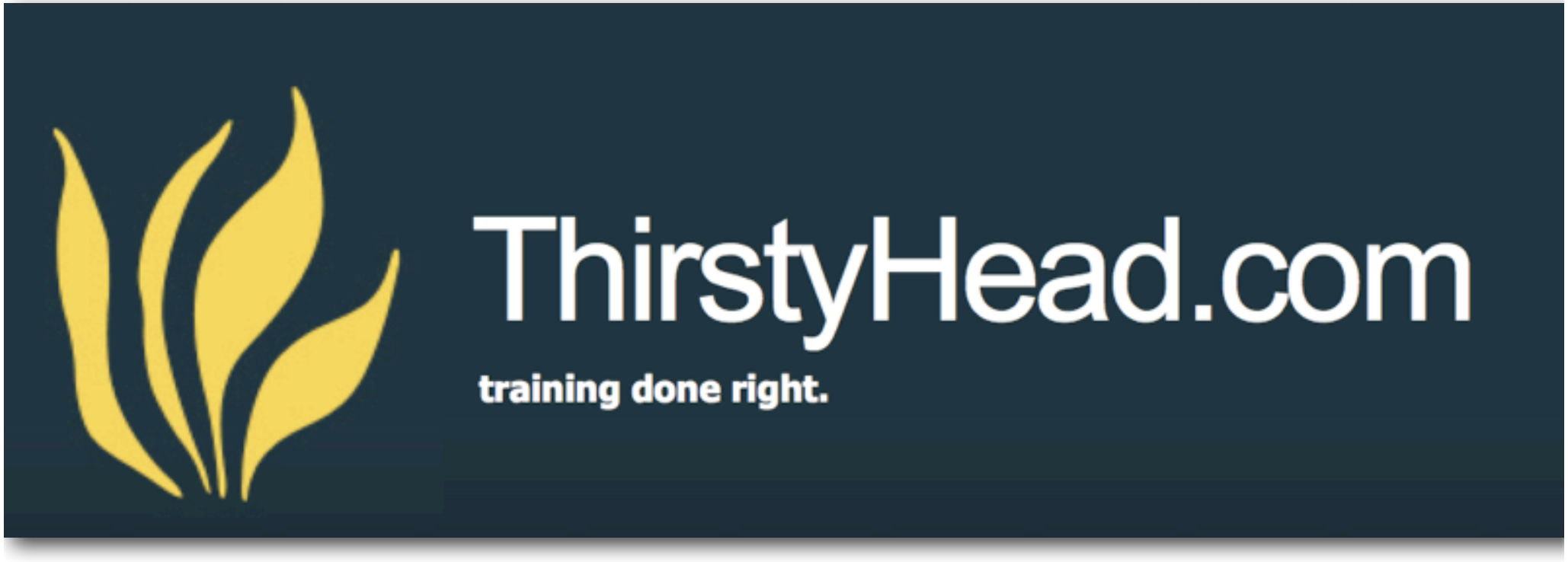
Backbone.js

Scott Davis
ThirstyHead.com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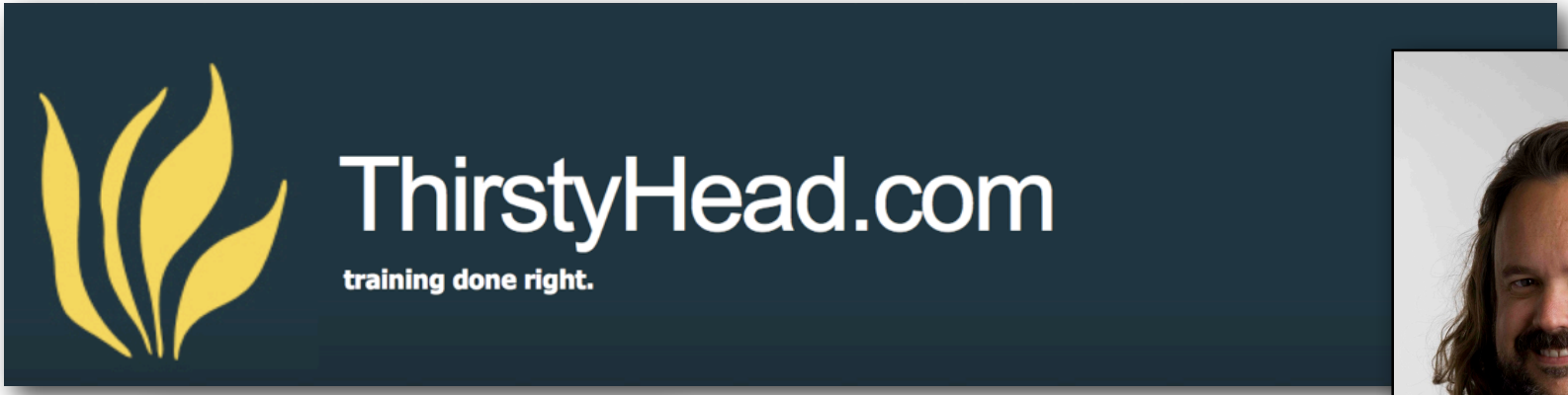
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Scott Davis
@scottdavis99

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Getting Started with Grails Second Edition
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HTML

BACKBONE.JS

Backbone.js gives structure to web applications by providing **models** with key-value binding and custom events, **collections** with a rich API of enumerable functions, **views** with declarative event handling, and connects it all to your existing API over a RESTful JSON interface.

router

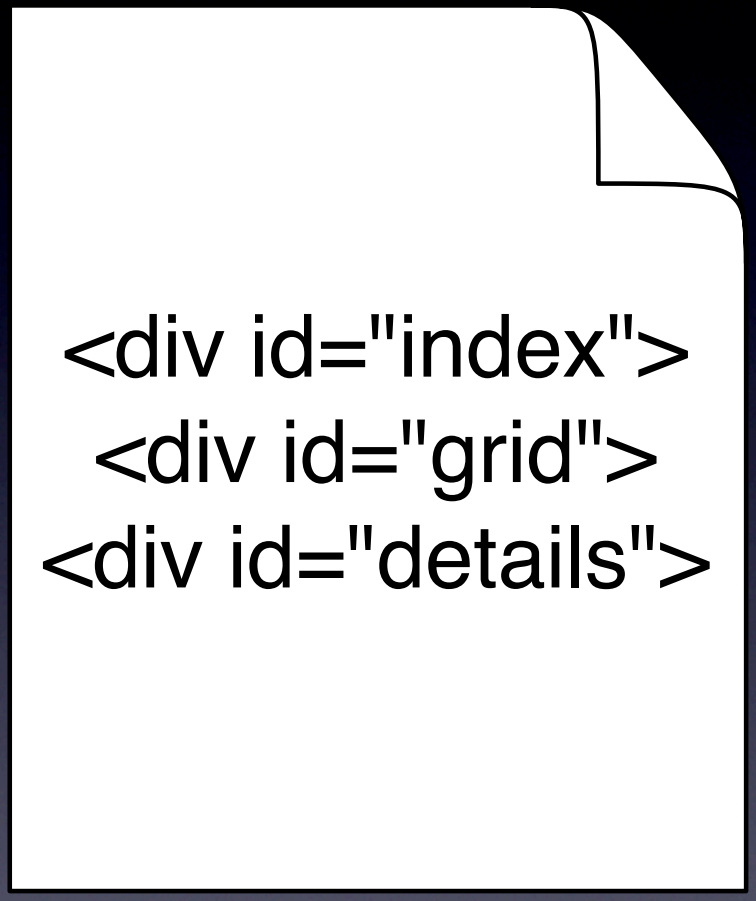
Downloads & Dependencies (Right-click, and use "Save As")

Development Version (0.9.1) *47kb, Full source, lots of comments*

Production Version (0.9.1) *5.3kb, Packed and gzipped*

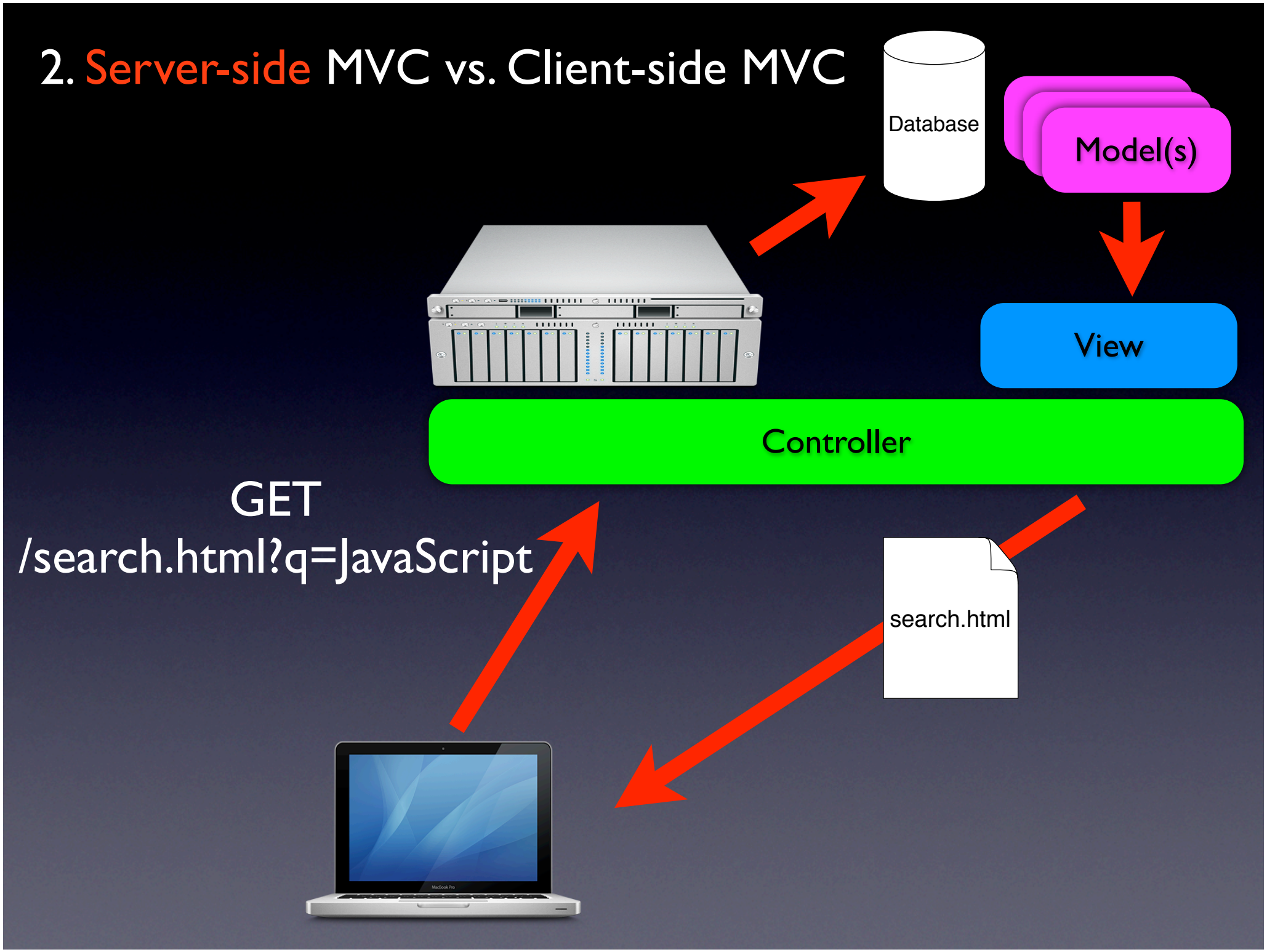
Backbone's only hard dependency is Underscore.js (> 1.3.1). For RESTful persistence, history support via Backbone.Router and DOM manipulation with Backbone.View, include json2.js, and either jQuery (> 1.4.2) or Zepto.

1. Traditional Multipage App vs. Single-page App



Think "State Transition"
instead of "Page Transition"

2. Server-side MVC vs. Client-side MVC



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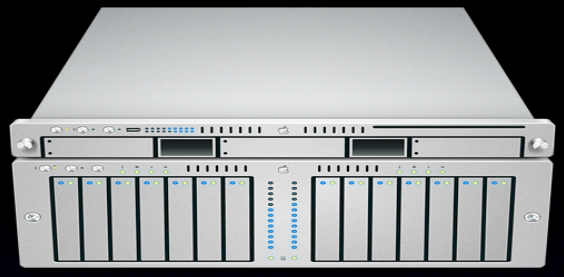


AJAX

JSON

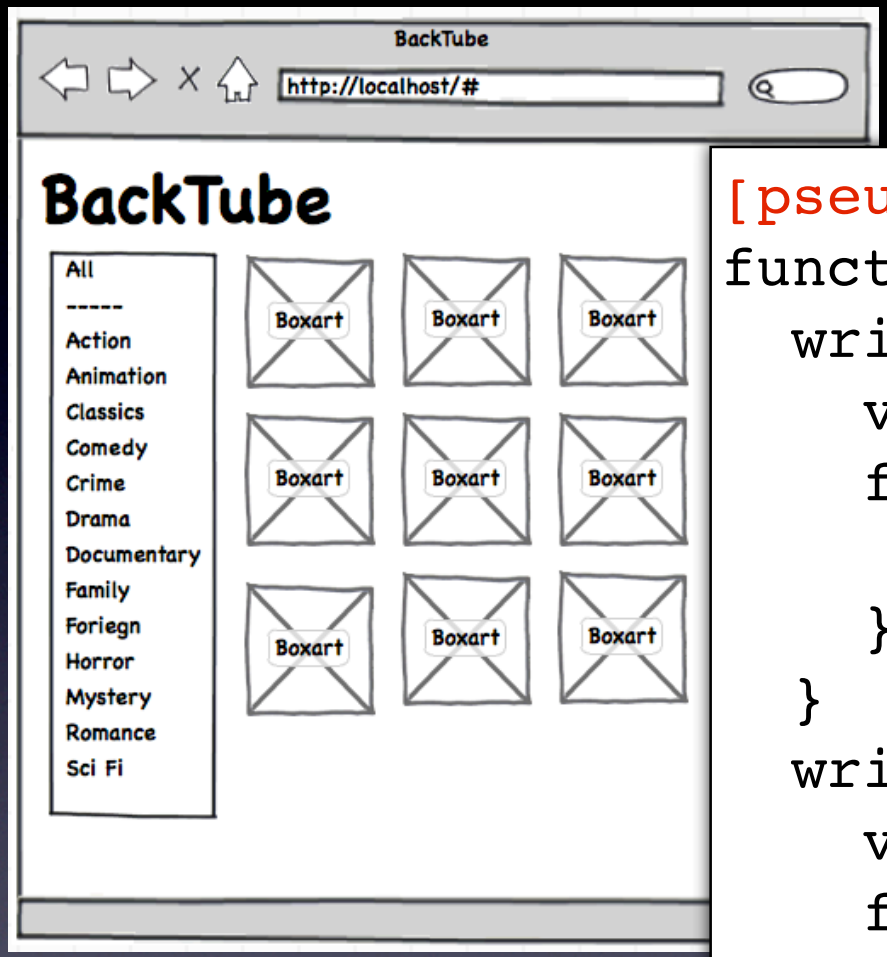
#search/JavaScript

Router (aka Controller)

Model(s)

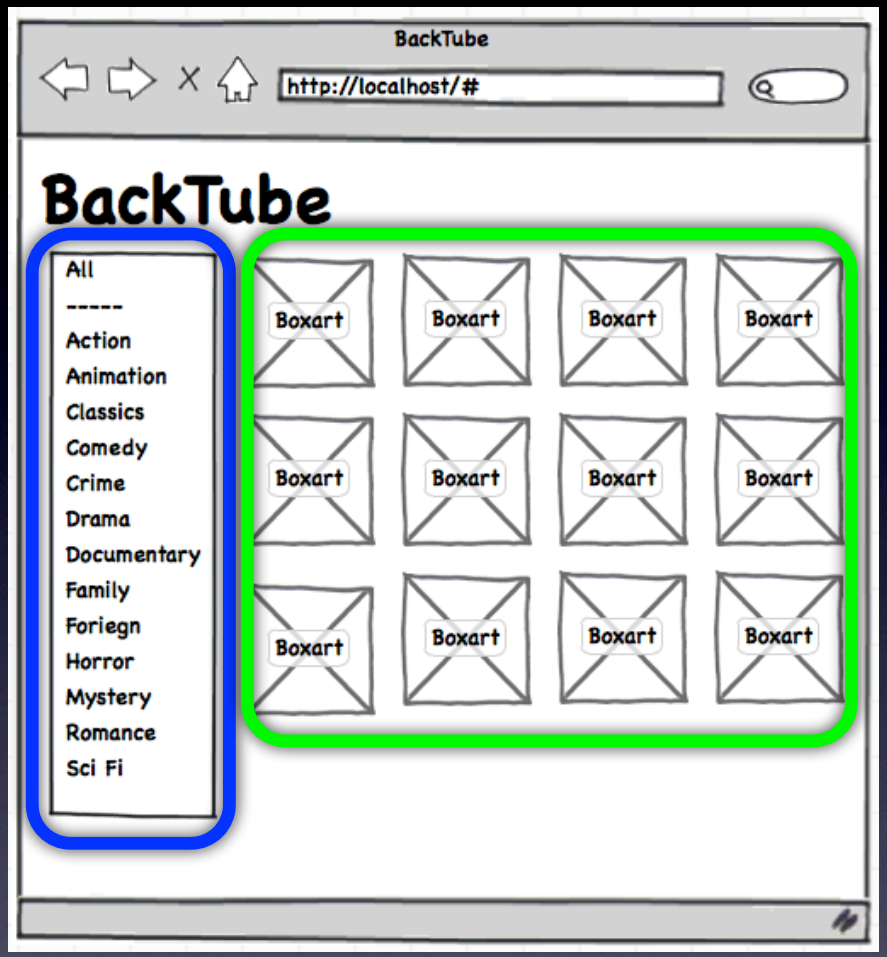
View

3. Page-centric vs. Component-oriented




```
[pseudocode]
function buildPage(){
  write.menuCategories{
    var sidebar = $("#sidebar");
    for(i=0;i<length;i++){
      sidebar.append("<li>...");
    }
  }
  write.movies{
    var movieList = $("#list");
    for(i=0;i<length;i++){
      movieList.append("<li>...");
    }
  }
}
```

3. Page-centric vs. Component-oriented




```
[pseudocode]
var sidebar = new Sidebar();
var list = new MovieList();

sidebar.addEventListener(
  {component:list}
);
```

4. Synchronous vs. Asynchronous / Event-driven

```
[pseudocode - synchronous]
function buildPage(){
  var items = getMenuItems();
  writeSidebar(items);
  var movies = getMovies();
  writeMovies(movies);
}
```

4. Synchronous vs. Asynchronous / Event-driven

```
[pseudocode - asynchronous]
MovieList = Backbone.Collection.extend({
  model: Backtube.Movie,
  url: "http://gdata.youtube.com/feeds/api/..."
});

MovieView = Backbone.View.extend({
  initialize: function(){
    this.collection.on("reset", this.addAll);
  },
  addAll: function(){
    //render the list
  }
});

movieList = new MovieList();
movieView = new MovieView({collection:movieList});
movieList.fetch(); // makes AJAX request,
                   triggers “reset” event
```

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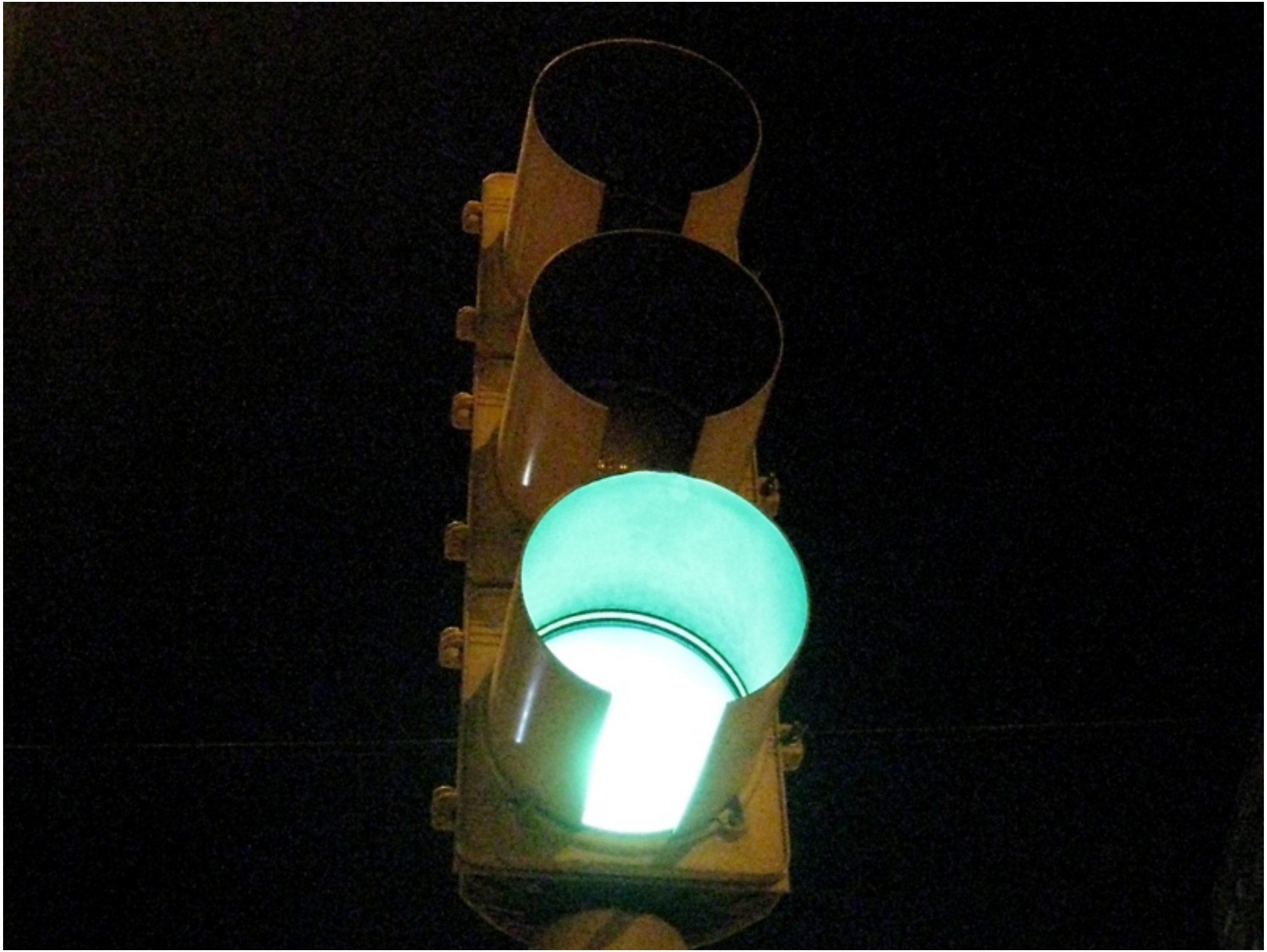

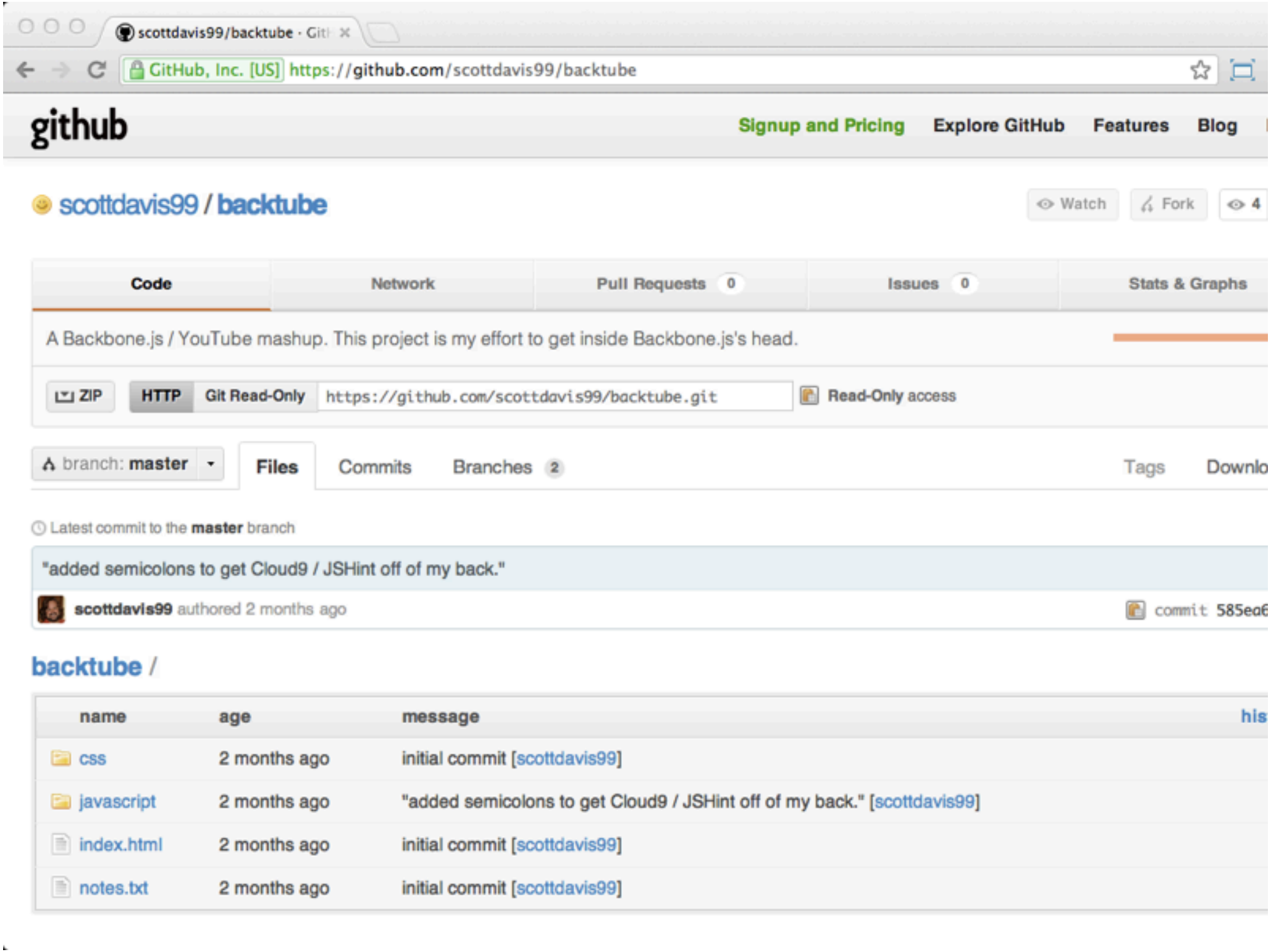
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github
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Explore GitHub
Features
Blog
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Watch
Fork
4
Code
Network
Pull Requests 0
Issues 0
Stats & Graphs
A Backbone.js / YouTube mashup. This project is my effort to get inside Backbone.js's head.
ZIP
HTTP
Git Read-Only
https://github.com/scottdavis99/backtube.git
Read-Only access
branch: master
Files
Commits
Branches 2
Tags
Downlo
Latest commit to the master branch
"added semicolons to get Cloud9 / JSHint off of my back."
scottdavis99 authored 2 months ago
commit 585ea6
backtube /
name
age
message
his
css
2 months ago
initial commit [scottdavis99]
javascript
2 months ago
"added semicolons to get Cloud9 / JSHint off of my back." [scottdavis99]
index.html
2 months ago
initial commit [scottdavis99]
notes.txt
2 months ago
initial commit [scottdavis99]

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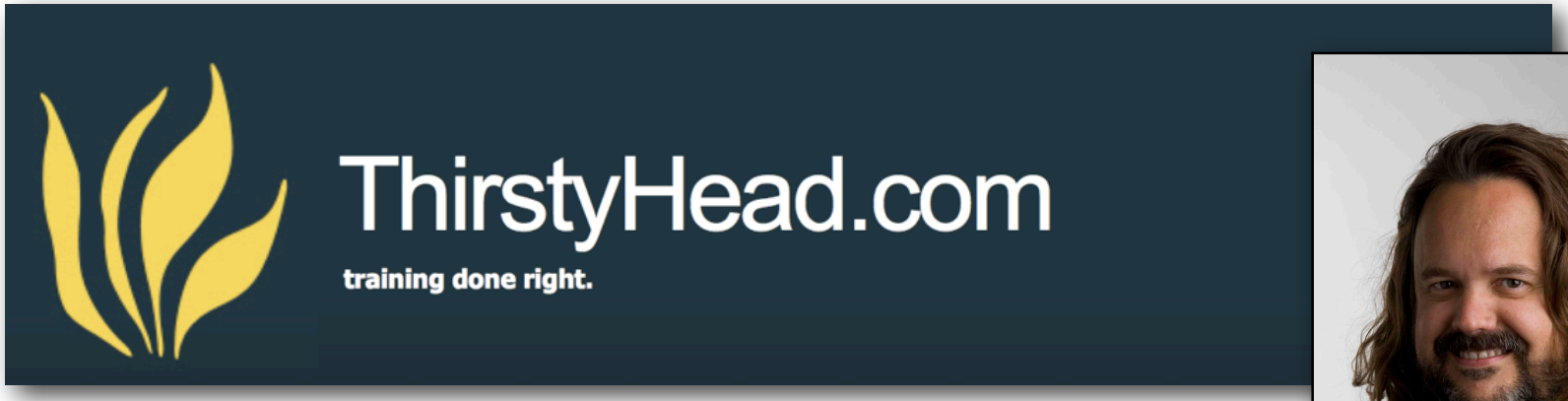

scott@thirstyhead.com

Questions?

Thanks for your time.

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