website. The main content shows a photograph of a lava delta entering the ocean. To the left, there is a sidebar with links to Kilaua, Mauna Loa, Earthquakes, Other Volcanoes, Volcanic Hazards, Types - Lava Zones, and About HVO. The main content area has a heading "When Lava Enters the Sea: Growth & Collapse of Lava Deltas" and a caption about a photograph by C. Heliker on November 12, 1992. To the right, there is a sidebar titled "YAHOO! GOBBLER" showing projects like "Geography: Land..." and "Birds' Nests".

y! teachers. drag & drop

# Interaction is Nuanced



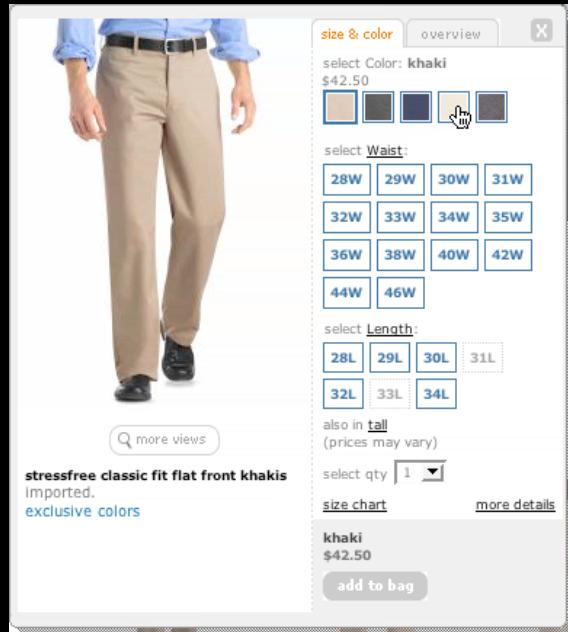
# Interaction is Nuanced



the gap. inline assistant



# Interaction is Nuanced



the gap. inline assistant

Live Search

Home Hotmail Spaces OneCare Sign in

flowers

Search Images Web Options · SafeSearch Moderate

Image results 1-10 of 23,400,000

See also: Web, Video, News, Maps, MSN, More ▾

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microsoft live. paged scrolling



# Interaction is Nuanced

The Gap's inline assistant for stressfree classic fit flat front khakis. It shows a model wearing the pants, a color swatch for khaki, size charts for waist (28W-46W) and length (28L-46L), and a price of \$42.50. Buttons for 'add to bag' and 'more views' are present.

stressfree classic fit flat front khakis  
imported.  
exclusive colors

size & color overview X

select Color: khaki \$42.50

select Waist: 28W 29W 30W 31W 32W 33W 34W 35W 36W 38W 40W 42W 44W 46W

select Length: 28L 29L 30L 31L 32L 33L 34L

also in tall (prices may vary)

select qty 1

size chart more details

khaki \$42.50

add to bag

the gap. inline assistant

Broadmoor hotel. one page checkout

Click buttons below to select check-in date, check-out date, rooms, adults and children.

Choose a room below and availability will be displayed on the calendar.

Total (all room nights)

Superior South Superior Main Intermediate Main Intermediate West Standard Suite

July 2008 - August 2008

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	1
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

Check-in: Check-out: Room Type: Nights: 0 Rooms: 1 Adults: 1 Children: 0

Amount: Taxes: Total:

\*First Name \*Last Name

\*Address

\*City \*State/Province

\*Country \*Postal Code

\*Email

\*Phone Fax

VISA MASTERCARD DISCOVER AMERICAN EXPRESS

Cardholder Expiration (MM/YY)

Card Number Arrival Information

Comments/Requests

\* Fields with an asterisk are required

Include me in future email campaigns

\*\*Finish Reservation\*\*

microsoft live. paged scrolling

Live Search Home Hotmail Spaces OneCare Sign in

flowers Search Images Web Options · SafeSearch Moderate

All image sizes ▾ Scratchpad

Image results 1-10 of 23,400,000

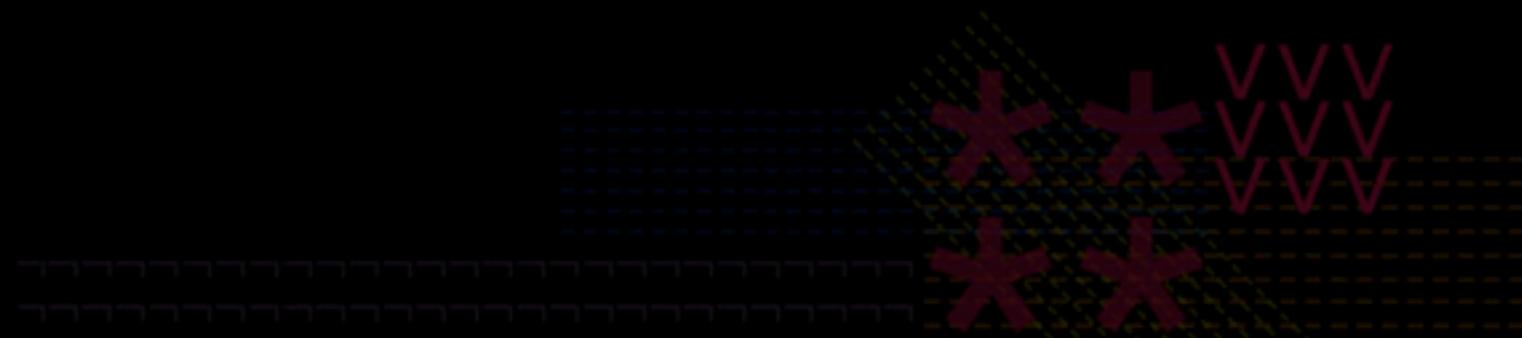
See also: Web, Video, News, Maps, MSN, More ▾

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# Devil is in the Details



# Devil is in the Details



National Mapping - F...  
<http://www.ga.gov.au...>



National Mapping - F...  
<http://www.ga.gov.au...>



National Mapping - F...  
<http://www.ga.gov.au...>



National Mapping - F...  
<http://www.ga.gov.au...>



Volcano World - The ...  
<http://volcano.und.e...>



Hawai'i Volcanoes...  
<http://www.nps.gov/a...>



National Mapping - F...  
<http://www.ga.gov.au...>



Copy of Plateau - Wi...  
<http://en.wikipedia....>



Copy of Gobble Image...  
<http://beta.teachers...>



Copy of Gobble Image...  
<http://beta.teachers...>



Copy of Gobble Image...  
<http://beta.teachers...>



Copy of Alaska Volca...  
<http://www.avo.alask...>



National Mapping - F...  
<http://www.ga.gov.au...>

y! teachers. anti-pattern. hover & cover



# Devil is in the Details



National Mapping - F...  
<http://www.ga.gov.au...>



National Mapping - F...  
<http://www.ga.gov.au...>



National Mapping - F...  
<http://www.ga.gov.au...>



National Mapping - F...  
<http://www.ga.gov.au...>



Volcano World - The ...  
<http://volcano.und.e...>



Hawai'i Volcanoes...  
<http://www.nps.gov/a...>



National Mapping - F...  
<http://www.ga.gov.au...>



Copy of Plateau - Wi...  
<http://en.wikipedia....>



Copy of Gobble Image...  
<http://beta.teachers...>



Copy of Gobble Image...  
<http://beta.teachers...>



Copy of Gobble Image...  
<http://beta.teachers...>

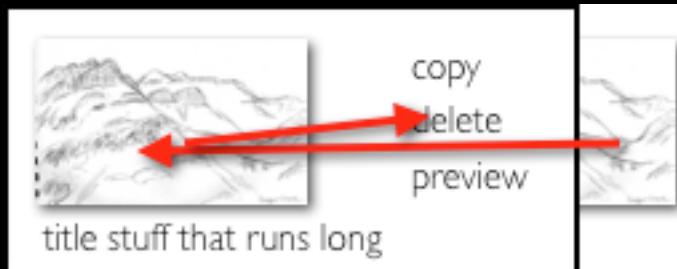


Copy of Alaska Volca...  
<http://www.avo.alask...>

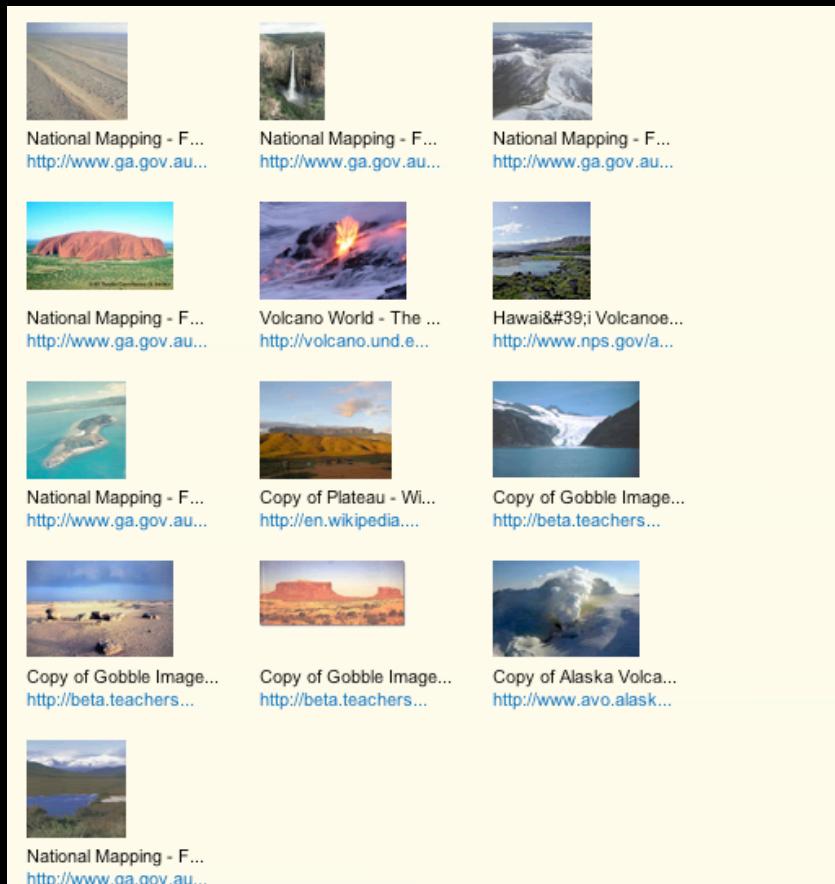


National Mapping - F...  
<http://www.ga.gov.au...>

y! teachers. anti-pattern. hover & cover



# Devil is in the Details



A screenshot of a web interface showing a list of 21 websites. Each entry includes a thumbnail, the website's name, and its URL. Below the list are three buttons: 'Copy', 'Delete' (with a hand cursor icon), and 'Preview Image'. A dotted line separates this section from the 'Web sites (21)' section below.

Web sites (21)

- How Volcanoes Work  
<http://www.geology.s...>
- Operation Montserrat...  
<http://emissionhq.co...>
- Howstuffworks &quot;...  
<http://www.howstuffw...>
- SPACE.com --  
<http://www.space.com...>
- Volcanoes: Principa...  
<http://www.volcano...>
- Vic Camp - Volcano T...  
<http://www.viccamp...>

y! teachers. anti-pattern. hover & cover



y! teachers. anti-pattern. hover & cover - resolved

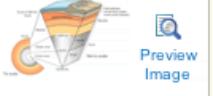
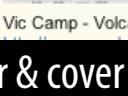


# Devil is in the Details

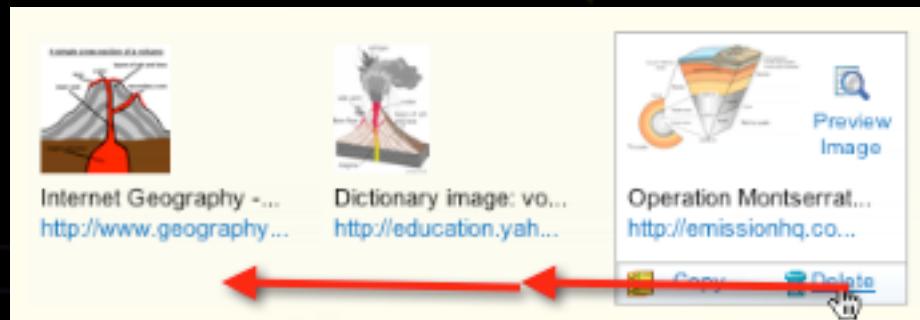
		
National Mapping - F... <a href="http://www.ga.gov.au...">http://www.ga.gov.au...</a>	National Mapping - F... <a href="http://www.ga.gov.au...">http://www.ga.gov.au...</a>	National Mapping - F... <a href="http://www.ga.gov.au...">http://www.ga.gov.au...</a>
		
National Mapping - F... <a href="http://www.ga.gov.au...">http://www.ga.gov.au...</a>	Volcano World - The ... <a href="http://volcano.und.e...">http://volcano.und.e...</a>	Hawai'i Volcanoes... <a href="http://www.nps.gov/a...">http://www.nps.gov/a...</a>
		
National Mapping - F... <a href="http://www.ga.gov.au...">http://www.ga.gov.au...</a>	Copy of Plateau - Wi... <a href="http://en.wikipedia....">http://en.wikipedia....</a>	Copy of Gobble Image... <a href="http://beta.teachers...">http://beta.teachers...</a>
		
Copy of Gobble Image... <a href="http://beta.teachers...">http://beta.teachers...</a>	Copy of Gobble Image... <a href="http://beta.teachers...">http://beta.teachers...</a>	Copy of Alaska Volca... <a href="http://www.avo.alask...">http://www.avo.alask...</a>
		
National Mapping - F... <a href="http://www.ga.gov.au...">http://www.ga.gov.au...</a>		

y! teachers. anti-pattern. hover & cover

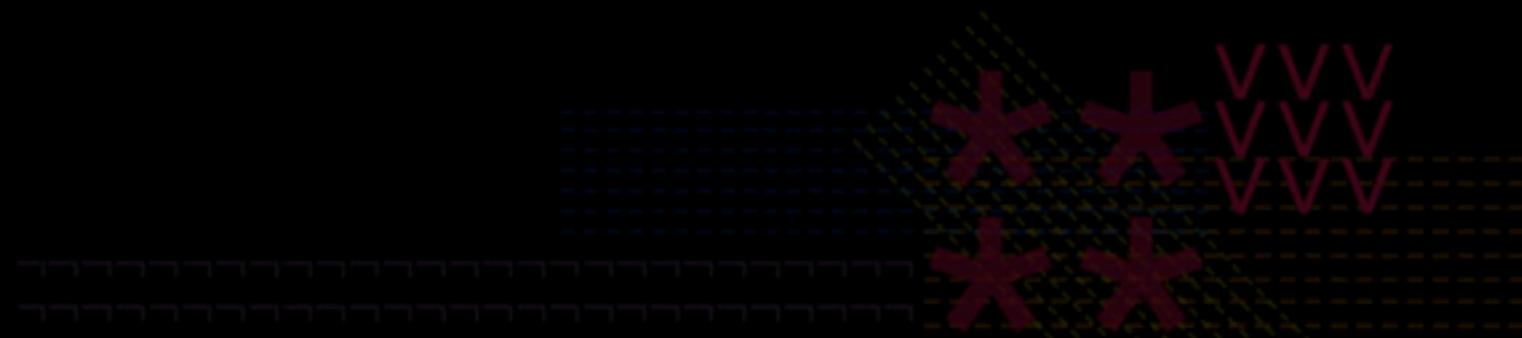


		
Three-dimensional Ca... <a href="http://volcano.und.n...">http://volcano.und.n...</a>	Three-dimensional Ca... <a href="http://volcano.und.n...">http://volcano.und.n...</a>	Howstuffworks "Volcano Diagrams" <a href="http://www.howstuffw...">http://www.howstuffw...</a>
		
Internet Geography - ... <a href="http://www.geography...">http://www.geography...</a>	Dictionary image: vo... <a href="http://education.yah...">http://education.yah...</a>	Operation Montserrat... <a href="http://emissionhq.co...">http://emissionhq.co...</a>
<hr/>		
Web sites (21)		
		
How Volcanoes Work <a href="http://www.geology.s...">http://www.geology.s...</a>	Operation Montserrat... <a href="http://emissionhq.co...">http://emissionhq.co...</a>	Howstuffworks "Volcano Diagrams" <a href="http://www.howstuffw...">http://www.howstuffw...</a>
		
SPACE.com -- <a href="#">Volcano Diagrams</a>	Volcanoes: Principal... <a href="#">Volcanoes</a>	Vic Camp - Volcano T... <a href="#">Volcano</a>

y! teachers. anti-pattern. hover & cover - resolved



# Devil is in the Details



# Devil is in the Details

**YAHOO! PHOTOS** Welcome, b.scott  
[Sign Out, My Account] All My Photos

Home Prints & Gifts View Cart Settings Help Search My Tag

**Upload Photos**

All My Photos My Albums Paris06 My Tags My Friends' Photos

Sort by: Date ▾

Sunset Underneath View from the Top

Eiffel Pulley From Second Floor Up Eiffel Tower

Friendly advice for photo sharing.

y! photos. anti-pattern. idiot boxes



# Devil is in the Details

**YAHOO! PHOTOS** Welcome, b.scott [Sign Out, My Account] All My Photos

Home Prints & Gifts View Cart Settings Help Search My Tag

Upload Photos

All My Photos Slideshow Create Share Drag photos

Sort by: Date

Sunset Eiffel Pulley

Friendly advice for photo sharing.

From S...

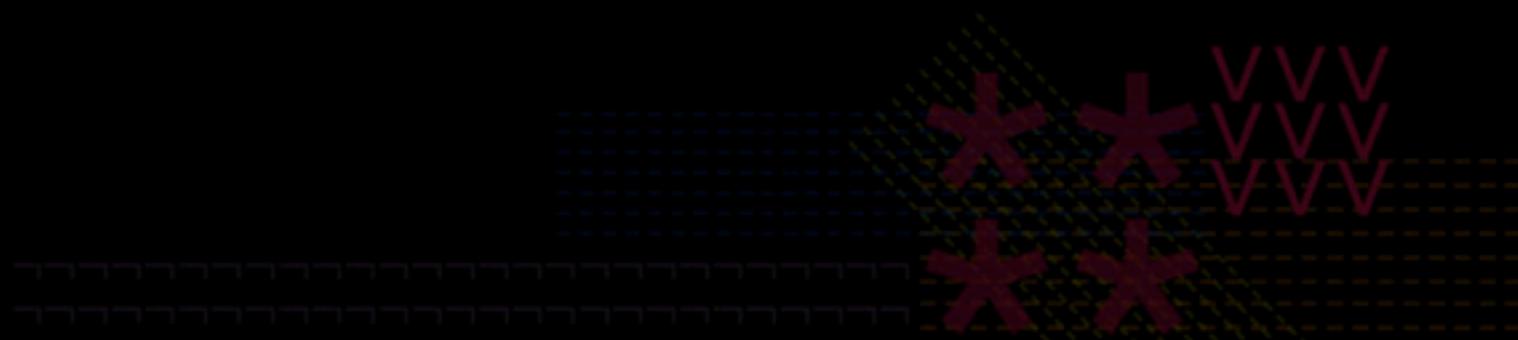
© 2005 Yahoo! Inc. © 2005 NAVTEQ

y! photos. anti-pattern. idiot boxes

y! maps. anti-pattern. mouse trap

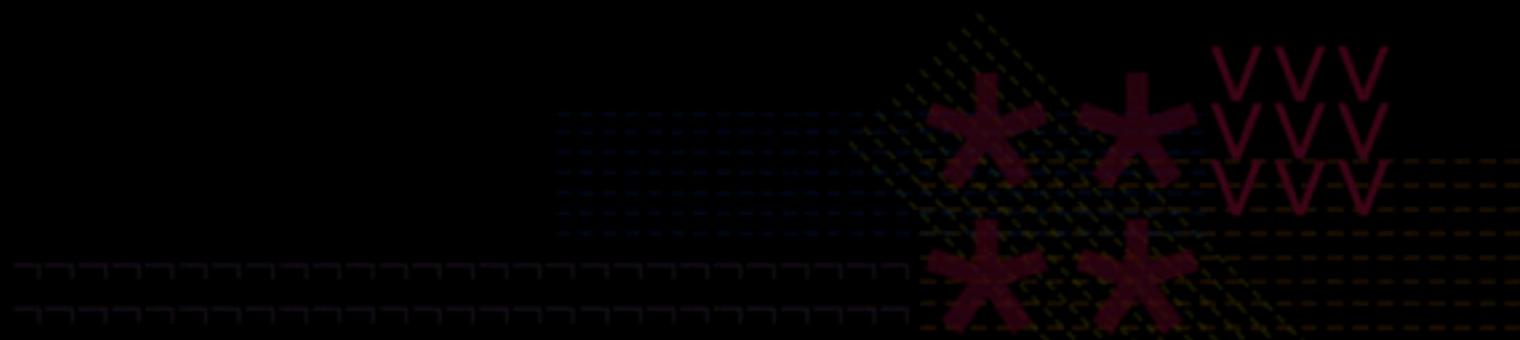
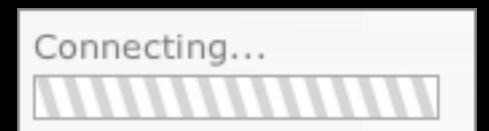
# Timing Concerns

timing is important  
makes actions seem faster  
slows down interaction for understanding  
reveals state change  
shows relationships between objects  
focuses attention



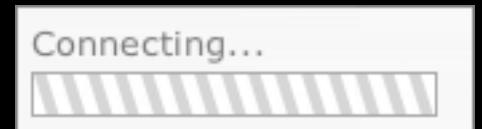
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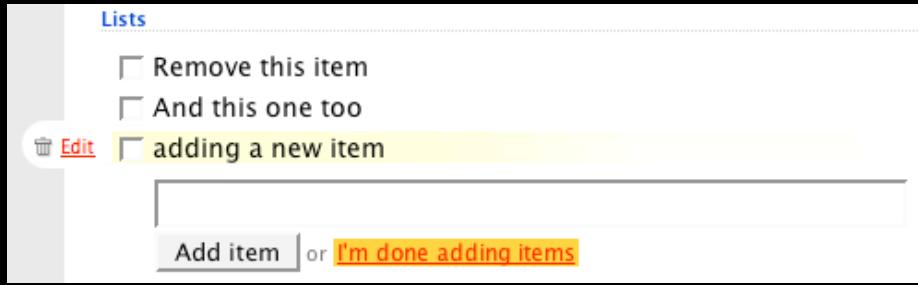
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shows relationships between objects  
focuses attention

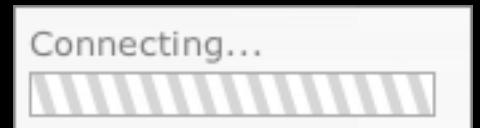


A screenshot of the Yahoo! Plus homepage. The interface includes a search bar at the top with a "Search" button. Below the search bar, there are several expandable news and information modules. One module is titled "Scoreboard" and shows a "TODAY" section with NHL and NBA game results. Another module is "Message Center" which says "Check Email" and "Launch Messenger 14 friends on". A "Weather" module displays current temperatures for Dallas, TX; Denton, TX; Sunnyvale, CA; Boulder Creek, CA; Gilroy, CA; and San Jose, CA. Other modules include "Software News", "eHub", and "BayCHI Monthly Program Events". The overall layout is cluttered and suggests a complex user interface with many potential points of interaction and state changes.

# Timing Concerns



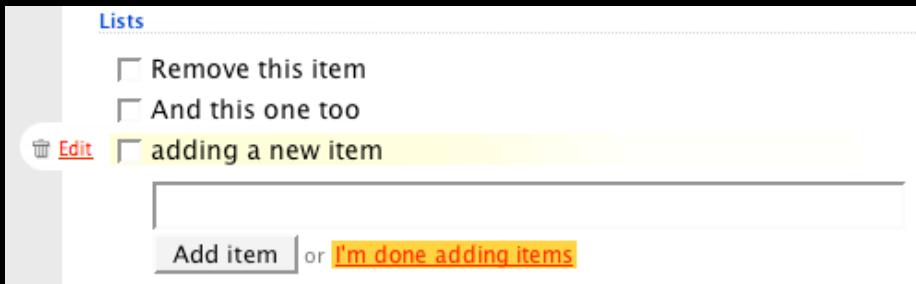
timing is important  
makes actions seem faster  
slows down interaction for understanding  
reveals state change  
shows relationships between objects  
focuses attention



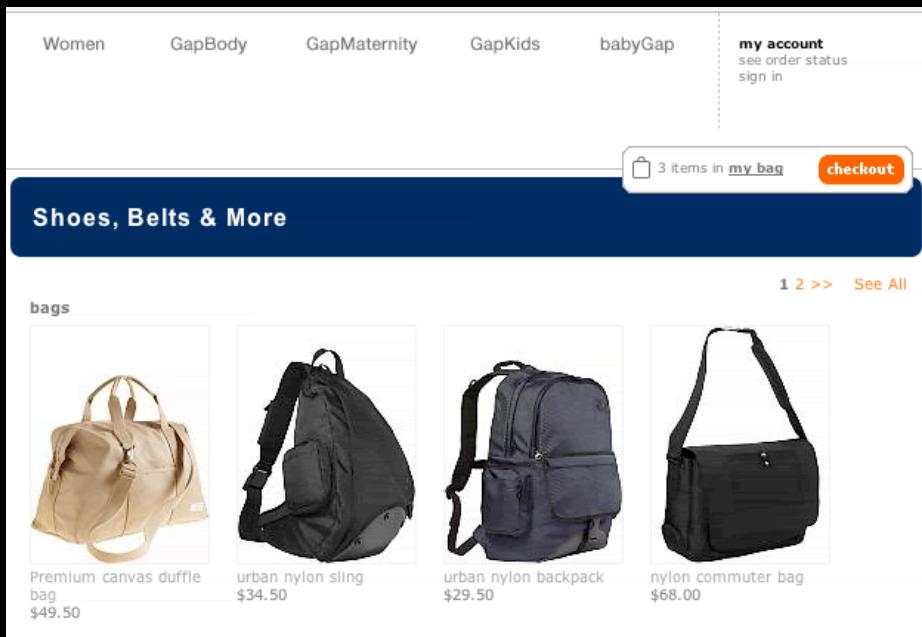
The screenshot shows the Yahoo! Plus homepage. At the top, there's a banner with the text 'Connecting...'. Below the banner, there are several news and information modules:

- Scoreboard**: Shows today's NHL and NBA games.
- Message Center**: Allows users to check email and launch messenger.
- Weather**: Provides weather forecasts for Dallas, TX; Denton, TX; Sunnyvale, CA; Boulder Creek, CA; Gilroy, CA; and San Jose, CA.
- Software News**: Lists news items such as AccuRev giving software configuration system global focus, Anti-virus Software: The Next Big Worm Target?, India's Satyam logs 64 percent rise in third-quarter profit, Cisco Patches Router, Call Manager Software, and more.
- eHub**: Lists news items such as eHub Interviews Prodigem, Veetro, MediaMax, iOWEYOU, and HyperSuper.
- BayCHI Monthly Program Events**: Lists monthly program events.

# Timing Concerns



timing is important  
makes actions seem faster  
slows down interaction for understanding  
reveals state change  
shows relationships between objects  
focuses attention



A screenshot of a Yahoo! Plus homepage. The top features a 'Connecting...' message with a progress bar. Below the progress bar, there's a banner for 'Animated Tour Useful New Features' and a 'We Upgraded Mail Storage: Now 2G' message. The main content area contains several widgets: 'Scoreboard' (today's NHL and NBA games), 'Message Center' (check email, launch messenger), 'Weather' (current conditions for Dallas, TX, Denton, TX, Sunnyvale, CA, Boulder Creek, CA, Gilroy, CA, San Jose, CA), 'Best Fare Tracker' (departing from New York, NY, Paris, France, Seattle/Tacoma, WA), and 'eHub' (links to interviews, news, and events). There's also a 'BayCHI Monthly Program Events' section at the bottom right.

# Timing Concerns

A screenshot of a web-based application interface. At the top left, there's a "Lists" section with three checkboxes: "Remove this item", "And this one too", and "adding a new item". The third checkbox is highlighted with a yellow background. Below this is a red "Edit" button. In the center, there's a large input field with the placeholder "Add item" and a message "or I'm done adding items" in orange. At the bottom right of the input field, there's a progress bar consisting of several small squares.

A screenshot of the Gap website. At the top, there are navigation links for Women, GapBody, GapMaternity, GapKids, and babyGap. On the right, there's a "my account" link with options to see order status or sign in. A shopping bag icon indicates "3 items in my bag" with a "checkout" button next to it. Below this, a blue header bar says "Shoes, Belts & More". Underneath, there's a section for "bags" featuring four products: "Premium canvas duffle bag" (\$49.50), "urban nylon sling" (\$34.50), "urban nylon backpack" (\$29.50), and "nylon commuter bag" (\$68.00). Each product has a small image and a brief description.

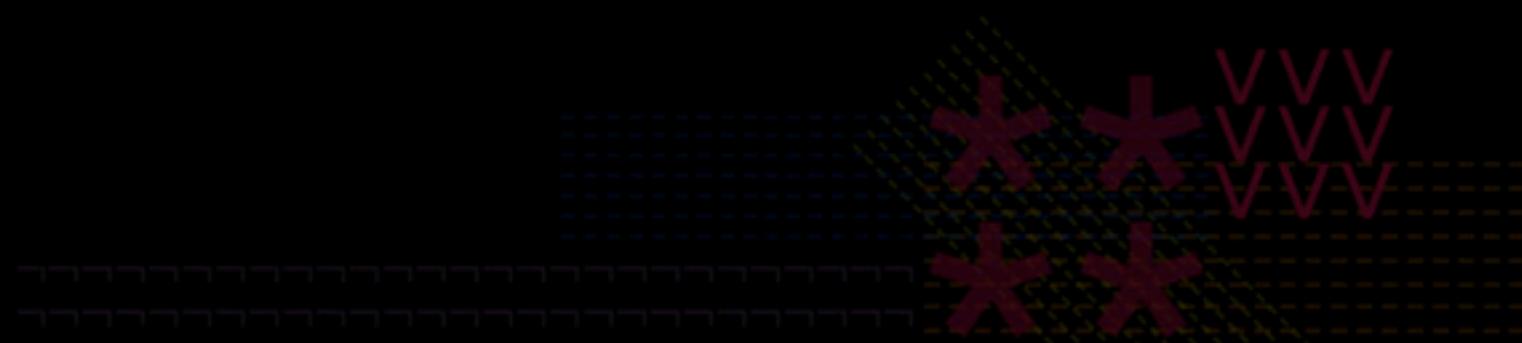
A screenshot of the Flickr interface. At the top, there are buttons for "Batch Organize" and "Your Sets". Below this, there are buttons for "Edit photos", "Permissions", "Edit dates", "Add tags", and "Add to set". To the right, there's a "flickr" logo and a "Clear this batch" button. At the bottom, there's a row of five thumbnail images. A progress bar consisting of several small squares is located at the bottom right of the screen.

timing is important  
makes actions seem faster  
slows down interaction for understanding  
reveals state change  
shows relationships between objects  
focuses attention



A screenshot of a Yahoo! Plus page. At the top, it says "Connecting..." above a progress bar. The main content area features a "Scoreboard" section with "TODAY" and "YESTERDAY" tabs, a "Message Center" for checking email, a "Weather" section for Dallas, TX, and a "Software News" section listing various software news items. A "eHub" section is also present.

# Timing Concerns



# Timing Concerns

The screenshot shows the homepage of my yahoo! version 1. At the top, there's a banner for "Animated Tour Useful New Features" and "We Upgraded Mail Storage: Now 2G". Below the banner, the navigation bar includes "Select Type: Web", "Images", "Local", "News", "Shopping", "My Services", "Feedback", and a search bar with a "Search" button. The main content area features several expandable modules:

- Scoreboard**: TODAY section shows NHL and NBA games. NHL game: Tampa Bay vs. Dallas (5-3), 13:15 ET. NBA game: Dallas vs. LA Clippers (0-0), 10:30 ET.
- Message Center**: Check Email, Launch Messenger 14 friends on
- Weather**: Dallas, TX (40...75 F), Denton, TX (35...75 F), Sunnyvale, CA (42...57 F), Boulder Creek, CA (39...59 F), Gilroy, CA (38...57 F), San Jose, CA (42...58 F)
- Software News**: AccuRev gives software configuration system global focus - 5 hours ago; Anti-virus Software: The Next Big Worm Target? - 10 hours ago; India's Satyam logs 64 percent rise in third-quarter profit - 10 hours ago; Cisco Patches Router, Call Manager Software - 1 day ago
- eHub**: eHub Interviews Prodigem - 11 hours ago; Veetro - 20 hours ago; MediaMax - 2 days ago; iOWEYOU - 2 days ago; HyperSuper - 2 days ago
- BayCHI Monthly Program Events**: 2006/02/14: Monthly Program Meeting - 3 hours ago
- Best Fare Tracker**: Depart: New York, NY - all (Paris, France - all \$193.00); Depart: Seattle/Tacoma, WA (Honolulu, HI \$333.60); Depart: San Francisco, CA
- Maps**: Select From My Locations or Recently Used, clear recent, My Locations

my yahoo!. version 1

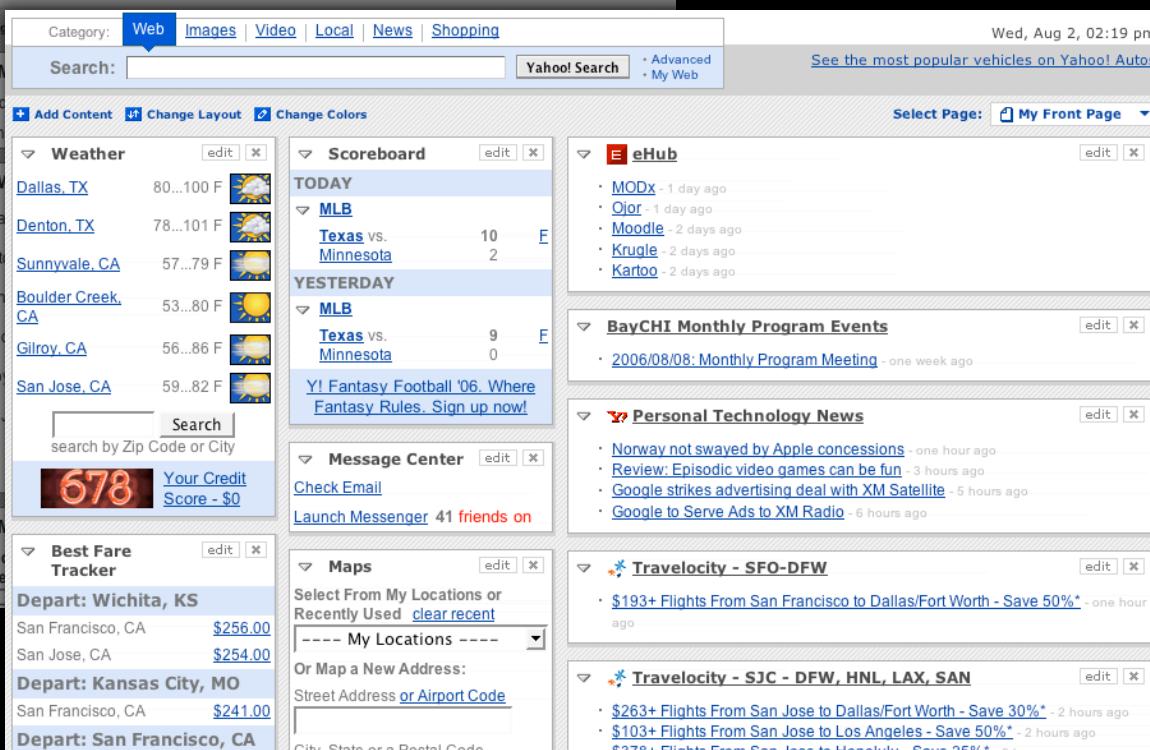


# Timing Concerns



my yahoo!. version 1

The screenshot shows the Yahoo! Plus interface from 2006. At the top, there's a banner for "Animated Tour Useful New Features" and "We Upgraded Mail Storage: Now 2G". Below the banner, the navigation bar includes "Select Type: Web", "Images", "Local", "News", "Shopping", "My Services", "Feedback", and "Help". A search bar with a "Search" button is present. The main content area features a "Scoreboard" module for NHL and NBA games, a "Weather" module for Dallas, TX, and a "Best Fare Tracker" for flights from New York, Paris, Seattle/Tacoma, Honolulu, and San Francisco.



my yahoo!. version 2

The screenshot shows the Yahoo! Plus interface from 2006. The layout is similar to version 1, but the modules are rearranged. The "Scoreboard" module is now part of a larger dashboard. The "Weather" module is also part of this dashboard. The "Best Fare Tracker" module has been moved to a separate box. The "Maps" module is also present in this version. The overall design is more cluttered and less organized than the first version.



# Timing Concerns

The image displays three side-by-side screenshots of the Yahoo! interface, illustrating the evolution of the service over time:

- my yahoo!. version 1**: The top screenshot shows the Yahoo! PLUS homepage. It features a large search bar at the top with the placeholder "Search:" and a "Search" button. Below the search bar, there's a "Hello Bill" greeting and weather information (42° - 57°). The main content area includes a "Scoreboard" section for NHL and NBA games, a "Best Fare Tracker" for flights from New York, Seattle, and San Francisco, and a "Weather" section for various locations like Dallas, TX, and Sunnyvale, CA.
- my yahoo!. version 2**: The middle screenshot shows a more refined version of the interface. The "Scoreboard" and "Best Fare Tracker" sections remain, but the "Weather" section is simplified, displaying only zip codes and temperatures. The overall layout is cleaner and more organized.
- my yahoo!. version 3**: The bottom screenshot shows the final evolution. The "Scoreboard" and "Best Fare Tracker" sections are still present. The "Weather" section has been replaced by a "Local" map for San Jose, CA. The right side of the screen is dominated by the "eHub" (Personal Assistant) which contains links to "Mail", "Music", "News", "Weather", "Travel", and "Finance". It also features a large advertisement for "BIONIC WOMAN" and a news feed from "Yahoo! News" with items like "Microsoft will replace scratched Halo 3 discs" and "T-Mobile Launches New Sidekicks".

my yahoo!. version 3

# prototyping with DHTML

# Prototyping with DHTML

## Benefits

Start simple & add complexity

Higher fidelity

Closer to final solution

Living example

## Disadvantages

Requires technical savvy

Bugs can suck down time

Too much time spent 'messing with code'

Hard to extract into documentation

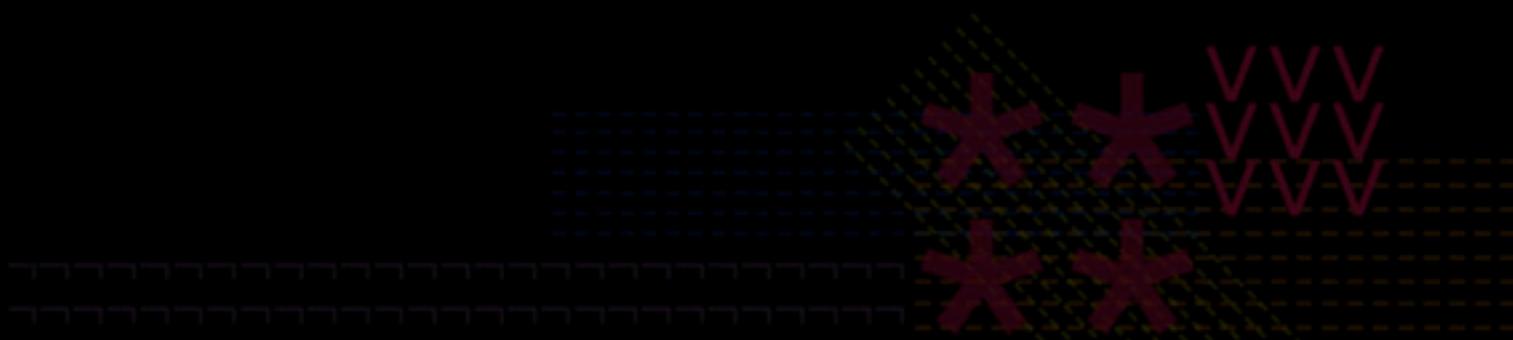
Can get in the way of ideation if not rapid enough



100+ variations prototyped over 1 week

Winnowed down between PMs, Design & Eng.

Put before users the next week & again 2 weeks later



## Button Prototypes

NOTE: Prototypes have only been tested in Firefox 3. Hard refresh pages to make sure you have the latest version.

### Evaluate for Qual

#### Side-by-Side Buttons

- Member Home
- Watch Instantly Home

#### Play Boxshot Overlay

- Side-by-Side Add Buttons
- Member Home
- Watch Instantly Home

#### Instant Options on Play Click

- Member Home
- Watch Instantly Home
- TODD: On Click Instant Options Flyout

#### Queue Options on Add Click

- Member Home
- Watch Instantly Home
- TODD: On Click Queue Options Flyout

#### Eye Boxshot Overlay

- Member Home
- Watch Instantly Home

• T000: This should be the prototype that Adds to Instant Queue and offers big Play promo on Quad

### Alternate Explorations of above

#### Bottom Buttons

- Alternate Flyout Test

### Old Designs: Evaluate for Qual

#### Left Buttons

- Member Home
- Watch Instantly Home
- Starter Not Interested Hidden
- Show instant options on click
- Hover in boxset area of that button activates button hover

#### Side-by-Side Buttons

- Member Home
- Watch Instantly Home
- Starter Not Interested Hidden
- Disc-only movie button full-width
- No flyout on disc-only full-width button

#### Play Overlay

##### Instant Actions on Play Click

- Member Home
- Watch Instantly Home

##### Queue Actions on Add Click

- Member Home
- Watch Instantly Home

##### Splits Add

- Member Home
- Watch Instantly Home

### Additional Explorations of above

#### Left Buttons

- Remove Boxshot as MOD Link
- Only icon in Hover Target
- Show instant Options on Mouseover – w/ adjustable delays
- Light Overlay when inactive
- Light Overlay with Text when inactive

#### 3 Buttons: Watch Instantly, Instant Add, DVD Add

- Show Text w/ Verbose Tooltips
- Member Home
- Watch Instantly Home
- Starter Not Interested Hidden
- Tooltip could be offered until someone has used the button enough.
- Text could vary by customer state (i.e. activated device, day one experience, etc.)
- Add to Playlist
- Based on current site catalog, 3 buttons isn't common

#### Bottom Buttons

- Flyout on disc-only full-width button

#### Play Overlay

##### Queue Actions on Add Click

- Show All Icon

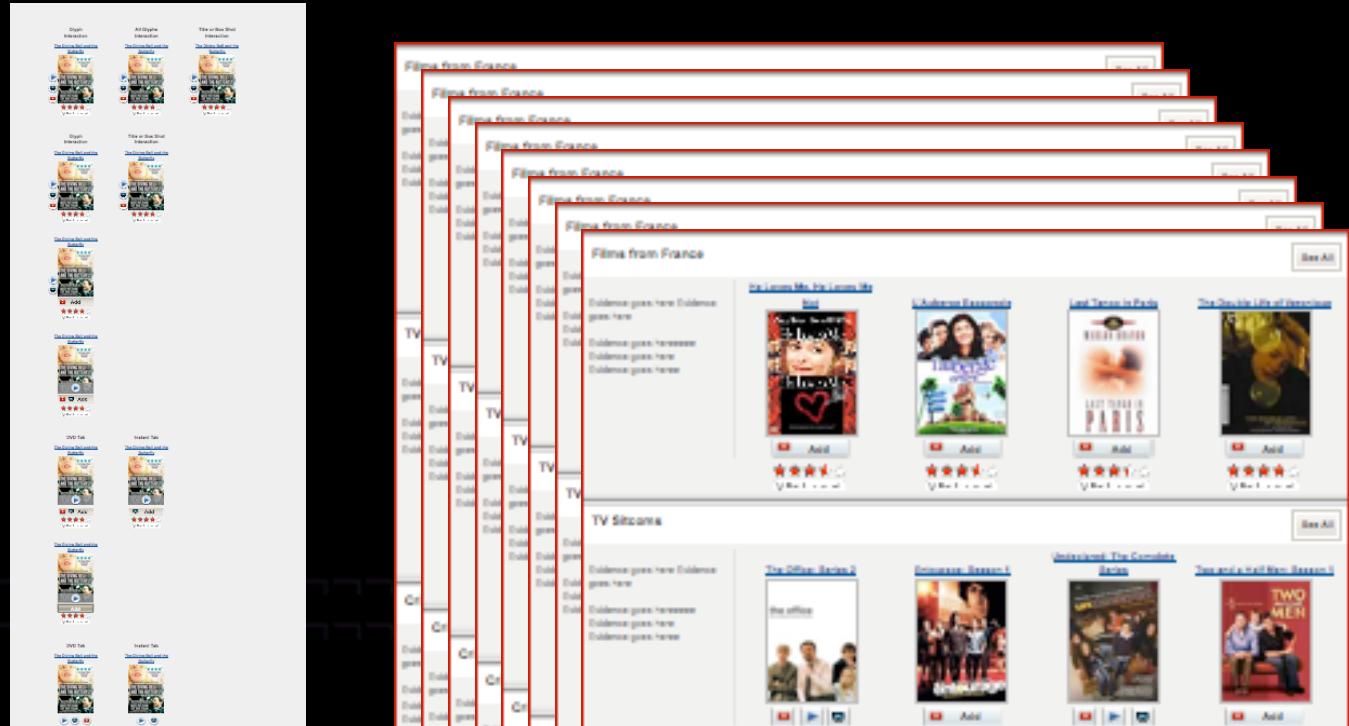
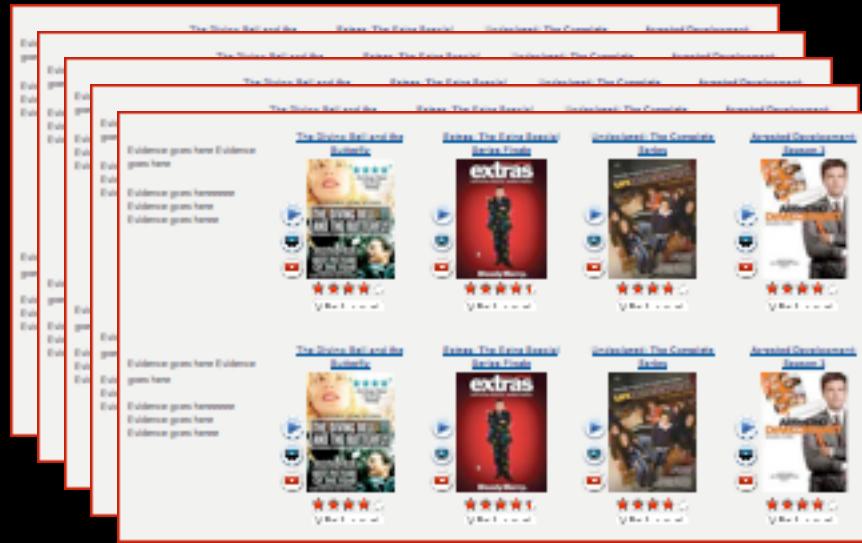
### Initial Quick Explorations

- Lots of Quick Prototypes
- Evacuating Movie Lookups 1
- Evacuating Movie Lookups 2 (mini bob-libs)
- Respective BOB
- Respective BOB: Smaller Posters
- Respective BOB: Greater Title and Truncated Synopsis
- Respective BOB: Wide

# 100+ variations prototyped over 1 week

Winnowed down between PMs, Design & Eng.

Put before users the next week & again 2 weeks later

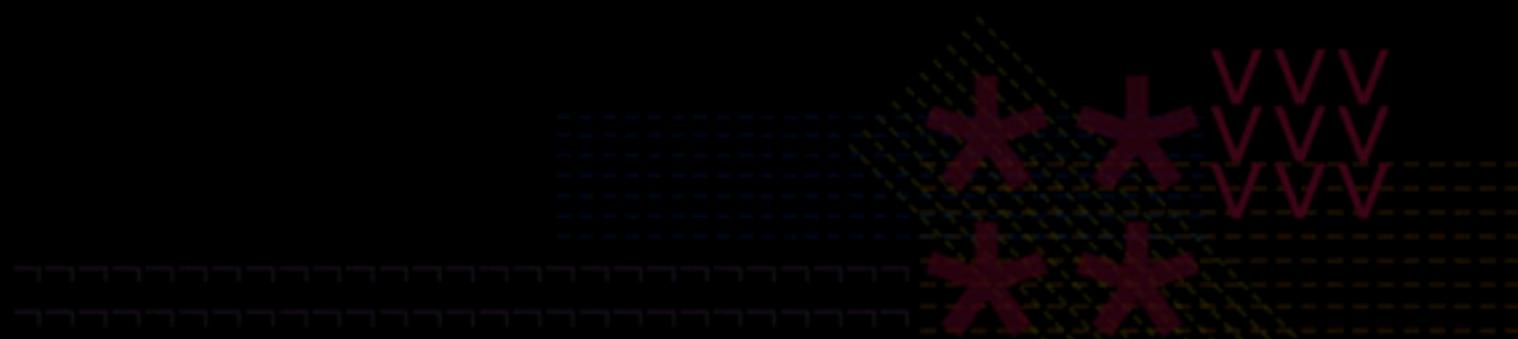


# Separation of Concerns

Content/Structure should be free of style & behavior logic

Style should be layered in externally

Logic should be handled in separate code

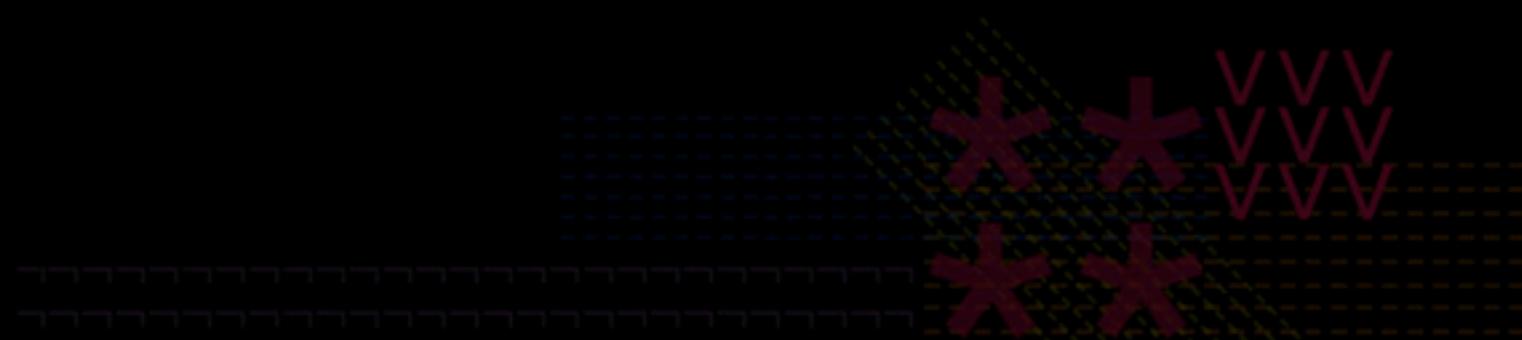
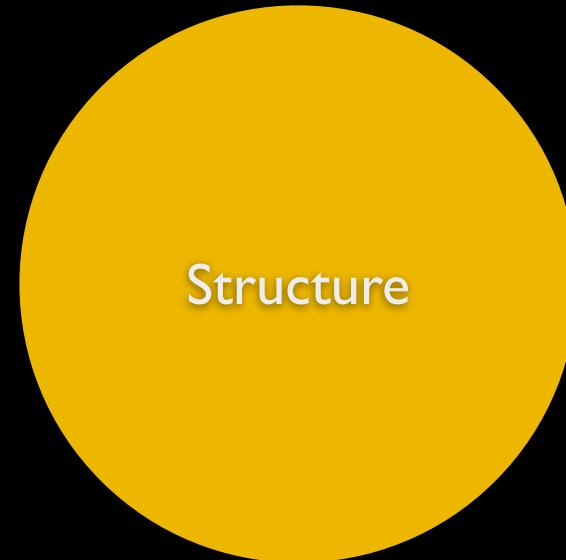


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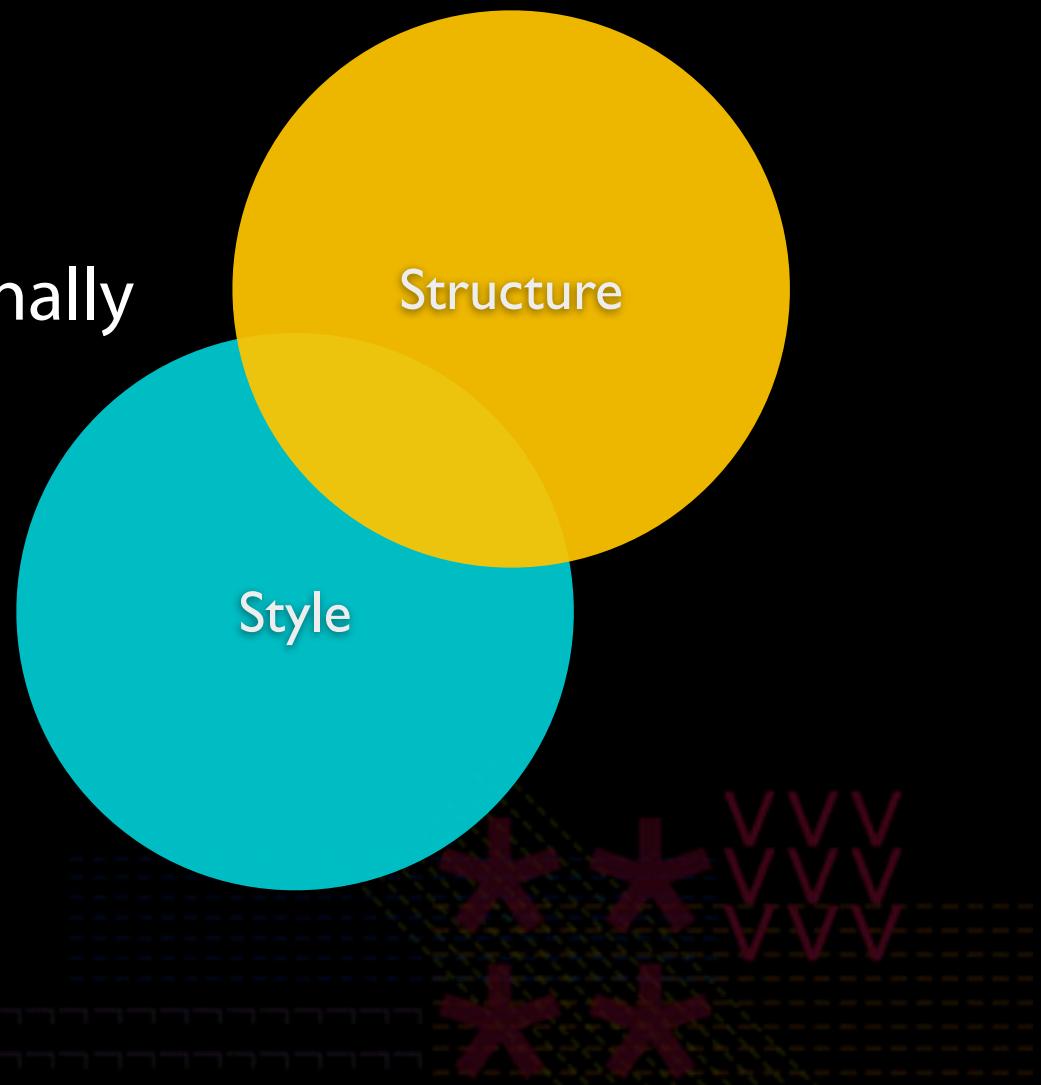


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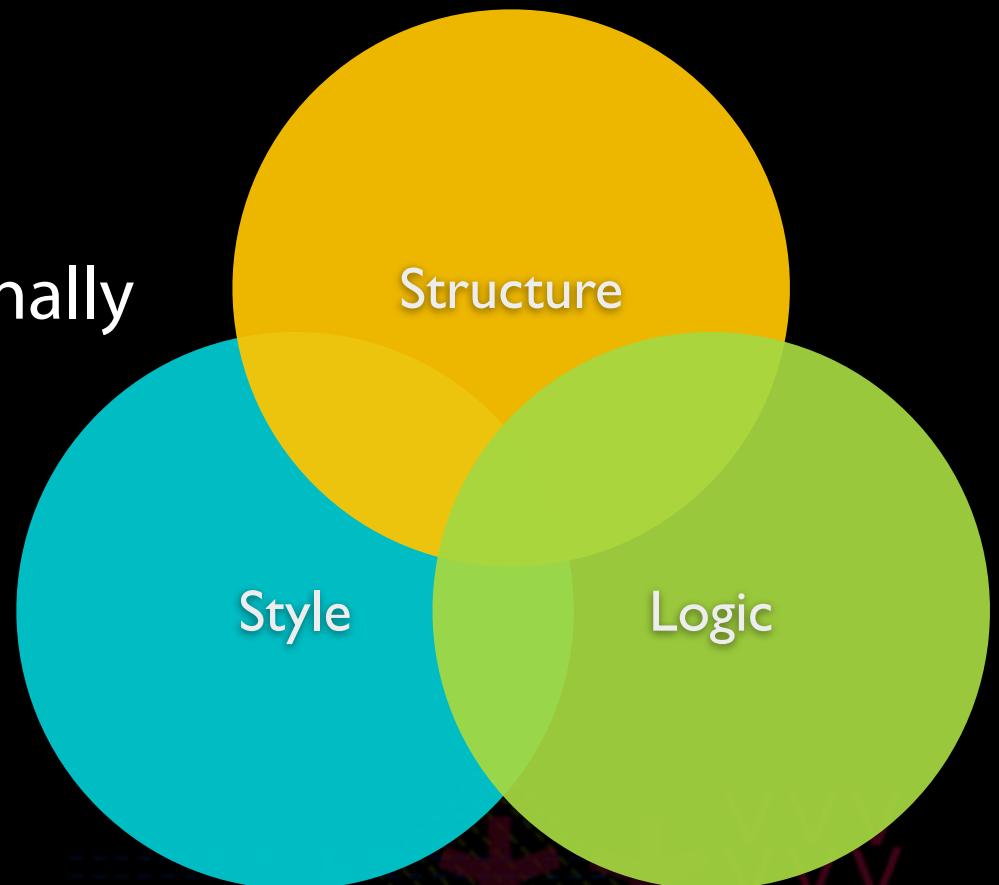


# Separation of Concerns

Content/Structure should be free of style & behavior logic

Style should be layered in externally

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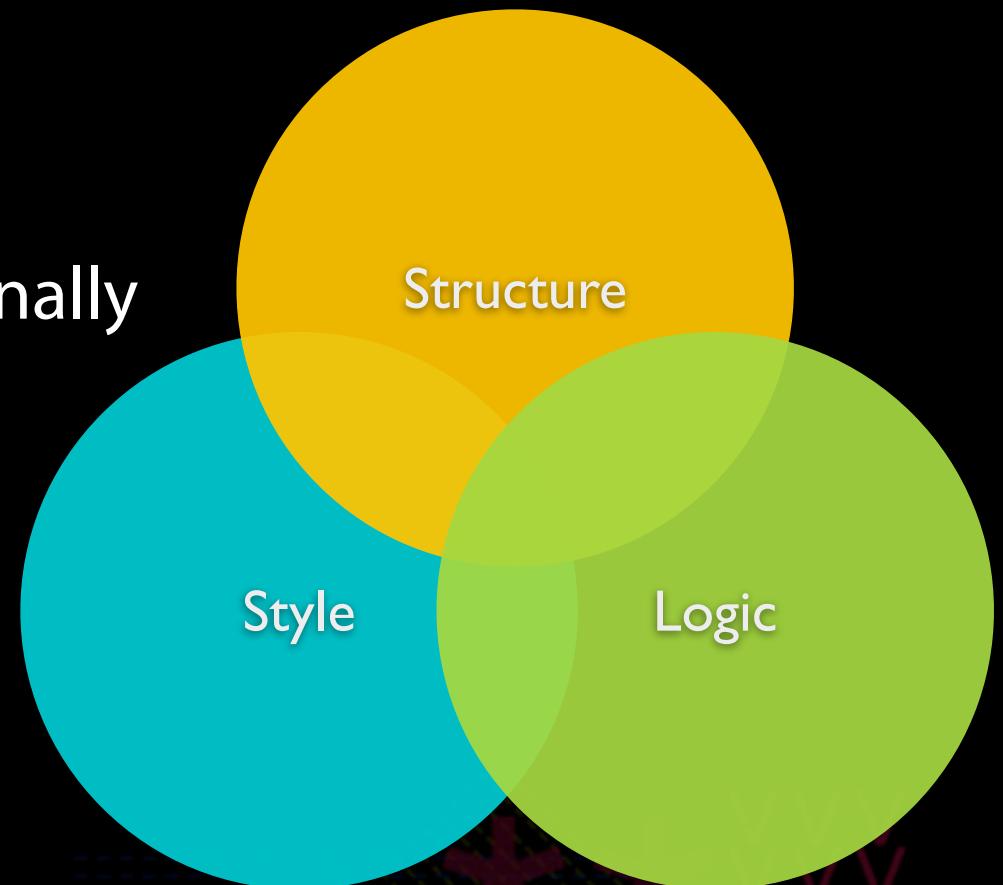


# Separation of Concerns

Content/Structure should be free of style & behavior logic

Style should be layered in externally

Logic should be handled in separate code



"Keep structure, style and logic separate"

# Prototyping Challenges



## Layout

Getting the page laid out correctly (enough) & quickly



## Behavior

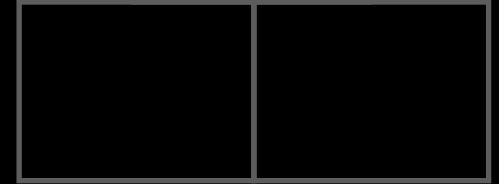
Adding interactivity to the page



## Data

Populating the prototype with fake or semi-realistic data

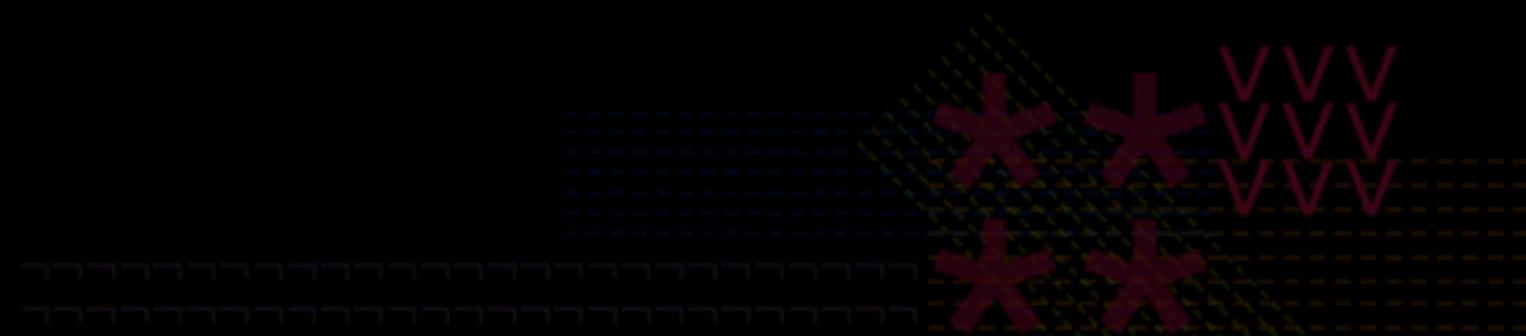




# Layout

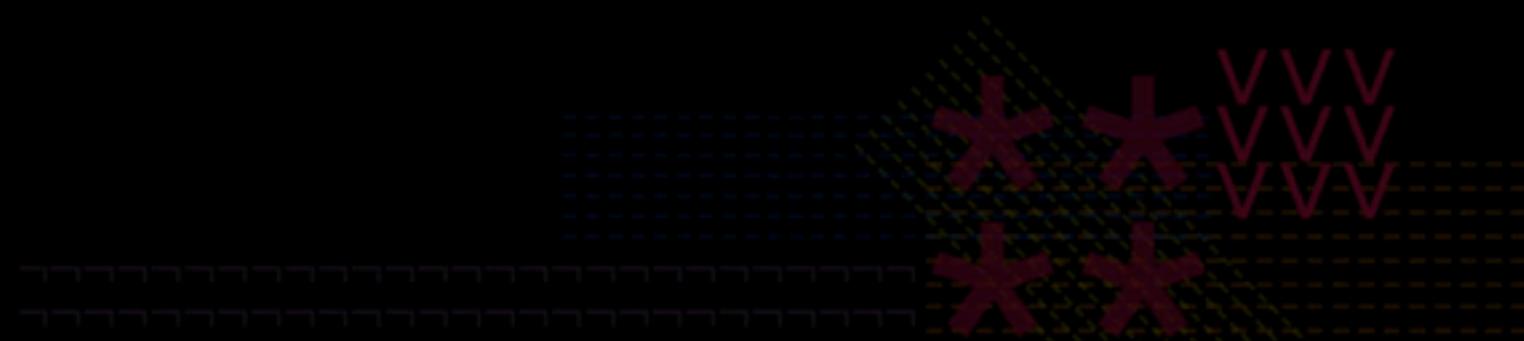
Putting everything where it should be as quickly as possible\*

*\*with minimal hacking*



# It's Not That Easy

14 IE 6 layout  
bugs



# It's Not That Easy

14 IE 6 layout  
bugs

9 ways to layout  
columns



# It's Not That Easy

14 IE 6 layout  
bugs

9 ways to layout  
columns

3 rendering  
engines



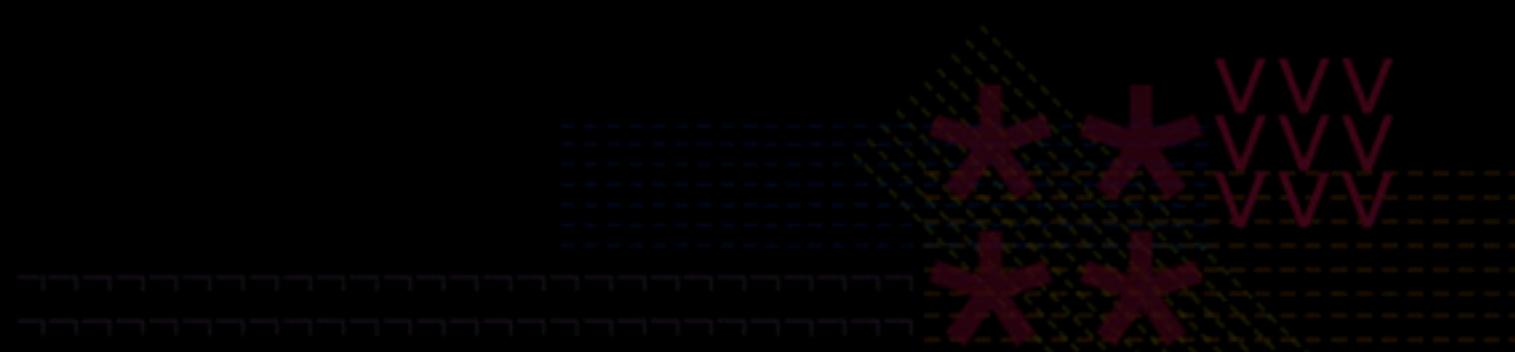
# It's Not That Easy

14 IE 6 layout  
bugs

9 ways to layout  
columns

3 rendering  
engines

8 major  
browsers



# It's Not That Easy

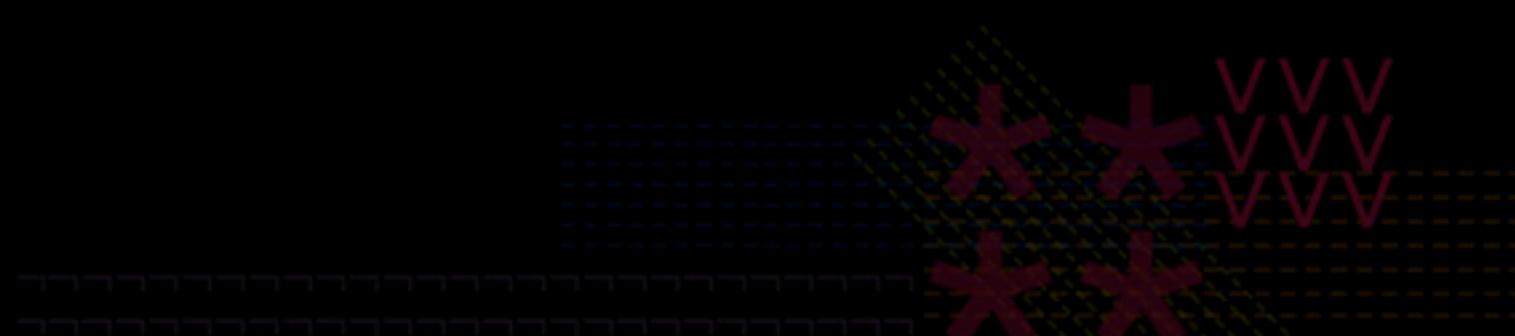
14 IE 6 layout bugs

5 ways to layout elements

3 rendering engines

9 ways to layout columns

8 major browsers



# It's Not That Easy

14 IE 6 layout bugs

5 ways to layout elements

3 rendering engines

6+ ways to vertically align

9 ways to layout columns

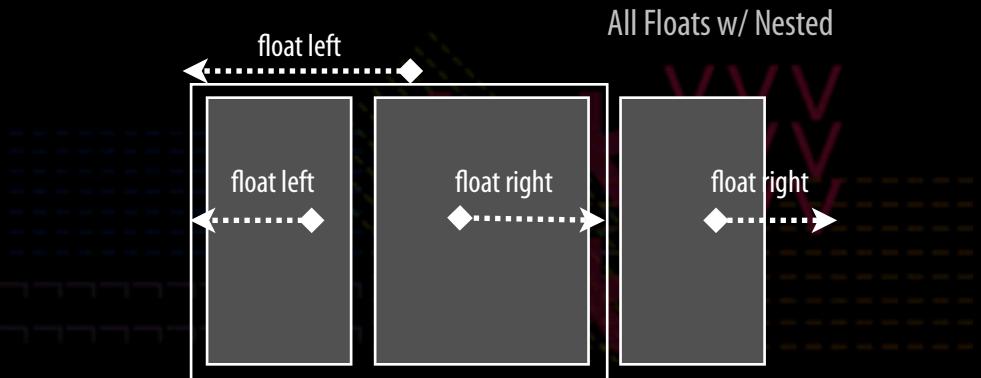
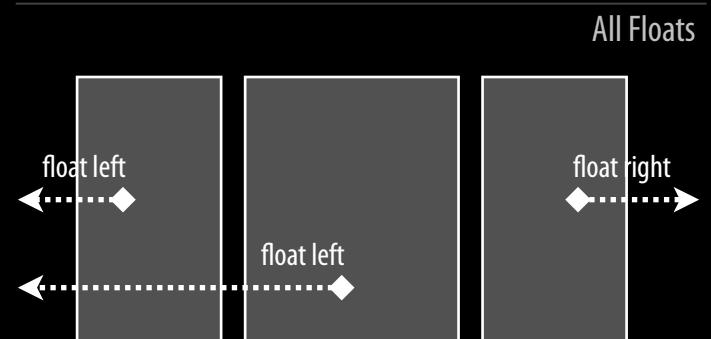
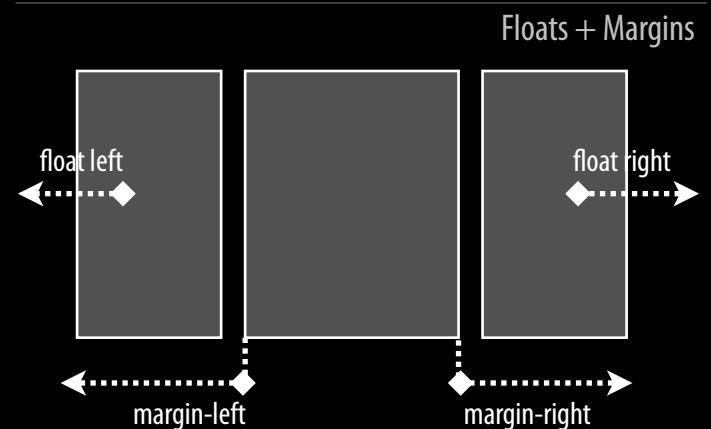
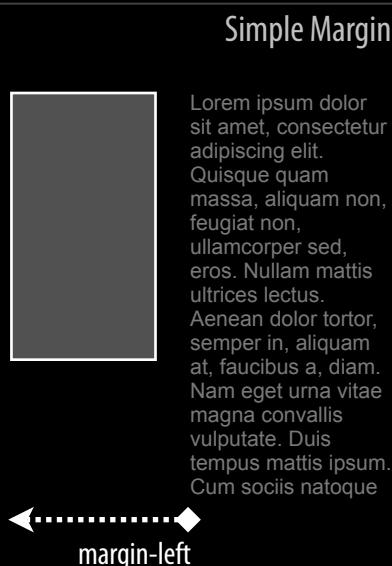
8 major browsers

# This Should Not Be Hard... But It Is

Confronted with many techniques

Slows prototyping

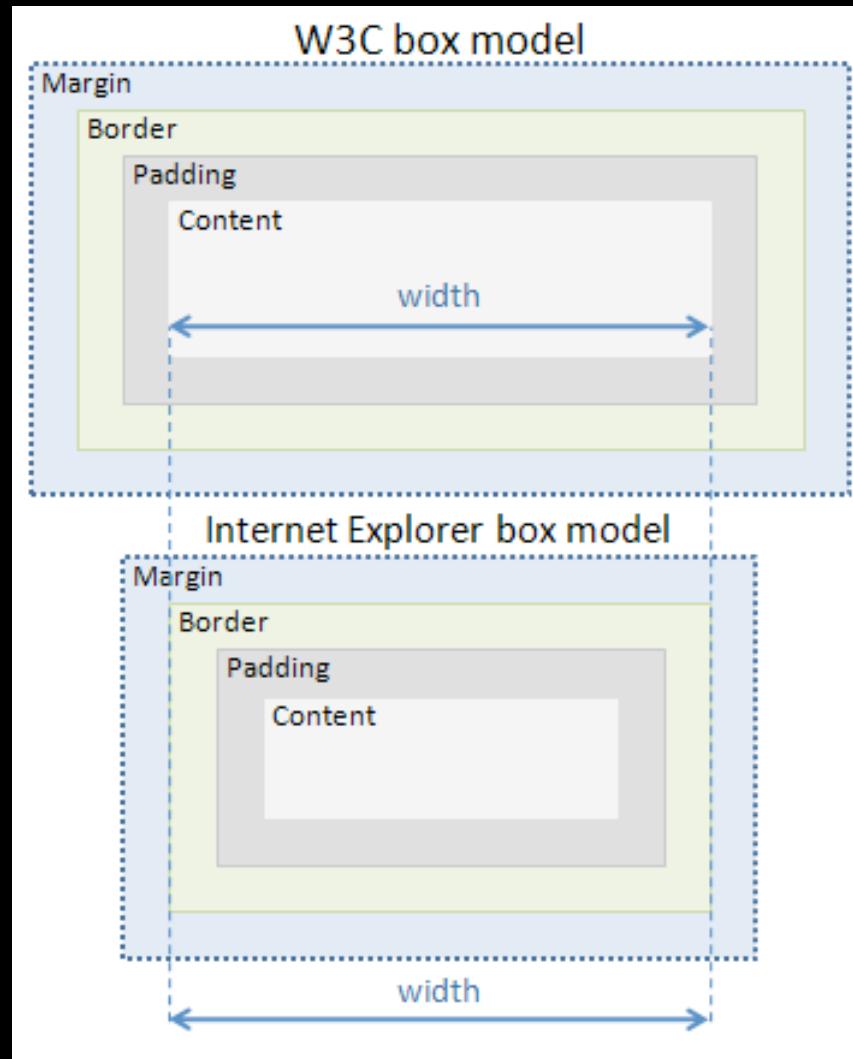
Problem: Laying out against the flow



# Box Model

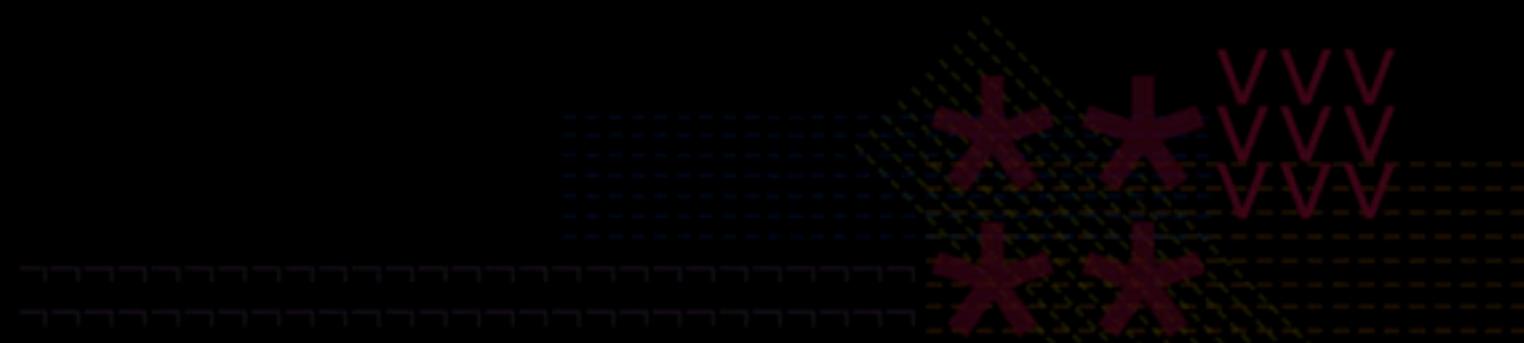
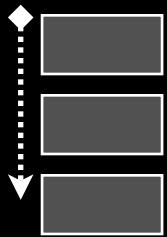
IE6 Quirks mode (and earlier IE) have different handling

Use strict mode to eliminate this concern



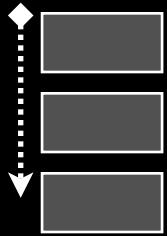
# Understanding Floats

Flow of block elements

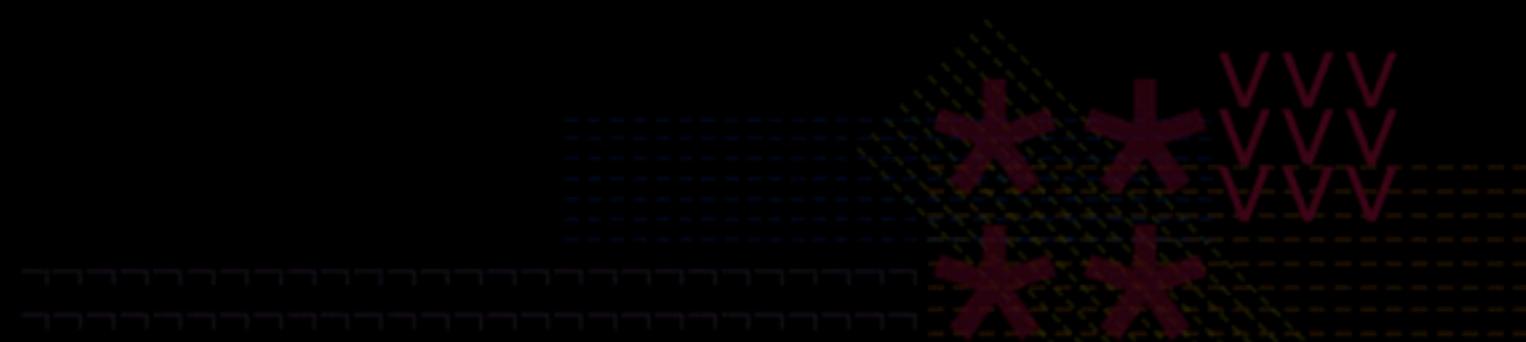
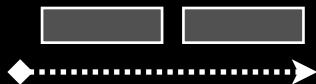


# Understanding Floats

Flow of block elements

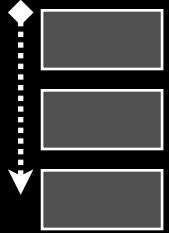


Flow of inline elements



# Understanding Floats

## Flow of block elements



## Flow of inline elements



## Flow of block elements

float left



Lorem ipsum dolor  
sit amet, consectetur  
adipiscing elit.

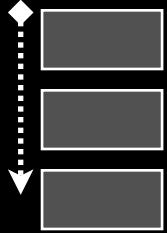
Quisque quam massa, aliquam non,  
feugiat non, ullamcorper sed, eros.  
Nullam mattis ultrices lectus. Aenean  
dolor tortor, semper in, aliquam at,  
faucibus a, diam. Nam eget urna  
vitae magna convallis vulputate. Duis  
tempus mattis ipsum. Cum sociis  
natoque

**block  
element  
flows around  
block above**



# Understanding Floats

## Flow of block elements



## Flow of block elements

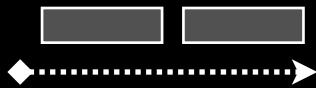
float left

Quisque quam massa, aliquam non, feugiat non, ullamcorper sed, eros. Nullam mattis ultrices lectus. Aenean dolor tortor, semper in, aliquam at, faucibus a, diam. Nam eget urna vitae magna convallis vulputate. Duis tempus mattis ipsum. Cum sociis natoque

Lorem ipsum dolor sit amet, consectetur adipiscing elit.

block  
element  
flows around  
block above

## Flow of inline elements



## Floating block elements

float left

float left

float left

float left

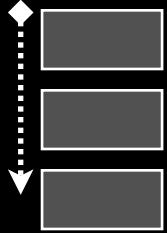
flow left to right

third block  
element  
wraps

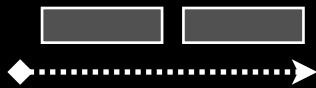


# Understanding Floats

## Flow of block elements



## Flow of inline elements



## Flow of block elements

float left

```
graph LR; A[ ] --- B[ ]
```

Quisque quam massa, aliquam non, feugiat non, ullamcorper sed, eros. Nullam mattis ultrices lectus. Aenean dolor tortor, semper in, aliquam at, faucibus a, diam. Nam eget urna vitae magna convallis vulputate. Duis tempus mattis ipsum. Cum sociis natoque

**block element flows around block above**

## Floating block elements

float left

float left

float left

```
graph LR; A[ ] --- B[ ] --- C[ ]
```

flow left to right

**third block element wraps**

## Clearing floats

float left

float left

```
graph LR; A[ ] --- B[ ]
```

flow left to right

◆ [clear]

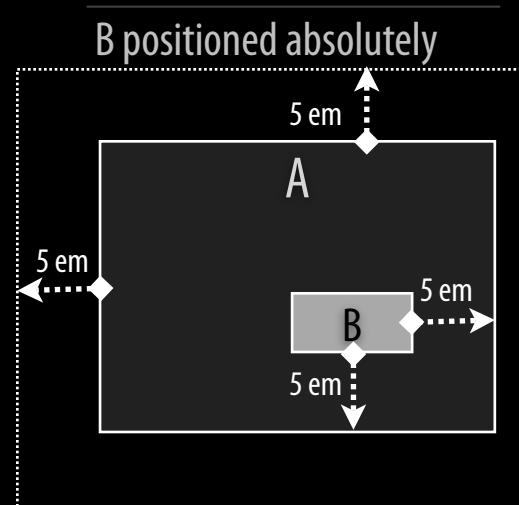
```
graph TD; A[ ] --- B[ ]
```

after clear, flow returns to vertical for blocks



# Absolute Positioning

It is actually *relative* to its closest positioned ancestor

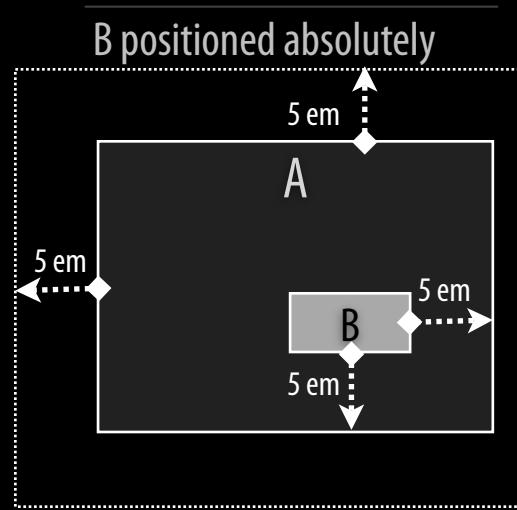


B is positioned  
relative to A, not  
the document



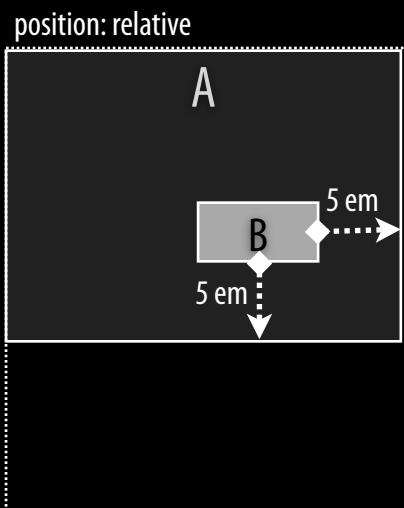
# Absolute Positioning

It is actually *relative* to its closest positioned ancestor



B is positioned  
relative to A, not  
the document

B positioned absolutely

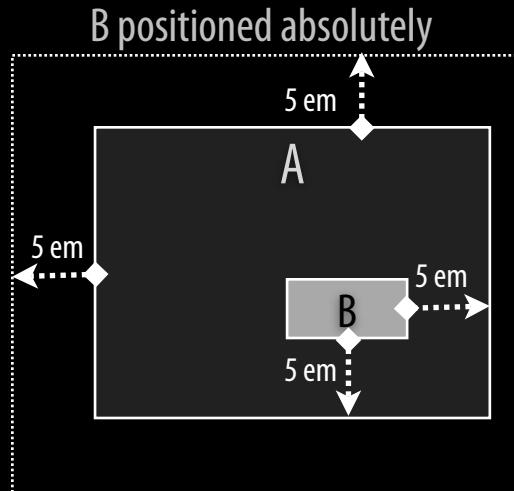


B is positioned  
relative to A, not  
the document

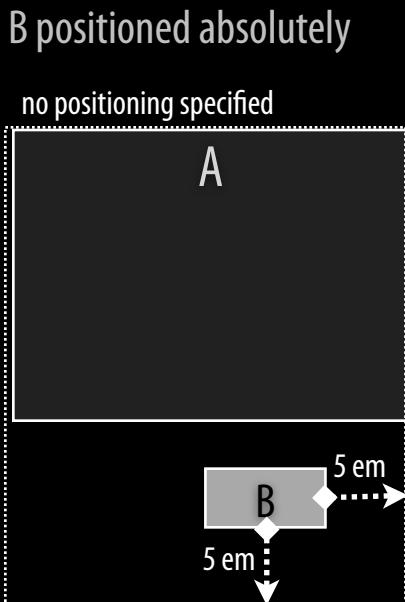


# Absolute Positioning

It is actually *relative* to its closest positioned ancestor

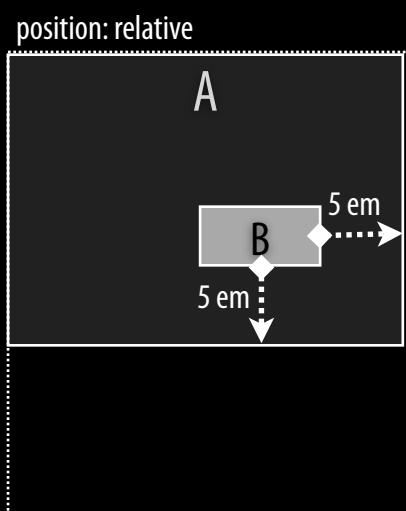


B is positioned  
relative to A, not  
the document



B is positioned  
relative to  
document, not A

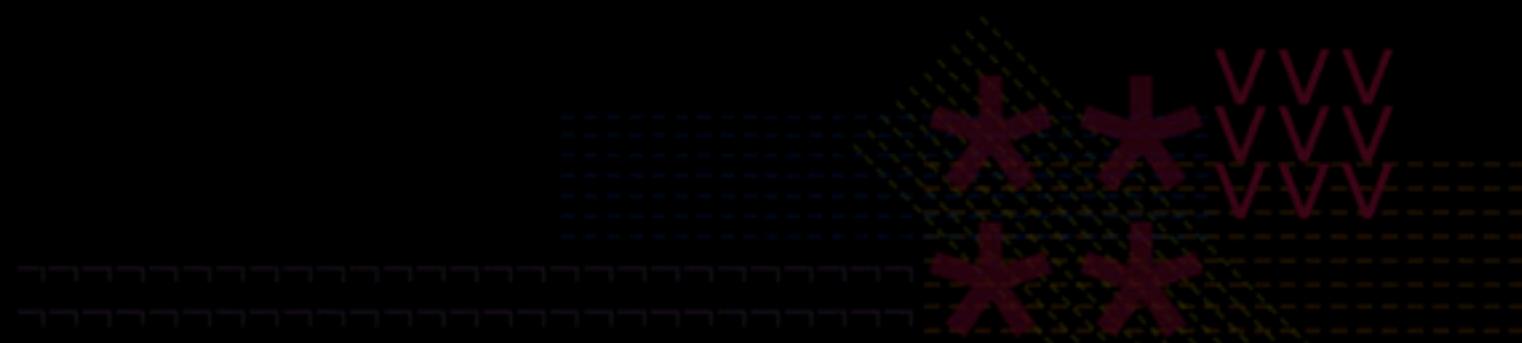
B positioned absolutely



B is positioned  
relative to A, not  
the document

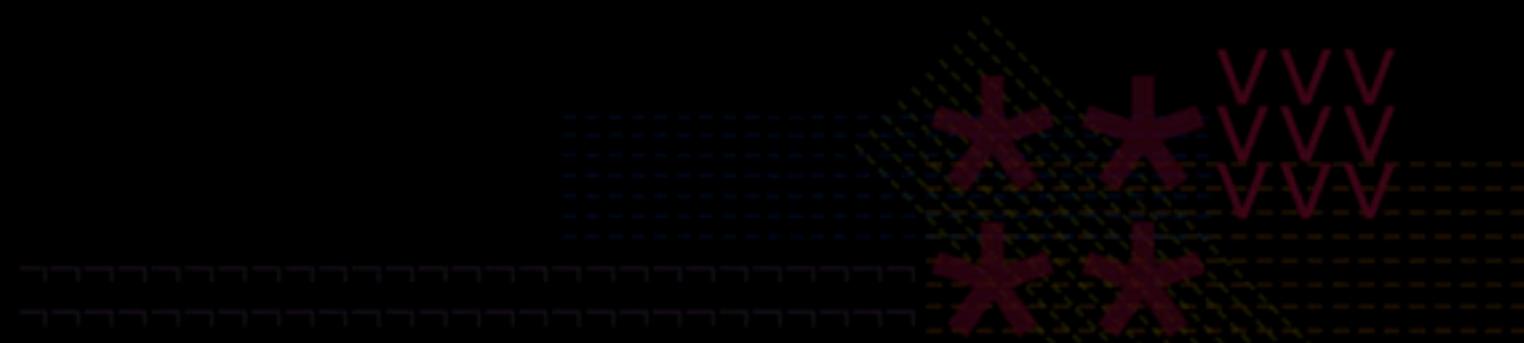


# Layout Techniques



# Layout Techniques

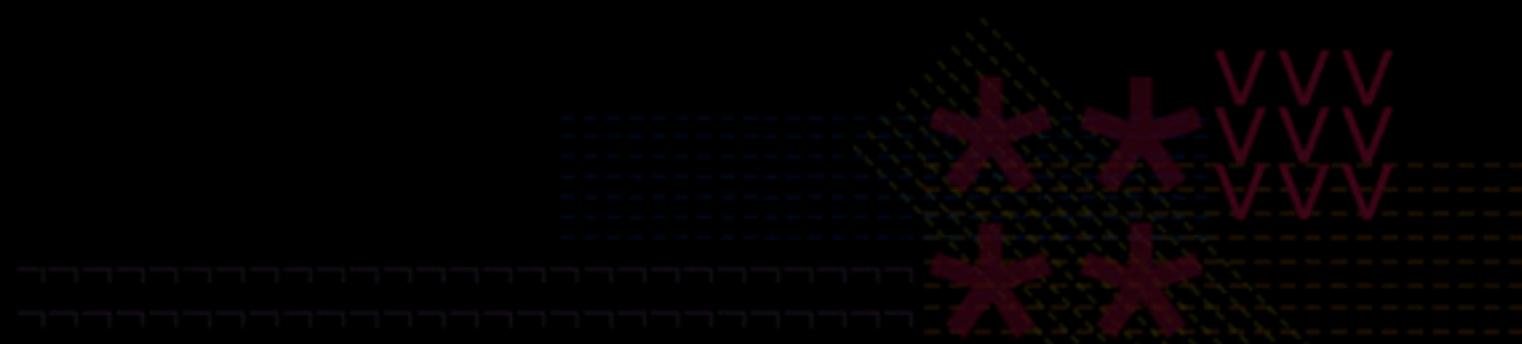
Choose positioning over floats



# Layout Techniques

Choose positioning over floats

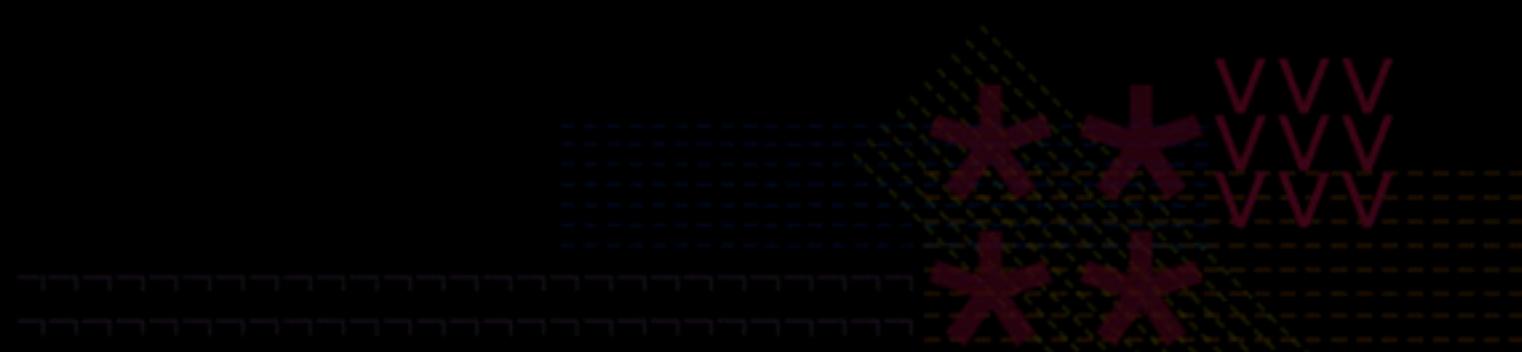
Use a grid layout system



# Layout Techniques

Choose positioning over floats

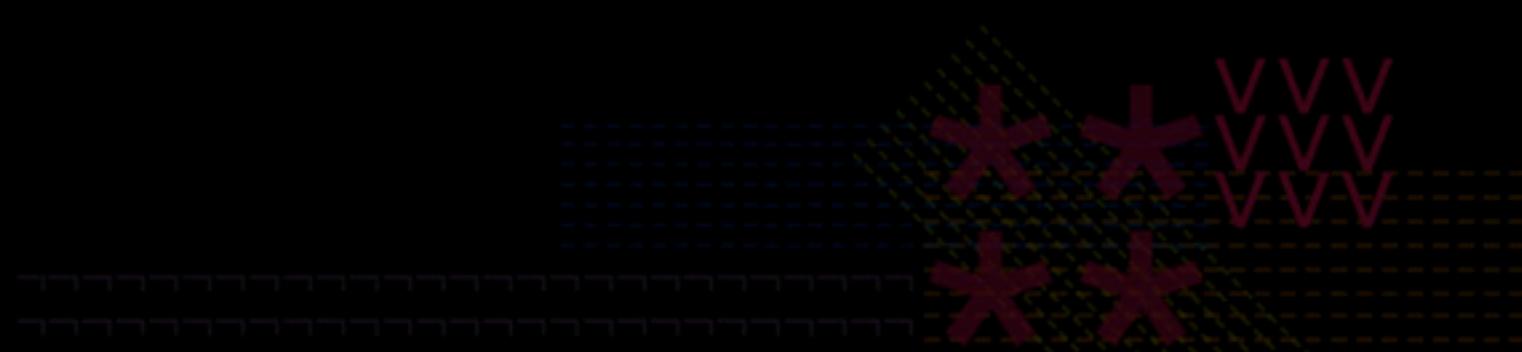
Use a grid layout system



# Layout Techniques

Choose positioning over floats

Use a grid layout system



# Layout Techniques

Choose positioning over floats

Use a grid layout system

Black Estate is a remarkable place for wine.

A family owned vineyard on the warm, sunny slopes of the Waipara Valley, where the vines grow through clay and limestone soils to produce intense wines completely expressive of this site.

Our wines are hand crafted using artisan techniques and a dedication to creating exceptional Waipara Pinot Noir, Chardonnay and Riesling.

## Vineyard

Omahi, Waipara, New Zealand.

Latest News

Our first Riesling

This year we were able to extend the Black Estate family with a Riesling.



# Layout Techniques

Choose positioning over floats

Use a grid layout system



# Layout Techniques

Choose positioning over floats

Use a grid layout system

Use a CSS framework to simplify life



# CSS Frameworks

Building on the work of others

Hide complexity

Simplify the layout process

Express layout

Define templates and/or grids

Normalize browsers

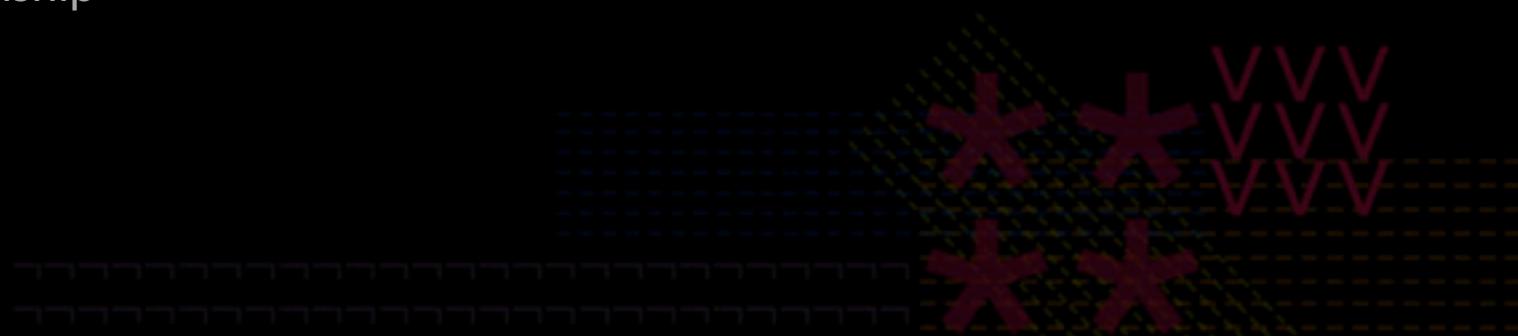
CSS Reset

Handle IE

Objections?

Takes away the craftsmanship

Non-semantic



# CSS Frameworks

Elements CSS Frameworks

WYMstyle: a CSS framework

YAML CSS Framework

YUI Grids CSS

Boilerplate CSS Framework

Blueprint CSS

960 Grid

Schema Web Design Framework

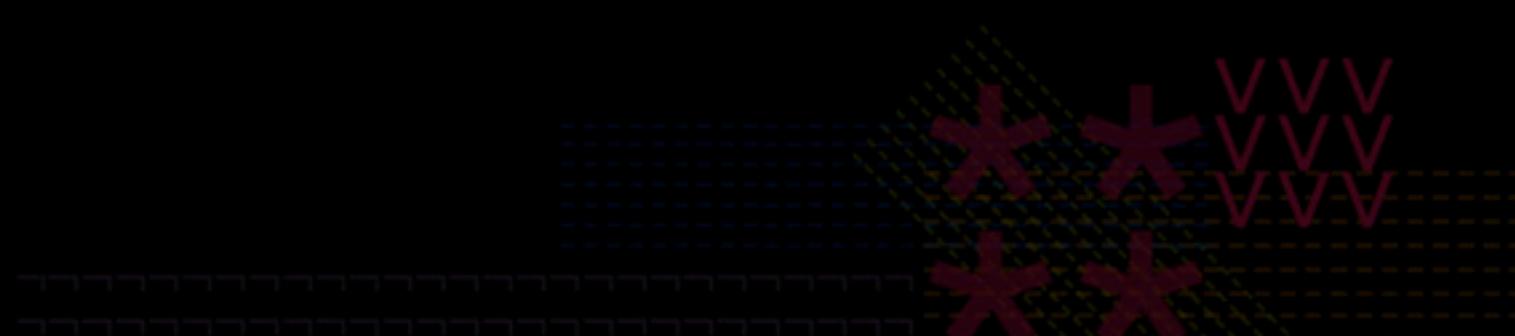
CleverCSS

Tripoli Beta CSS Framework

ESWAT Web Project Framework

CwS CSS Framework

My (not really mine) CSS Framework



# CSS Frameworks

Elements CSS Frameworks

WYMstyle: a CSS framework

YAML CSS Framework

YUI Grids CSS

Boilerplate CSS Framework

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960 Grid

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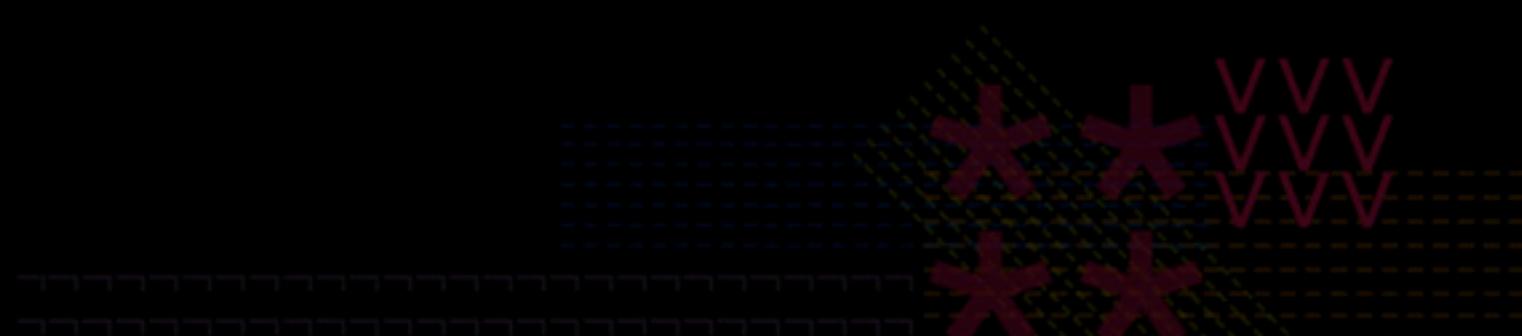
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# Blueprint CSS Framework

## A simple sample page

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### Here's a box

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### A Simple Sidebar

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You may pick and choose amongst these and many more features, so be bold.



# Blueprint CSS Framework

## A simple sample page

This sample page demonstrates a tiny fraction of what you get with Blueprint.

### Here's a box

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Vivamus euismod. Cum sociis natoque penatibus. Suspendisse vel nibh ut turpis dictum sagittis, neque lacinia pretium. Quisque nunc erat, venenatis Pellenentesque habitant morbi tristique senectus et net Morbi dignissim sollicitudin libero. Nulla lorem.

Integer cursus ornare mauris. Praesent nisl arcu, sagittis erat sed velit tempus Imperdiet. Ut tristique quis rutrum mauris lorem quis sem. Vestibulum lis suscipit placerat odio. Class aptent taciti sociosco hymenaeos. Pellenentesque tortor libero, venenatis

Maecenas vel metus quis magna pharetra fermentum. Integer sit amet tortor. Maecenas porttitor, pede sed gravida auctor, nulla augue aliquet elit, at pretium urna orci ut metus. Aliquam in dolor. Vestibulum ante ipsum primis in faucibus orci luctus et ultrices posuere cubilia Curae; Sed aliquam, tellus id ornare posuere, quam nunc accumsan turpis, at convallis tellus orci et nisl. Phasellus congue neque a lorem.

### This is a nested column

Lore ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur.

*This sample page demonstrates a tiny fraction of what you get with Blueprint.*

### Here's a box

Lore ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea.

### And another box

Lore ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat laboris nisi ut aliquip.

### This box is aligned with the sidebar

Lore ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip.



Inspect Edit | div.span-7 < div.container < body < html

Console

```
<hr>
<h2 class="alt">This sample page demonstrates a tiny fraction of what you get with Blueprint. </h2>
<hr>
<div class="span-7 colborder">
  <h3>Here's a box</h3>
  <p>Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat laboris nisi ut aliquip.</p>
</div>
<div class="span-8 colborder">
```

ve augue. ipsum primis in faucibus orci luctus et ultrices posuere cubilia Curae; Cras ornare mattis nunc. Mauris venenatis, pede sed aliquet vehicula, lectus tellus pulvinar neque, non cursus sem nisi vel augue, sed aliquet vehicula, lectus tellus pulvinar neque, non cursus sem nisi vel augue.

### This is another nested column

Lore ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur.

Style

Layout

DOM

Options

```
div.colborder { screen.css (line 176)
  border-right: 1px solid #EEEEEE;
  margin-right: 25px;
  padding-right: 24px;
}
```

```
.column, div.span-1,
div.span-2, div.span-3,
div.span-4, div.span-5,
div.span-6, div.span-7,
div.span-8, div.span-9,
div.span-10, div.span-11

```

You may pick and choose amongst these and many more features, so be bold.

# Blueprint CSS Framework

## A simple sample page

This sample page demonstrates a tiny fraction of what you get with Blueprint.

### Here's a box

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip.

### And another box

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea.

### This box is aligned with the sidebar

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea.



orci eu imperdiet malesuada, nisl purus fringilla odio, odio tincidunt nulla. Cras in libero. Aenean rutrum, m  
convallis est tortor blandit ligula. Nulla id augue.

Nullam mattis, odio ut tempus facilisis, metus n  
mauris. Vestibulum odio erat, fermentum at, commo  
sagittis condimentum, sem nulla aliquam velit, sed in  
Aenean aliquet magna eget orci. Class aptent taciti s

Vivamus euismod. Cum sociis natoque penatibus  
mus. Suspendisse vel nibh ut turpis dictum sagittis,  
neque lacinia pretium. Quisque nunc erat, venenatis  
Pellentesque habitant morbi tristique senectus et net  
Morbi dignissim sollicitudin libero. Nulla lorem.

Integer cursus ornare mauris. Praesent nisl arcu,  
sagittis erat sed velit tempus Imperdiet. Ut tristique  
quis rutrum mauris lorem quis sem. Vestibulum lis  
suscipit placerat odio. Class aptent taciti socios  
hymenaeos. Pellentesque tortor libero, venenatis

Maecenas vel metus quis magna pharetra fermentum. Integer sit amet tortor. Maecenas porttitor, pede sed  
gravida auctor, nulla augue aliquet elit, at pretium urna orci ut metus. Aliquam in dolor. Vestibulum ante ipsum  
primis in faucibus orci luctus et ultrices posuere cubilia Curae; Sed aliquam, tellus id ornare posuere, quam  
nunc accumsan turpis, at convallis tellus orci et nisl. Phasellus congue neque a lorem.

### This is a nested column

Lorem ipsum dolor sit amet, consectetur  
adipisicing elit, sed do eiusmod tempor incididunt  
ut labore et dolore magna aliqua. Ut enim ad  
minim veniam, quis nostrud exercitation ullamco  
laboris nisi ut aliquip ex ea commodo consequat.  
Duis aute irure dolor in reprehenderit in voluptate  
velit esse cillum dolore eu fugiat nulla pariatur.

This sample page demonstrates a tiny fraction of what you get with Blueprint.

Layout is specified by using  
style classes that denote layout.

“span-7” means span 7 grid columns.

“colborder” means provide one grid  
column to the right as a border.

```
Inspect Edit | div.span-7 < div.con...  
Console HTML CSS Script DOM Net  
<hr>  
    <h2 class="alt">This sample page demonstrates a tiny fraction of what you get with Blueprint.</h2>  
    <hr>  
    <div class="span-7 colborder">  
        <h3>Here's a box</h3>  
        <p>Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur.  
    </div>  
    <div class="span-8 colborder">
```

This box is aligned with the sidebar  
 Lorem ipsum dolor sit amet, consectetur  
adipisicing elit, sed do eiusmod tempor incididunt  
ut labore et dolore magna aliqua. Ut enim ad  
minim veniam, quis nostrud exercitation ullamco  
laboris nisi ut aliquip.

```
Style Layout DOM Options  
div.colborder { screen.css (line 176)  
    border-right: 1px solid #EEEEEE;  
    margin-right: 25px;  
    padding-right: 24px;  
}  
  
.column, div.span-1,  
div.span-2, div.span-3,  
div.span-4, div.span-5,  
div.span-6, div.span-7,  
div.span-8, div.span-9,  
div.span-10, div.span-11
```

You may pick and choose amongst these and many more features, so be bold.

# Blueprint

v.0.7.1



Blueprint CSS version 0.7.1 (<http://code.google.com/p/blueprintcss/>)  
 Copyright © 2007-2008 Olav Bjorkoy (<http://bjorkoy.com>)  
 Cheat sheet v.1.1 by Gareth J M Saunders, based on Help Sheet v.0.3 by Alejandro Vasquez

## SPAN CLASSES

Use these classes to set the width of a column

span-1	span-13
span-2	span-14
span-3	span-15
span-4	span-16
span-5	span-17
span-6	span-18
span-7	span-19
span-8	span-20
span-9	span-21
span-10	span-22
span-11	span-23
span-12	span-24

## APPEND CLASSES

Add these to a column to append empty columns.

append-1	append-13
append-2	append-14
append-3	append-15
append-4	append-16
append-5	append-17
append-6	append-18
append-7	append-19
append-8	append-20
append-9	append-21
append-10	append-22
append-11	append-23
append-12	

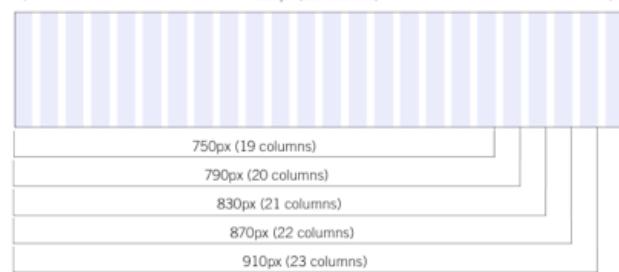
## PREPEND CLASSES

Add these to a column to prepend empty columns.

prepend-1	prepend-13
prepend-2	prepend-14
prepend-3	prepend-15
prepend-4	prepend-16
prepend-5	prepend-17
prepend-6	prepend-18
prepend-7	prepend-19
prepend-8	prepend-20
prepend-9	prepend-21
prepend-10	prepend-22
prepend-11	prepend-23
prepend-12	

## GRID

If you need more or fewer columns use this formula to find the new total width:  
 total width = (columns \* 40) - 10



950px (24 columns)

750px (19 columns)

790px (20 columns)

830px (21 columns)

870px (22 columns)

910px (23 columns)

## GRID CLASSES

- .container A container should group all your columns; use on <div>.
- .showgrid Use this on any div.span / container to see the grid.
- .border Shows a border on the right hand side of a column; use on <div>.

## html

- reset.css
- grid.css
- typography.css
- forms.css
- ie.css

## RESET

Blueprint CSS resets all browsers' default tags to :

- margin, padding, border: 0
- font-size: 100%
- font-weight: normal
- other font values: inherit
- image borders: 0

Tables still need "cellspacing="0" in the mark-up though.

## TYPOGRAPHY CLASSES

These classes are defined in the typography.css file. Other typographic tags as also redefined in this file.

.small	0.8em; line 1.875
.large	1.2em; line 2.5
.hide	display: none
.quiet	color 666 (grey)
.loud	color 000 (black)
.highlight	bg f10 (yellow)
.added	bg 060 (green)
.removed	bg 900 (red)
.first	mL 0; pL 0
.last	mR 0; pR 0
.top	mT 0; pT 0
.bottom	mB 0; pB 0

## FORMS

These are defined in the forms.css file.

.error	red framed box
.notice	yellow framed box
.success	green framed box
input.text	w 300px pad 5px
input.title	font-size 1.5em
textarea	w 390px h 250px
select	w 200px
label	bold
fieldset	padding 1.4em
legend	font-size 1.2em



# Blueprint

v.0.7.1

Blueprint CSS version 0.7.1 (<http://code.google.com/p/blueprintcss/>)

Copyright © 2007-2008 Olav Bjorkoy (<http://bjorkoy.com>)

Cheat sheet v.1.1 by Gareth J M Saunders, based on Help Sheet v.0.3 by Alejandro Vasquez

grid.css
typography.css
forms.css
ie.css

span-1	span-13
span-2	span-14
span-3	span-15
span-4	span-16
span-5	span-17
span-6	span-18
span-7	span-19
span-8	span-20
span-9	span-21
span-10	span-22
span-11	span-23
span-12	span-24

## STYLESHEET LINK

Download the latest version from <http://code.google.com/p/blueprintcss/> and add these lines into the <head> of your page. Check that your href path is correct.

```
<link rel="stylesheet" href="blueprint/screen.css" type="text/css"
      media="screen, projection">
<link rel="stylesheet" href="blueprint/print.css" type="text/css"
      media="print">
<!--[if IE]>
<link rel="stylesheet" href="blueprint/ie.css" type="text/css"
      media="screen, projection">
<![endif]-->
```

## APPEND CLASSES

Add these to a column to append empty columns.

append-1	append-13
append-2	append-14
append-3	append-15
append-4	append-16
append-5	append-17
append-6	append-18
append-7	append-19
append-8	append-20
append-9	append-21
append-10	append-22
append-11	append-23
append-12	

## USAGE

```
<body>
  <div class="container">
    <div class="span-15">
      <p>Column 1</p>
    </div>
    <div class="span-6 last">
      <p>Column 2</p>
    </div>
  </div>
</body>
```

div.span-x now implies a column. Remember to use "last" for the last column of the row to avoid it jumping to the next row. Columns can be nested inside one another.

## TYPOGRAPHY

typographic.css sets up some sensible default typography. The font-size percentage is of 16px (0.75 \* 16px = 12 px). Line-heights and vertical margins are automatically calculated from this in ems.

The base line-height is 18px (1.5ems). This means that every element, from line-heights to images have a height that is a multiple of 18 (or 1.5 if you use ems).

Color is #222 (dark grey); font-family is "Helvetica Neue", "Helvetica", "Arial", sans-serif; Also defines tables, lists and misc. classes.

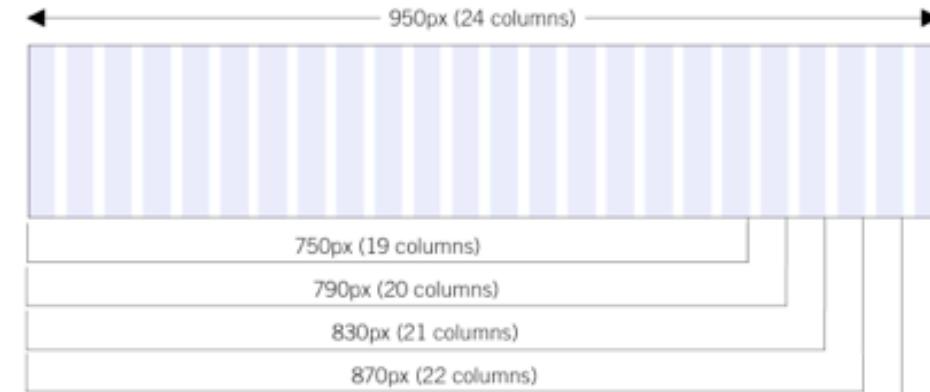
## PREPEND CLASSES

Add these to a column to prepend empty columns.

prepend-1	prepend-13
prepend-2	prepend-14
prepend-3	prepend-15
prepend-4	prepend-16
prepend-5	prepend-17
prepend-6	prepend-18

## GRID

If you need more or fewer columns use this formula to find the new total width:  
total width = (columns \*40) - 10



## RESET

Blueprint CSS resets all browsers' default tags to :  
- margin, padding, border: 0  
- font-size: 100%  
- font-weight: normal  
- other font values: inherit  
- image borders: 0

Tables still need "cellspacing="0" in the mark-up though.

## TYPOGRAPHY CLASSES

These classes are defined in the [typography.css](#) file. Other typographic tags as also redefined in this file.

.small	0.8em; line 1.875
.large	1.2em; line 2.5
.hide	display: none
.quiet	color 666 (grey)
.loud	color 000 (black)
.highlight	bg ff0 (yellow)
.added	bg 060 (green)
.removed	bg 900 (red)
.first	mL 0; pL 0
.last	mR 0; pR 0
.top	mT 0; pT 0
.bottom	mB 0; pB 0

## FORMS

These are defined in the [forms.css](#) file.

.error	red framed box
.notice	yellow framed box
.success	green framed box
input.text	w 300px pad 5px

# Blueprint Grid CSS Generator

Version: v.0.7.1 (2008-02-25)

## INTRODUCTION:

This tool will help you generate more flexible versions of [Blueprint's](#) grid.css and compressed.css and grid.png files. Whether you prefer **8, 10, 16 or 24 columns** in your design, this generator now enables you that flexibility with [Blueprint](#).

**Updated to version 0.7.1!** Please Note! The default Blueprint CSS files are already generated for you to copy below.

## USAGE:

1. Enter your desired **number of columns**.
2. Your **column width**.
3. Enter the width of your **margin**.
4. Enter the desired **page width**.
5. Click 'Generate CSS' button and copy the results from the **Generated Code** section.

## Generator Form:

### Number of Columns:

 - +

« Fit

### Column Width:

 px

« Fit

### Margin Width:

 px

« Fit

### Total Page Width:

### Desired Page Width:

 px

**Generate CSS**

**Reset**

## Generated Code:

Click in the text area below to copy all the CSS code and save your versions of grid.css, compressed.css and grid.png. Click tabs below to switch between files.

Grid.css      Compressed.css      Grid.png

```
/*
 * -----
 * BLUEPRINT CSS
 * * Filename:           grid.css
 * * Version:            0.7.1 (2008-02-25) YYYY-MM-DD
 * * Website:           http://code.google.com/p/blueprintcss/
 *
 * Generated by:
 * * Blueprint CSS Grid Generator (2009-02-24) [http://kematzy.com
 * /blueprint-generator/]
 *
 * Based on work by:
 * * Olav Bjorkoy      [bjorkoy.com]
 * * Nathan Borror     [playgroundblues.com]
 * * Jeff Croft         [jeffcroft.com]
 * * Christian Motte   [minkshoe.com]
```

||| |||| ||~|||~||| ||||  
|| ||\_\_||\_||| |||| |||| |||

This is **Plumb**, a tool for composing web layouts for use with the [Blueprint CSS framework](#).

The screenshot shows the Plumb application's interface. At the top, there is a toolbar with icons for selection and zoom. Below the toolbar is a large area containing a grid of vertical columns. The columns are represented by light gray rectangles of varying widths, separated by thin white vertical lines. This visual representation allows users to quickly assess the layout's structure. At the bottom of this grid area, there are three buttons with rounded corners: "Recognize & test" (light blue), "Get HTML" (light green), and "Get debugging info" (light orange). The overall design is clean and minimalist.

Recognize & test

Get HTML

Get debugging info

Plumb was made by [Michael Daines](#). The code is hosted at [GitHub](#).



# YUI Grid Builder

**YUI CSS Grid Builder**

Body Size: 750px

Body Columns: No Columns

Split Content:

Row: 1 Column (100)

Add Row

Accessibility:

Use ARIA Landmark Roles

Show Reading Order

Set Header Content

Set Footer Content

Show Code

Reset

[Return to Docs](#)

**Header** role: banner Order 1

Header content: Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Maecenas sit amet metus. Nunc quam elit, posuere nec, auctor in, rhoncus quis, dui. Aliquam erat volutpat. Ut dignissim, massa sit amet dignissim cursus, quam lacus feugiat.

**Footer** role: contentinfo Order 3

Footer content:



# YUI Grid Cheat Sheet



## YUI Library: CSS Reset, Base, Fonts, and Grids

2009-2-6

v2.7

### Recommended Doctype and Render Mode

YUI works in both "Quirks" and "Standards/Strict" browser-rendering modes, but we suggest using Standards mode by specifying this Doctype:

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN"
 "http://www.w3.org/TR/html4/strict.dtd">
```

### YUI CSS Reset + YUI CSS Base

YUI CSS Reset neutralizes browser CSS styles for HTML elements, creating a normalized platform. YUI CSS Base then rebuilds a consistent style foundation for common HTML elements. YUI CSS Base is also useful as a snippets library, for instance to see how to put bullets back on UL/LIs.

### YUI CSS Fonts: Setting Font Size and Family

**Font-size:** While still allowing users to zoom their font sizes, the YUI Fonts package renders all text at 13px by default. To preserve users' ability to zoom their fonts, specify other sizes using percentages only (see top chart in right column).

```
selector {font-size:123.1%} /*16px/
```

**Font-family:** The YUI Fonts package defines Arial as the default font and provides a degradation path through several alternate fonts down to the generic "sans-serif." When specifying other font families, provide your own degradation path as needed.

```
<style>selector {font-family:verdana,sans-serif;}</style>
```

### Base Page Format

We find it useful to build a page in three stacked horizontal regions:

```
<body>
  <div id="doc"><!--overall document wrapper-->
    <div id="hd"><!--header / masthead--></div>
    <div id="bd"><!--body--></div>
    <div id="ft"><!--footer--></div>
  </div>
</body>
```

Inside #bd, if two blocks (.yui-b) exist, designate a main block by wrapping it with <div id="yui-main":>

```
<div id="yui-main">
  <div class="yui-b"><!--primary--></div>
</div>
<div class="yui-b"><!--secondary--></div>
```

### YUI CSS Grids: Nomenclature

#doc – #doc4	Define the overall width of the page. doc 750px, doc2 950px, doc3 100%, doc4 974px,
.yui-t1 – .yui-t6	Six preset template for secondary column size & side. (see right column, bottom chart)
.yui-g	Basic grid (.yui-g) tells two units (.yui-u) to share.
.yui-gb – .yui-gf	Special grids (.yui-gb ... .yui-gf) are for three-unit and uneven two-unit space sharing. (see right column, middle chart)
.yui-u	A unit inside a grid; generic; obeys parent grid.
.first	Overload the class attribute with "first" to indicate first of a series of grids or units. (This facilitate floats and margins.)

### Customize Page Width

Pixels / 13 = width in ems. For IE, pixels / 13.333. Use star-property filter to target IE. For example, this sets 610px:

```
#custom-doc {
  width:46.923em; /* 610/13 */
  *width:45.750em; /* 610/13.333 */
}
```

### The Basic Grid Pattern

```
<div class="yui-g">
  <div class="yui-u first"></div>
  <div class="yui-u"></div>
</div>
```

### The Nested Grid Pattern

```
<div class="yui-g">
  <div class="yui-g first">
    <div class="yui-u first"></div>
    <div class="yui-u"></div>
  </div>
  <div class="yui-g">
    <div class="yui-u first"></div>
    <div class="yui-u"></div>
  </div>
</div>
```

### Fonts Sizing Chart

For this PX	Use this percentage:
10	77
11	85
12	93
13	100
14	108
15	116
16	123.1
17	131
18	138.5
19	146.5
20	153.9
21	161.6
22	167
23	174
24	182
25	189
26	197

### Grids: Nesting Grids (yui-g's)

.yui-g	1/2, 1/2
.yui-gb	1/3, 1/3, 1/3
.yui-gc	2/3, 1/3
.yui-gd	1/3, 2/3
.yui-ge	3/4, 1/4
.yui-gf	1/4, 3/4

Other configurations, such as 1/4, 1/4, 1/4, 1/4 can be rendered by nesting yui-g's inside other "yui-g" grids.

### Grids: Templates (yui-t's)

.yui-t1	160 on left
.yui-t2	180 on left
.yui-t3	300 on left
.yui-t4	180 on right
.yui-t5	240 on right
.yui-t6	300 on right



## doctype and Render Mode

works" and "Standards/Strict" browser-  
we suggest using Standards mode by  
pe:  
 PUBLIC "-//W3C//DTD HTML 4.01//EN"  
 .org/TR/html4/strict.dtd">

## YUI CSS Base

lizes browser CSS styles for HTML  
ormalized platform. YUI CSS Base then  
tyle foundation for common HTML elements.  
useful as a snippets library, for instance to  
back on UL LIs.

## etting Font Size and Family

llowing users to zoom their font sizes, the  
nders all text at 13px by default. To preserve  
heir fonts, **specify other sizes using**  
*(the top chart in right column)*.

```
size:123.1%;} /*16px*/
```

Fonts package defines Arial as the default  
gradation path through several alternate  
ric "sans-serif." When specifying other font  
own degradation path as needed.

```
font-family:verdana,sans-
```

t

d a page in three stacked horizontal regions:

```
<!--overall document wrapper-->
<--><!--header / masthead--></div>
<--><!--body--></div>
<--><!--footer--></div>
```

## YUI CSS Grids: Nomenclature

#doc – #doc4	Define the overall width of the page. .doc 750px, .doc2 950px, .doc3 100%, .doc4 974px,
.yui-t1 – .yui-t6	Six preset template for secondary column size & side. (see right column, bottom chart)
.yui-g	Basic grid (.yui-g) tells two units (.yui-u) to share.
.yui-gb – .yui-gf	Special grids (.yui-gb ... .yui-qf) are for three-unit and uneven two-unit space sharing. (see right column, middle chart)
.yui-u	A unit inside a grid; generic; obeys parent grid.
.first	Overload the class attribute with "first" to indicate first of a series of grids or units. (This facilitate floats and margins.)

## Customize Page Width

Pixels / 13 = width in ems. For IE, pixels / 13.333. Use star-property filter to target IE. For example, this sets 610px:

```
#custom-doc {
  width:46.923em; /* 610/13 */
  *width:45.750em; /* 610/13.333 */
}
```

## The Basic Grid Pattern

```
<div class="yui-g">
  <div class="yui-u first"></div>
  <div class="yui-u"></div>
</div>
```

## The Nested Grid Pattern

```
<div class="yui-g">
  <div class="yui-g first">
    <div class="yui-u first"></div>
    <div class="yui-u"></div>
  </div>
  <div class="yui-g">
    <div class="yui-u first"></div>
    <div class="yui-u"></div>
  </div>
```

## Fonts Sizing C

For this PX	Use this percentage
10	77
11	85
12	93
13	100
14	108
15	116
16	123.1
17	131
18	138.5
19	146.5
20	153.9
21	161.6
22	167
23	174
24	182
25	189
26	197

## Grids: Nesting (yui-g's)

.yui-g	1/2,
.yui-gb	1/3,
.yui-gc	2/3,
.yui-gd	1/3,
.yui-ge	3/4,
.yui-gf	1/4,

Other configurations as  $\frac{1}{4}$ ,  $\frac{1}{5}$ ,  $\frac{1}{6}$ ,  $\frac{1}{7}$  can be rendered by nesting inside other "yui-g" s

## Grids: Templates (yui-t's)

.yui-t1	160
.yui-t2	180
.yui-t3	300
.yui-t4	180

# 960 Grid



# Black Estate

## Black

Black Estate is a remarkable place for wine.

A family owned vineyard on the warm, sunny slopes of the Waipara Valley, where the vines grow through clay and limestone soils to produce intense wines completely expressive of this site.

Our wines are hand crafted using old world techniques and a dedication to creating exceptional Waipara Pinot Noir, Chardonnay and Riesling.

Vineyard  
Omahi, Waipara, New Zealand.

## onehub

Create a free Hub

Share files and collaborate with others in a matter of minutes.

Enter your email address Choose a password

Now Log In

A Masterpiece in Usability and Design »

"It's not often that every once in a while, you get your hands on something special. Software should be simple, easy-to-navigate, with functionality that anticipates what the user wishes to do next, therefore it's a breath of fresh air and has exactly what a user needs in building out a project site that they would be proud to invite their clients to."

– Douglas Karr

Learn More About OneHub

FROM OUR BLOG

- 1. [How to Setup a Client Extrant with OneHub](#)
- 2. [How to Add a Login Form to Your Website](#)
- 3. [How To Setup a Client Extrant with OneHub](#)

How To Setup a Client Extrant with OneHub

Top 10 Reasons to Use OneHub as an FTP Replacement

2 days ago @metabolabs Absolutely! We'll look at the checklist. If you find any other bugs, email support@onehub.com and we'll check them out.

Follow us on Twitter

# 960 Grid



A screenshot of the Black Estate Vineyard website. The header features the text "Estate Black" and "Black Estate". The main content area has a dark red background with white text. It includes a sidebar with links like "Top Vineyard", "Wines", "Wine Library", "Black List", "Contact", and "Region". The main content discusses the vineyard's history and wine production, mentioning "Black Estate is a remarkable place for wine." and "Our vines are hand-crafted using organic techniques and a dedication to creating exceptional wines from New Zealand's Marlborough and Hawke's Bay regions." A video player is present, showing a vineyard scene. A sidebar on the right shows "Latest News" with a small image of a vineyard and the text "Our first vintage...". At the bottom, it says "Omaha, Waipara, New Zealand.".

A screenshot of the Onehub website. The header features the "onehub" logo and navigation links for "HOME", "TOUR", "FEATURES", "PRICING", "SUPPORT", "BLOG", and "ABOUT". The main section is titled "Create a free Hub" with the subtext "Share files and collaborate with others in a matter of minutes." It includes a "SIGN UP" button and fields for "Enter your email address" and "Choose a password". Below this, there are sections for "A Masterpiece in Usability and Design", "Customize", "Share Video", "Collaborate", and "Share Files". The footer includes a "FROM OUR BLOG" section with links to "Add a Onehub Login Form to Your Website!", "How To Setup a Client Extrant with Onehub!", and "Top 10 Reasons to Use Onehub as an FTP Replacement!". There are also social media links for "Follow us on Twitter" and "Follow us on Facebook".

# 960 Grid



A screenshot of the Black Estate Vineyard website. The header features the text "Estate Black". The main content area includes a section about the vineyard's history and a photo of the vines, followed by a "Latest News" section with a small image of a vineyard. A sidebar on the left lists navigation links: Top, Vineyard, Wine, Workshops, Black List, Contact, and Region. At the bottom, it says "Omahi, Waipara, New Zealand." The background has a subtle grid pattern.

A screenshot of the OneHub website. The header features the text "OneHub". The main content area includes a "Create a free Hub" section with fields for email address and password, and a "A Masterpiece in Usability and Design" section with a quote from Steve Jobs. The footer contains various links and social media icons.

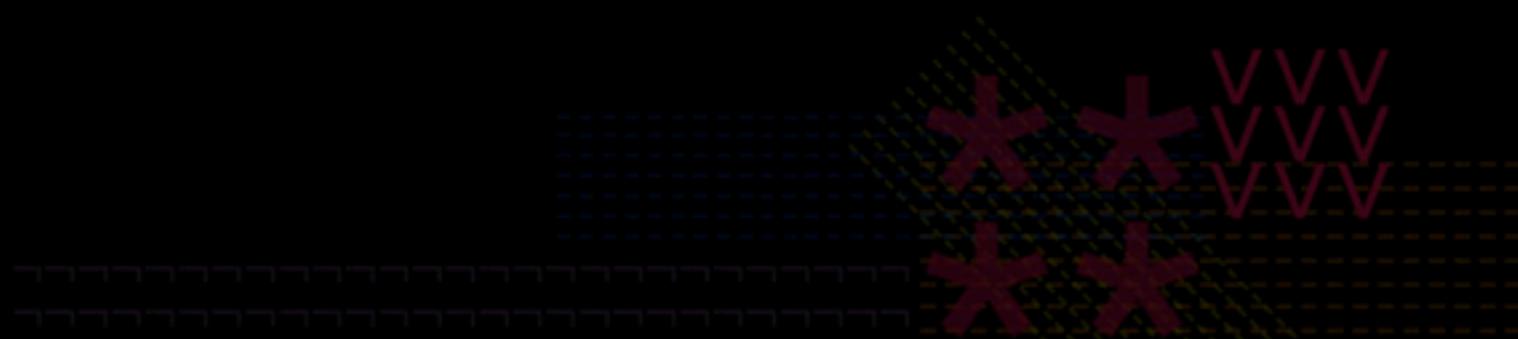


# Why 960?

960 is divisible by 2, 3, 4, 5, 6, 8, 10, 12, 15, 16, 20, 24, 30, 32, 40, 48, 60, 64, 80, 96, 120, 160, 192, 240, 320 and 480.

This makes it a highly flexible base number to work with

You can also make Blueprint a 960 grid system as well



# 960 gs Fluid

A derivative that supports fluid layout

## Fluid 960 Grid System

Menu 1 Menu 2 Menu 3 Menu 4 Secondary Menu Item

### Page Heading

#### 12-COLUMN GRID

MOOTOOLS FX.ELEMENTS

One Two Three

#### PARAGRAPHS

#### AJAX CONTENT

#### SECTION MENU

MENU 1

- Submenu 1
- Submenu 2
- Submenu 3
- Submenu 4
- Submenu 5

MENU 2

MENU 3

MENU 4

#### LIST ITEMS

Done YSlow 1.532s 1531 ms

Design Process

### The Value of Design

Design is based on the inspiration of past accomplishments. On that foundation, we can build upon those achievements to shape the future. Design is about life — past, present and future — and the learning process that happens between birth and death. It is about community and shared knowledge and experience. It is the passion to build on what we've learned to create something better.

Design Influences

Inspiration

Contribution

#### BLOCKQUOTE

Lorem ipsum dolor sit amet, consectetuer adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat. Ut wisi enim ad minim veniam, quis nostrud exerci tation

# Making it Semantic

Criticism: non-semantic naming

There are tools for making blueprint semantic

Boilerplate

<http://code.google.com/p/css-boilerplate/>

Blueprint's compress.rb

[http://jdclayton.com/blueprints\\_compress\\_a\\_walkthrough.html](http://jdclayton.com/blueprints_compress_a_walkthrough.html)

Semantify

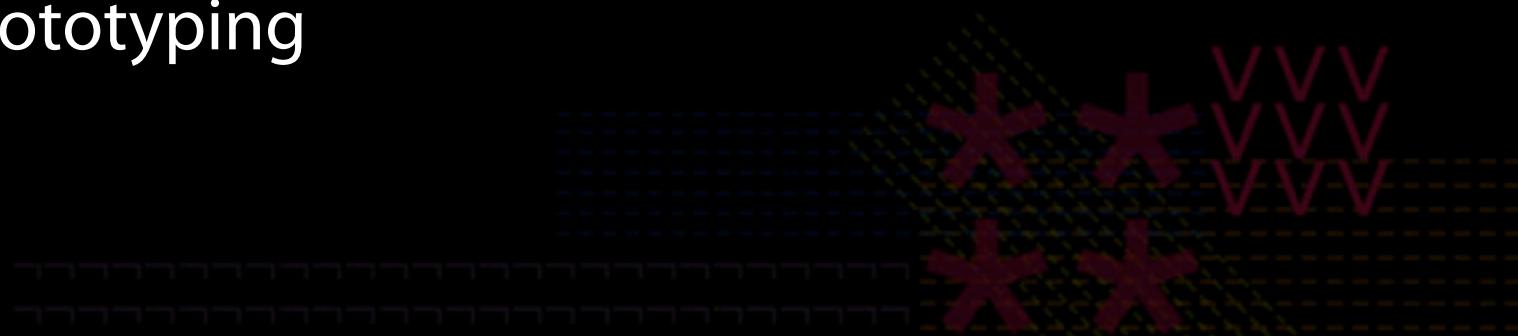
<http://lab.christianmontoya.com/read/>

<http://www.christianmontoya.com/2007/11/10/semantify-and-css-tools-based-on-blueprint/>

CSS Mixin for PHP

<http://habilis.net/cssmixin/>

Non-issue for prototyping



# Style Techniques

Use CSS Reset

Keep structure, style and logic separate

Avoid any direct styles or html style tags (font, etc.)

Appropriate Markup

H1 Does Not Mean "Big, Bold, and Ugly"

A Paragraph Is a Paragraph

List Mania

Keep DIV elements to a minimum

Use px for font-sizes (avoids nesting difficulties)

Minimize selectors

Extend objects by applying multiple classes to an element

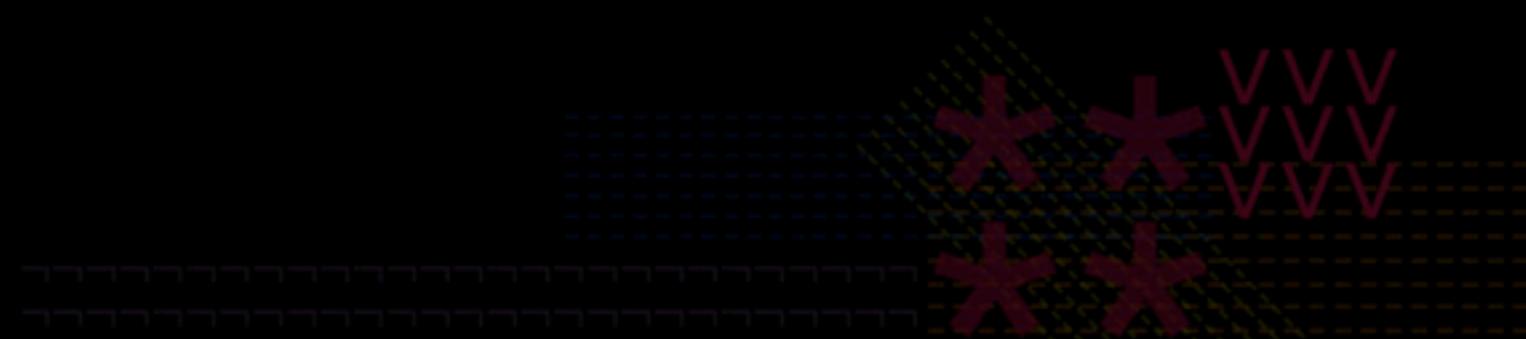




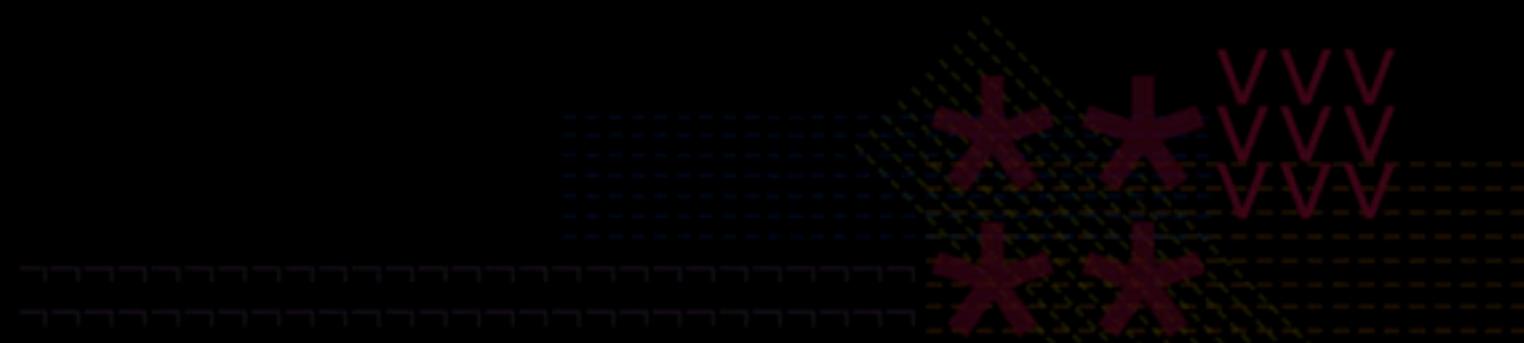
# Behavior

Making the page come alive\*

*\*as quickly as possible*



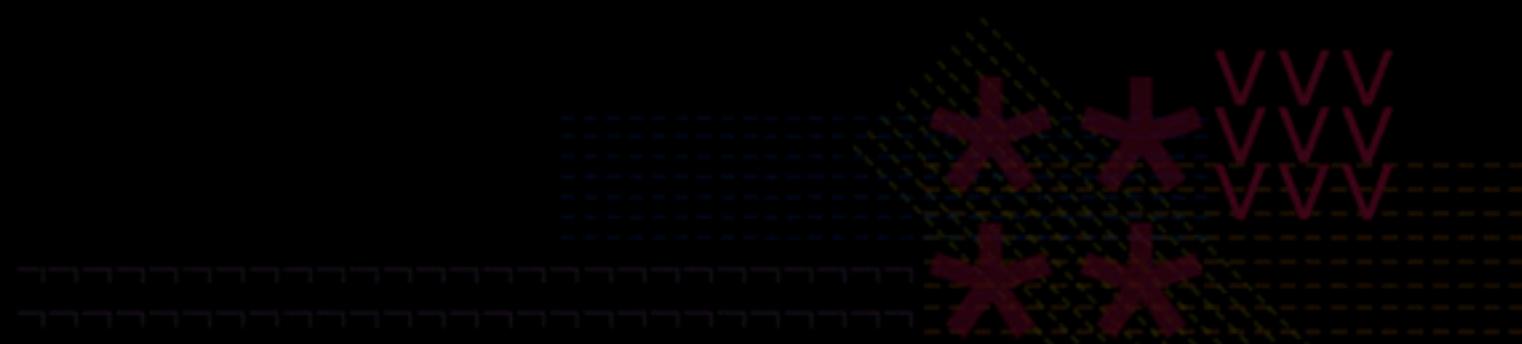
# Anatomy of an Interaction



# Anatomy of an Interaction

## Page Element

Target an element or elements  
for attaching events & behaviors.



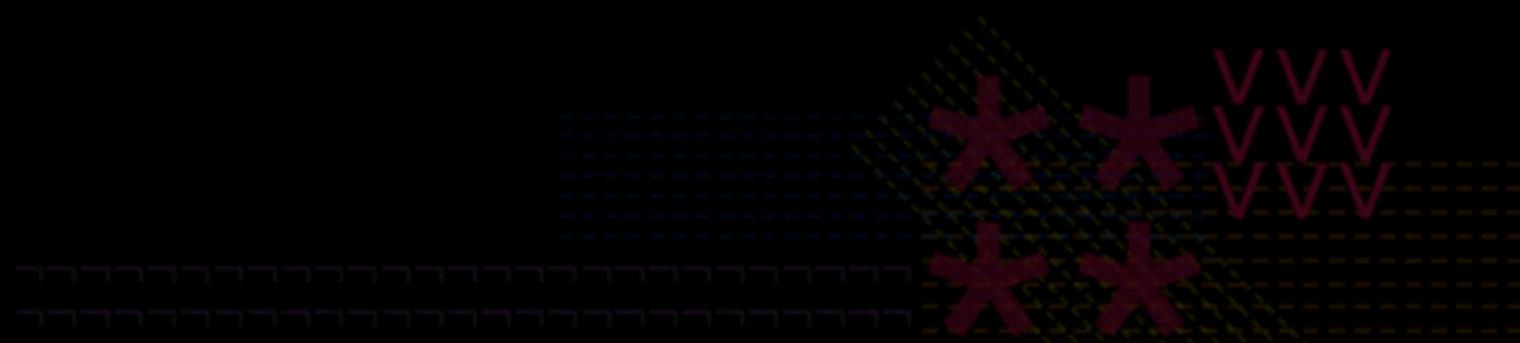
# Anatomy of an Interaction

## Page Element

Target an element or elements  
for attaching events & behaviors.

## Event Handler

Events are the glue between the user and  
behaviors. They start behaviors.



# Anatomy of an Interaction

## Page Element

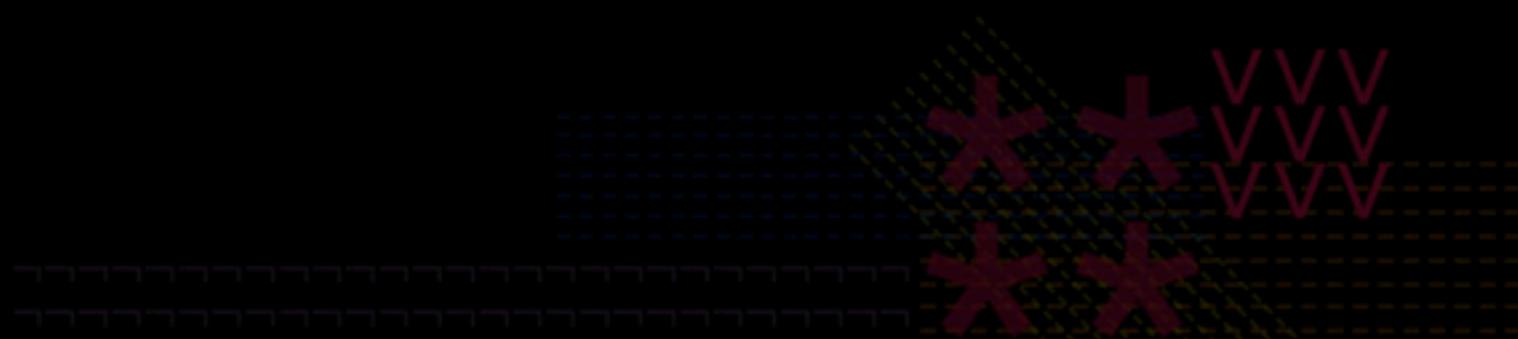
Target an element or elements  
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## Event Handler

Events are the glue between the user and  
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## Behavior

Blocks of logic, patterns, actions that  
operate on elements.



# Anatomy of an Interaction

## Page Element

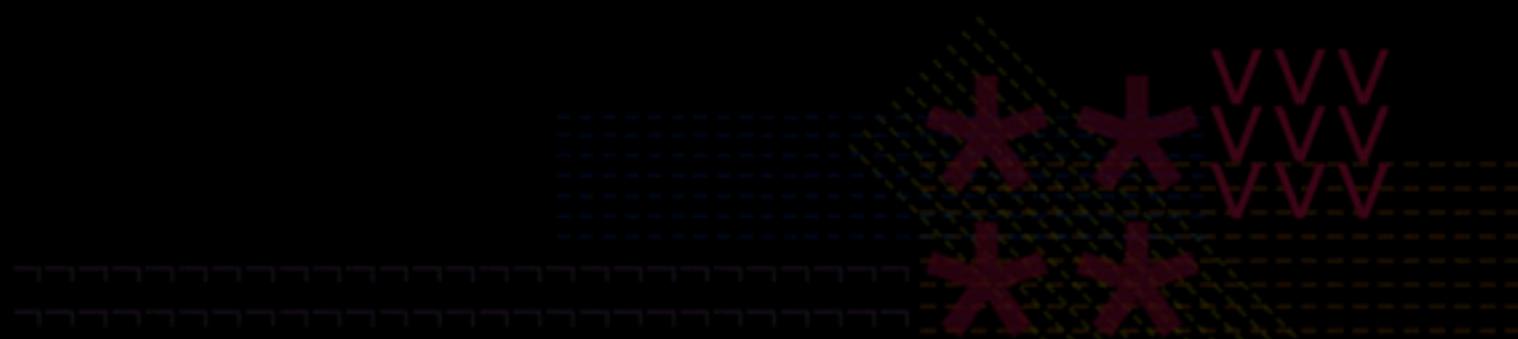
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# Anatomy of an Interaction

## Page Element

Target an element or elements for attaching events & behaviors.

## Event Handler

Events are the glue between the user and behaviors. They start behaviors.

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Blocks of logic, patterns, actions that operate on elements.



# Anatomy of an Interaction

## Page Element

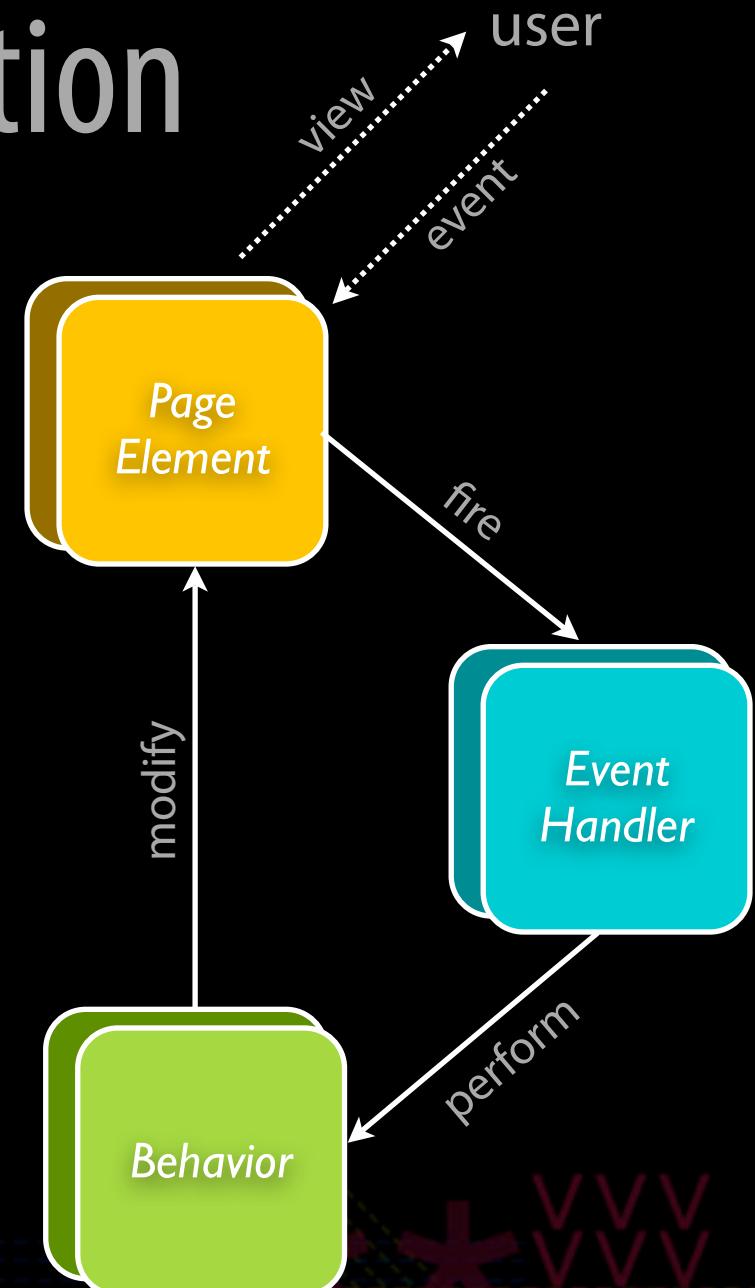
Target an element or elements for attaching events & behaviors.

## Event Handler

Events are the glue between the user and behaviors. They start behaviors.

## Behavior

Blocks of logic, patterns, actions that operate on elements.



# Anatomy of an Interaction

## Page Element

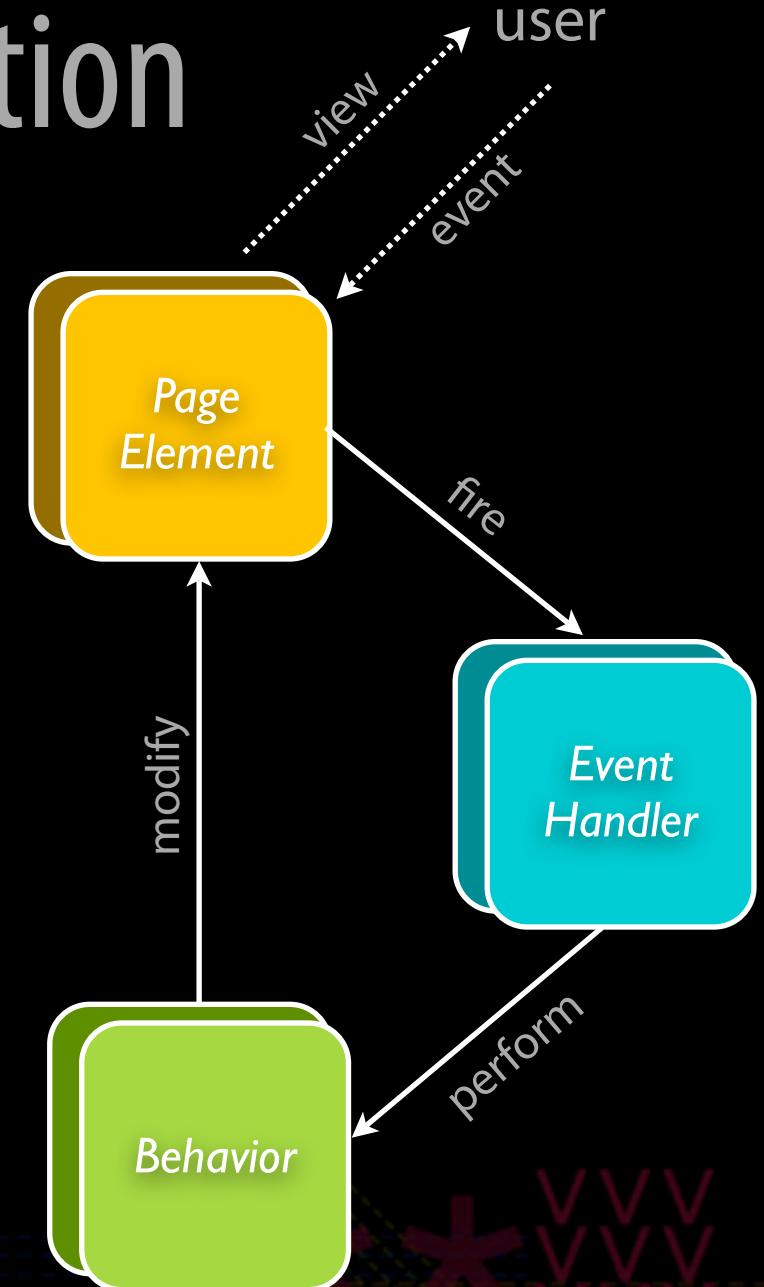
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## Event Handler

Events are the glue between the user and behaviors. They start behaviors.

## Behavior

Blocks of logic, patterns, actions that operate on elements.



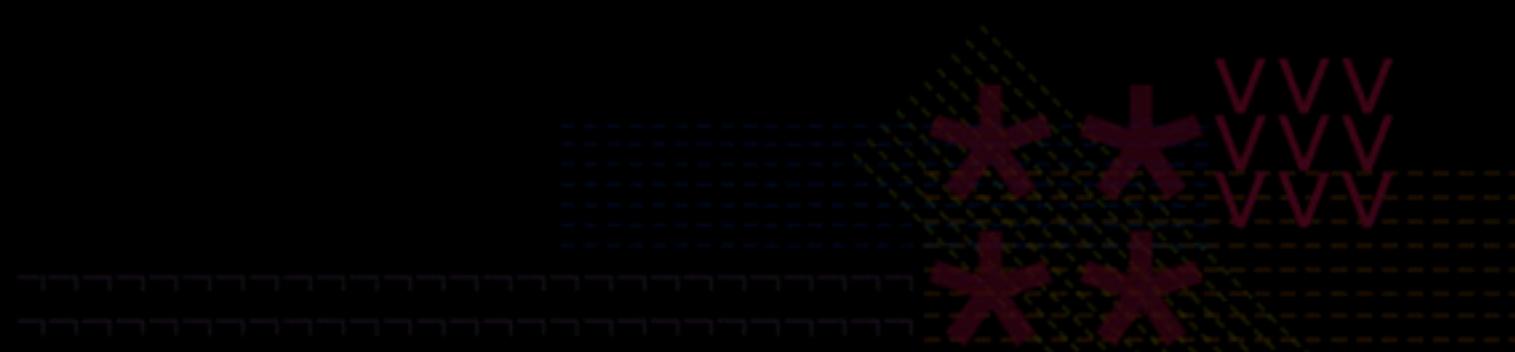
“Keep interaction, objects and behavior separate”

# Behavior Injection

Tying behavior to elements in the markup tightly couples behavior (also non-semantic)

Avoid onclick="someAction()"

Instead associate actions with matched elements



# Behavior Injection

By rendering all panels hidden & showing with JS

```
<form id="login" action="">
  <!-- Without Errors-->
  <div class="noerrors">
    <p><label>Username: </label><input type="text" name="username"/></p>
    <p><label>Password: </label><input type="password" name="password"/></p>
    <input type="submit" value="Submit" />
  </div>

  <!-- With Errors-->
  <div class="errors">
    <p class="error">Password doesn't match.</p>
    <p><label>Username: </label><input type="text" name="username"/></p>
    <p><label>Password: </label><input type="password" name="password"/></p>
    <input type="submit" value="Submit" />
  </div>

  <!-- Forgot Password-->
  <div class="forgotten">
    <p>Provide your email and we'll send you a new password.</p>
    <p><label>Email Address: </label><input type="text" name="email"/></p>
    <input type="submit" value="Send New Password" />
  </div>
</form>
```

Example courtesy Kevin Hale's article on Ajax Wireframing Approaches

# Behavior Injection

.noerrors, .errors, .forgotten:  
  {display:none;}

By rendering all panels hidden & showing with JS

```
<form id="login" action="">
  <!-- Without Errors-->
  <div class="noerrors">
    <p><label>Username: </label><input type="text" name="username"/></p>
    <p><label>Password: </label><input type="password" name="password"/></p>
    <input type="submit" value="Submit" />
  </div>

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    <p><label>Username: </label><input type="text" name="username"/></p>
    <p><label>Password: </label><input type="password" name="password"/></p>
    <input type="submit" value="Submit" />
  </div>

  <!-- Forgot Password-->
  <div class="forgotten">
    <p>Provide your email and we'll send you a new password.</p>
    <p><label>Email Address: </label><input type="text" name="email"/></p>
    <input type="submit" value="Send New Password" />
  </div>
</form>
```

Example courtesy Kevin Hale's article on Ajax Wireframing Approaches

# Behavior Injection

.noerrors, .errors, .forgotten:  
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```
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    <p><label>Username: </label><input type="text" name="username"/></p>
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    <input type="submit" value="Submit" />
  </div>

  <!-- Forgot Password-->
  <div class="forgotten">
    <p>Provide your email and we'll send you a new password.</p>
    <p><label>Email Address: </label><input type="text" name="email"/></p>
    <input type="submit" value="Send New Password" />
  </div>
</form>
```

\$(".errors").show();

Example courtesy Kevin Hale's article on Ajax Wireframing Approaches

# Behavior Injection: 960gs Fluid

## 960 Grid System

Menu 1   Menu 2   Menu 3   Menu 4

Secondary Menu Item

### 16 Fluid Column Grid JQuery

#### STANDING ON THE SHOULDERS OF GIANTS

This template is only possible due to the hard work of many people who contributions have made the Internet a usable and beautiful place. I am pleased share my work, to help continue that trend.

#### KWICKS

One

Two

Three

Four

#### PARAGRAPHS

#### ACCORDIAN

#### SEARCH

#### AJAX CONTENT

#### Design Process

Search

#### SECTION MENU

#### The Value of Design

#### MENU 1

Submenu 1

Submenu 2

Submenu 3

Submenu 4

#### Design Influences

#### Inspiration

Design is based on the inspiration of past accomplishments. On that foundation, we can build upon those achievements to shape the future. Design is about life — past, present and future — and the learning process that happens between birth and death. It is about community and shared knowledge and experience. It is the passion to build on what we've learned to create something better.

#### LOGIN FORMS

Login

Login to complete your purchase.

Username:



# Behavior Injection: 960gs Fluid

## 960 Grid System

Menu 1   Menu 2   Menu 3   Menu 4

Secondary Menu Item

```
<ul class="nav main">
    <li><a href="#">Menu 1</a>
        <ul>
            <li><a href="#">Submenu 1</a></li>
            <li><a href="#">Submenu 2</a></li>
            <li><a href="#">Submenu 3</a></li>
            <li><a href="#">Submenu 4</a></li>
            <li><a href="#">Submenu 5</a></li>
        </ul>
    </li>
    <li><a href="#">Menu 2</a>
        <ul>
```

internet a usable and beautiful place. I am pleased share my

tree      Four

PARAGRAPHS

ACCORDIAN

SEARCH

AJAX CONTENT

Design Process

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SECTION MENU

The Value of Design

MENU 1

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Submenu 4

Design Influences

Inspiration

LOGIN FORMS

Login

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Username:



# Behavior Injection: 960gs Fluid

960 Grid System

menu behavior tied to .nav & .main

```
<ul class="nav main">
  <li><a href="#">Menu 1</a>
    <ul>
      <li><a href="#">Submenu 1</a></li>
      <li><a href="#">Submenu 2</a></li>
      <li><a href="#">Submenu 3</a></li>
      <li><a href="#">Submenu 4</a></li>
      <li><a href="#">Submenu 5</a></li>
    </ul>
  </li>
  <li><a href="#">Menu 2</a>
    <ul>
```

Secondary Menu Item

Three Four

PARAGRAPHS

AJAX CONTENT

SECTION MENU

MENU 1

Submenu 1

Submenu 2

Submenu 3

Submenu 4

ACCORDIAN

Design Process

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Design is based on the inspiration of past accomplishments. On that foundation, we can build upon those achievements to shape the future. Design is about life — past, present and future — and the learning process that happens between birth and death. It is about community and shared knowledge and experience. It is the passion to build on what we've learned to create something better.

Design Influences

Inspiration

SEARCH

Search

LOGIN FORMS

Login

Login to complete your purchase.

Username:

# Behavior Injection: 960gs Fluid

menu behavior tied to .nav & .main

```
<ul class="nav main">
  <li><a href="#">Menu 1</a>
    <ul>
      <li><a href="#">Submenu 1</a></li>
      <li><a href="#">Submenu 2</a></li>
      <li><a href="#">Submenu 3</a></li>
      <li><a href="#">Submenu 4</a></li>
      <li><a href="#">Submenu 5</a></li>
    </ul>
  </li>
  <li><a href="#">Menu 2</a>
    <ul>
```

toggle open/close tied to .box

# Behavior Injection: 960gs Fluid

The image shows a website interface with a header containing "Menu 1", "Menu 2", "Menu 3", and "Menu 4". A yellow speech bubble points to the ".nav & .main" class in the following CSS code:

```
<ul class="nav main">
  <li><a href="#">Menu 1</a>
    <ul>
      <li><a href="#">Submenu 1</a></li>
      <li><a href="#">Submenu 2</a></li>
      <li><a href="#">Submenu 3</a></li>
      <li><a href="#">Submenu 4</a></li>
      <li><a href="#">Submenu 5</a></li>
    </ul>
  </li>
  <li><a href="#">Menu 2</a>
    <ul>
```

A yellow speech bubble also points to the ".box" class in the following CSS code:

```
.box {
  border: 1px solid #ccc;
  padding: 10px;
  width: 300px;
  height: 200px;
}
```

Below the header, there are several menu items: "Secondary Menu Item", "PARAGRAPHS", "AJAX CONTENT", "SECTION MENU", "MENU 1", "Submenu 1", "Submenu 2", "Submenu 3", and "Submenu 4". A yellow speech bubble points to the ".menu" class in the following CSS code:

```
.menu {
  list-style-type: none;
  padding-left: 0;
}
```

The main content area contains text about past accomplishments and future goals, followed by sections for "Design Influences" and "Inspiration".

# Protoscript

Experimental framework for behavior injection



# Example

Here's an example that fades & closes 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 close it when the fade completes.*



# Protoscript: Sprinkling in Behaviors



Bill Scott

Total Projects 12

Total Points 24

## My Portfolio

Sort by: Recent | Alpha | Points

### ▼ Project One

Lorem ipsum dolor sit amet, consectetuer 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.

[view](#) | [delete](#)

### ▼ Project Two

Quisque nunc. In ac urna egestas arcu egestas imperdiet. Donec id erat id nulla molestie venenatis. Nam a

[view](#) | [delete](#)

## Scratchpad



## My Portfolio

Sort by: Recent | Alpha | Points

### ▼ Project One

Lorem ipsum dolor sit amet, consectetuer 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.

[view](#) | [delete](#)

### ▼ Project Two

Quisque nunc. In ac urna egestas arcu egestas imperdiet. Donec id erat id nulla molestie venenatis. Nam a quam. Nulla ornare. Fusce dignissim ultricies turpis. Fusce molestie odio ac eros. Nunc auctor massa in metus. Etiam mollis lorem in eros. Aliquam mi. Nam feugiat ante et felis.

[view](#) | [delete](#)

# Anatomy of Self-Healing Delete

## DOM elements

[X]  
<LI>[X] oldmove.mov</LI>

## Events

Click  
onClick (callback)

## Behaviors

Fade  
Close



# Anatomy of Self-Healing Delete

## DOM elements

[X]

<LI>[X] oldmove.mov</LI>



## Events

Click

onClick (callback)

### Handling Click for Multiple Elements

Files

[X] mystuff.tmp  
[X] bigfile.tmp  
[X] oldmovie.mov  
[X] scrap.txt

Let's say you want to delete files from a list. You would like to embed the delete control with the filename.

You can target two sets of objects: delete controls and list of file names.

We select the '[X]' with 'span:contains([X])' and associate with it the hand cursor and click event.

The Fade & Close target the list of file names with '#multiple li' (all LI items in our multiple example). When you click on an individual delete control it knows the corresponding LI item and operates on it correctly. You can [click here](#) to restart the example.

## Behaviors

Fade

Close

Behavior



# Anatomy of Self-Healing Delete

## DOM elements

[X]

<LI>[X] oldmove.mov</LI>

## Events

Click

onClick (callback)

## Behaviors

Fade

Close

### Handling Click for Multiple Elements

Files

[X] mystuff.tmp

[X] bigfile.tmp

[X] oldmovie.mov

[X] scrap.txt

Let's say you want to delete multiple files. You would like to embed the list of file names.

You can target two sets of file names.

We select the '[X]' with 'multiple' and associate with it the handle.

The Fade & Close target the list of file names with the 'multiple' attribute (example). When you click on an individual delete button, the behavior operates on it correctly. You can [click here](#) to see the result.

Behavior

EVENT



# Anatomy of Self-Healing Delete

## Files

- [X] mystuff.tmp
- [X] bigfile.tmp
- [X] oldmovie.mov
- [X] scrap.txt

Element

Behavior

Event

# Anatomy of Self-Healing Delete

```
<div id="multiple" class="example-live">
<p>Files</p>
<ul>
  <li><span><strong>[X]</strong></span><span>mystuff.tmp</span></li>
  <li><span><strong>[X]</strong></span><span>bigfile.tmp</span></li>
  <li><span><strong>[X]</strong></span><span>oldmovie.mov</span></li>
  <li><span><strong>[X]</strong></span><span>scrap.txt</span></li>
</ul>
</div>
```

Files

- [X] mystuff.tmp
- [X] bigfile.tmp
- [X] oldmovie.mov
- [X] scrap.txt

Element

Behavior

Event

# Anatomy of Self-Healing Delete

```
<div id="multiple" class="example-live">
<p>Files</p>
<ul>
  <li><span><strong>[X]</strong></span><span>mystuff.tmp</span></li>
  <li><span><strong>[X]</strong></span><span>bigfile.tmp</span></li>
  <li><span><strong>[X]</strong></span><span>oldmovie.mov</span></li>
  <li><span><strong>[X]</strong></span><span>scrap.txt</span></li>
</ul>
</div>
```

Files

- [X] mystuff.tmp
- [X] bigfile.tmp
- [X] oldmovie.mov
- [X] scrap.txt

```
$proto('span:contains([X])', {
  SetStyle: {cursor:'pointer'},
  Click: {
    onClick: {
      Fade: {
        target: '#multiple li',
        opacity: {to: 0},
        onComplete: {Close : {} }
      }
    }
  },
});
```

Element

Behavior

Event

# Selecting DOM Elements

```
<div id="multiple" class="example-live">
<p>Files</p>
<ul>
  <li><span><strong>[X]</strong></span><span>mystuff.tmp</span></li>
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Element

Behavior

Event

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- [X] bigfile.tmp
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Behavior

Event

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- [X] bigfile.tmp
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Behavior

Event

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```

Files

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Element

Behavior

Event

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Element

Behavior

Event

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    }
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});
```

Element

Behavior

Event

# Behaviors

Animate. ColorAnimate. Fade.  
Move. Spotlight. Close.  
DragDrop. Hide. Open.  
Popup. ReplaceClass. Script.  
SetClass. SetStyle. Show.  
ToggleClass. ToggleOpenClose.  
ToggleShowHide. FetchHtml.  
SetHtml.

Element

Behavior

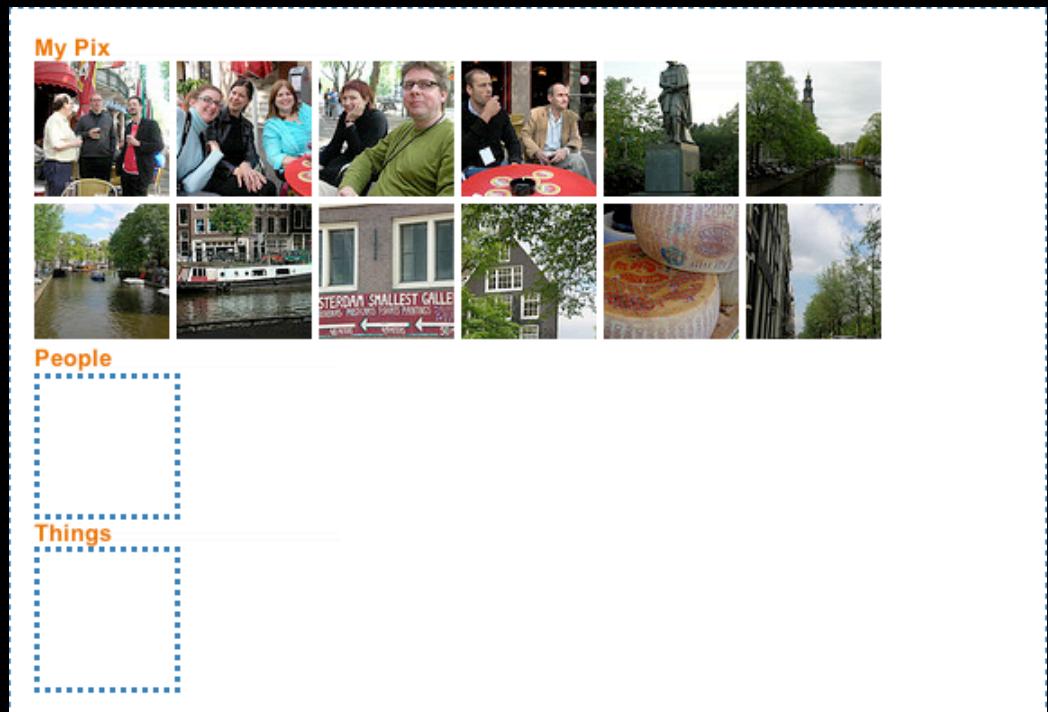
Event

# Behavior Demo

Site has a demo page for each behavior

<http://protoscript.com/demos.php>

Site has a wiki with documentation page for each behavior



Element

Behavior

Event

# Events

Blur. Click. Dblclick. Focus.  
Keypress. Mousedown.  
Mousemove. Mouseout.  
Mouseover. Mouseup. Timer.

Element

Behavior

Event

# Callbacks

onComplete. onTween. onStart. onClose.  
onStartDrag. onDrag. onDragEnter. onDragOver.  
onDragDrop. onDragOut. onEndDrag. onMouseUp.  
onInvalidDrop. onBlur. onClick. onDblClick. onFocus.  
onKeypress. onMousedown. onMousemove.  
onMouseout. onMouseover. onMouseup. onTimer.  
onHide. onOpen. onReplaceClass. onSetClass.  
onSetStyle. onShow. onToggleClass.  
onToggleOpenClose. onToggleShowHide.  
onSuccess. onFailure. onSetHtml.

Element

Behavior

Event

# jQuery

Easy to layer in behavior

Easy to keep behavior separate

Simple, quick, terse syntax

```
$("div").addClass("highlighted");
```

*Element*

*Behavior*

```
<div class="module">
  <h2>Some Header</h2>
  <div class="bd">
    <p>Some content</p>
  </div>
  <div class="ft">
    <p>Footer content</p>
  </div>
</div>
```

```
$(".ft").click(function () { $(this).addClass("highlighted"); });
```

*Element*

*Events*

*Behavior*

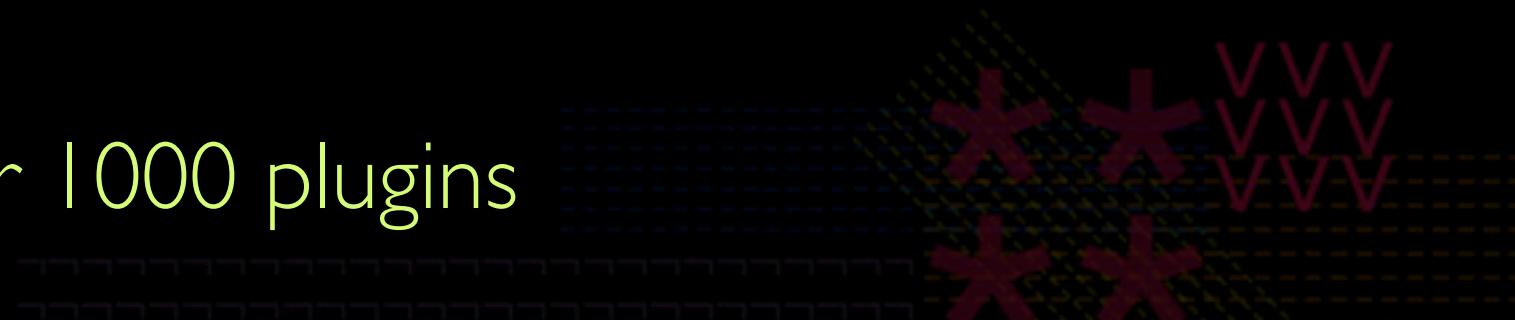


# jQuery Behaviors

Behavior

html. append. prepend. before. after.  
wrap. show. hide. toggle. slideDown.  
slideUp. fadeIn. fadeOut. animate.  
css. offset. position. height. width.  
addClass. attr. removeClass.  
toggleClass. val.

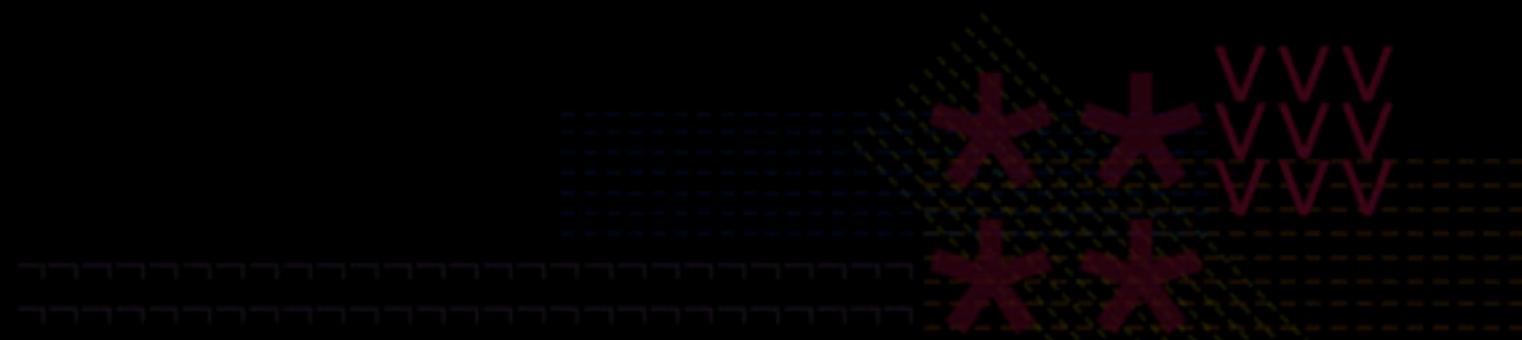
+ over 1000 plugins



# jQuery Events

Event

bind. trigger. hover. toggle. blur.  
change. click. dblclick. error.  
focus. keydown. keypress.  
keyup. load. mousedown.  
mousemove. mouseout.  
mouseover. mouseup. resize.  
scroll. select. submit. unload.



# Class Behaviors

Adding classes that represent behavior

Javascript code implements behavior for specific classes

```
<a id="option" class="true">
  
  
  Option
  <span class="ifTrue">(On)</span>
  <span class="ifFalse">(Off)</span>
</a>
```

```
.ifTrue, .ifFalse{
  display:none;
}
.true .ifTrue{
  display:inline;
}
.false .ifFalse{
  display:inline;
}

#option{
  font-size:.8em;
  color:#444;
}
#option .ifTrue{
  color:green;
}
#option .ifFalse{
  color:red;
}
```

See Kevin Hale's article on Ajax Wireframing Approaches: CSS Boolean

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# ClassBehaviors jQuery Library

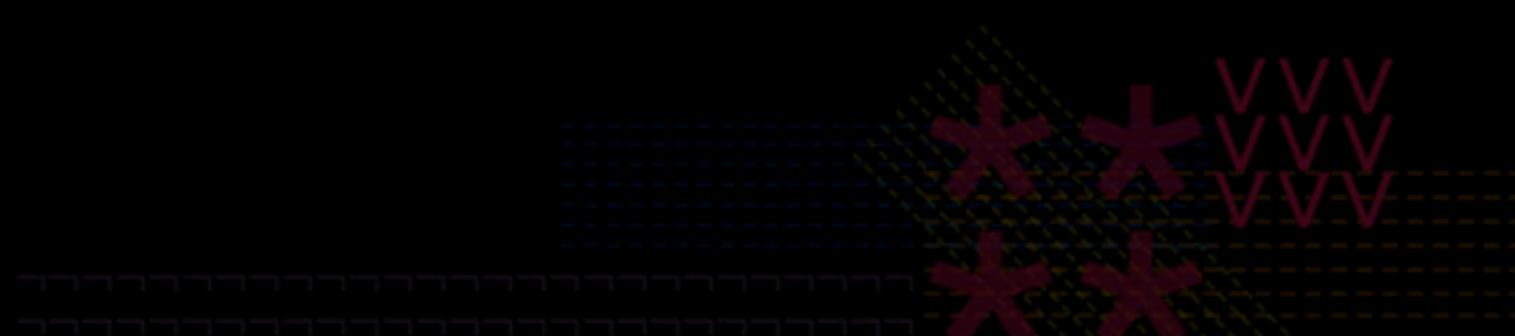
<http://www.woollymittens.nl/default.php?id=classbehaviour-examples&cat=classbehaviour&mod=category>

Select Anything \*:

The second list gets updated, on the fly, using AJAX requests.

**How to Implement These Examples**

The "linkedSelects"'s scripted behaviour is part of the "["Classbehaviours"](#)" jQuery Addons Library. This library contains many scripts that assign functionality to html elements through their classnames. For this example, the JQuery plugins "linkedSelects" was used from the ClassBehaviours JQuery plugins on this site.



# ClassBehaviors jQuery Library

<http://www.woollymittens.nl/default.php?id=classbehaviour-examples&cat=classbehaviour&mod=category>

Select Anything\*: --- pick a type --- --- pick a type first ---

The second list gets updated, on the fly, using AJAX requests.

### How to Implement These Examples

The "linkedSelects"'s scripted behaviour is part of the "[Classbehaviours](#)" jQuery Addons Library. This library contains many scripts that assign functionality to html elements through their classnames. For this example, the JQuery plugins "linkedSelects" was used from the ClassBehaviours JQuery plugins on this site.

```
<fieldset class="border">
  <label for="myselect">Select Anything<em>*</em>:</label>
  <select id="myselect" name="myselect" class="linkedSelects id_myLinkedSelect">
    <option value="">--- pick a type ---</option>
    <option value="./xml/linkedSelects_fruit.xml">Fruit</option>
    <option value="./xml/linkedSelects_vegetables.xml">Vegetables</option>
    <option value="./xml/linkedSelects_fish.xml">Fish</option>
  </select>
  <select id="myLinkedSelect" name="myLinkedSelect">
    <option value="">--- pick a type first ---</option>
  </select>
</fieldset>
```

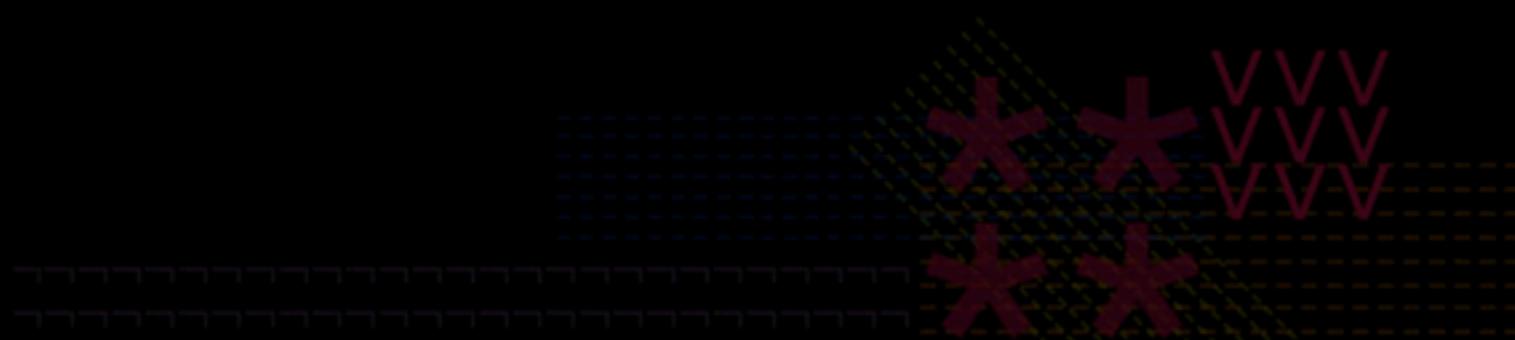
# Style Class Switching

Keep style details out of programming logic

Instead bundle style changes under a style class

Use class “mix-in”

Multiple class names for an element



# Greasemonkey + jQuery

```
// ==UserScript==  
// @name      prototyping-experiment  
// @namespace  http://uie.netflix.com/bscott/gm/  
// @include    http://localhost/~bscott/protoscript/*  
// @version    0.0.1  
// ==/UserScript==  
  
// ---- function with jQuery enabled Greasemonkey  
var startPrototype = function() {  
    // Add your behaviors with jQuery here  
}  
  
// ---- Add jQuery to Greasemonkey  
var GMJQ_loadScript = function(url) {  
    var GMJQ_script = document.createElement('script');  
    GMJQ_script.src = url;  
    GMJQ_script.type = 'text/javascript';  
    document.getElementsByTagName('body')[0].appendChild(GMJQ_script);  
}  
  
function GMJQ_wait() {  
    if(typeof unsafeWindow.jQuery == 'undefined') { window.setTimeout(GMJQ_wait,1); }  
    else { $ = unsafeWindow.jQuery; startPrototype(); }  
}  
  
// Check to see if jQuery is already loaded  
if(typeof unsafeWindow.jQuery != 'undefined') {  
    startPrototype();  
} else {  
    GMJQ_loadScript('http://ajax.googleapis.com/ajax/libs/jquery/1.2.6/jquery.min.js');  
    GMJQ_wait();  
}  
}
```



# Greasemonkey + jQuery

```
// ==UserScript==  
// @name      prototyping-experiment  
// @namespace http://ui.e.netflix.com/bscott/  
// @include   http://localhost/~bscott/  
// @version   0.0.1  
// ==/UserScript==  
  
// ---- function with jQuery enabled Greasemonkey  
var startPrototype = function() {  
    // Add your behaviors with jQuery here  
}  
  
// ---- Add jQuery to Greasemonkey  
var GMJQ_loadScript = function(url) {  
    var GMJQ_script = document.createElement('script');  
    GMJQ_script.src = url;  
    GMJQ_script.type = 'text/javascript';  
    document.getElementsByTagName('body')[0].appendChild(GMJQ_script);  
}  
  
function GMJQ_wait() {  
    if(typeof unsafeWindow.jQuery == 'undefined') { window.setTimeout(GMJQ_wait,1); }  
    else { $ = unsafeWindow.jQuery; startPrototype(); }  
}  
  
// Check to see if jQuery is already loaded  
if(typeof unsafeWindow.jQuery != 'undefined') {  
    startPrototype();  
} else {  
    GMJQ_loadScript('http://ajax.googleapis.com/ajax/libs/jquery/1.2.6/jquery.min.js');  
    GMJQ_wait();  
}
```

jquery code can  
be loaded for any web  
page allowing behaviors to  
be added

# Firebug

```
>==>"contentInner2">
lass="contentInner3">
iv class="contentInner
<h1 class="siteTitle
<div class="subTitle
software and life.</
<div class="pageHead
<div id="post000170"
```

## Edit HTML

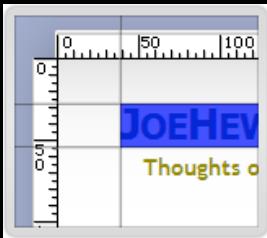
For quick adding of html or modifying html during a prototype review

```
ox .features h3 a {
ding: 2px Opt 6px 35p
kground: transparent
play: block;
t-decoration: blink

ox .features p {
gin: Opt 50px 1em 32p
```

## Edit CSS

Change behaviors, layout or style on the fly



## Layout issues

Visualize the box model & page layout

```
>>> $$("h1")
[ h1.siteTitle, h1.bl
h1.blogPostDate, h1.t
>>> var hi = $$("h1")
>>> hasClass(h1, "sit
true
>>> rootNod
#
```

## Manipulate Javascript

Change logic, add behaviors, experiment & tweak



# Behavior Techniques

Use CSS to simulate mouse hover actions

Use CSS selector syntax to inject behavior

ExtJS, jQuery, Dojo, Mootools, Prototype, cssQuery(), YUI 3.0

Understand CSS Specificity

Understand Class vs. ID

Use style class switching for visual changes

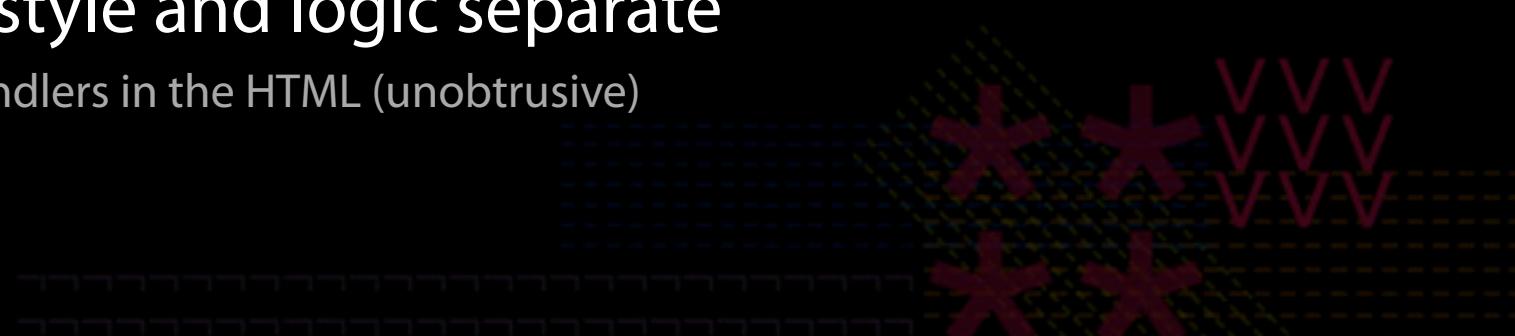
Use innerHTML for content changes

Anchors as basic navigation/action hooks

Keep structure, style and logic separate

Avoid adding onclick handlers in the HTML (unobtrusive)

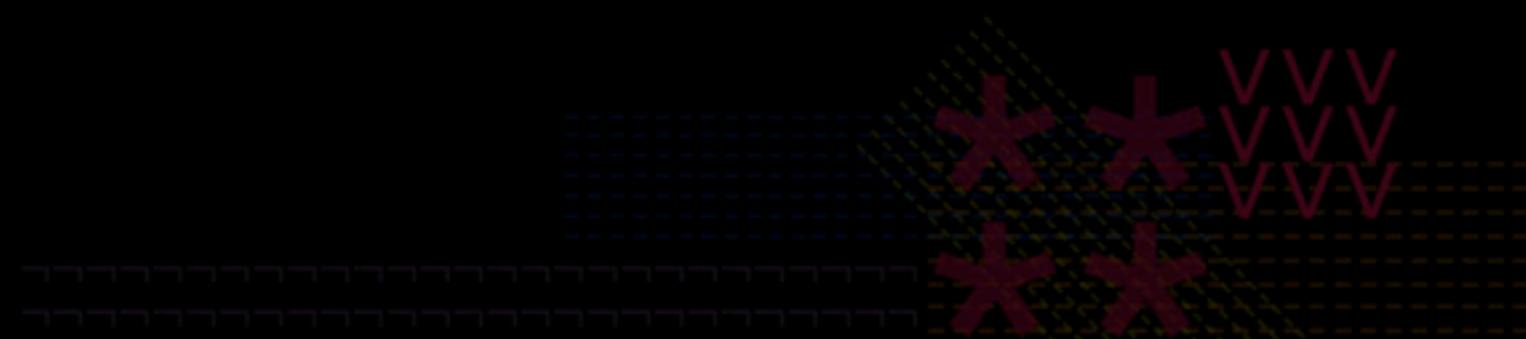
Use Firebug





# Data/Content

Approximating reality

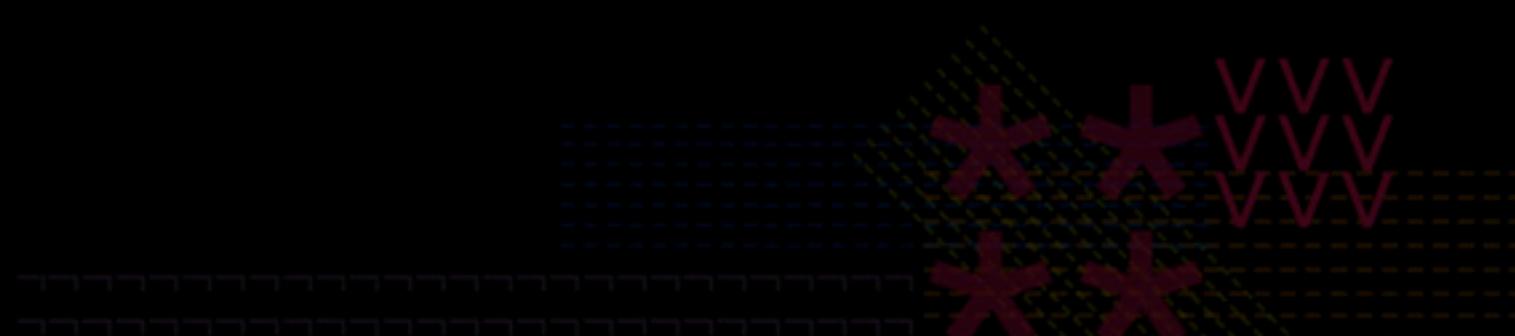


# jQuery Data Binding

## jQuery.ajax(options)

```
$.ajax({  
  url: "test.html",  
  cache: false,  
  success: function(html){  
    $("#results").append(html);  
  }  
});
```

Very quick way to bring in dynamic interface elements



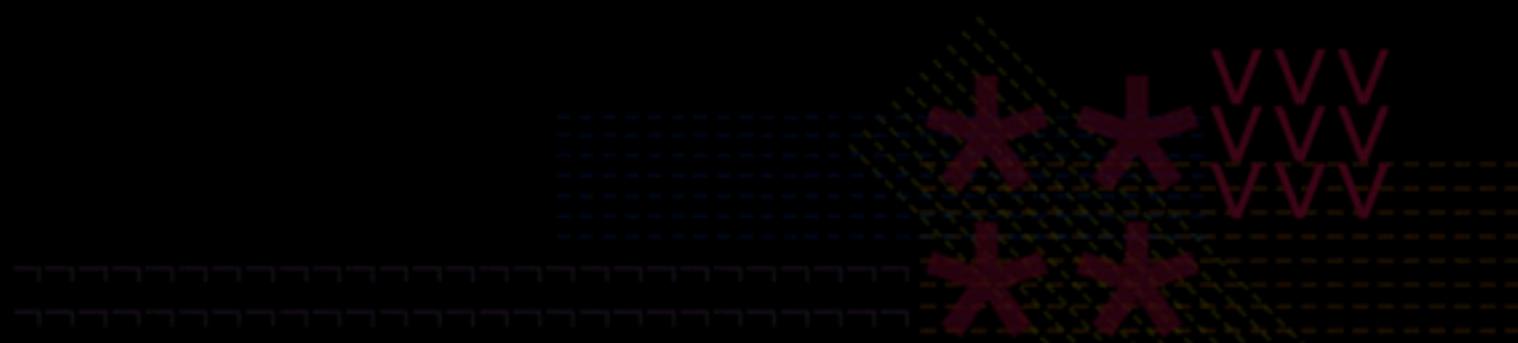
# Use Public APIs

Yahoo! Search

Google Search

Flickr images

Google Maps



# JSON

```
{"name": "Jack B. Nimble", "at large": true, "grade": "A",  
"level": 3}
```

name	Jack B. Nimble
at large	true
grade	A
level	3

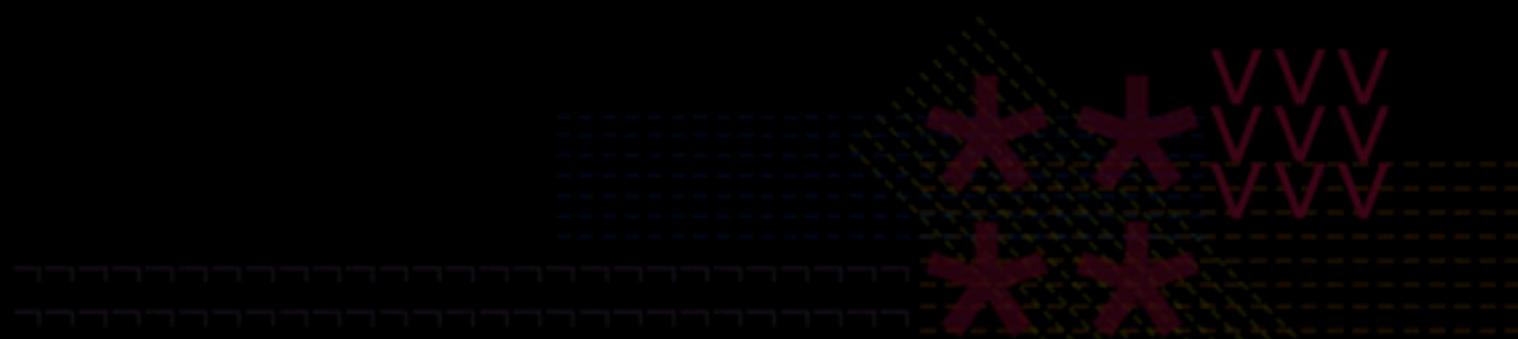


# JSON: Arrays

```
["Sunday", "Monday", "Tuesday", "Wednesday", "Thursday",  
 "Friday", "Saturday"]
```

```
[  
 [0, -1, 0],  
 [1, 0, 0],  
 [0, 0, 1]  
 ]
```

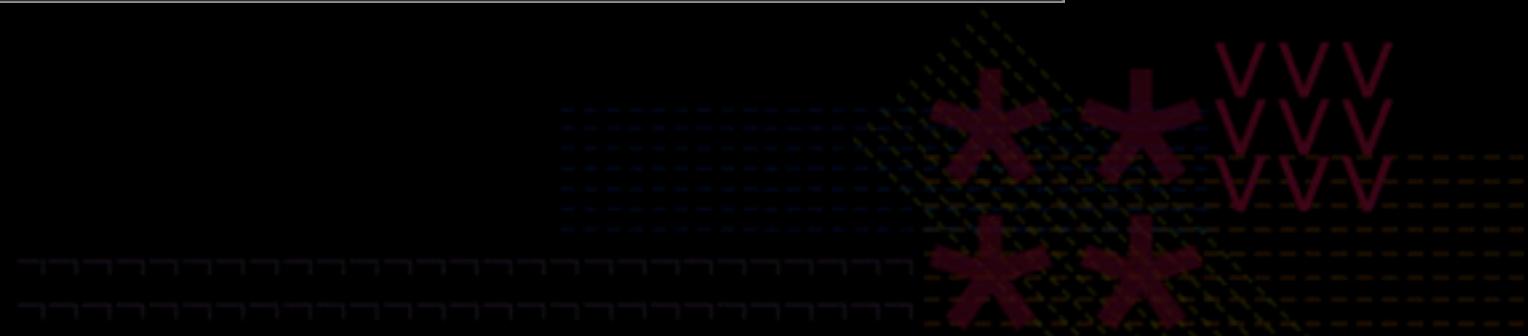
3x3 array



# JSON in jQuery

jQuery.getJSON(url, [data], [callback])

```
$.getJSON("http://api.flickr.com/services/feeds/photos_public.gne?  
tags=cat&tagmode=any&format=json&jsoncallback=?",
  function(data){
    $.each(data.items, function(i,item){
      $("<img/>").attr("src", item.media.m).appendTo("#images");
      if ( i == 3 ) return false;
    });
  }
);
```



# JSON Example

```
$.getJSON("http://api.flickr.com/services/feeds/photos_public.gne?  
tags=cat&tagmode=any&format=json&jsoncallback=?",
  function(data){
    $.each(data.items, function(i,item){
      $("<img/>").attr("src", item.media.m).appendTo("#images");
      if ( i == 3 ) return false; // only get 4 images
    });
  }
);
```

```
{
  "title": "Recent Uploads tagged cat",
  "link": "http://www.flickr.com/photos/tags/cat/",
  "description": "",
  "modified": "2009-03-09T02:00:41Z",
  "generator": "http://www.flickr.com/",
  "items": [
    {
      "title": "birthday 89",
      "link": "http://www.flickr.com/photos/gulshan/3340193322/",
      "media": {"m": "http://farm4.static.flickr.com/3405/3340193322_065facd48d_m.jpg"},
      "date_taken": "2009-03-08T03:11:50-08:00",
      "description": "<p><a href=\"http://www.flickr.com/people/gulshan/\">gulshan</a>  
posted a photo:</p> <p><a href=\"http://www.flickr.com/photos/gulshan/3340193322/\" title=\"birthday 89\"><img src=\"http://farm4.static.flickr.com/3405/3340193322_065facd48d_m.jpg\" width=\"240\" height=\"160\" alt=\"birthday 89\" /></a></p> ",
      "published": "2009-03-09T02:00:41Z",
      "author": "nobody@flickr.com (gulshan)",
      "author_id": "88283245@N00",
      "tags": "birthday party me brooklyn cat photobooth marcus 2009"
    },
  ]
```

# Prototyping with DHTML



## Layout

Getting the page laid out correctly & quickly



## Behavior

Adding interactivity to the page



## Data

Populating the prototype with fake or semi-realistic data



# Resources

Book: CSS:The Missing Manual

<http://css.maxdesign.com.au/floatutorial/>

<http://speckyboy.com/2008/03/28/top-12-css-frameworks-and-how-to-understand-them/>

<http://www.blueprintcss.org/>

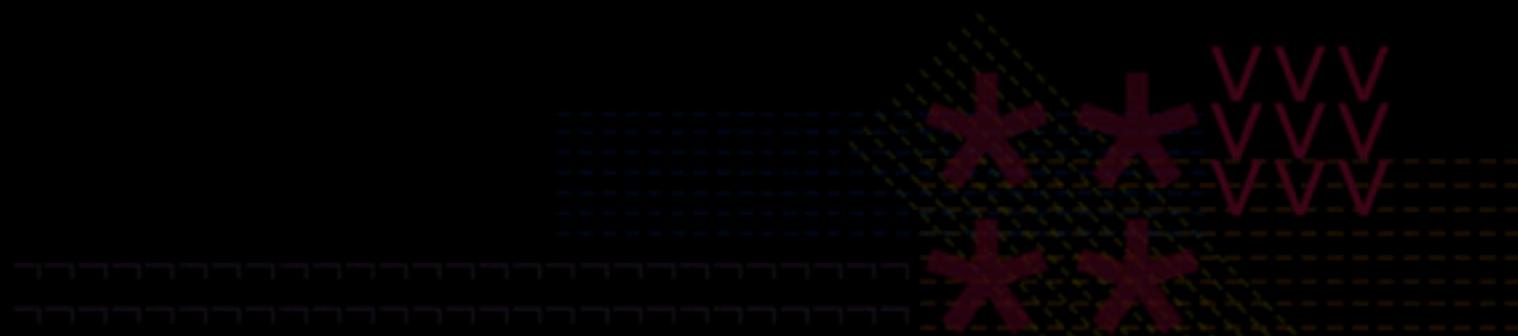
<http://www.scribd.com/doc/3592303/Blueprint-CSS-framework-version-071-cheat-sheet>

<http://kematzy.com/blueprint-generator/>

<http://mdaines.com/plumb/>

<http://developer.yahoo.com/yui/grids/>

<http://developer.yahoo.com/yui/grids/builder/>



# Resources

<http://yuiblog.com/assets/pdf/cheatsheets/css.pdf>

<http://www.designbygrid.com/>

<http://www.divitodesign.com/2008/12/960-css-framework-learn-basics/>

<http://www.divitodesign.com/2009/01/tricks-to-solve-960-css-framework-problems/>

<http://www.mostinspired.com/blog/2009/01/28/rapid-interactive-prototyping/> (with jquery)

<http://www.domain7.com/WhoWeAre/StephenBau.html> (built the moo tools version of fluid)

[http://www.mostinspired.com/blog/wp-content/uploads/2009/rip/16\\_fluid\\_jquery/](http://www.mostinspired.com/blog/wp-content/uploads/2009/rip/16_fluid_jquery/)

<http://honeyl.public.iastate.edu/blueprint/>

<http://code.google.com/p/css-boilerplate/>

[http://jdclayton.com/blueprints\\_compress\\_a\\_walkthrough.html](http://jdclayton.com/blueprints_compress_a_walkthrough.html)



# Resources

<http://lab.christianmontoya.com/read/>

<http://www.christianmontoya.com/2007/11/10/semantify-and-css-tools-based-on-blueprint/>

<http://habilis.net/cssmixin/>

<http://particletree.com/features/ajax-wireframing-approaches/>

<http://designinfluences.com/fluid960gs/>

<http://www.protoscript.com>

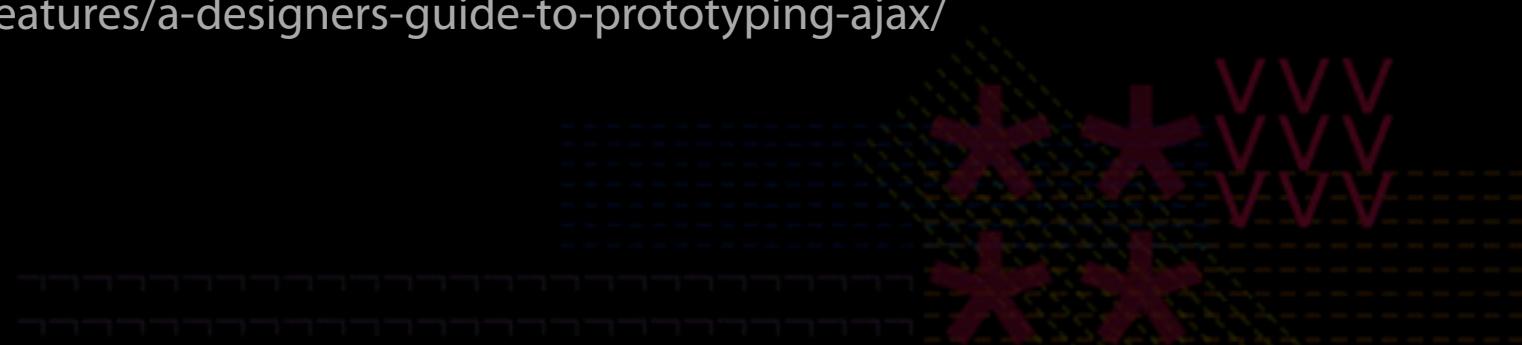
<http://www.woollymittens.nl/default.php?id=classbehaviour-examples&cat=classbehaviour&mod=category>

<http://joanpiedra.com/jquery/greasemonkey/>

<http://www.getfirebug.com/>

<http://particletree.com/features/a-designers-guide-to-prototyping-ajax/>

<http://json.org>



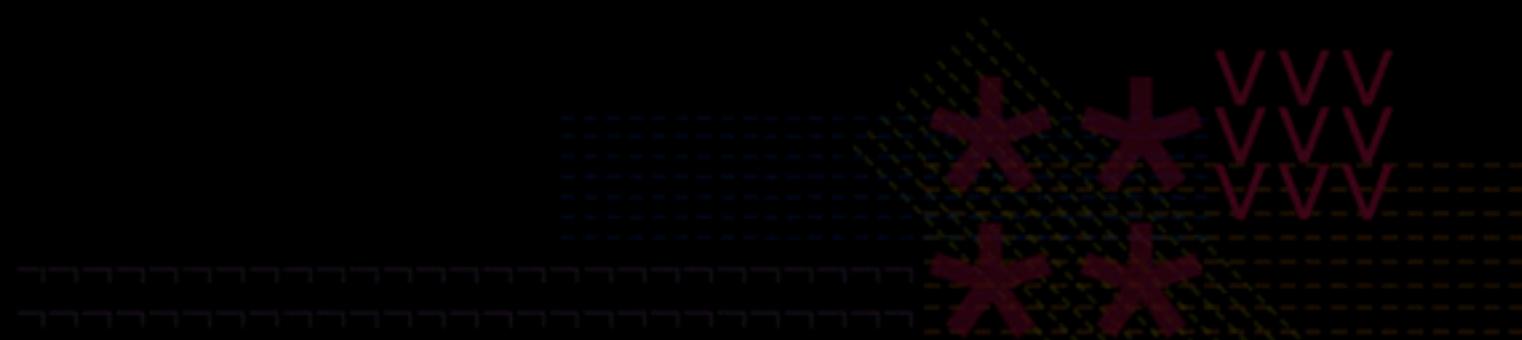
# Photo Credits

<http://www.flickr.com/photos/yerro/2310015018/>

[http://flickr.com/photos/totoro\\_zine/2341347265/](http://flickr.com/photos/totoro_zine/2341347265/)

<http://www.flickr.com/photos/rohdesign/2610114400/>

[http://en.wikipedia.org/wiki/  
Internet\\_Explorer\\_box\\_model\\_bug](http://en.wikipedia.org/wiki/Internet_Explorer_box_model_bug)



# We are hiring

Both UX Designer & UI Engineer positions open



# Questions?

