

THE RAILS VIEW: THE JUNK DRAWER GROWS UP

JOHN ATHAYDE, LivingSocial

757.RB, 17 OCT 2012





Background

THE DUDE ABIDES



<http://www.flickr.com/photos/michael-sellos/207314676/>

METICULOUS

DESIGN WEB TALENT 3D VISUAL FX FILM



すなば

[T H E S A N D B O X]





MEG LINEHAN | WAKEFROMYOURSELF.COM

Friday, October 19, 12









The
Pragmatic
Programmers

The Rails View

Create a Beautiful
and Maintainable
User Experience



John Athayde
and Bruce Williams

Edited by Brian P. Hogan

The Facets  of Ruby Series

VIEW **ARCHAEOLOGY**

FINDING THE GEMS IN THE JUNK

LAZY GENERATION

SCAFFOLD WHAT?

```
bash$ rails g scaffold fightingwords index show kickcoder
```

OH NO, NOT AGAIN



```
active_scaffold :client do |config|
```



<http://www.flickr.com/photos/kutluhanCelik/3928343101/>

Bootstrap, from Twitter

Simple and flexible HTML, CSS, and Javascript for popular user interface components and interactions.

[View project on GitHub](#)[Download Bootstrap \(v2.0.4\)](#)[Upgrading from 1.4](#)[Download with docs](#)[Read the blog](#)[Submit issues](#)[Roadmap and changelog](#)[Watch](#) 32,102[Fork](#) 6,477[Follow @twbootstrap](#) 27.2K followers[Tweet](#) 13.6K

Designed for everyone, everywhere.

Need reasons to love Bootstrap? Look no further.

Built for and by nerds

Like you, we love building awesome products on the web. We love it so much, we decided to help people just like us do it easier, better, and faster. Bootstrap is built for you.

12-column grid

Grid systems aren't everything, but having a durable and flexible one at the core of your work can make development much simpler. Use our built-in grid classes or roll your own.

For all skill levels

Bootstrap is designed to help people of all skill levels — designer or developer, huge nerd or early beginner. Use it as a complete kit or use to start something more complex.

Responsive design

With Bootstrap 2, we've gone fully responsive. Our components are scaled according to a range of resolutions and devices to provide a consistent experience, no matter what.

Cross-everything

Originally built with only modern browsers in mind, Bootstrap has evolved to include support for all major browsers (even IE7!) and, with Bootstrap 2, tablets and smartphones, too.

Styleguide docs

Unlike other front-end toolkits, Bootstrap was designed first and foremost as a styleguide to document not only our features, but best practices and living, coded examples.

*Broken gets fixed;
Crappy [code] lasts forever.*

LEGACY CODE

WE STARTED THIS IN RAILS 0.9

ROUNDED CORNERS

Vintage.

```
<div class="b">
  <div class="l">
    <div class="r">
      <div class="bl">
        <div class="br">
          <div class="tl">
            <div class="tr box">
              <%= content %>
            </div>
          </div>
        </div>
      </div>
    </div>
  </div>
</div>
```

ROUNDED CORNERS

CSS3 To The Rescue!

```
<div class="box-to-be-rounded">  
  <%= content %>  
</div>
```

```
.box-to-be-rounded {  
  border: 1px solid #ccc;  
  -webkit-border-radius: 5px; /* Safari, Chrome */  
  -moz-border-radius: 5px; /* Firefox */  
  border-radius: 5px; /* IE9, Opera 10.5, else */  
}
```

```
if elsif elsif elsif elsif elsif elsif  
  elsif elsif elsif elsif elsif elsif  
    elsif elsif elsif elsif elsif elsif  
      elsif elsif elsif elsif elsif elsif  
        elsif elsif elsif elsif elsif else
```

```
end
```

WHERE IS THAT PARTIAL?!?

THE SEVEN DEADLY VIEW SINS

THINGS TO AVOID AT ALL COSTS



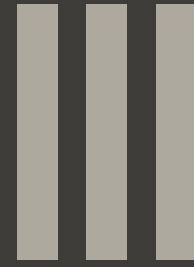
USING TABS

instead of spaces



INLINE STYLES

class + extract



DIVITIS

use the HTML elements

IV

ASSIGNMENT

use helpers, content_for

V

INLINE JAVASCRIPT

go unobtrusive

VI

SCAFFOLDING

you need to make your own

VII

BAD FILE LOCATIONS

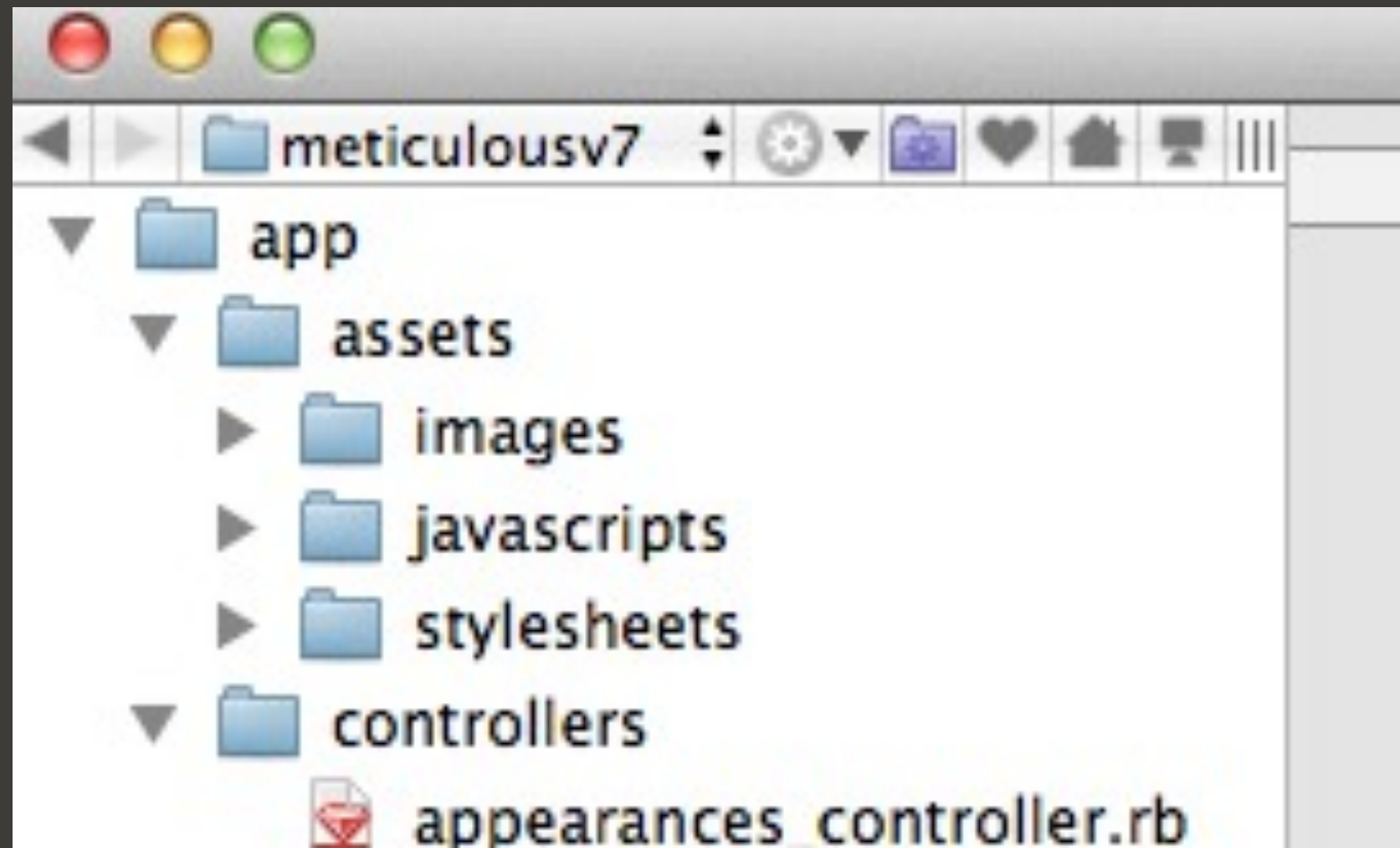
use the conventions

A wooden shape-sorter toy is shown on a light-colored carpet. The toy is a light brown wooden box with several cutouts for different shapes. A yellow hexagon is currently inside one of the cutouts. Other shapes, including a red cube, a blue cube, a yellow cube, a red cube, a blue cylinder, and a red cylinder, are scattered on the carpet around the toy. The text "EVERYTHING IN ITS RIGHT PLACE" is overlaid in large, white, bold, sans-serif capital letters across the center of the image.

**EVERYTHING
IN ITS
RIGHT PLACE**

THE ASSET PIPELINE

IS THERE FOR A REASON



THE RAILS VIEW RULES

LEARN THEM LIVE THEM LOVE THEM

RULE

1

Our markup should have meaning. We write templates using semantic HTML.

HIERARCHY

WHERE IT'S AT.

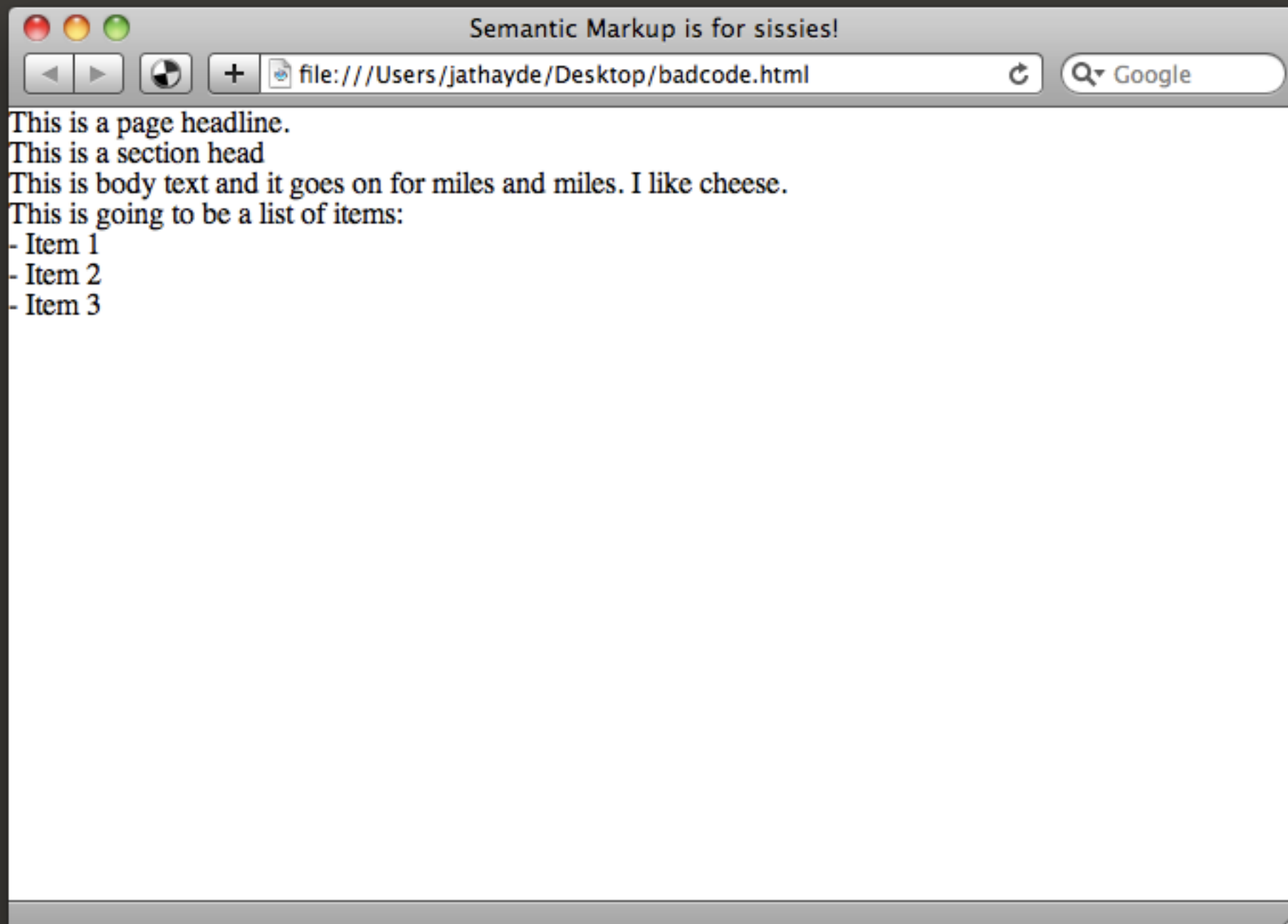
NO HIERARCHY

Not semantic, everything is the same.

```
<div class="headline">This is a page headline.</div>
<div class="subhead">This is a section head</div>
<div class="body">This is body text and it goes on for
miles and miles. I like cheese.</div>
<div class="list">This is going to be a list of items:<br />
- Item 1<br />
- Item 2<br />
- Item 3<br />
</div>
```

NO HIERARCHY

Not semantic, everything is the same.



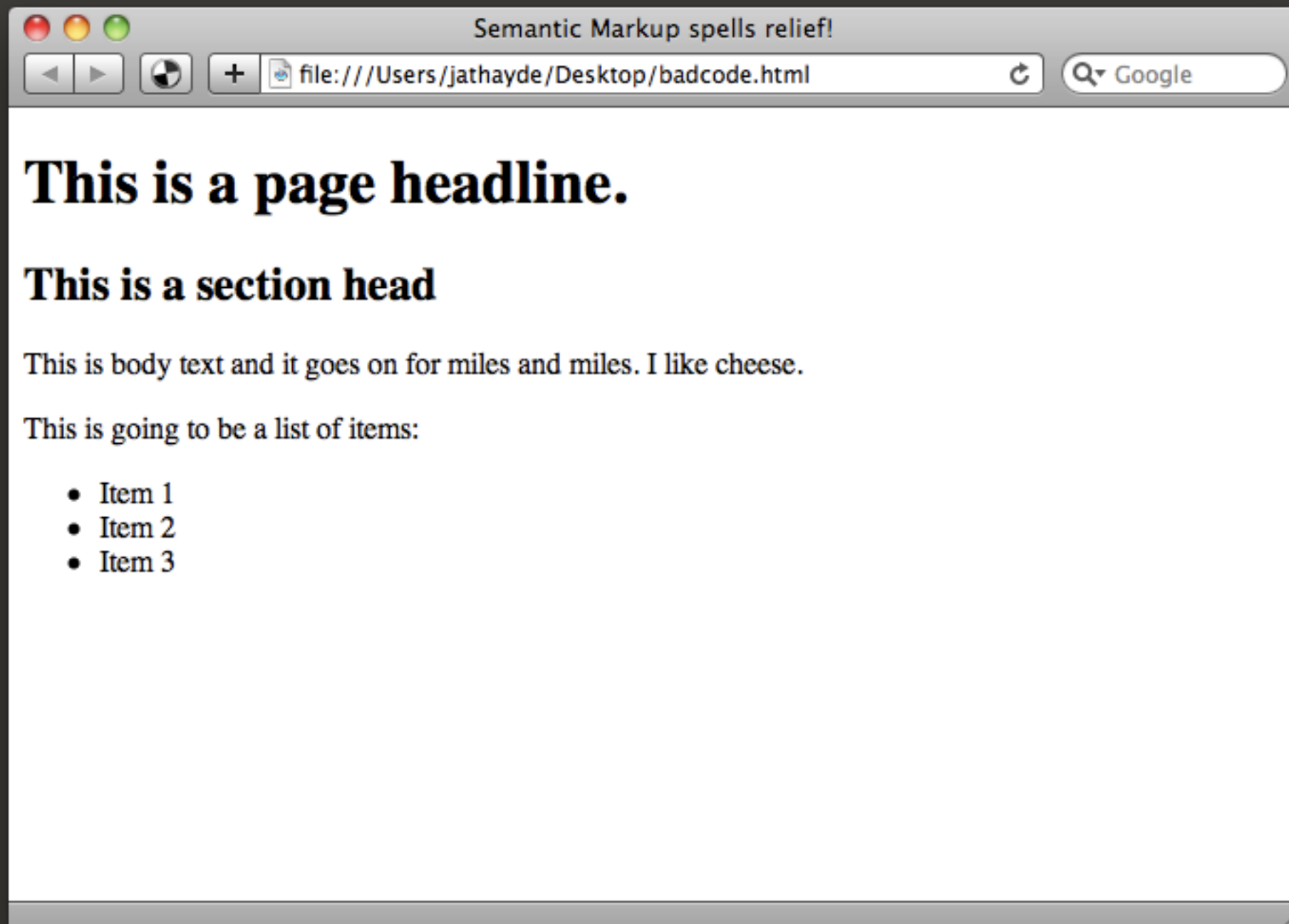
SEMANTIC

HTML Tags used for meaning.

```
<h1>This is a page headline.</h1>
<h2>This is a section head</h2>
<p>This is body text and it goes on for miles and miles.
  I like cheese.</p>
<p>This is going to be a list of items:</p>
<ul>
  <li>Item 1</li>
  <li>Item 2</li>
  <li>Item 3</li>
</ul>
```

SEMANTIC

HTML Tags used for meaning.



VALIDATE!

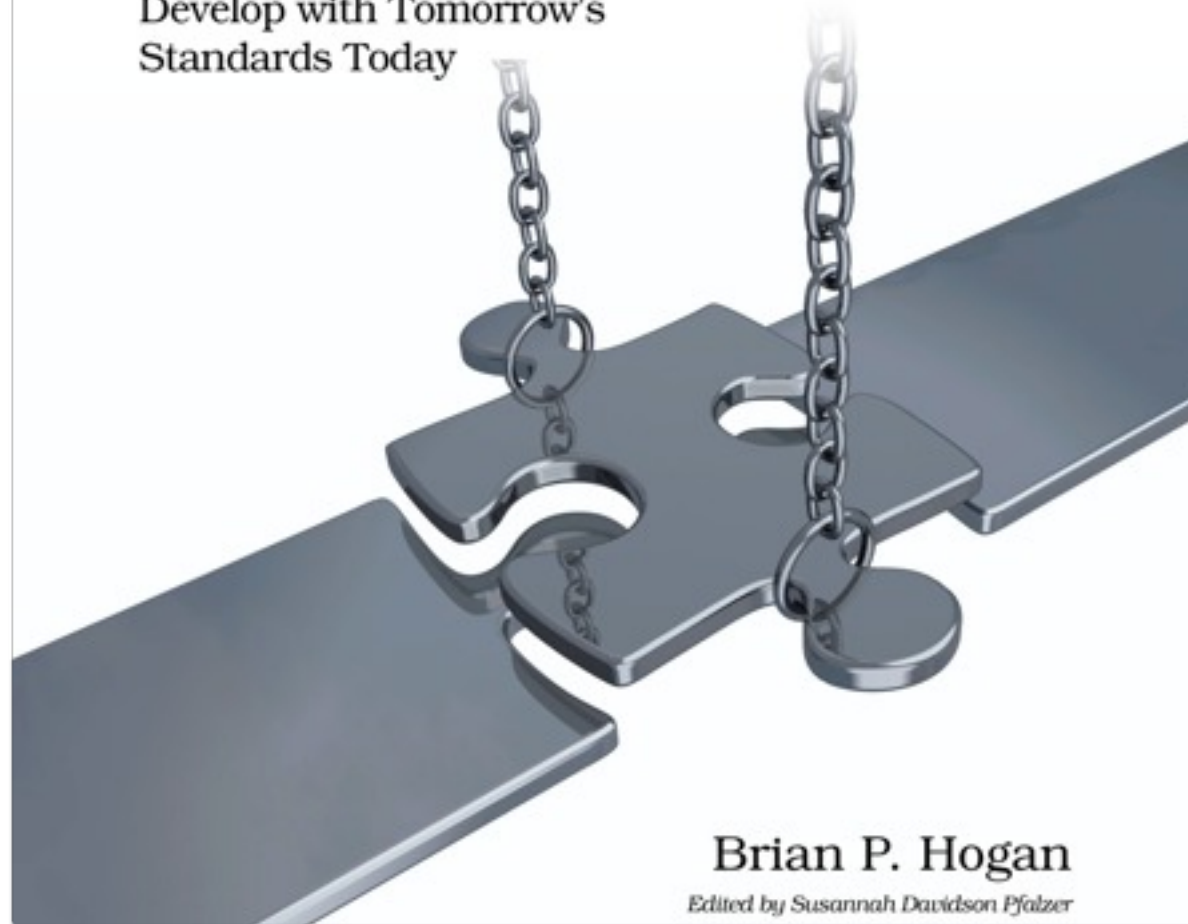
Valid code makes everyone happy.

ONLINE:
validator.w3.org

The
Pragmatic
Programmers

HTML5 & CSS3

Develop with Tomorrow's
Standards Today



Brian P. Hogan

Edited by Susannah Davidson Pfalzer

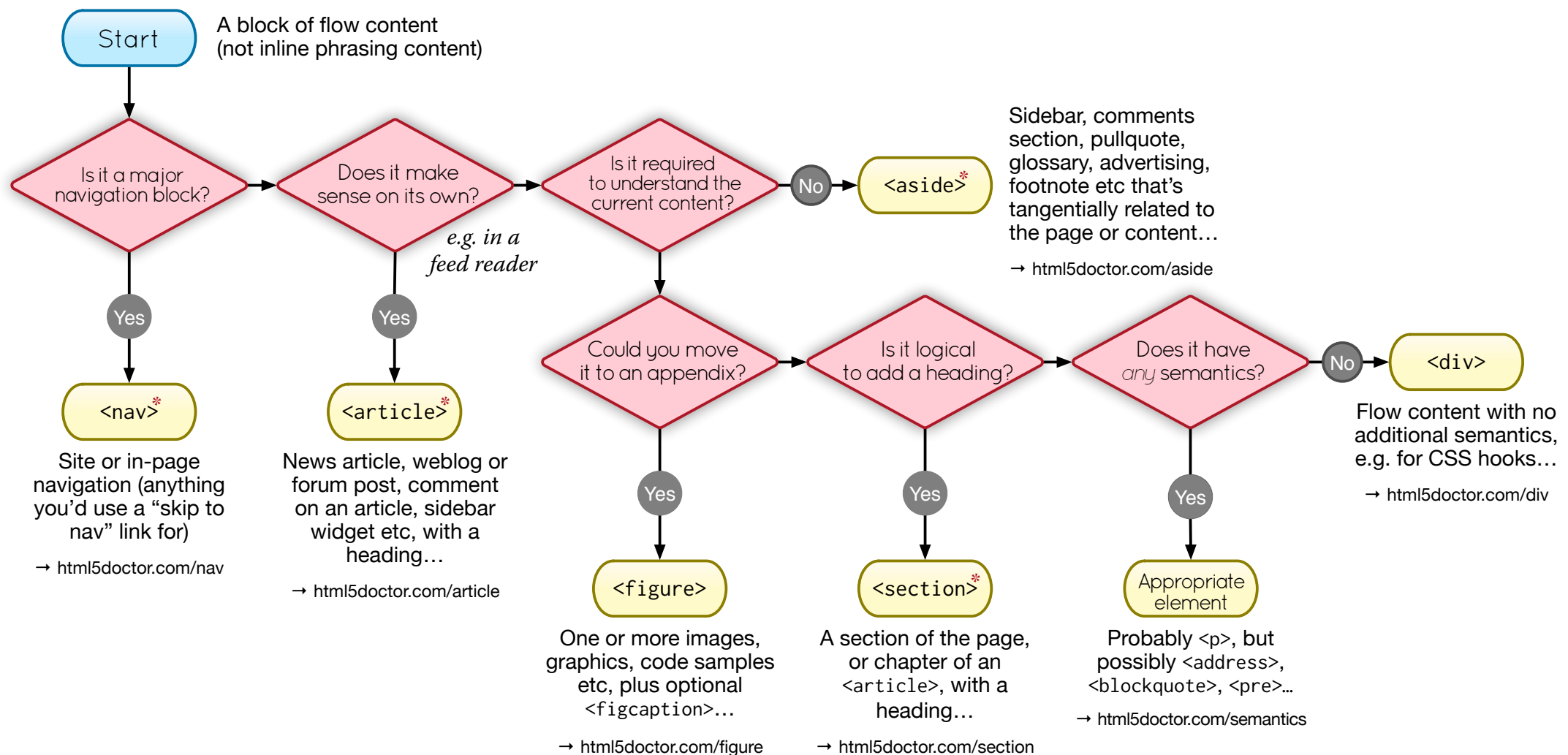


Doctor

HTML5 Element Flowchart

Sectioning content elements and friends

By @riddle & @boblet
www.html5doctor.com



* Sectioning content element

These four elements (and their headings) are used by HTML5's outlining algorithm to make the document's outline
→ html5doctor.com/outline

2011-07-22 v1.5
For more information:
www.html5doctor.com/semantics

Periodic Table of the Elements

html																col	table				
head	span											div	fieldset	form	body	h1	section	colgroup	tr		
title	a											pre	meter	select	aside	h2	header	caption	td		
meta	rt	dfn	em	i	small	ins	s	br	p	blockquote	legend	optgroup	address	h3	nav	menu	th				
base	rp	abbr	time	b	strong	del	kbd	hr	ol	dl	label	option	datalist	h4	article	command	tbody				
link	noscript	q	var	sub	mark	bdi	wbr	figcaption	ul	dt	input	output	keygen	h5	footer	summary	thead				
style	script	cite	samp	sup	ruby	bdo	code	figure	li	dd	textarea	button	progress	h6	hgroup	details	tfoot				
										img	area	map	embed	object	param	source	iframe	canvas	track	audio	video

- Root element
- Text-level semantics
- Forms
- Tabular data
- Metadata and scripting
- Grouping content
- Document sections
- Interactive elements
- Embedding content



Google is a blind user.

START SMALL

Cover the basics all the time.

WAI Level I Checklist:

www.w3.org/TR/WCAG10/full-checklist.html

RULE

#2

Our style sheets should handle presentation. We don't use markup to style or use images when CSS will do.



SCSS/Sass

SOME BASICS

To use with Sass/SCSS

```
header {
  nav {
    color: #fff;

    ul {
      list-style-type: none;
      margin: 0;
      padding: 0;

      li {
        list-style-type: none;
        margin: 0;
        padding: 0;

        a {
          padding: 2px 10px;

          &.active {
            background-color: white;
          }

          &:hover {
            background-color: red;
          }
        }
      }
    }
  }
}
```

```
header {  
}  
  
header nav {  
  color: #fff;  
}  
  
header nav ul {  
  list-style-type: none;  
  margin: 0;  
  padding: 0;  
}  
  
header nav ul li {  
  list-style-type: none;  
  margin: 0;  
  padding: 0;  
}  
  
header nav ul li a {  
  padding: 2px 10px;  
}  
  
header nav ul li a.active {  
  background-color: white;  
}  
  
header nav ul li a:hover {  
  background-color: red;  
}
```

```
p {  
  $font-size: 12px;  
  $line-height: 30px;  
  font: #{ $font-size } / #{ $line-height };  
}
```

```
p {  
  font: 12px/30px;  
}
```

```
$type: bar;
p {
  @if $type == restaurant {
    color: blue;
  } @else if $type == bar {
    color: red;
  } @else if $type == qsr {
    color: green;
  } @else {
    color: black;
  }
}
```

```
p {  
  width: 2em * 3em;  
}
```

```
p {  
  width: 6em;  
}
```

```
p {  
  color: #109479 + #489579;  
}
```

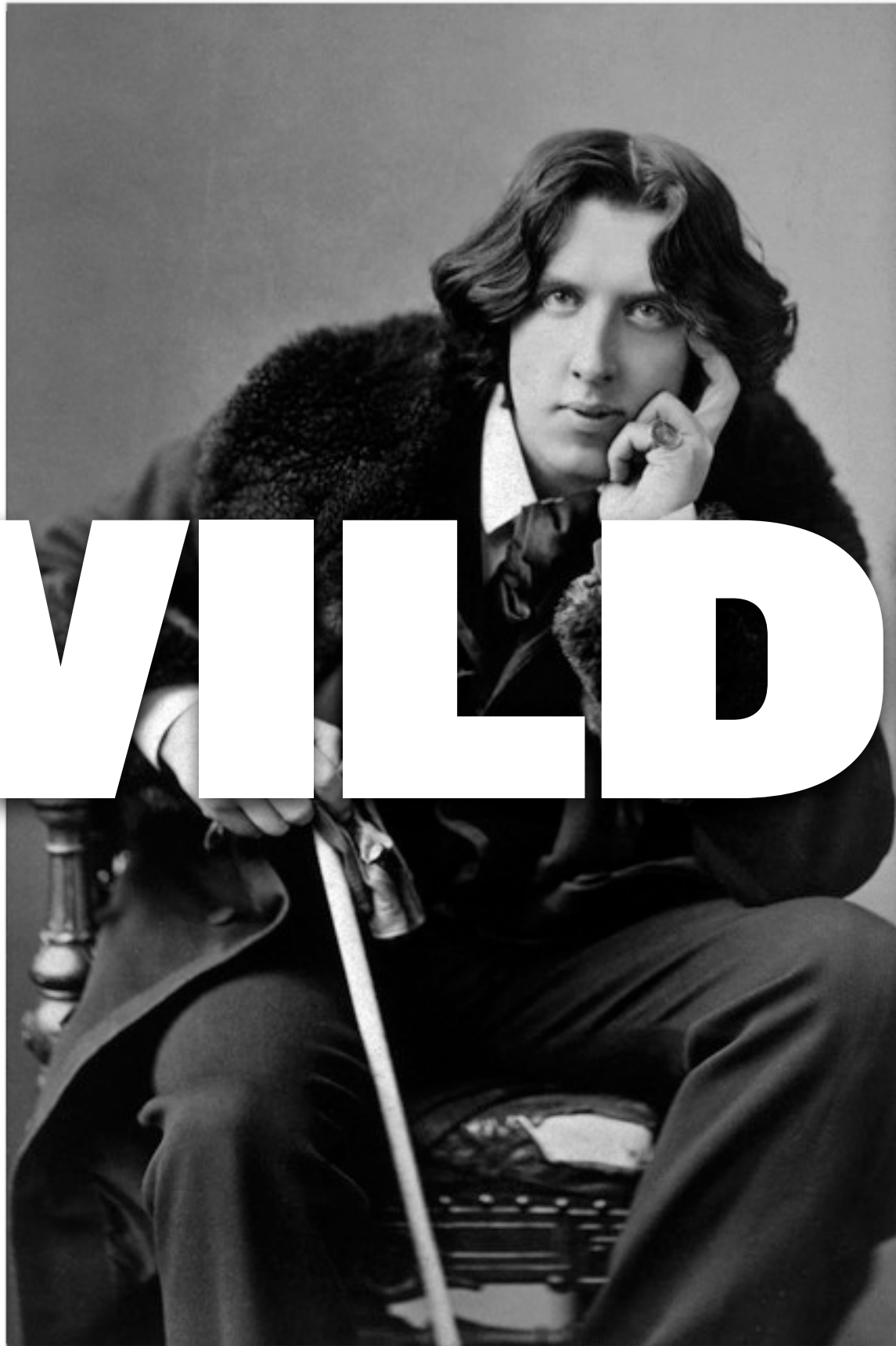
```
p {  
  color: #58fff2;  
}
```

```
li, div, tr {
  @each $vertical in local, adventures, amazon, at-home, citywide, deals, escapes,
    families, gourmet, nationwide, toad {
    &.#{$vertical}, &.#{$vertical} td {
      @include verticalLoop($vertical);
    } // &.#{$vertical}
  } // @each $vertical in...
} // li, div, tr
```

```
li.local, li.local td {...}
div.local, div.local td {...}
tr.local, tr.local td {...}
li.adventures, li.adventures td {...}
div.adventures, div.adventures td {...}
tr.adventures, tr.adventures td {...}
li.amazon, li.amazon td {...}
div.amazon, div.amazon td {...}
tr.amazon, tr.amazon td {...}
li.at-home, li.at-home td {...}
div.at-home, div.at-home td {...}
tr.at-home, tr.at-home td {...}
```

etc., etc., etc.

WILDE





GEMIFY!

Really easy to install on new apps

```
script/rails g ls:wilde:install
```

```
script/rails g ls:wilde:views
```

NOTIFICATIONS



Hey There! Just wanted to let you know.



Oh snap! Change a few things up and try submitting again.



Well done! You successfully read this important alert message.



Heads up! This alert needs your attention, but it's not super important.



Doh! Looks like something went wrong... please report it.



Cha-ching! You did something with money.

Oh snap! You got an error!

Change this and that and try again. Duis mollis, est non commodo luctus, nisi erat porttitor ligula, eget lacinia odio sem nec elit. Cras mattis consectetur purus sit amet fermentum.

Take this action

Or do this

Just a reminder

Change this and that and try again. Duis mollis, est non commodo luctus, nisi erat porttitor ligula, eget lacinia odio sem nec elit. Cras mattis consectetur purus sit amet fermentum.

Take this action

Or do this

Go you!

Change this and that and try again. Duis mollis, est non commodo luctus, nisi erat porttitor ligula, eget lacinia odio sem nec elit. Cras mattis consectetur purus sit amet fermentum.

Take this action

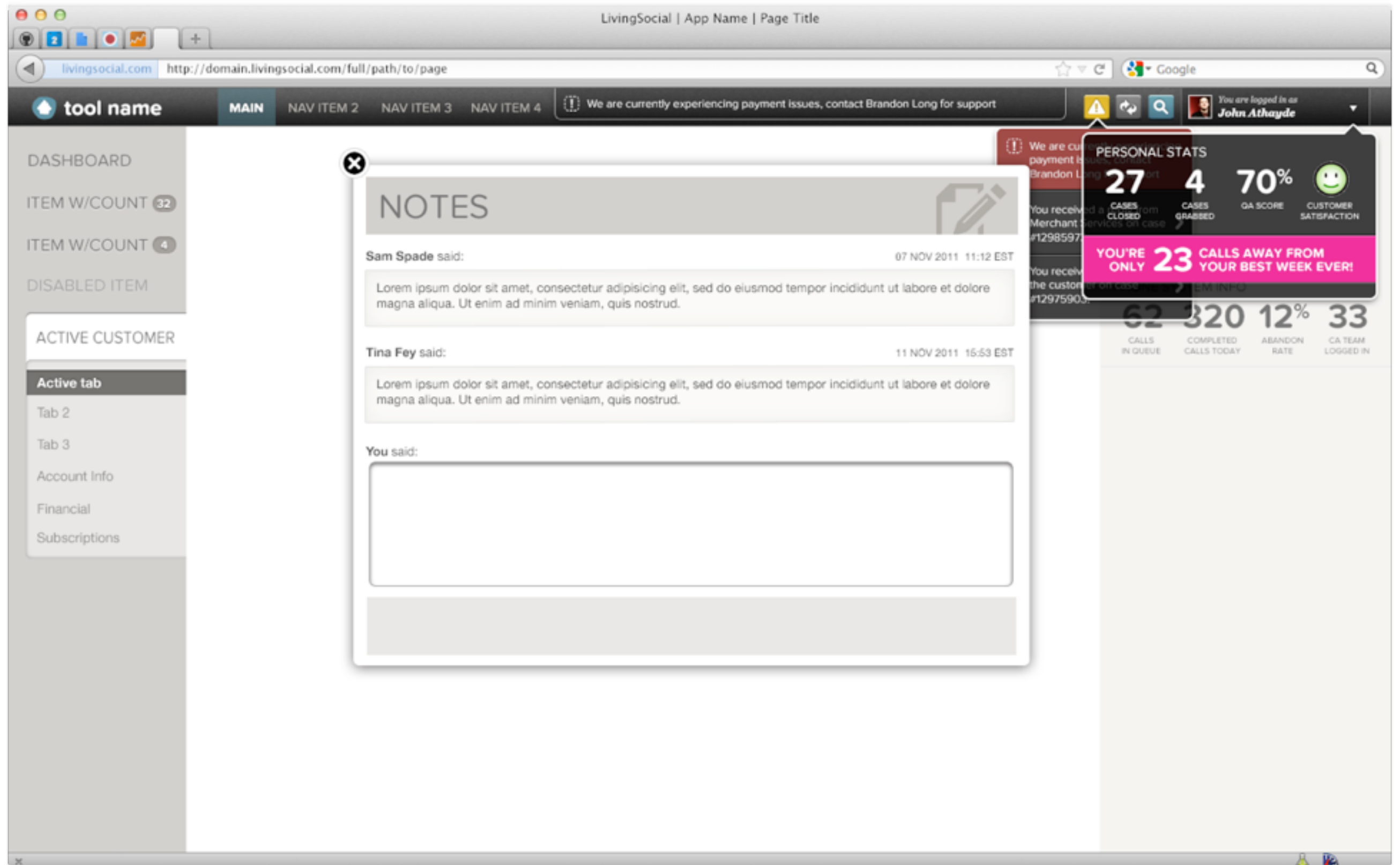
Or do this

Just a reminder

Change this and that and try again. Duis mollis, est non commodo luctus, nisi erat porttitor ligula, eget lacinia odio sem nec elit. Cras mattis consectetur purus sit amet fermentum.

Take this action

Or do this



wilde documentation

Filters

show all assets variables base structure components technology

Sort

original-order alphabetically

Glyphicons/ Font Awesome	Pictos	Iconic	Color	Brand	Typography	Code	Keyboard	Tables	Forms
Buttons	Layout	Grid	Flex Box	Page Header	With Sidebars	Content Area	Login/ Authentication Layouts	Alerts	Carousel/Slider
Click2Copy	Collapse/Accord	Date As Calendar	Hero Unit	Lables & Badges	Ajax/Loader	Modals & Lightboxes	Well	Popovers	Progress Bars
Tooltips	Thumbnails	Deal Status Indicator	Lights	Agreements	Payouts	Promos	Breadcrumbs	Pagination	Pills
Tags	Navbar	Tabs							

CODING STYLE INFORMATION

1. [HTML](#)
2. [CSS](#)
 - a. [Sass/SCSS](#)
3. [JavaScript](#)
 - a. [CoffeeScript](#)
4. [Ruby](#)
5. [Rails](#)

TOOLS

ICONS!

WE USE THEM EVERYWHERE

APP ICONS

Used globally and on login pages

```
li, div {  
  @each $tool in launchpad, misson-control, monkey, moriarty, pipeline, q, photomanager,  
    rearview, samplr, stratego, threesixtyfive, wilde {  
    &.#{$tool} {  
      background-image: url("#{$image-path-content}/icons/tools/#{$tool}.svg");  
    } // &.#{$tool}  
  } // @each $tool in ...  
} // li, div
```



SIMPLIFY REPETITIVE WORK

Save your designers minds

```

@mixin verticalLoop($vertical) {
  $vertical-image-path: "#{$image-path-content}/icons/verticals/";
  @each $color in color-black, color-white, color-honeycomb, color-clementine,
    color-slushie, color-frosting, color-aloe, color-berry, color-wasabi,
    color-grape, color-spice, color-wine, color-whale, color-honeycombLight,
    color-clementineLight, color-slushieLight, color-frostingLight,
    color-teaLight, color-berryLight, color-grapeLight, color-grayLightest,
    color-grayLighter, color-grayLight, color-gray, color-grayDark,
    color-grayDarker, color-grayDarkest {
    &.vertical-icon {
      background-image: url("#{$vertical-image-path}/#{ $vertical}-color-black.svg") !
important;
      &.vertical-icon-#{$color} {
        background-image: url("#{$vertical-image-path}/#{ $vertical}-#{$color}.svg") !
important;
      } // &.concept-icon-#{$color}
    } // &.concept-icon
  } // @each $color in ...
}

li, div, tr {
  @each $vertical in local, adventures, amazon, at-home, citywide, deals, escapes, families,
    gourmet, nationwide, toad {
    &.#{$vertical}, &.#{$vertical} td {
      @include verticalLoop($vertical);
    } // &.#{$vertical}
  } // @each $vertical in...
} // li, div, tr

```

NON-SEMANTIC HELPERS AS EXTENDS

THAT REALLY DOES MEAN SOMETHING

EXTEND

includes another class in your place

```
// For image replacement
.ir {
  background-color: transparent;
  border: 0;
  display: inline-block;
  overflow: hidden;
  /* IE 6/7 fallback */
  *text-indent: -9999px;
  &:before {
    content: "";
    display: block;
    width: 0;
    height: 100%;
  }
}
```

```
.my-class {
  @extends .ir;
  border: 1px solid red;
}
```

SILENT EXTEND

won't print the original to your css

```
#header a%error {  
  color: red;  
  font-weight: bold;  
  font-size: 2em;  
}  
  
.notice {  
  @extend %error;  
}
```

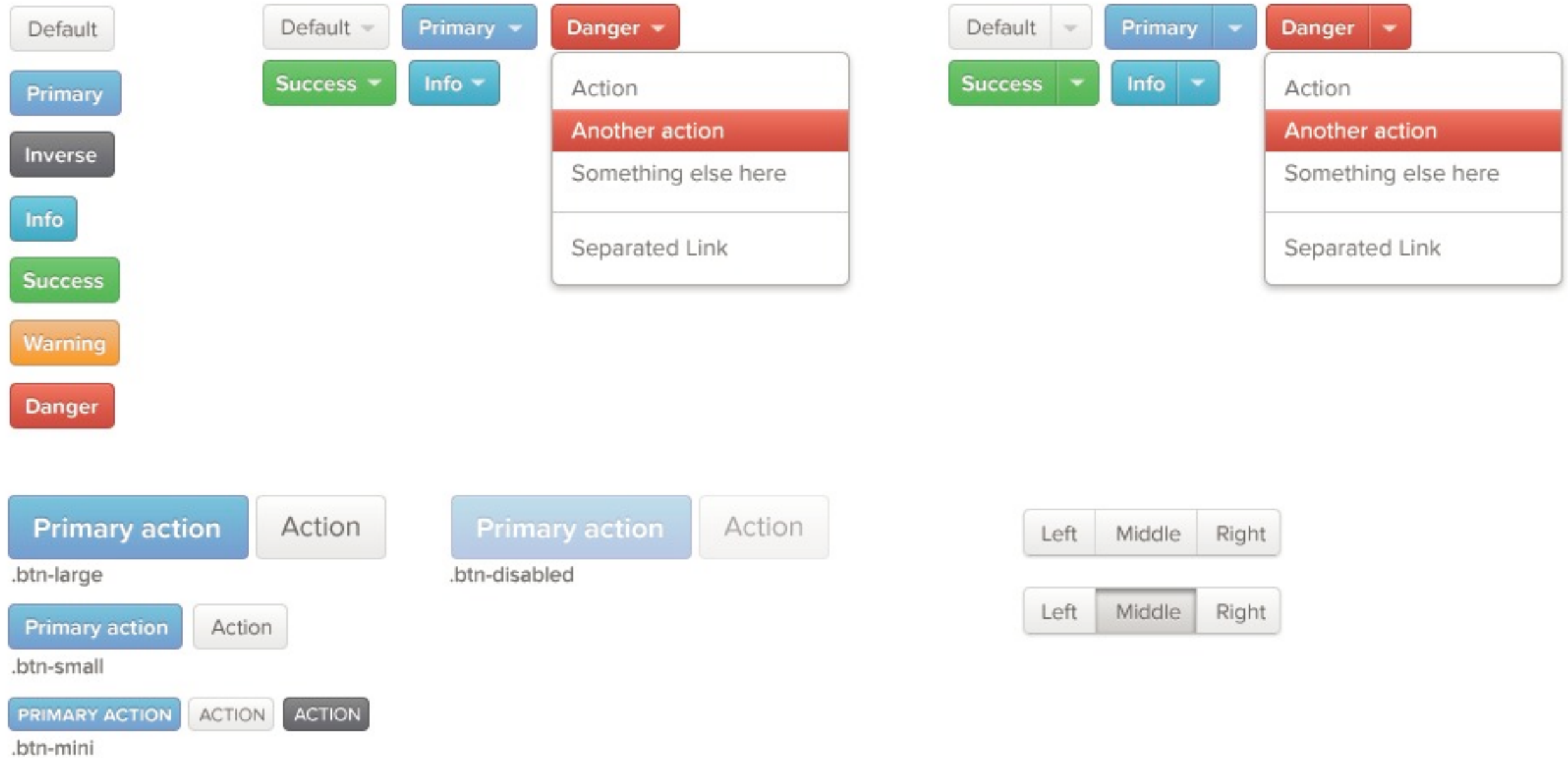
```
#header a.notice {  
  color: red;  
  font-weight: bold;  
  font-size: 2em;  
}
```

BUTTONS!

BORROWED AND IMPROVED

BUTTONS

ALL BUTTONS SHOULD HAVE 10PX PADDING L/R
AND WILL SIZE DOWN TO THAT MINIMUM



```
@mixin button ($style: simple, $base-color: #4294f0) {  
  
  @if type-of($style) == color {  
    $base-color: $style;  
    $style: simple;  
  }  
  
  @if $style == simple {  
    @include simple($base-color);  
  }  
  
  @else if $style == shiny {  
    @include shiny($base-color);  
  }  
  
  @else if $style == pill {  
    @include pill($base-color);  
  }  
}
```

```

@mixin simple ($base-color) {
  $stop-gradient: adjust-color($base-color, $saturation: 9%, $lightness: -11%);
  $border: adjust-color($base-color, $saturation: 9%, $lightness: -14%);
  $color: hsl(0, 0, 100%);
  $inset-shadow: adjust-color($base-color, $saturation: -8%, $lightness: 15%);
  $text-shadow: adjust-color($base-color, $saturation: 15%, $lightness: -18%);

  @if lightness($base-color) > 70% {
    $color: hsl(0, 0, 20%);
    $text-shadow: adjust-color($base-color, $saturation: 10%, $lightness: 4%);
  }

  border: 1px solid $border;
  border-radius: 3px;
  box-shadow: inset 0 1px 0 0 $inset-shadow;
  color: $color;
  display: inline;
  font-size: 11px;
  font-weight: bold;
  @include linear-gradient ($base-color, $stop-gradient);
  padding: 6px 18px 7px;
  text-shadow: 0 1px 0 $text-shadow;
  -webkit-background-clip: padding-box;

  &:hover {
    $base-color-hover: adjust-color($base-color, $saturation: -4%, $lightness: -5%);
    $stop-gradient-hover: adjust-color($base-color, $saturation: 8%, $lightness: -14%);
    $inset-shadow-hover: adjust-color($base-color, $saturation: -7%, $lightness: 5%);

    box-shadow: inset 0 1px 0 0 $inset-shadow-hover;
    cursor: pointer;
    @include linear-gradient ($base-color-hover, $stop-gradient-hover);
  }

  &:active {
    $border-active: adjust-color($base-color, $saturation: 9%, $lightness: -14%);
    $inset-shadow-active: adjust-color($base-color, $saturation: 7%, $lightness: -17%);

    border: 1px solid $border-active;
    box-shadow: inset 0 0 8px 4px $inset-shadow-active, inset 0 0 8px 4px $inset-shadow-active, 0 1px 1px 0
$grayLightest;
  }
}

```

```

@mixin buttonBackground($startColor, $endColor) {
  // gradientBar will set the background to a pleasing blend of these, to support IE<=9
  @include gradientBar($startColor, $endColor);
  // in these cases the gradient won't cover the background, so we override
  &:hover, &:active, &.active {
    background-color: $endColor;
  }

  &.disabled, &[disabled] {
    &:hover {
      @include gradientBar($startColor, $endColor);
    }
  }
  // IE 7 + 8 can't handle box-shadow to show active, so we darken a bit ourselves
  &:active,
  &.active {
    background-color: darken($endColor, 10%) #{"\9"};
    @include gradientBar($endColor, $startColor);
  }
  ~ ul.dropdown-menu li a:hover {
    // gradientBar will set the background to a pleasing blend of these, to support IE<=9
    @include gradientBar($startColor, $endColor);
    // in these cases the gradient won't cover the background, so we override
    &:hover, &:active, &.active {
      background-color: $endColor;
    }
  }

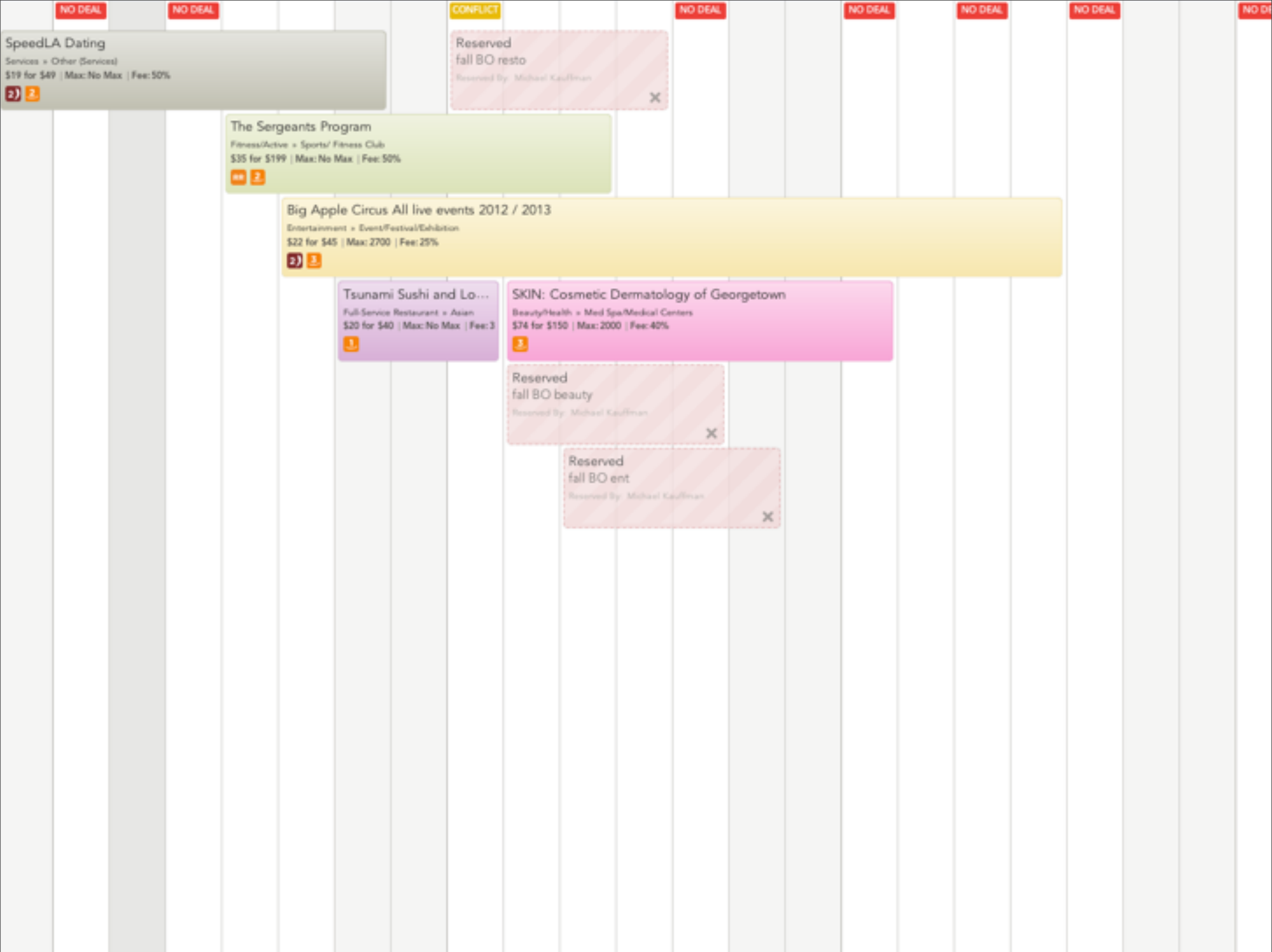
  &.disabled, &[disabled] {
    &:hover {
      @include gradientBar($startColor, $endColor);
    }
  }
  // IE 7 + 8 can't handle box-shadow to show active, so we darken a bit ourselves
  &:active,
  &.active {
    background-color: darken($endColor, 10%) #{"\9"};
    @include gradientBar($endColor, $startColor);
  }
}

```

```
@mixin gradient-vertical($startColor: #555, $endColor: #333) {
  background-color: $endColor;
  background-image: -khtml-gradient(linear, left top, left bottom, from($startColor), to($endColor)); //
Konqueror
  background-image: -moz-linear-gradient(top, $startColor, $endColor); // FF 3.6+
  background-image: -ms-linear-gradient(top, $startColor, $endColor); // IE10
  background-image: -webkit-gradient(linear, left top, left bottom, color-stop(0%, $startColor), color-
stop(100%, $endColor)); // Safari 4+, Chrome 2+
  background-image: -webkit-linear-gradient(top, $startColor, $endColor); // Safari 5.1+, Chrome 10+
  background-image: -o-linear-gradient(top, $startColor, $endColor); // Opera 11.10
  //background-image: linear-gradient(to top, $startColor, $endColor); // The standard
  background-repeat: repeat-x;
  filter: progid:DXImageTransform.Microsoft.gradient(startColorstr='#{ $startColor }', endColorstr='#{ $endColor }',
GradientType=0); // IE9 and down
}
```

SCHEDULER/ CALENDAR

COMPLEX JS BASED UI



```
// Width of Deal Span - How Many Does it Span
$dayCount: 1;
@while $dayCount < 60 {
  &.deal-span-#{ $dayCount } {
    background-size: (($daySize * $dayCount) - 2px) 80px;
    // Subtract 2 on each side for Border Spacing
    width: ($dayCount*$daySize) - 8px;
  }
  $dayCount: $dayCount +1;
} // @while
```

```
@mixin calendar-deal-visual($color) {
  $light-mix: mix($color , $white, 30%);
  $dark-mix: mix($color , $white, 70%);
  background-color: $light-mix;
  border-color: $dark-mix;
  &.is-published-in-pipeline {
    @include linear-gradient(bottom, $dark-mix, $light-mix);
    border-style: solid;
    opacity: 1 !important;
  }
  &:hover {
    border: 2px solid $color !important;
    opacity: 1;
  }
} // @mixin calendar-deal-visual($color)
```

CONTENT :AFTER

KEEPING THE ACTUAL DATA CLEAN

```
&.merchants-matching {
  font-size: 10px;
  left: $concept-placement;
  padding: 0;
  top: 35px;
  &:after {
    border-right: 1px solid $grayLight;
    content: "match";
    line-height: 11px;
    padding: 0 5px;
  }
}
&.requests {
  font-size: 10px;
  left: $concept-placement + 65px;
  padding: 0;
  top: 35px;
  &:after {
    border-right: 1px solid $grayLight;
    content: "request";
    line-height: 11px;
    padding: 0 5px;
  }
}
&.being-worked {
  font-size: 10px;
  left: $concept-placement + 125px;
  padding: 0;
  top: 35px;
  &:after {
    content: "being worked";
    line-height: 11px;
    padding: 0 5px;
  }
}
}
```

TABLES IN FLUX

USING VARIABLES AND MATH

```
$category-col-width: 56px;
$concept-info-col-width: 220px;
$last-run-col-width: 90px;
$tier-col-width: 50px;
$aging-col-width: 60px;
$run-col-width: 105px;
$hold-col-width: 95px;
$rating-col-width: 90px;
$deal-count-col-width: 110px;
$target-col-width: 90px;
$vertical-col-width: 135px;
$functions-col-width: 199px;

$cell-margin: 5px !default;
$concept-placement: $category-col-width + 10px;
$last-run-date-placement: $concept-placement + $concept-info-col-width + $cell-margin;
$tier-placement: $last-run-date-placement + $last-run-col-width + $cell-margin;
$aging-placement: $tier-placement + $tier-col-width + $cell-margin;
$run-placement: $aging-placement + $aging-col-width + $cell-margin;
$hold-placement: $run-placement + $run-col-width + $cell-margin;
$rating-placement: $hold-placement + $hold-col-width + $cell-margin;
$deal-count-placement: $rating-placement + $rating-col-width + $cell-margin;
$target-placement: $deal-count-placement + $deal-count-col-width + $cell-margin;
$vertical-placement: $target-placement + $target-col-width + $cell-margin;
$functions-placement: $vertical-placement + $vertical-col-width + $cell-margin;

@import "mp_table";
```

```

table.table {
  background: none;
  position: relative;
  margin-bottom: 10px;
  width: 100%;
  thead {
    border-bottom: 5px solid $white;
    th {
      @include inline-block;
      border-radius: 0;
      font-size: 10px;
      margin-right: 5px;
      text-align: left;
      &.category, &.cat {
        text-align: center;
        width: $category-col-width;
      }
      &.concept-info {
        width: $concept-info-col-width;
      }
      &.last-run {
        width: $last-run-col-width;
      }
      &.tier {
        width: $tier-col-width;
      }
      &.aging {
        width: $aging-col-width;
      }
      &.run {
        width: $run-col-width;
      }
      &.hold {
        width: $hold-col-width;
      }
      &.status &.rating {

```

```

@-moz-document url-prefix() {
    $category-col-width: 56px;
    $concept-info-col-width: 220px;
    $last-run-col-width: 90px;
    $tier-col-width: 50px;
    $aging-col-width: 60px;
    $run-col-width: 105px;
    $hold-col-width: 95px;
    $rating-col-width: 90px;
    $deal-count-col-width: 110px;
    $target-col-width: 90px;
    $vertical-col-width: 135px;
    $functions-col-width: 200px;

    $cell-margin: 10px;
    $concept-placement: $category-col-width + 10px;
    $last-run-date-placement: $concept-placement + $concept-info-col-width + $cell-margin;
    $tier-placement: $last-run-date-placement + $last-run-col-width + $cell-margin;
    $aging-placement: $tier-placement + $tier-col-width + $cell-margin;
    $run-placement: $aging-placement + $aging-col-width + $cell-margin;
    $hold-placement: $run-placement + $run-col-width + $cell-margin;
    $rating-placement: $hold-placement + $hold-col-width + $cell-margin;
    $deal-count-placement: $rating-placement + $rating-col-width + $cell-margin;
    $target-placement: $deal-count-placement + $deal-count-col-width + $cell-margin;
    $vertical-placement: $target-placement + $target-col-width + $cell-margin;
    $functions-placement: $vertical-placement + $vertical-col-width + $cell-margin;
    body div#main section#content {
        @import "mp_table";
    }
    th.functions {
        width: 150px;
    }
}

```

BUT DOES IT TEST?

SASSQUATCH!

<https://github.com/d-i/Sassquatch>

```
@function strip-units($number) {
  $unit: unit($number);
  $one: 1px;
  @if $unit == em {
    $one: 1em;
  } @else if $unit == px {
    $one: 1px;
  }
  @return $number/$one;
}

@function to-px($em){
  @return strip-units($em) * $base-size;
}

@function to-em($px,$context:1em){
  @if unit($context) == em {
    @return $px / to-px($context) * 1em;
  } @else if unit($context) == px {
    @return $px / $context * 1em;
  }
}
```

```
@import "../functions";
@import "../lib/matchers";
$base-size: 10px;

strip-units {
  remove-from-em {
    expect: to-equal(strip-units(1em), 1);
  }
}

to-px {
  basic-conversion {
    expect: to-equal(to-px(1em), 10px);
  }
}

to-em {
  basic-conversion {
    expect: to-equal(to-em(10px), 1em);
  }

  convert-with-em-context {
    expect: to-equal(to-em(10px, 2em), .5em);
  }

  convert-with-em-context-messy {
    expect: to-almost-equal(to-em(14px, 3em), .46667em);
  }

  convert-with-px-context {
    expect: to-equal(to-em(10px, 20px), .5em);
  }
}
```

RULE

#3

Our templates should be free of client-side code. We unobtrusively attach behavior from our JavaScript files

data-remote

is the magic word

COMMONLY KNOWN AS :remote => true

READ rails.js

WE'D SAY DO IT NOW, BUT WE'RE ON A SCHEDULE

PUT IT IN A FILE

```

<%= simple_form_for @feature do |f| %>
  <%= f.association :client,
    :prompt => "Please choose the featured client" %>
  <%= f.input :headline %>
  <%= f.input :slug, :hint => "Will be used as a url, so no spaces" %>
  <%= f.input :description, :as => :text %>
  <%= f.input :seo_keywords %>
  <%= f.input :seo_description, :as => :text %>
  <%= f.button :submit, :class => "primary big" %>
<% end %>

```

```

<script>
$(function() {
  $('#feature_headline').keyup(function () {
    var str = '';
    str = $('#feature_headline').val();
    str = str.toLowerCase().replace(/[?{}[\]\|\^%#\"\' ]/g, '').replace(/ /g, '-');
    $('#feature_slug').val(str);
  })
})
</script>

```

RULE

#4

Our templates should be easy to read. We consistently indent correctly using spaces instead of tabs, type lines no longer than 80 characters, and extract complex logic to helpers and presenters.

Writing *HTML*



```
<td>  
  <%= link_to client.name, client_path, :class => "client login", :target => "_blank" %>  
</td>
```

WAT.

```
<td>  
  <%= link_to client.name,  
              client_path,  
              :class => "client login",  
              :target => "_blank" %>  
</td>
```

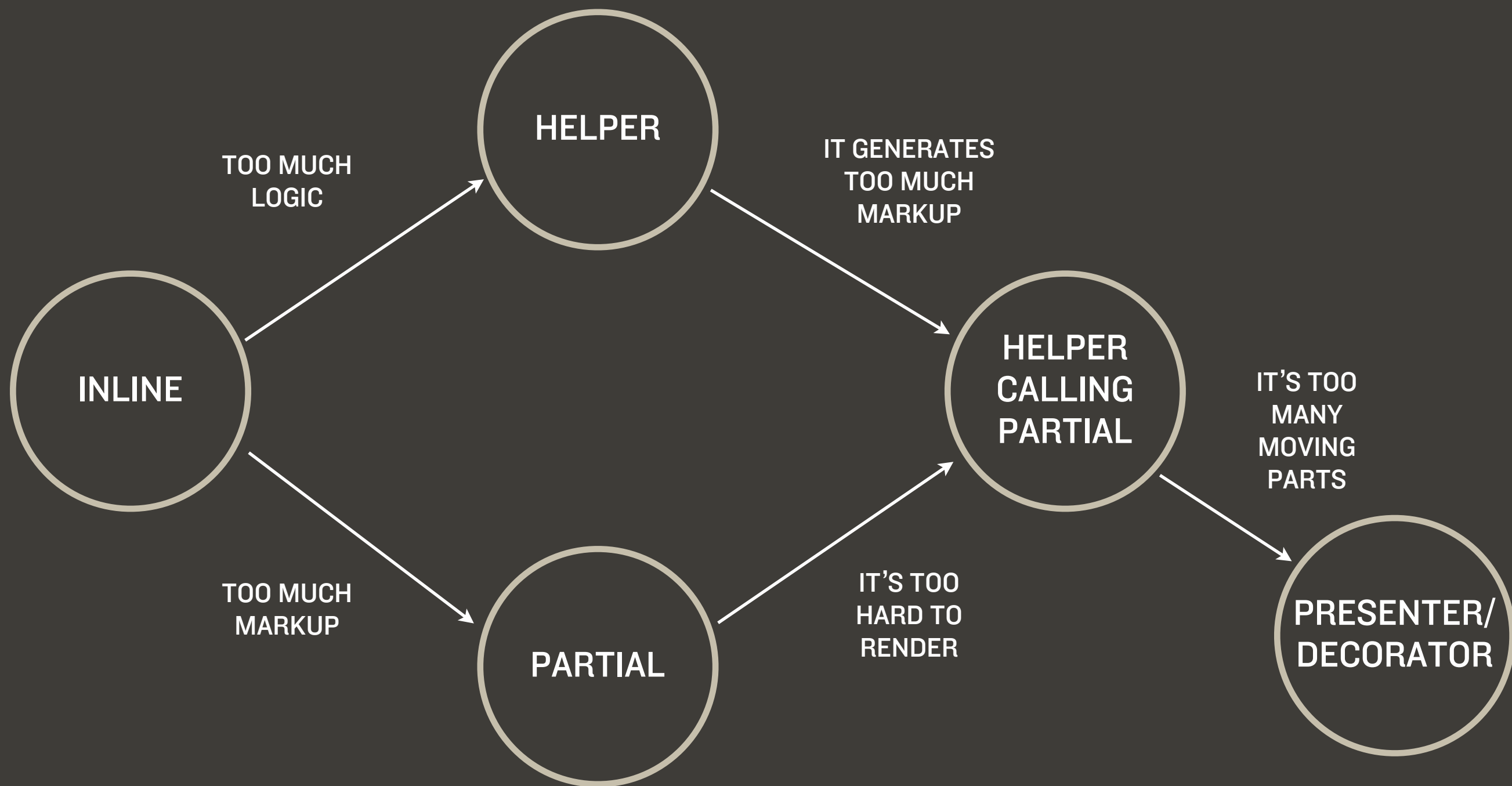
BETTER.

```
<td>  
  <%= link_to_client(@client) %>  
</td>
```

SUPER.

```
<td>  
  <%= client_presenter.pretty_link %>  
</td>
```

HAWT.



Presenters



```
class PersonPresenter

  def initialize(person)
    @person = person
  end

  def signup_info
    info = "#{@person.signup_source} signup"
    if @person.referrer
      info << ", referred by #{@person.referrer.name}"
    end
    info
  end

  # ...

end
```

DEFINE.

```
def person_presenter
  @person_presenter ||= PersonPresenter.new(@person)
end
```

```
def person_presenter(person = @person)
  PersonPresenter.new(person)
end
```

```
def person_presenter(person = @person, &block)
  PersonPresenter.new(person).tap do |presenter|
    yield presenter if block_given?
  end
end
```

INSTANTIATE.

```
class PersonPresenter

  def initialize(view, person)
    @v = view
    @person = person
  end

  # ...

end
```

```
def person_presenter(person = @person, &block)
  PersonPresenter.new(self, person)
end
```

ENABLE.

```
class PersonPresenter

  # ...

  def link
    @v.link_to @person.full_name, @person
  end

  def to_s
    @v.render @person
  end

end
```

```
<%= person_presenter.link %>
```

```
<%= person_presenter %>
```

GENERATE.

```
class RankingPresenter

  def initialize(view, *people)
    @v = view
    @people = people
  end

  def with_grades(since = 1.month.ago, &block)
    # calculate scores, yield, generate, etc
  end

end
```

AGGREGATE.

**CODE CLEAN,
NOT CLEVER.**

ALL THE USUAL RULES APPLY

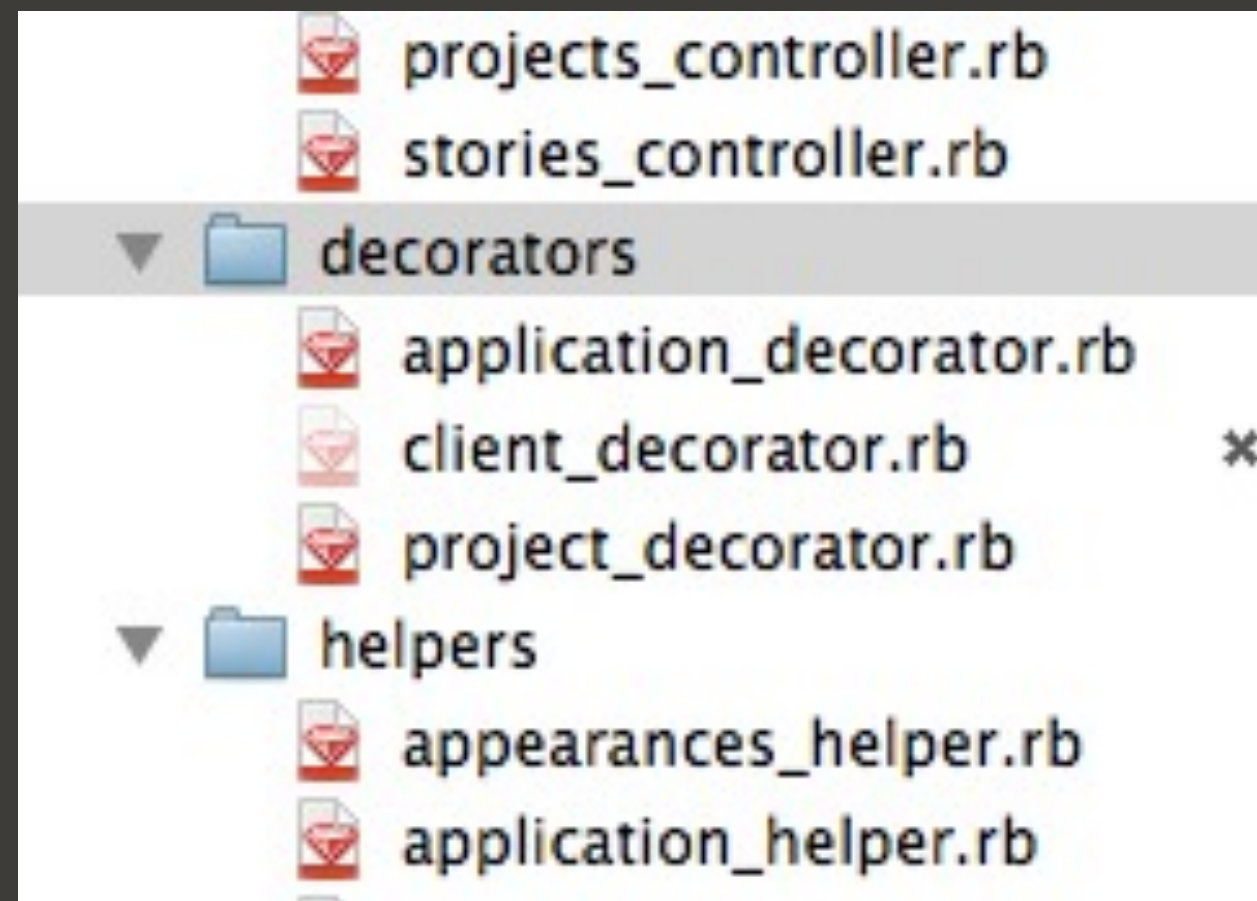


<https://github.com/jcasimir/draper>

```
gem 'draper'
```

```
$rails g draper:install
```

```
$rails g draper:decorator Client
```



```
<p>
  <% if location.present? %>
    Located in <%= @client.location %>
  <% else %>
    <span class="none">Location Unknown</span>
  <% end %>
</p>
```

```
def show
  @client = ClientDecorator.find(params[:id])
  @projects = @client.projects
  respond_with @client
end
```

```
class ClientDecorator < ApplicationDecorator
  decorates :client
  decorates_association :project

  def location_info
    if model.location.present?
      "Located in #{model.location}"
    else
      h.content_tag :span, "Location Unknown", :class => "none"
    end
  end

  def basecamp_link
    if model.basecamp_url.present?
      h.content_tag :p, h.link_to("Basecamp Page", model.basecamp_url)
    else
      h.content_tag :p, "No Basecamp URL", :class => "none"
    end
  end
end
```

```

<p class="button-right">
  <%= link_to "Edit Client",
            edit_client_path(@client),
            :class => "button icon edit" %>

</p>
<h1><%= @client.name %></h1>
<p><%= @client.location_info %></p>
<%= @client.basecamp_link %>

<p>Shortname: <%= @client.short_name %></p>

<h2>Folders for <%= @client.name %></h2>
<% if @client.folders.empty? %>
  <p>There are no client folders in the system.</p>
  <p>
    <%= link_to "Add Folder",
              new_client_folder_path(@client),
              :class => "button add icon" %>

  </p>
<% else %>
  <%= nested_folders @client.folders.arrange %>
  <p>
    <%= link_to "Add Folder",
              new_client_folder_path(@client),
              :class => "button add icon" %>
  </p>
<% end %>

```

AI Architecture

Located in Washington, DC

No Basecamp URL

Shortname: ai-architecture

Folders for AI Architecture

There are no client folders in the system.

[+ Add Folder](#)

Projects for AI Architecture

2100 M Street (2100-m-street)

Meticulous completed a rendering for AI Architecture and Lerner Enterprises for their property at 2100 M Street. Meticulous composite it onto the building, increasing entourage in the street and showing the new construction so that building tenants

Completed: 01 Nov 2002 | Premiered/Released: 13 Nov 2002

Dubai Technology Park (dubai-technology-park)

RULE

#5

Our templates should be easy to find. We use standard naming conventions and place them in the directory for the related resource (or the layout).

render @clients

SHARING PARTIALS

RULE

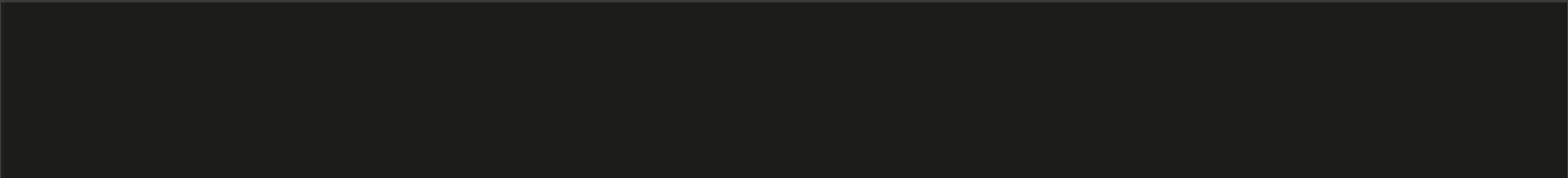
#6

Our markup should be easy for the entire team to modify. We prefer rendering partials over generating markup from Ruby code.

```
def full_name(person)
  raw "<p class='name'>
    #{person.first_name} #{person.last_name}
  </p>"
end
```

BAD.

MODEL?



MODEL?

```
def full_name(person)  
  “#{person.first_name} #{person.last_name}”  
end
```

MODEL?

RULE

#7

Our technology choices should help, not hinder, the team. We use the templating language and tools that work best for all of us.

Haml.

BAKE OFF

Haml.

`<%= ERB %>`

```
#profile
  .left.column
    #date= print_date
    #address=
current_user.address
  .right.column
    #email= current_user.email
    #bio= current_user.bio
```

```
<div id="profile">
  <div class="left column">
    <div id="date"><%= print_date %></div>
    <div id="address">
      <%= current_user.address %></div>
    </div>
  <div class="right column">
    <div id="email">
      <%= current_user.email %></div>
    <div id="bio"><%= current_user.bio %></div>
  </div>
</div>
```

BAKE OFF

Haml.

<%= ERB %>

```
#profile
  .left.column
    #date= print_date
    #address=
current_user.address
  .right.column
    #email= current_user.email
    #bio= current_user.bio
```

```
<div id="profile">
  <div class="left column">
    <div id="date"><%= print_date %></div>
    <div id="address">
      <%= current_user.address %></div>
    </div>
    <div class="right column">
      <div id="email">
        <%= current_user.email %></div>
      <div id="bio"><%= current_user.bio %></div>
    </div>
  </div>
```



DIV

DIV DIV

DIV DIV DIV

DIV

DIV

DIV

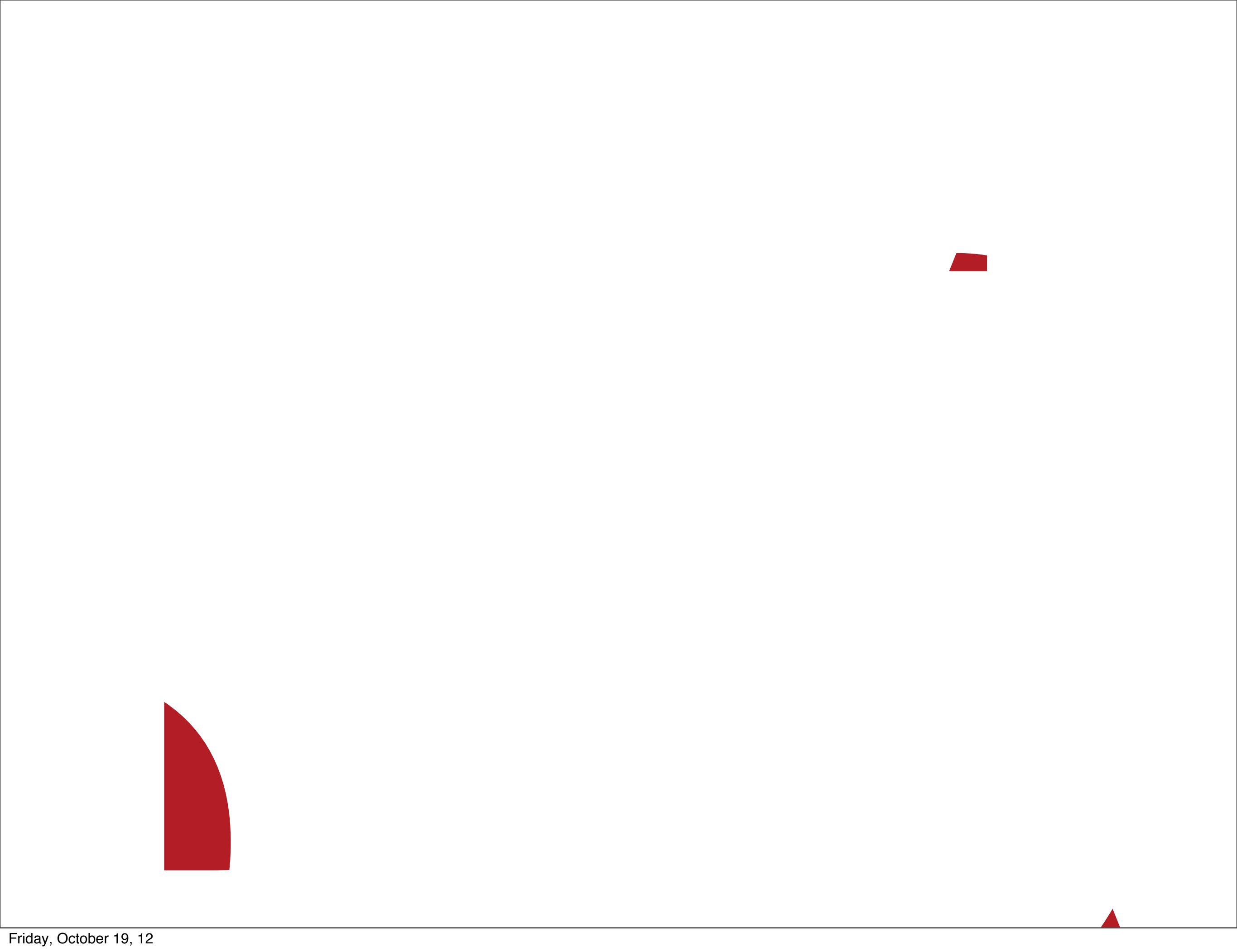
DIVD
DIVD
DIVD

DAVID
BIRN









(OMG.)

HAVE YOUR CAKE AND...

Haml.

<% = ERB %>

```
%section #profile
  .left.column
    %p #date= print_date
    %p #address=
current_user.address
  .right.column
    %p #email= current_user.email
    %p #bio= current_user.bio
```

```
<section id="profile">
  <div class="left column">
    <p id="date"><%= print_date %></p>
    <p id="address">
      <%= current_user.address %></p>
    </div>
  <div class="right column">
    <p id="email">
      <%= current_user.email %></p>
    <p id="bio"><%= current_user.bio %></p>
    </div>
</section>
```

SOLUTION:

Maybe the templating language isn't the problem. Maybe you are.

Refactor your views.

RULE

#8

Our designs for the Web should work on a variety of devices and browsers. We build for the simplest interactions first and support progressive enhancement.

SO MANY DEVICES (and browsers)

320px != 2650px

```
<!DOCTYPE html>
<!--[if lt IE 7]> <html class="ie ie6 lang="en"> <![endif]-->
<!--[if IE 7]> <html class="ie ie7" lang="en"> <![endif]-->
<!--[if IE 8]> <html class="ie ie8" lang="en"> <![endif]-->
<!--[if gt IE 8]><!--> <html lang="en"> <!--<![endif]-->
```

```
.profile {
  color: #ccc;
  margin: 20px;
  padding: 5px 10px;
  width: 300px;
}

.ie6 .profile {
  margin: 18px;
}
```

Modernizr Download Builder

Modernizr Download Builder

HTML5 Cross Browser Polyfills -...

Modernizr

FRONT-END DEVELOPMENT DONE RIGHT

DOWNLOAD

DOCUMENTATION

RESOURCES

NEWS

"An indispensable tool."
— Bruce Bowman, , *Adobe BrowserLab Product Manager*

Download Modernizr 2

Use the [Development version](#) to develop with and learn from. Then, when you're ready for production, use the build tool below to pick only the tests you need.

CSS3

TOGGLE

- ☒ @font-face
- ☐ background-size
- ☐ border-image
- ☒ border-radius
- ☒ box-shadow
- ☐ Flexible Box Model (flexbox)
- ☐ hsla()
- ☒ multiple backgrounds
- ☒ opacity
- ☒ rgba()
- ☒ text-shadow
- ☐ CSS Animations
- ☐ CSS Columns
- ☐ CSS Generated Content
- ☐ CSS Gradients
- ☐ CSS Reflections

HTML5

TOGGLE

- ☐ applicationCache
- ☐ Canvas
- ☐ Canvas Text
- ☐ Drag 'n Drop
- ☐ hashchange
- ☐ History (pushState)
- ☐ HTML5 Audio
- ☐ HTML5 Video
- ☐ IndexedDB
- ☒ Input Attributes
Note: does not add classes
- ☒ Input Types
Note: does not add classes
- ☐ localStorage
- ☐ postMessage
- ☐ sessionStorage
- ☐ Web Sockets

Misc.

TOGGLE

- ☐ Geolocation API
- ☐ Inline SVG
- ☐ SMIL
- ☐ SVG
- ☐ SVG clip paths
- ☒ Touch Events
- ☐ WebGL

Extra

- ☒ HTML5 Shim/IEPP
- ☒ Modernizr.load ([yepnope.js](#))
- ☐ MQ Polyfill ([respond.js](#))
- ☐ Media Queries
- ☒ Add CSS Classes

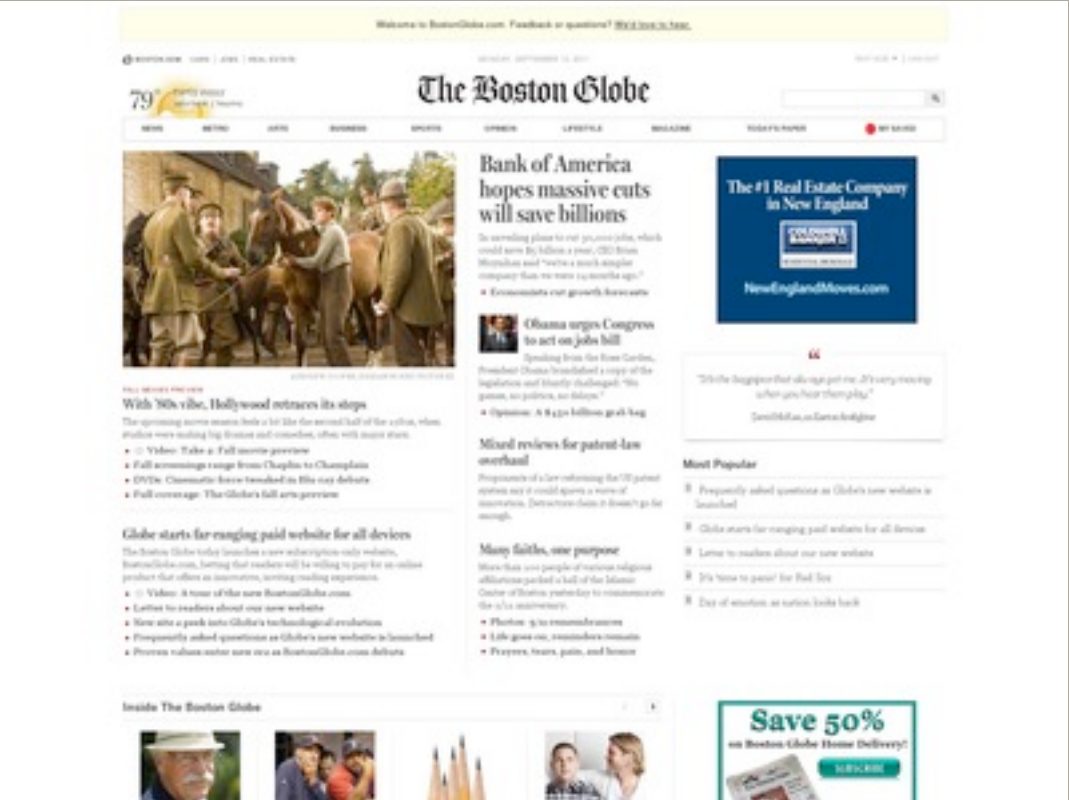
Friday, October 19, 12

Media Queries



MOBILE USER INTERACTION

```
.profile {  
  color: #ccc;  
  margin: 20px;  
  padding: 5px 10px;  
  width: 300px;  
}  
  
.ie6 .profile {  
  margin: 18px;  
}  
  
@media screen and (device-width: 1024px) and (orientation:landscape) {  
  body { font-size: 70%; }  
  .profile { width: 50%; }  
}
```





A BOOK APART

Brief books for people who make websites

No.

4

Ethan Marcotte

RESPONSIVE WEB DESIGN

FOREWORD BY Jeremy Keith

<http://www.abookapart.com>



A BOOK APART

Brief books for people who make websites

NO.

6

Luke Wroblewski

MOBILE FIRST

FOREWORD BY Jeffrey Zeldman

<http://www.abookapart.com>

RULE

#9

Our designs for email must work for a wide range of providers. We use HTML tables and images as necessary and always provide a plain-text alternative.

TABLES SUCK

TELL 'EM RAY



EXCEPT FOR EMAIL



litmus

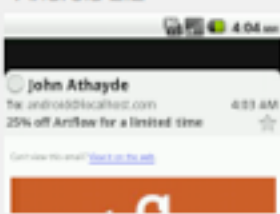
John Athayde

[Log Out](#)[System Status](#)[HELP](#)[Tests](#)[Analytics](#)[Billing](#)[Account](#)[Extras](#)[Retest](#)

25% off Artflow for a limited time

We're now running your test. It'll be ready in about 7 minutes.

Android 2.2



AOL Mail (Explorer)



AOL Mail (Firefox)



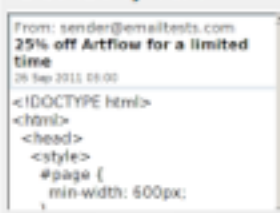
Apple Mail 4



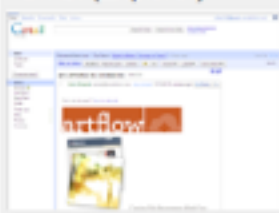
BlackBerry HTML



BlackBerry Text



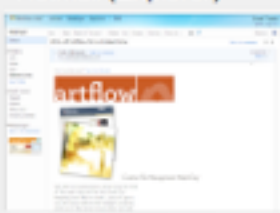
Gmail (Explorer)



Gmail (Firefox)



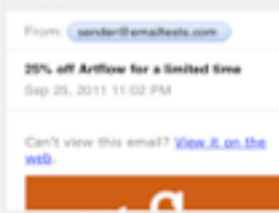
Hotmail (Explorer)



Hotmail (Firefox)



iPad



iPhone



Lotus Notes 6.5



Lotus Notes 7



Lotus Notes 8



Lotus Notes 8.5



Previews

Campaign screenshots



Sharing

Publish your results



VERSIONS

Version 2

TAGS

[Add tags](#)

DOWNLOAD

Sorry, the source code isn't available for download.

Popular Questions

Which email clients should I test on?

How can I see previews of my email with images enabled?

What do the 'compatible' and 'incompatible' buttons do?

How do I publish my test results?

My Litmus result looks different to my local one

Understanding your spam filter results from email clients

What does 'There was a problem' mean?

[More popular questions →](#)

SOLUTION:

Tables are not for layout unless it's tabular data or unless you're doing HTML emails, and then all sins are forgiven.

RULE

#10

Our application should perform as well as it needs to, when it needs to. We implement the most elegant approach first, then we optimize when necessary.

WHY DOES IT LOAD SLOW?

YSlow and PageSpeed

The screenshot displays the YSlow tool interface, which is part of the Google Chrome DevTools suite. The top navigation bar includes tabs for 'Inspect', 'Console', 'HTML', 'CSS', 'Script', 'DOM', 'Net', and 'YSlow'. The 'YSlow' tab is active, showing a performance audit for the URL 'http://search.yahoo.com/web?...'. The overall performance score is 99, with a 'Grade A' rating. The audit is based on the 'YSlow(V2)' ruleset.

The main content area is divided into two sections. On the left, a list of 22 rules is shown, each with a grade and a description. The rules are:

- Grade A: Make fewer HTTP requests
- Grade A: Use a Content Delivery Network (CDN)
- Grade A: Add Expires headers
- Grade A: Compress components with gzip
- Grade A: Put CSS at top
- Grade A: Put JavaScript at bottom
- Grade A: Avoid CSS expressions
- N/A: Make JavaScript and CSS external
- Grade A: Reduce DNS lookups
- Grade A: Minify JavaScript and CSS
- Grade A: Avoid URL redirects
- Grade A: Remove duplicate JavaScript and CSS
- Grade A: Configure entity tags (ETags)
- Grade A: Make AJAX cacheable
- Grade A: Use GET for AJAX requests
- Grade A: Reduce the number of DOM elements
- Grade A: Avoid HTTP 404 (Not Found) error
- Grade B: Reduce cookie size
- Grade A: Use cookie-free domains
- Grade A: Avoid AlphaImageLoader filter
- Grade A: Do not scale images in HTML
- Grade A: Make favicon small and cacheable

On the right, a detailed explanation for the 'Make fewer HTTP requests' rule is provided. It states: 'Decreasing the number of components on a page reduces the number of HTTP requests required to render the page, resulting in faster page loads. Some ways to reduce the number of components include: combine files, combine multiple scripts into one script, combine multiple CSS files into one style sheet, and use CSS Sprites and image maps.' A link to 'Read More' is also present.

At the bottom of the right section, the copyright notice reads: 'Copyright © 2009 Yahoo! Inc. All rights reserved.'

UNUSED SELECTORS

UI side: Dust Me Selectors

The image shows a 'View saved data' window from the Dust Me Selectors tool. The window is titled 'View saved data' and has a search bar with 'infoether.com' entered. Below the search bar are three tabs: 'Unused selectors' (selected), 'Used selectors', and 'Spider log'. The 'Unused selectors' tab shows two sections of unused selectors:

- 58 unused selectors:** (from `http://infoether.com/stylesheets/reset.css?1274119959`)
- 55 unused selectors:** (from `http://infoether.com/stylesheets/master.css?1274119959`)

The second section lists specific selectors and their line numbers in the CSS file:

Selector	Line
<code>ul#nav li a#products</code>	Line 74
<code>ul#nav li a#media</code>	Line 78
<code>body#team ul#nav li a#team</code>	Line 83
<code>body#products ul#nav li a#products</code>	Line 84
<code>body#articles ul#nav li a#blog</code>	Line 85
<code>body#consulting ul#nav li a#consulting</code>	Line 86
<code>body#clients ul#nav li a#clients</code>	Line 87
<code>body#media ul#nav li a#media</code>	Line 88
<code>body#training ul#nav li a#training</code>	Line 89
<code>body#contact ul#nav li a#contact</code>	Line 90

At the bottom of the window, it states: 'Found 117 unused selectors among 3 stylesheets'. There are three buttons at the bottom: 'Save as CSV...', 'Clear this data', and 'OK'.

The background shows a browser window with the URL `http://infoether.com/`. The website is titled 'InfoEther' and features a large banner for 'RUBY & RAILS ECOSYSTEM WHITE PAPER'. The banner includes a diagram with nodes for MRI, Rubinius, Maglev, MacRuby, RUBY RUNTIMES, Consulting, IMPLEMENTATION ACTIVITY, Publishing, and Deployment. Below the banner, there is a section titled 'SPEAKING AND PRESENTING' and a mention of 'RAILS CONF' from June 7-10, 2010.

sitepoint.com/dustmeselectors

UNUSED SELECTORS

Gem: Deadweight

```
# lib/tasks/deadweight.rake

require 'deadweight'

Deadweight::RakeTask.new do |dw|
  dw.mechanize = true

  dw.root = 'http://staging.example.com'

  dw.stylesheets = %w( /stylesheets/style.css )

  dw.pages = %w( / /page/1 /about )

  dw.pages << proc {
    fetch('/login')
    form = agent.page.forms.first
    form.username = 'username'
    form.password = 'password'
    agent.submit(form)
    fetch('/secret-page')
  }

  dw.ignore_selectors = /hover|lightbox|superimposed_kittens/
end
```

www.github.com/aanand/deadweight



GET THEM ALL!

<http://www.therailsview.com/rules.pdf>



BE CURIOUS





BOOK CODE FOR 25% OFF
AT www.pragprog.com/titles/warv:

AthaydeWilliamsRailsView



THANK *You*

WEB

www.therailsview.com

TWITTER

[@boboroshi](https://twitter.com/boboroshi)

[@therailsview](https://twitter.com/therailsview)

EMAIL

john.athayde@livingsocial.com