Unobtrusive Javascript



topfunky corporation



RAILS PODCAST 6>

Dan Webb

Friday, March 16, 2007

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The stylishly sneakered leading proponent of unobtrusive Javascript gives advice about Rails freelancing and standards-based website development.

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RailsConf London

Bape

Interviewed by Geoffrey Grosenbach

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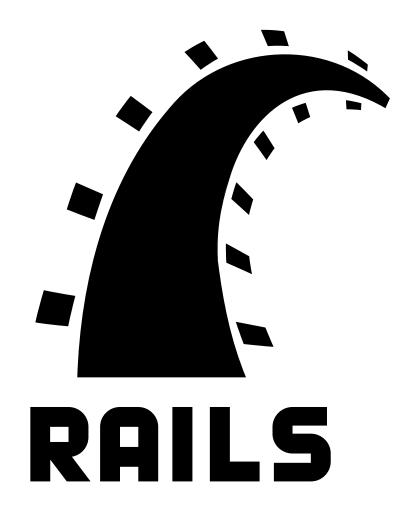
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"Separating behavior from markup"

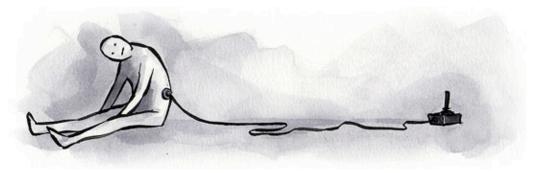
-- Jeremy Keith

JUNE 20, 2006

Behavioral Separation

by JEREMY KEITH

Published in: Scripting | Olscuss this article »



Breaking up is hard to do. But in web design, separation can be a good thing. Content, style, and behavior all deserve their own space.

Style guide

One of the greatest advantages to designing with Cascading Style Sheets is the potential for separation of style and content.

You could style an entire website using nothing but inline style declarations:

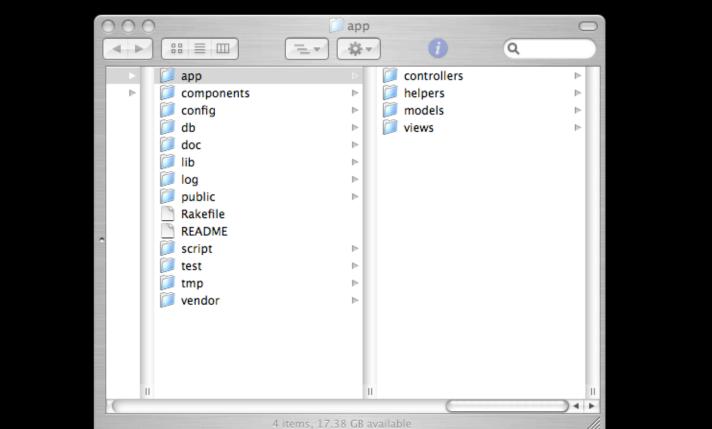
This text is important



"Writing websites in a way that works with or without Javascript."

-- me















Tools











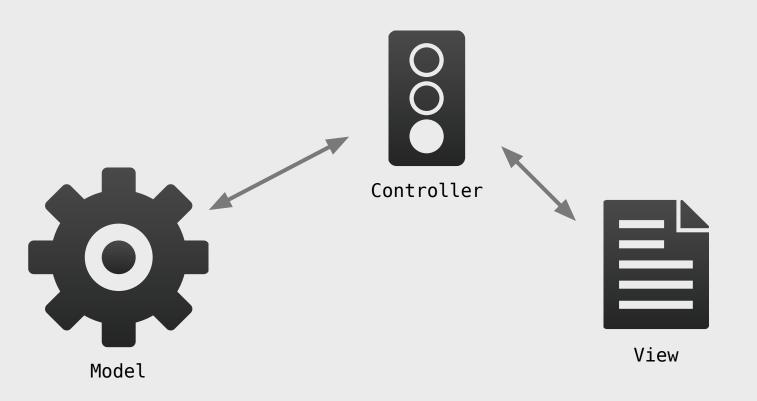








MVC Architecture



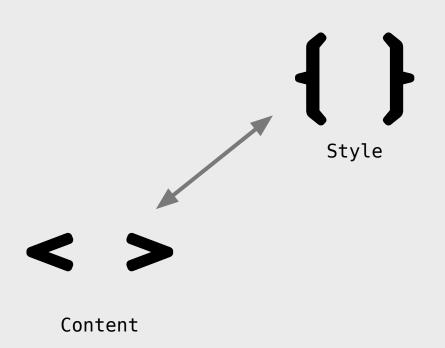
MVC for the Client



Content

<h2>Articles</h2>

MVC for the Client



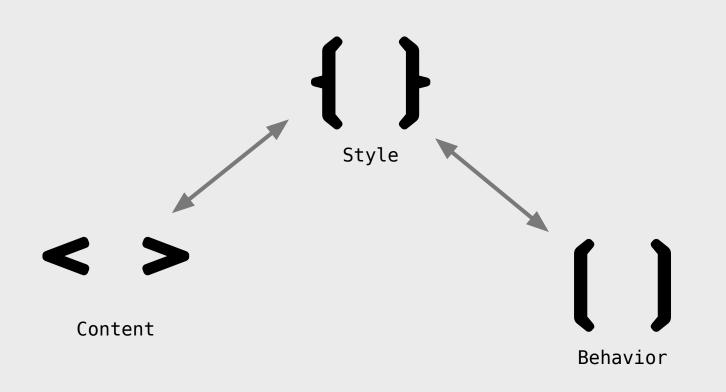
```
h2 {
  font-family: "Helvetica Neue";
  color: #ff43a7;
  background-color: black;
}
```

Articles

Articles

ARTICLES

MVC for the Client



The Big Picture







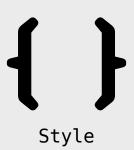


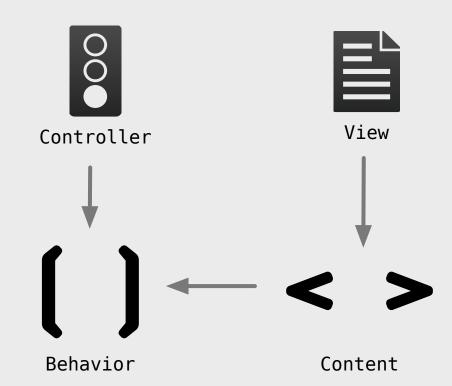




The Big Picture







The Problem

```
<%= link_to_remote "Show details",
    :url => article_url("details"),
    :loading => "$('loading').show()",
    :complete => "$('loading').hide()" %>
```

The Problem

```
<a href="#"
  onclick="new Ajax.Request('http://loca'
  {asynchronous:true,
    evalScripts:true,
    onComplete:function(request){$('loading) onLoading:function(request){$('loading) return false;">
    Show details</a>
```

<a href="#"

new Ajax.Request('http://localhost:
3000/articles/details',
{asynchronous:true, evalScripts:true,
onComplete:function(request){\$
 ('loading').hide()},
onLoading:function(request){\$
 ('loading').show()}}); return false;"

< a	href="http://onclick="new		

What can you do with the UJS for Rails Plugin?

Define your page behaviours using CSS-style selectors and Ruby

UJS for Rails makes it easy to apply behaviour to your page. Simply specify the element(s) of your page that you want the behaviour to apply to using CSS-style selectors and the event that you want to trigger the behaviour, and the Javascript that you want to run. In addition, you can write your behaviours using RJS-style Ruby to Javascript proxies.

Use built-in Rails Javascript and AJAX helpers unobtrusively out of the box

If you need to retrofit an existing application with unobtrusive behaviour or you are used to using the Rails JavaScript Helpers then that's not a problem. UJS for Rails has upgraded the Rails JavaScript Helpers so they apply their JavaScript unobtrusively. Simply work the same way you always have done and UJS for Rails will handle it for you.

```
@ example.rhtml

d= form_remote_tog :url => {:action => 'create'} %

<label>Your name</label>
<input type="text" />

d= submit_tag "Gimme some AJAXI" %>

d= submit_tag "Gimme some AJAXI" %>
```

Grab the latest release of the UJS Rails Plugin:
script/plugin install http://source.ujs4rails.com/current/unobtrusive_javascript

UJS Requires Prototype 1.5.0 RC0 or greater

What can you do with the UJS for Rails Plugin?

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www.ujs4rails.com

unobtrusively out of the box

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```
e example.rhtml

deform_remote_tog :url => {:action => 'create'} %

| clabel>Your name</label>
| clabel>Your name</label>
| clabel>Your name</label>
| clabel>Your name</label>
| clabel>Your name
| clabel>Your name</l
```

Benefits

Works without JS

Development. It wa	s the first really
clear example on Te	est Driven
Development I'd se	en and it helped
clear up a lot of que	estions I'd had
about it."	
Mark Carey on the	Kognitive
Jelly Blog	

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 Dan Benjamin 				
■ Wanstrath & Hyett	FUN	\$9	Benchmarking with	TELLINGUALINA AND AND AND AND AND AND AND AND AND A
Amy Hoy			httperf	
Ryan Bates	For those who find this kind of thing	\$9	Page, Action, and	THE PARTY OF THE P
Jamis Buck	fun.		Fragment Caching	SAM5
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■ Buck & Koziarski	■ Show Baseline Grid	\$70	Subscription Pack of 10	
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		\$9	TextMate for Rails	
		\$9	RESTful Rails	
		\$9	Test-First Development	
			for Rails	







TYPOGRAPHY

The redesign of this site uses several nifty typographical features.

A full explanation will be posted here in a bit.

WHAT PEOPLE ARE SAYING ABOUT PEEPCODE

"Eu comprei o screencast da PeepCode essa semana. Realmente é bom. Vai colocando aqui no blog o aprendizade de TDD, pois eu estou me interessando nisto agora. "

Arthur Zapparoli in blog comment

"I've ordered every PeepCode so far, but I have to say that this Capistrano one is truly great. Watching it on the IPod on the NYC subway has never been better."

"I lack superlatives for PeepCode.

"documentation project" on this list

This is the only non-free

Nathan Verni, Developer

YOU KNOW YOU SOME SCREENC

- Benchmarking httperf
- Page, Action, ar Fragment Cach
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 - \$9 RJS Templates
- TextMate for Ra \$9
- \$9
- RESTful Rails Test-First Deve for Rails

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Login or signup and enter

on your account page. If

Benefits

Works without JS
Easier to Debug

```
<h2>Add a New Task</h2>
<form action="/tasks/create" id="task form new" method="post"</pre>
onsubmit="new Ajax.Request('/tasks/create', {asynchronous:true,
evalScripts:true, onLoading:function(request){Element.show
('spinner')}, parameters:Form.serialize(this)}); return
false; "><input alt="Mark as done" id="task is done" name="task
[is done] " title="Mark as done" type="checkbox" value="1" /
><input name="task[is done]" type="hidden" value="0" /><input</pre>
id="task name" name="task[name]" size="28" title="Description of
what you did!" type="text" /><select id="task worth id"
name="task[worth id]"><option value="1">10</option>
<option value="2">5</option>
<option value="3">2</option>
<option value="4">1</option></select><input alt="I want to do")</pre>
this today!" id="task do today" name="task[do today]" title="I
want to do this today!" type="checkbox" value="1" /><input
name="task[do today]" type="hidden" value="0" /><input</pre>
id="task client id" name="task[client id]" type="hidden"
value="2" /><img alt="Spinner" class="spinner" id="spinner"</pre>
src="/images/spinner.gif" style="display: none" /><input</pre>
name="commit" type="submit" value="Create" /></form>
```

```
    Ryan Bates

                                                                                          $4
                                                        For those who find this kind of thing
                       Jamis Buck
                                                        fun.

    Nuby on Rails

    Buck & Koziarski

    Show Baseline Grid

    Ruby on Rails Podcast

     Inspect : index.js ▼
Console
         HTML
                 CSS Script
                               DOM
                                      Net
     Event.addBehavior({
     "#typography:click": function(event) {
     showBaselines(); return false;
  4
     },
  5
     "a#rails-machine": function(event) {
     setSponsorImage(this, '/images/sponsors/rails-machine.png');
     },
     "a#samson": function(event) {
     setSponsorImage(this, '/images/sponsors/samson.jpg');
 10
 11
     });
```

Benefits

Works without JS

Easier to Debug

JS Bugs Don't Stop App

Benefits

Works without JS Easier to Debug JS Bugs Don't Stop App Encourages Refactoring

```
Event.addBehavior({
  "#uj element 1:submit": function(event) {
    Element.show('loading');
  },
  "div#layers": function(event) {
    Sortable.create(this, {handle: 'thumbnail handle', onUpdate:fun
  },
  "#layer 2": function(event) {
    new Draggable("layer 2", {onEnd:function(event) { Photo.save l
  },
  "#layer 1": function(event) {
    new Draggable("layer_1", {onEnd:function(event) { Photo.save_l
  },
  "#form canvas 1:submit": function(event) {
    new Ajax.Request('/canvases/1', {asynchronous:true, evalScript
  },
  "#uj_element_2:mousedown": function(event) {
    pickcolor( '#canvas', 'backgroundColor', false, 'canvas color'
});
```

Install

```
./script/plugin install unobtrusive javascript
```

Add Routes

```
ActionController::Routing::Routes.draw do |map|
UJS.routes
```

Include Tag

```
<%= javascript_include_tag :defaults, :unobtrusive %>
<%= javascript_include_tag "prototype", :unobtrusive %>
```

Session Key

```
class ApplicationController < ActionController::Base
session :session_key => '_ujs_demo_session_id'
```

end

respond_to

```
class ArticlesController_< ApplicationController</pre>
  def show
    render options = {}
    respond to do |format|
      format.html {}
      format.js {render options[:layout] = false}
    end
    render render options
  end
```

end

respond_to

```
text xml
html rss
js atom
ics yaml
```

Tips

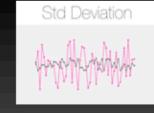
mod_deflate

Deflate

```
AddOutputFilterByType DEFLATE text/html
text/xml
text/plain
text/css
application/x-javascript
```

BrowserMatch ^Mozilla/4 gzip-only-text/html BrowserMatch ^Mozilla/4\.0[678] no-gzip BrowserMatch \bMSIE !no-gzip !gzip-only-text/html







PeepCode Screencasts are a high-intensity way to learn Ruby on Rails website development.

WHAT PEOPLE ARE SAYING ABOUT

SCREENCASTS A

Inspect Cle	ar ∃ <mark>All</mark> HTML C	CSS JS	XHR	Images	Flash			Q		
Console HTML	CSS Script DOM	Net								Optio
peepcode.com	peepcode.com	5 KB	29ms							
application.css	peepcode.com	3 KB		5	08ms					
prototype.js	peepcode.com	17 KB			114ms					
application.js	peepcode.com	671 b			128ms					
▶ lowpro.js	peepcode.com	4 KB								2.2
▶ index.js	peepcode.com	178 b			282ms					
dark-gradient-tall.	peepcode.com	2 KB				234ms				
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logo-black-trans.p	peepcode.com	13 KB							799ms	
peep-test.png	peepcode.com	45 KB					432ms			
dark-to-pink-grad	peepcode.com	540 b						618ms		
dark-gradient.png	peepcode.com	993 b						690r	ms	
▶ mint	mint.peepcode.com	4 KB								1.0
▶ mint	mint.peepcode.com	43 b								44
samson.jpg	peepcode.com	8 KB					211ms			
rails-machine.png	peepcode.com	27 KB					212ms			
16 requests		163 KB								4.84s

Tips

mod_deflate

Cache Javascripts

caches behavior :show

Tips

mod_deflate

Cache Javascripts

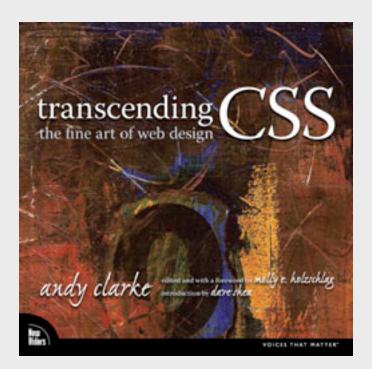
DB Backed Sessions

Tips

mod_deflate Cache Javascripts DB Backed Sessions Refactoring

Advanced

Driving CSS









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 - \$9 RESTful Rails
 - \$9 Test-First Development



"setSponsorImage(this, '#{sponsor.image}')" -%>

<% apply behavior "a##{sponsor.id}",</pre>

```
function setSponsorImage(sponsor_element, image_src) {
   $(sponsor_id).addClassName('sponsor_image');
   $(sponsor_id).setStyle({
     'background':'black url(' + image_src + ') no-repeat center'
   });
   $(sponsor_element).innerHTML = '';
```

```
Event.addBehavior({
    "a#rails-machine": function(event) {
       setSponsorImage(this, '/images/sponsors/rails-machine.png');
    },
    "a#samson": function(event) {
       setSponsorImage(this, '/images/sponsors/samson.jpg');
    }
```

Advanced

Driving CSS
Go crazy



Std Deviation



BENCHMARKING WITH HTTPERF

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PREVIEW

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by Geoffrey Grosenbach with content from Zed Shaw, author of Mongrel.

Programmers love performance. We like to talk about it and form theories, but we don't know how to measure it. And when we do, we don't know what to do with the numbers we get.

This screencast shows how to use the very simple (but capable) httperf command-line tool. It also explains the basic statistics you need to know to compare separate benchmarking runs.

You'll also learn how to use httperf to find the maximum performance of a single Mongrel instance. You can use this same technique to tune your server and find the optimum number of Managed against to the first and all the second

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"I lack superlatives for PeepCode. This is the only non-free "documentation project" on this list but it definitely belongs here. PeepCode gives you a lot of value for money with screencasts, cheatsheets and working code for you to jump start your understanding of Rails. Geoffrey

deserves an Oscar for this."

Pinunaeek Bloa

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