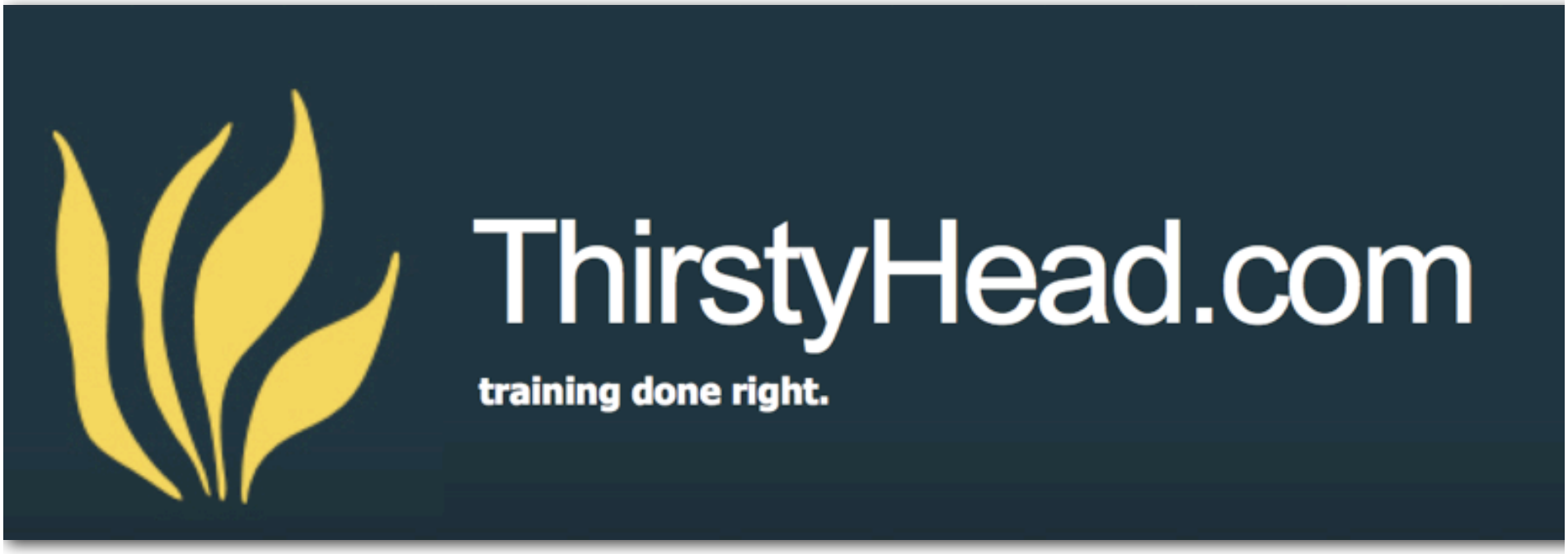
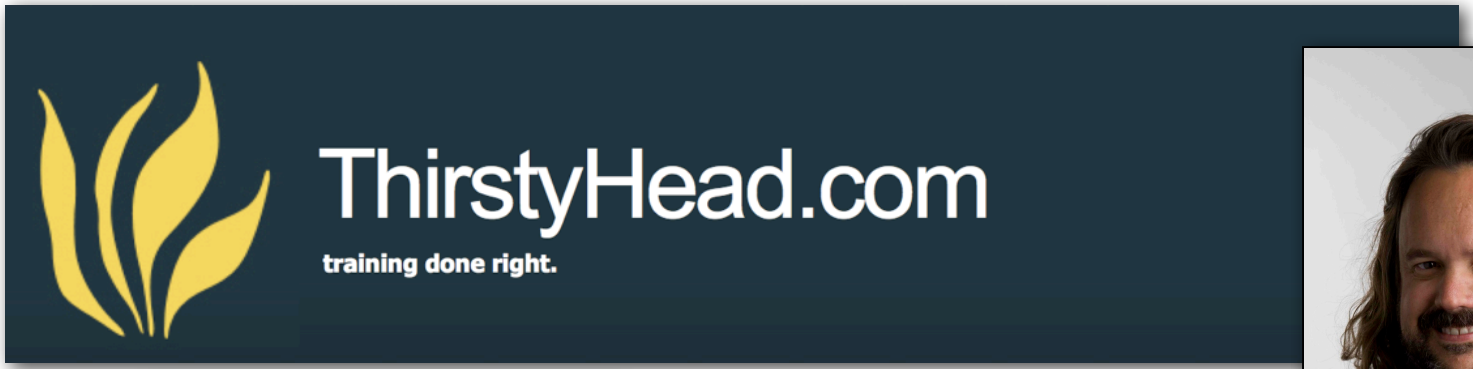
Volo.js:

Command-line love for Web Developers

Scott Davis, ThirstyHead.com


ThirstyHead.com
training done right.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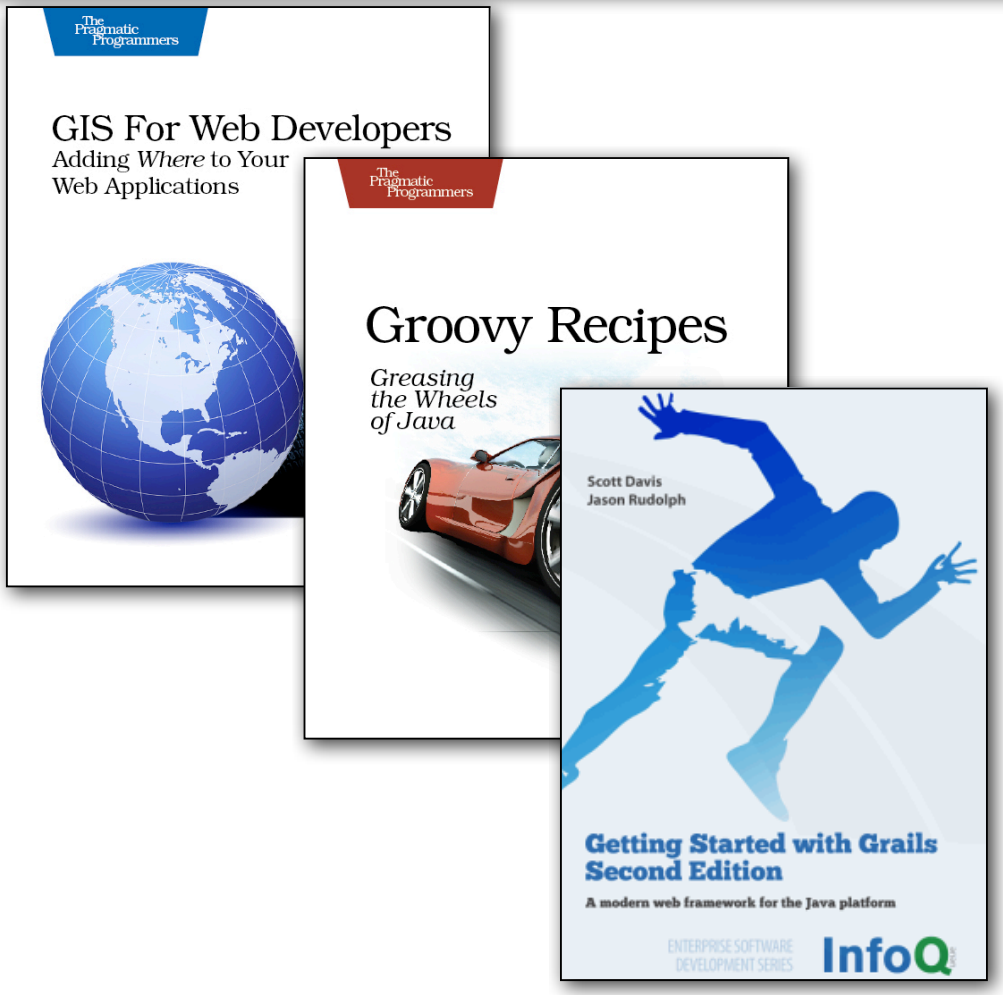
Scott Davis
@scottdavis99


The Pragmatic Programmers
GIS For Web Developers
Adding Where to Your Web Applications
The Pragmatic Programmers
Groovy Recipes
Greasing the Wheels of Java
Scott Davis
Jason Rudolph
Getting Started with Grails Second Edition
A modern web framework for the Java platform
ENTERPRISE SOFTWARE DEVELOPMENT SERIES
InfoQ


HTML

<bootstrap>

To create the structure for your first Grails application, type `grails create-app racetrack`.

```
$ grails create-app racetrack
Welcome to Grails 1.2 - http://grails.org/
Licensed under Apache Standard License 2.0
Grails home is set to: /opt/grails
...

Created Grails Application at /web/racetrack
```

You should see a flurry of activity as Grails creates the basic directory structure for your new application.

Ruby on Rails Guides: Getti

guides.rubyonrails.org/getting_started.html#creating-the-blog-application

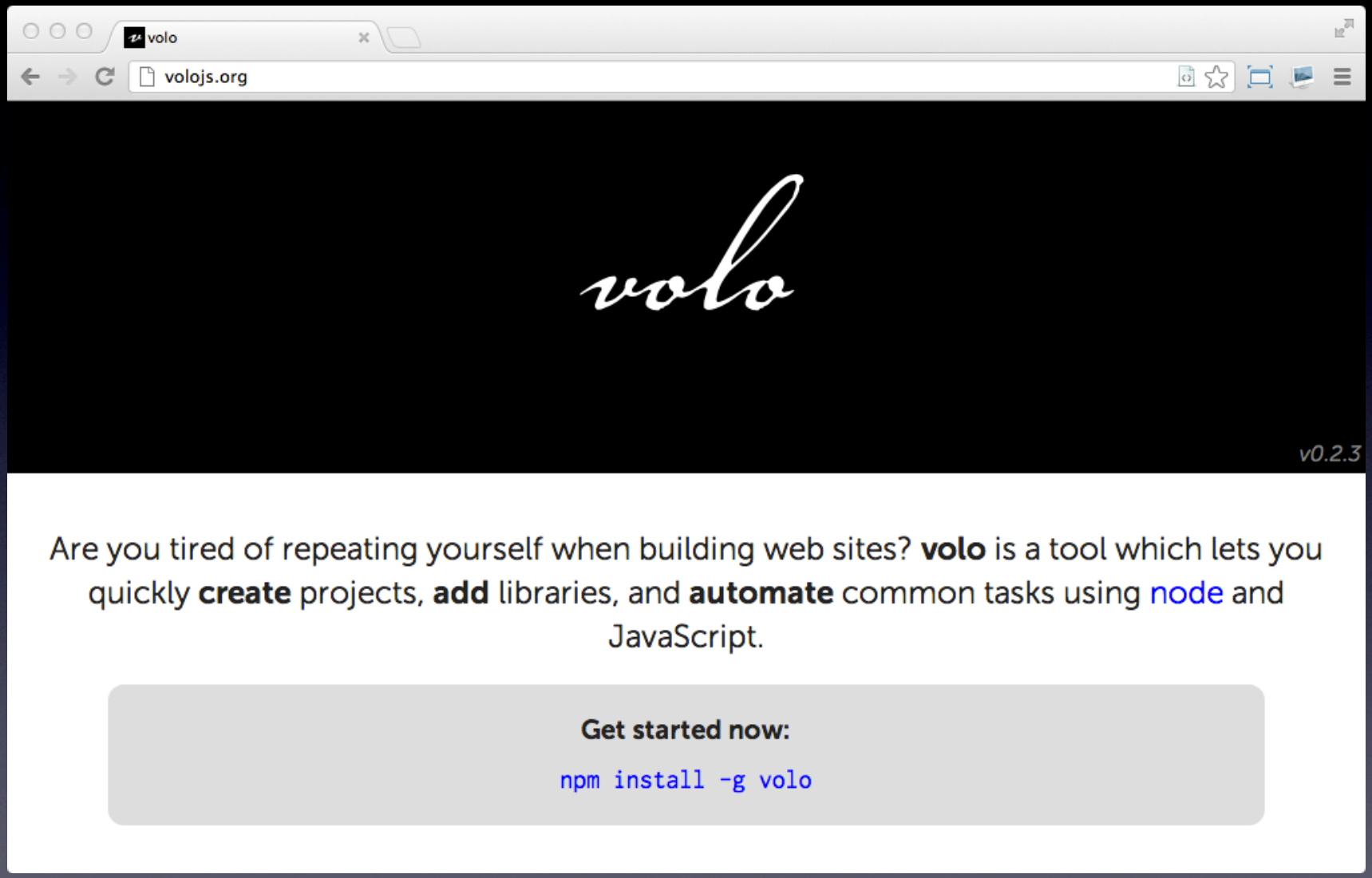
3.2 Creating the Blog Application

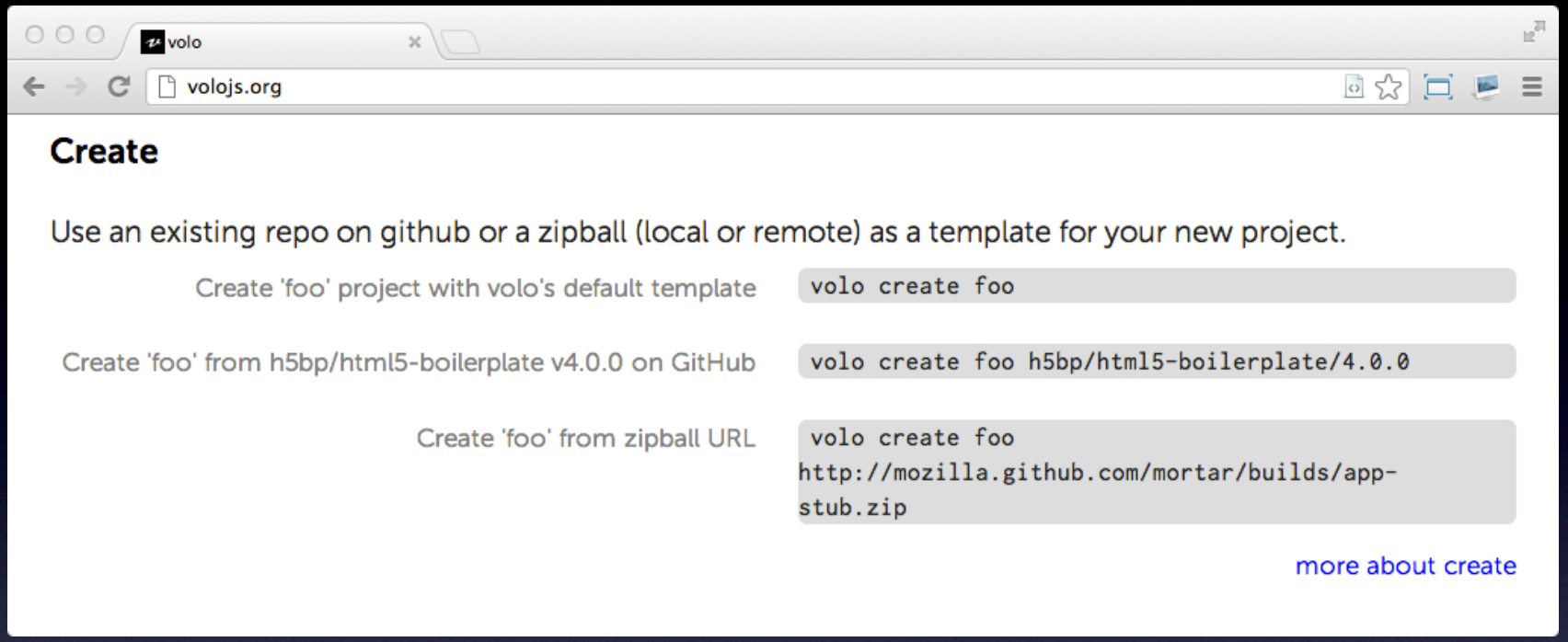
To begin, open a terminal, navigate to a folder where you have rights to create files, and type:

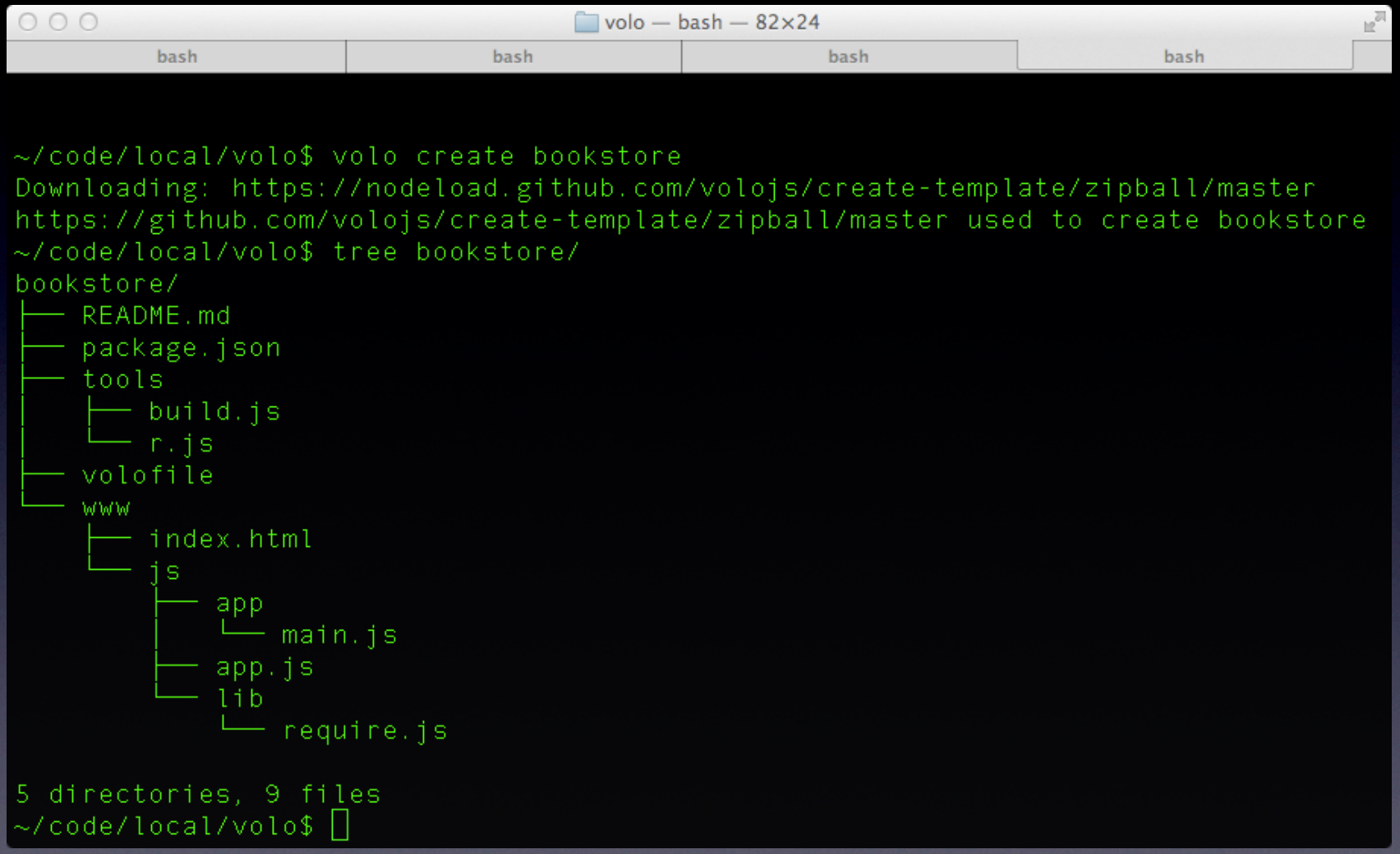
```
$ rails new blog
```

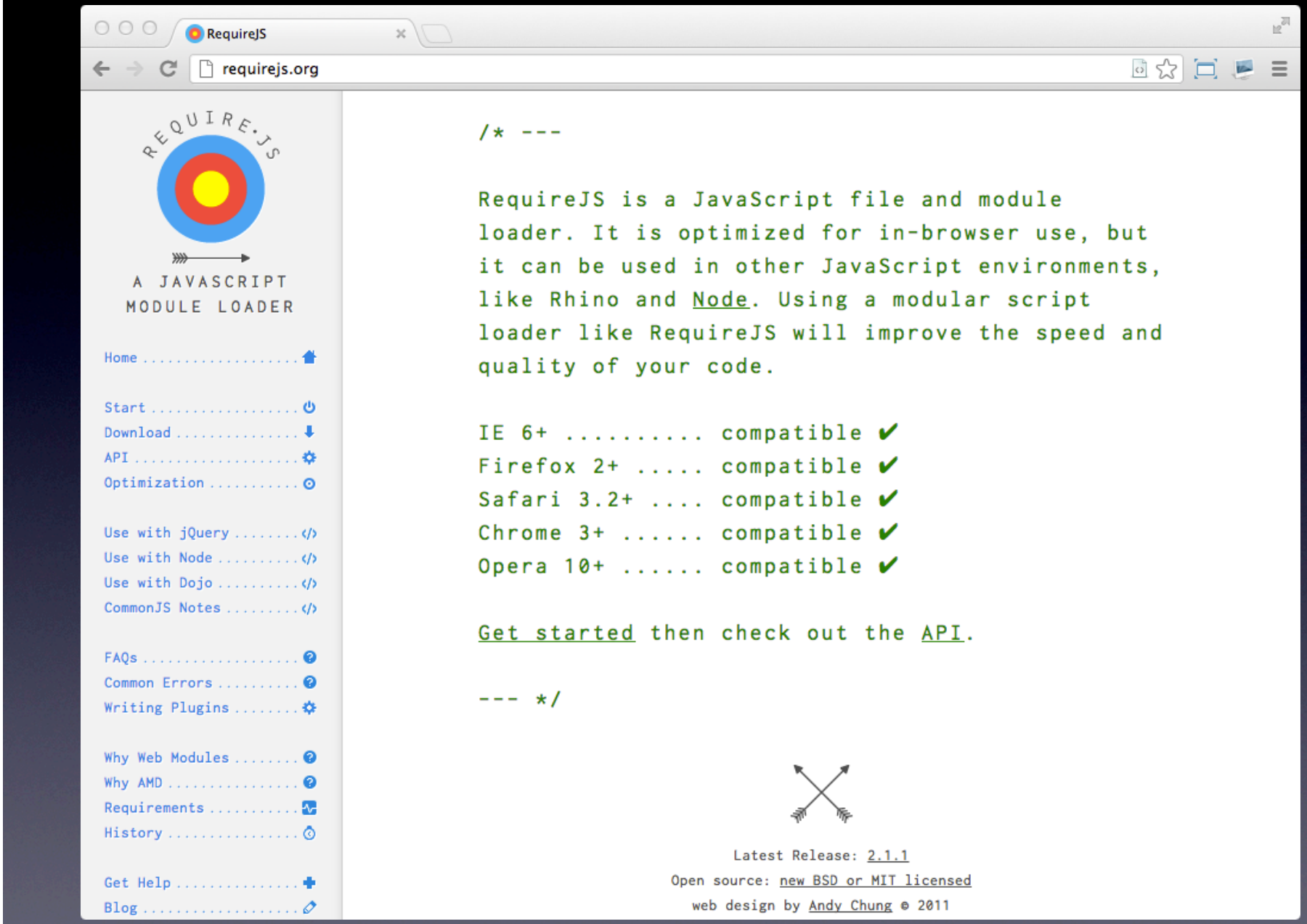
This will create a Rails application called Blog in a directory called blog.

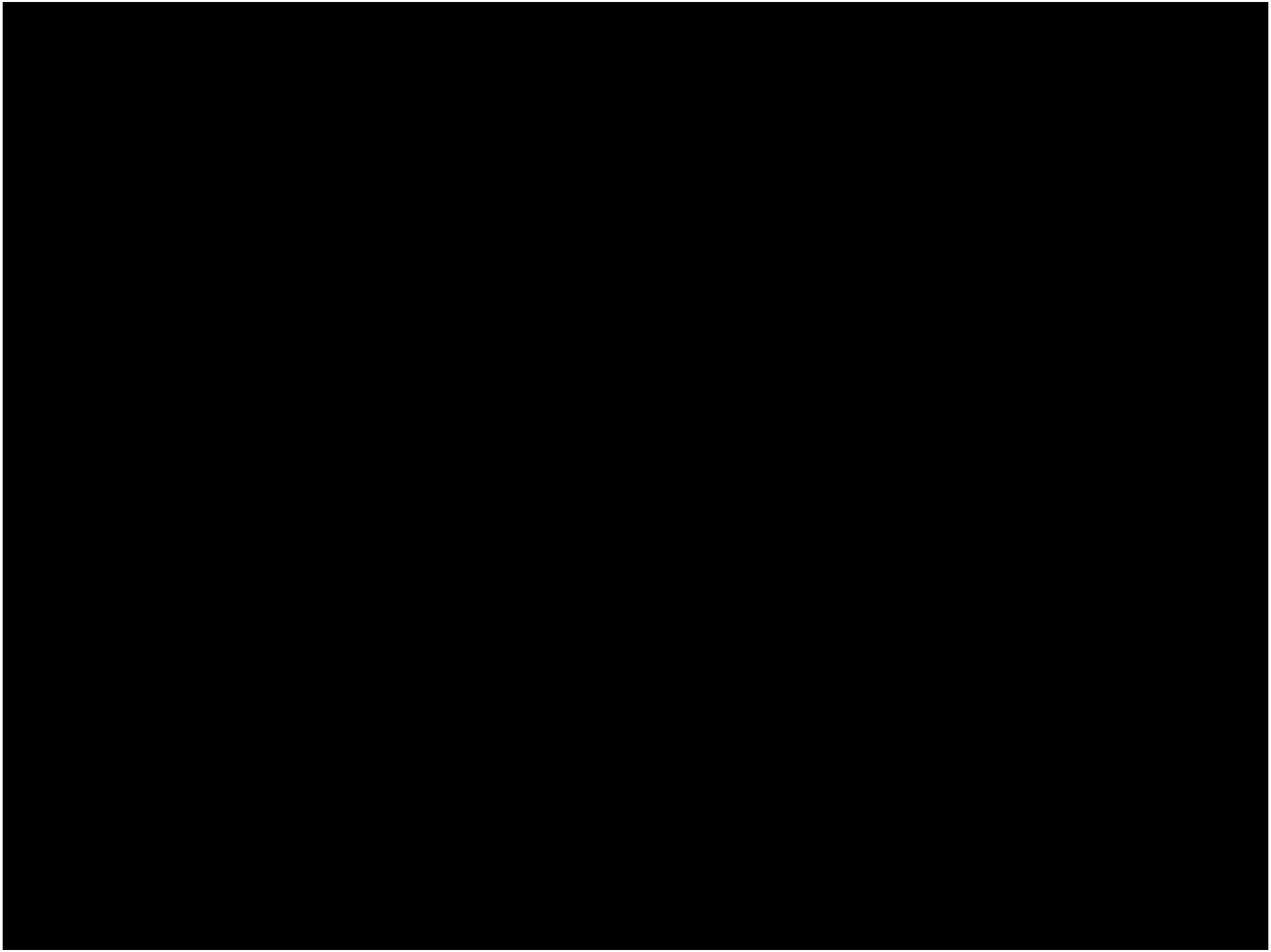
Client-side ?


volo
volojs.org
volo
v0.2.3
Are you tired of repeating yourself when building web sites? **volo** is a tool which lets you quickly **create** projects, **add** libraries, and **automate** common tasks using node and JavaScript.
Get started now:
npm install -g volo


volo
volojs.org
Create
Use an existing repo on github or a zipball (local or remote) as a template for your new project.
Create 'foo' project with volo's default template
volo create foo
Create 'foo' from h5bp/html5-boilerplate v4.0.0 on GitHub
volo create foo h5bp/html5-boilerplate/4.0.0
Create 'foo' from zipball URL
volo create foo http://mozilla.github.com/mortar/builds/app-stub.zip
more about create


volo — bash — 82×24
bash
bash
bash
bash
~/code/local/volo$ volo create bookstore
Downloading: https://nodeload.github.com/volojs/create-template/zipball/master
https://github.com/volojs/create-template/zipball/master used to create bookstore
~/code/local/volo$ tree bookstore/
bookstore/
├── README.md
├── package.json
├── tools
│ ├── build.js
│ └── r.js
├── volofile
└── www
 ├── index.html
 └── js
 ├── app
 │ └── main.js
 ├── app.js
 └── lib
 └── require.js
5 directories, 9 files
~/code/local/volo$


RequireJS
requirejs.org
REQUIRE.JS
A JAVASCRIPT
MODULE LOADER
Home
Start
Download
API
Optimization
Use with jQuery
Use with Node
Use with Dojo
CommonJS Notes
FAQs
Common Errors
Writing Plugins
Why Web Modules
Why AMD
Requirements
History
Get Help
Blog
/* ---
RequireJS is a JavaScript file and module loader. It is optimized for in-browser use, but it can be used in other JavaScript environments, like Rhino and Node. Using a modular script loader like RequireJS will improve the speed and quality of your code.
IE 6+ ..... compatible ✔
Firefox 2+ ..... compatible ✔
Safari 3.2+ .... compatible ✔
Chrome 3+ ..... compatible ✔
Opera 10+ ..... compatible ✔
Get started then check out the API.
--- */
Latest Release: 2.1.1
Open source: new BSD or MIT licensed
web design by Andy Chung © 2011



<dependencies>

You could roll up your sleeves and try to write comprehensive search facilities yourself, or you could type `grails install-plugin searchable` and take advantage of someone else's hard work. Since laziness is a virtue among software developers – we call it ***code reuse*** to make it sound better to non-programmers – let's take the latter approach.

There's a lot of console activity when you install a new plugin. Here's a guided tour of what is going on.

```
$ grails install-plugin searchable
...

Reading remote plugin list ...
Plugin list out-of-date, retrieving..
[get] Getting: http://svn.codehaus.org/grails/trunk/grails-
plugins/.plugin-meta/plugins-list.xml
[get] To: /Users/sdavis/.grails/1.2.0/plugins-list-core.xml

Reading remote plugin list ...
[get] Getting: http://plugins.grails.org/.plugin-meta/plugins-
list.xml
[get] To: /Users/sdavis/.grails/1.2.0/plugins-list-default.xml
```

Ruby on Rails: Download

rubyonrails.org/download

RubyGems

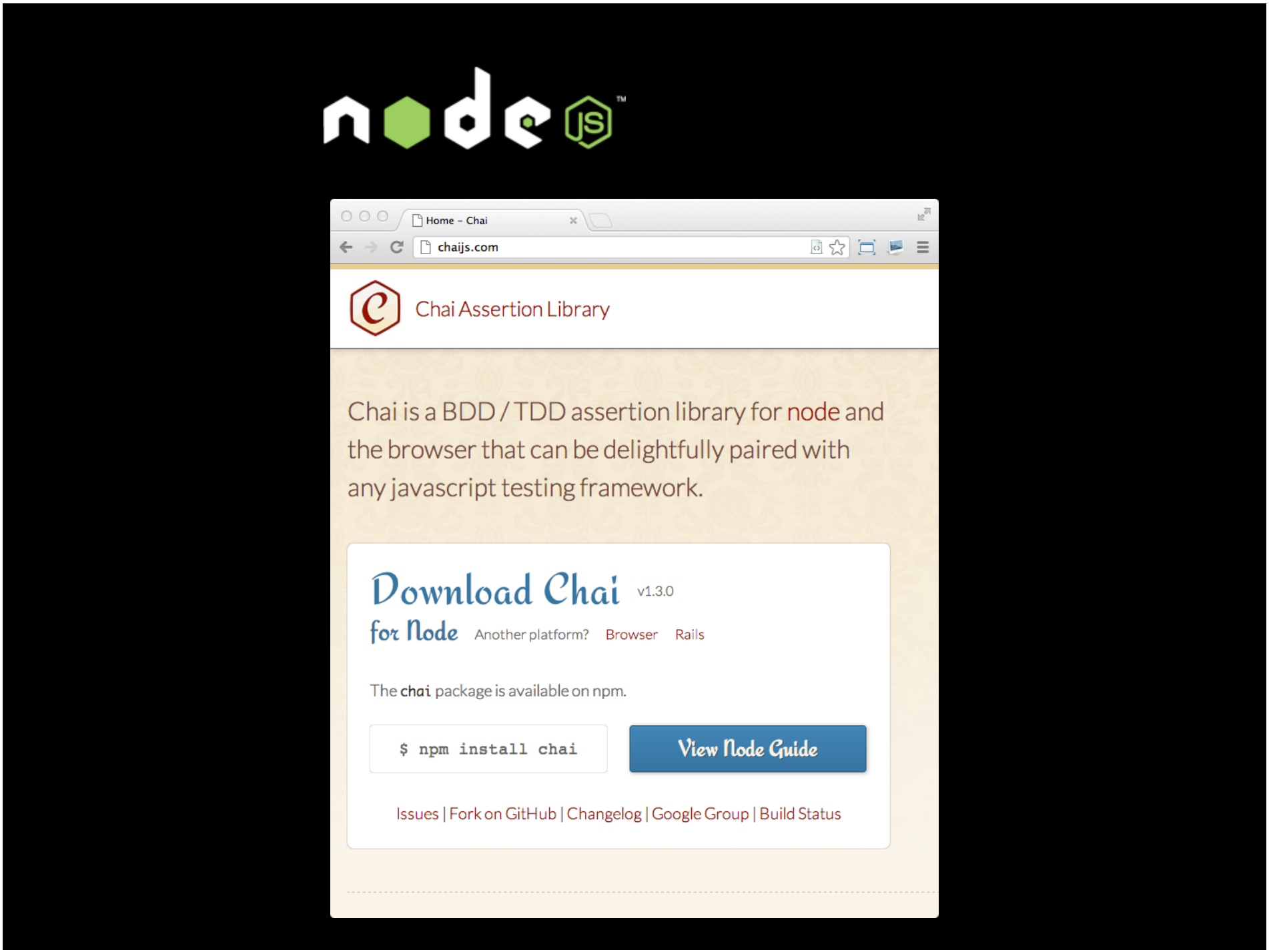
RubyGems is the standard Ruby package manager. It's similar to apt-get, emerge, and other OS package managers. Download

Rails

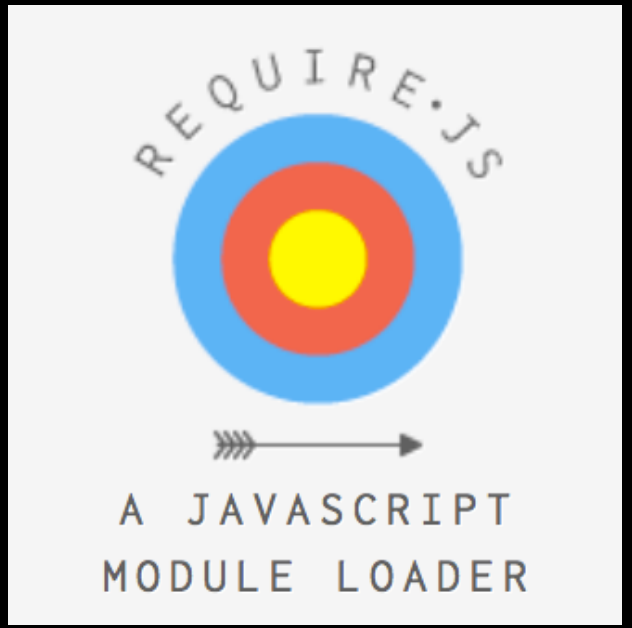
With RubyGems loaded, you can install all of Rails and its dependencies through the command line:

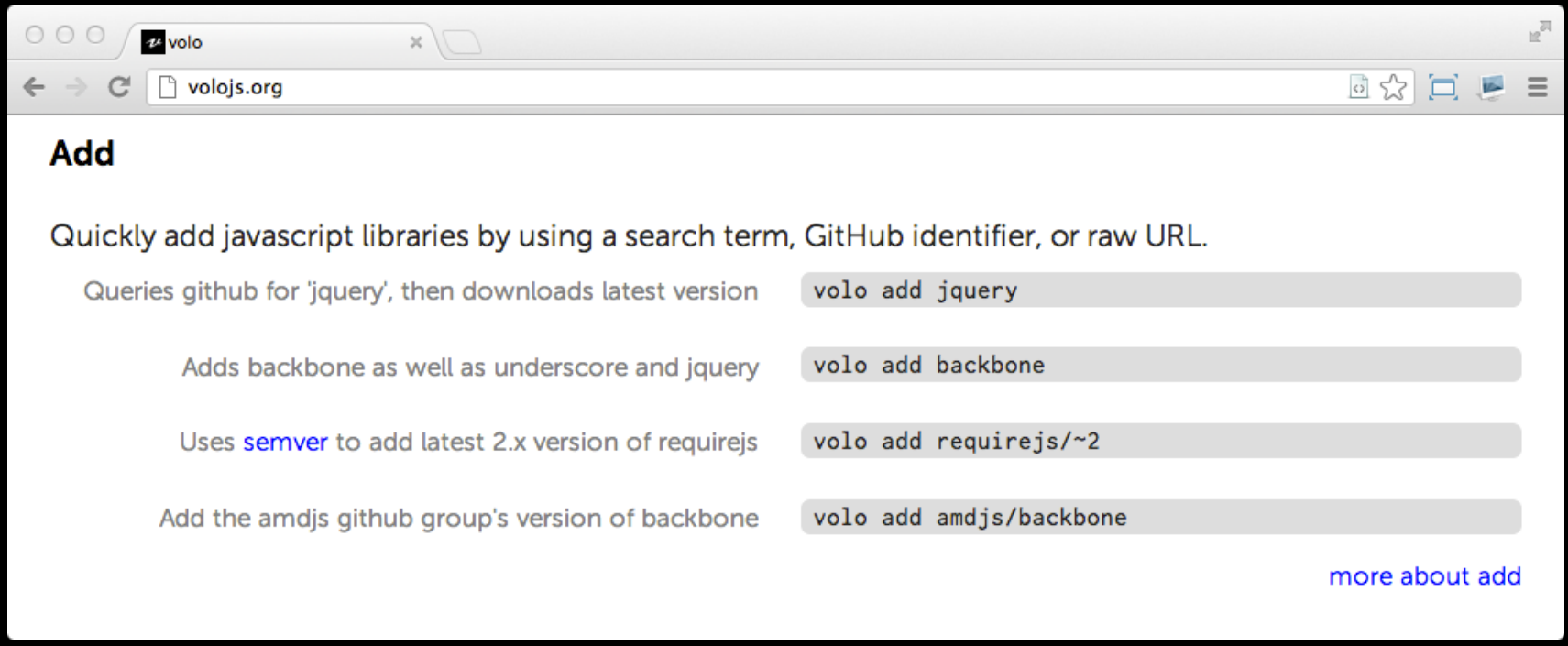
gem install rails

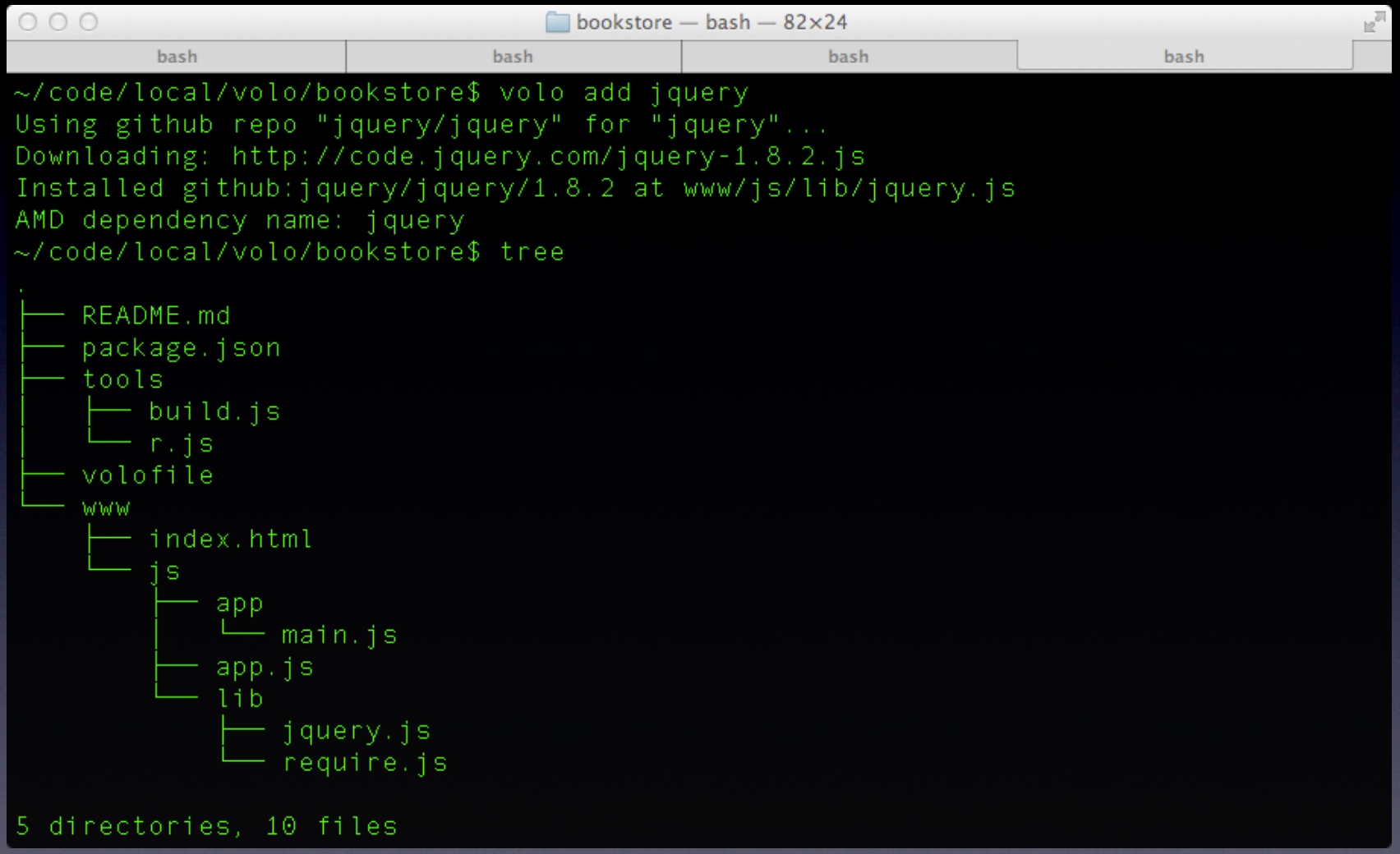
New versions of Rails can be installed the same way.


Home - Chai
chaijs.com
Chai Assertion Library
Chai is a BDD / TDD assertion library for node and the browser that can be delightfully paired with any javascript testing framework.
Download Chai v1.3.0
for Node
Another platform? Browser Rails
The chai package is available on npm.
$ npm install chai
View Node Guide
Issues | Fork on GitHub | Changelog | Google Group | Build Status

remember ?

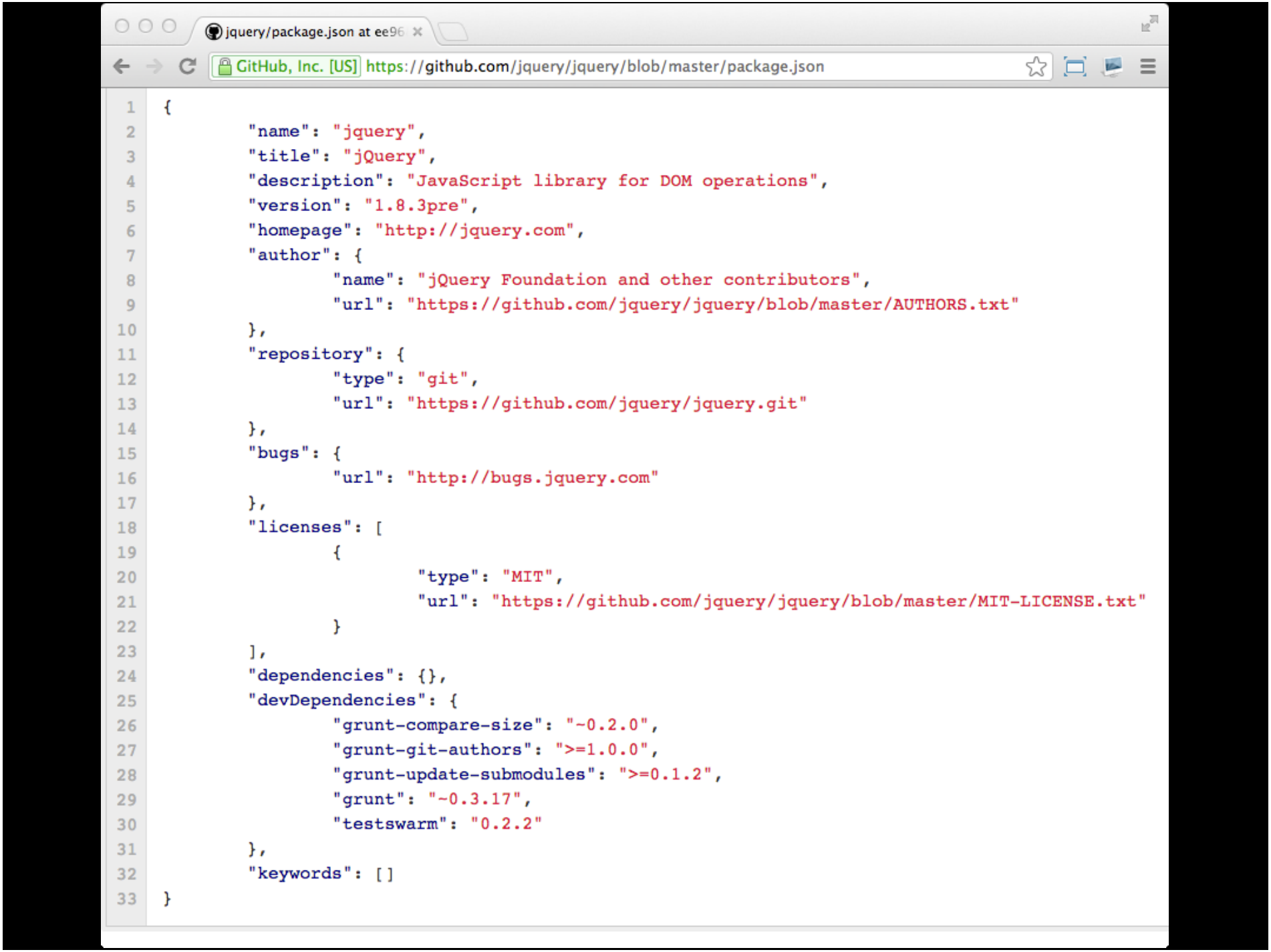



volo
volojs.org
Add
Quickly add javascript libraries by using a search term, GitHub identifier, or raw URL.
Queries github for 'jquery', then downloads latest version
volo add jquery
Adds backbone as well as underscore and jquery
volo add backbone
Uses semver to add latest 2.x version of requirejs
volo add requirejs/~2
Add the amdjs github group's version of backbone
volo add amdjs/backbone
more about add

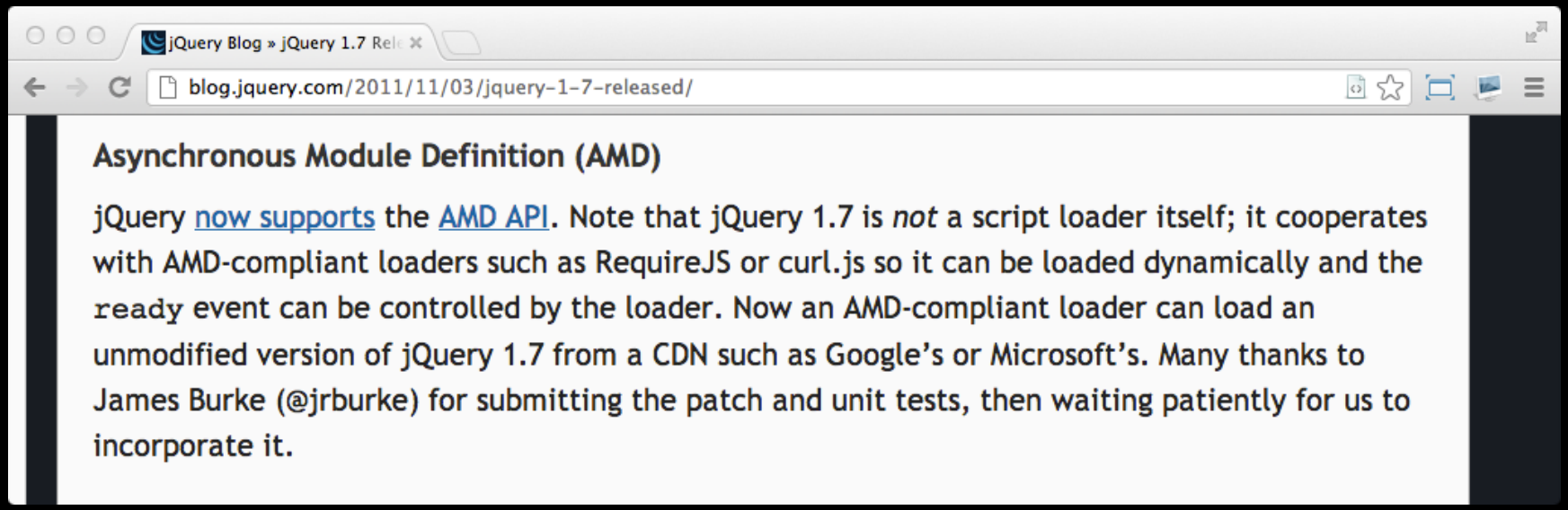

bookstore — bash — 82×24
bash
bash
bash
bash
~/code/local/volo/bookstore$ volo add jquery
Using github repo "jquery/jquery" for "jquery"...
Downloading: http://code.jquery.com/jquery-1.8.2.js
Installed github:jquery/jquery/1.8.2 at www/js/lib/jquery.js
AMD dependency name: jquery
~/code/local/volo/bookstore$ tree
.
├── README.md
├── package.json
├── tools
│   ├── build.js
│   └── r.js
├── volofile
└── www
    ├── index.html
    └── js
        ├── app
        │   └── main.js
        ├── app.js
        └── lib
            ├── jquery.js
            └── require.js
5 directories, 10 files

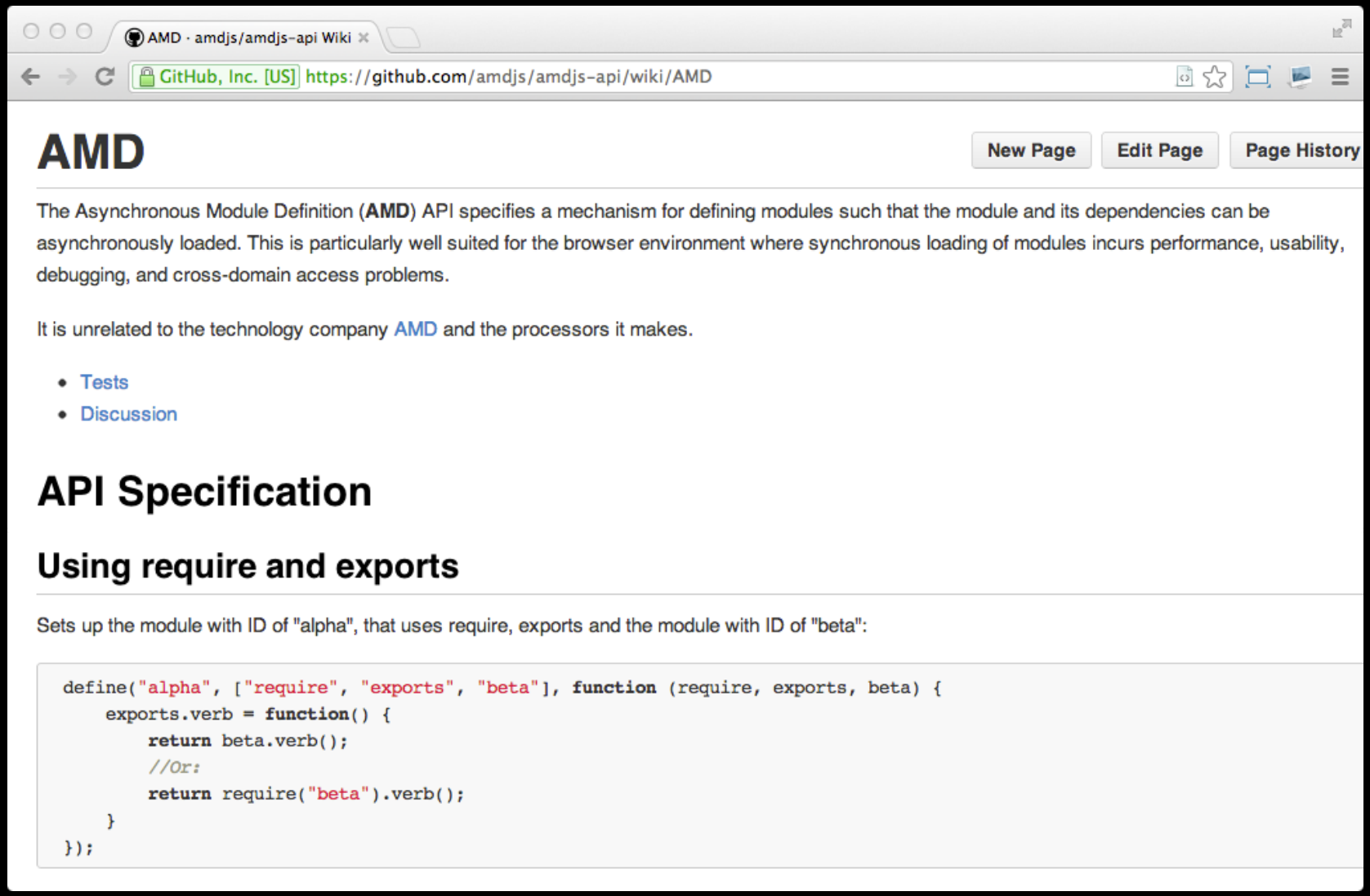
package.json

```
{
  "amd": {},
  "volo": {
    "baseUrl": "www/js/lib",
    "dependencies": {
      "jquery": "github:jquery/jquery/1.8.2"
    }
  }
}
```



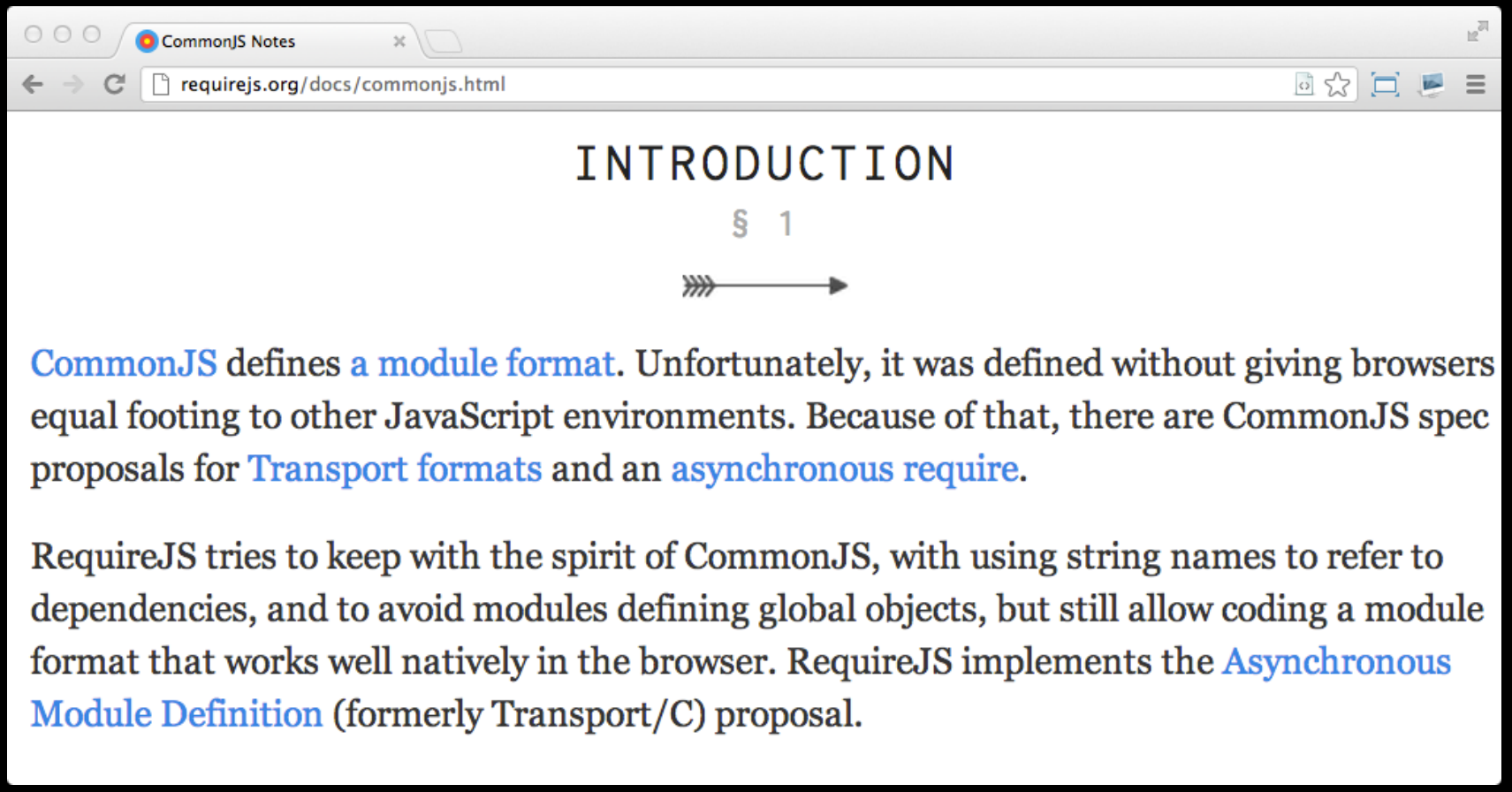

```
{
        "name": "jquery",
        "title": "jQuery",
        "description": "JavaScript library for DOM operations",
        "version": "1.8.3pre",
        "homepage": "http://jquery.com",
        "author": {
                "name": "jQuery Foundation and other contributors",
                "url": "https://github.com/jquery/jquery/blob/master/AUTHORS.txt"
        },
        "repository": {
                "type": "git",
                "url": "https://github.com/jquery/jquery.git"
        },
        "bugs": {
                "url": "http://bugs.jquery.com"
        },
        "licenses": [
                {
                        "type": "MIT",
                        "url": "https://github.com/jquery/jquery/blob/master/MIT-LICENSE.txt"
                }
        ],
        "dependencies": {},
        "devDependencies": {
                "grunt-compare-size": "~0.2.0",
                "grunt-git-authors": ">=1.0.0",
                "grunt-update-submodules": ">=0.1.2",
                "grunt": "~0.3.17",
                "testswarm": "0.2.2"
        },
        "keywords": []
}
```

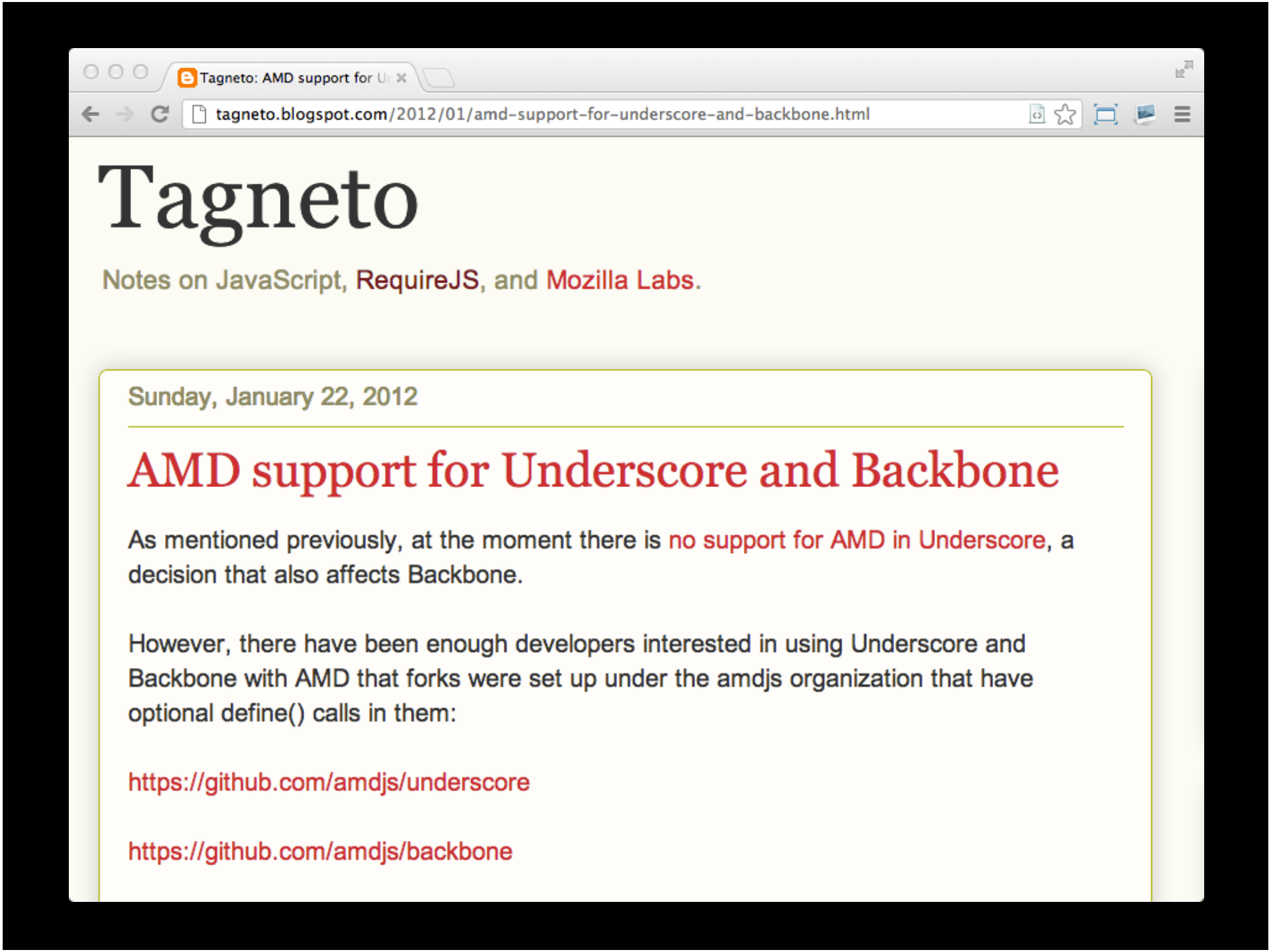

jQuery Blog » jQuery 1.7 Rel
blog.jquery.com/2011/11/03/jquery-1-7-released/
Asynchronous Module Definition (AMD)
jQuery now supports the AMD API. Note that jQuery 1.7 is *not* a script loader itself; it cooperates with AMD-compliant loaders such as RequireJS or curl.js so it can be loaded dynamically and the `ready` event can be controlled by the loader. Now an AMD-compliant loader can load an unmodified version of jQuery 1.7 from a CDN such as Google's or Microsoft's. Many thanks to James Burke (@jrburke) for submitting the patch and unit tests, then waiting patiently for us to incorporate it.


AMD · amdjs/amdjs-api Wiki
GitHub, Inc. [US] https://github.com/amdjs/amdjs-api/wiki/AMD
AMD
New Page
Edit Page
Page History
The Asynchronous Module Definition (AMD) API specifies a mechanism for defining modules such that the module and its dependencies can be asynchronously loaded. This is particularly well suited for the browser environment where synchronous loading of modules incurs performance, usability, debugging, and cross-domain access problems.
It is unrelated to the technology company AMD and the processors it makes.
Tests
Discussion
API Specification
Using require and exports
Sets up the module with ID of "alpha", that uses require, exports and the module with ID of "beta":
define("alpha", ["require", "exports", "beta"], function (require, exports, beta) {
exports.verb = function() {
return beta.verb();
//Or:
return require("beta").verb();
}
});

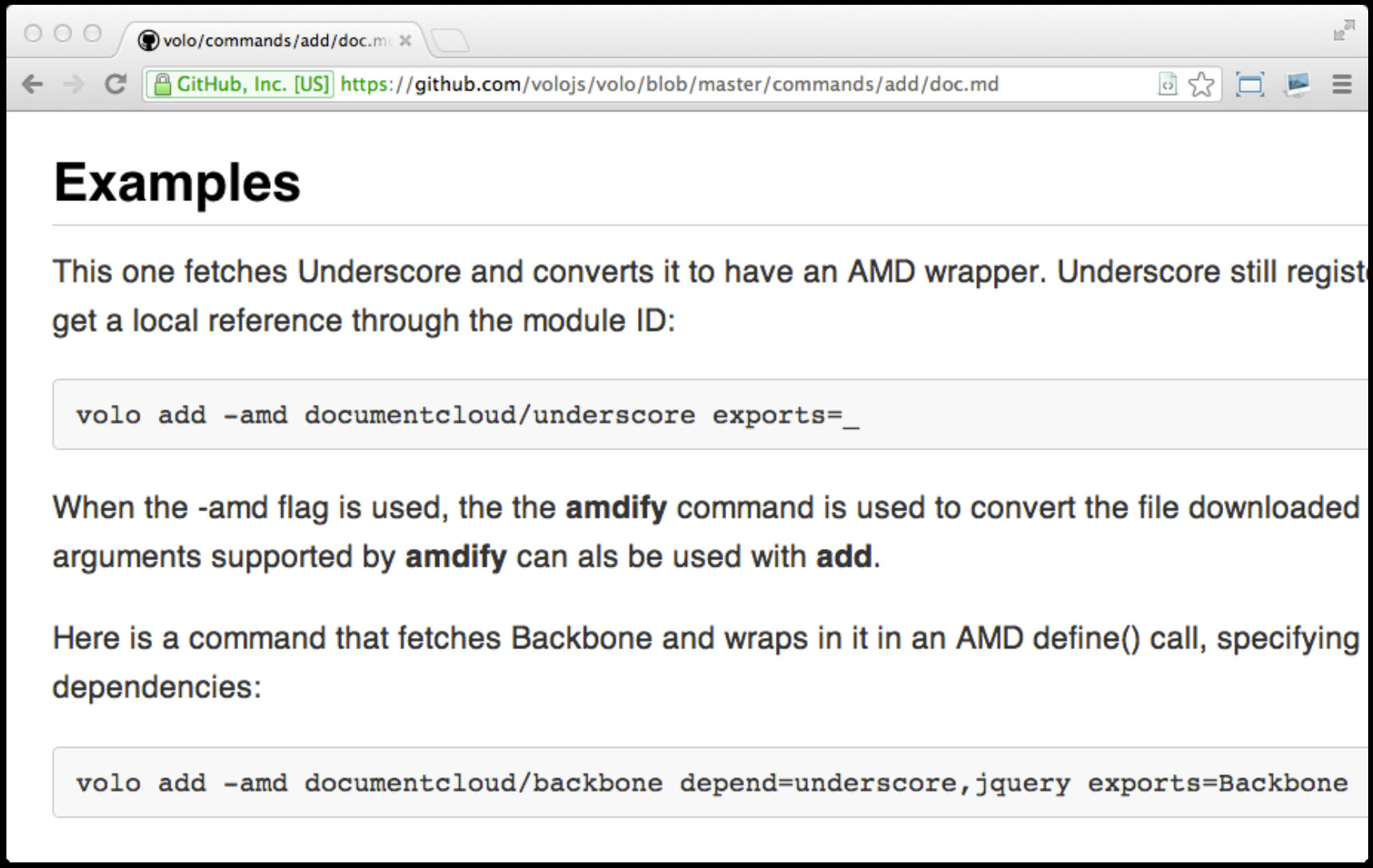
CommonJS == Synchronous, Server-Side (Node.js)

AMD == Asynchronous, Client-Side (Browser)

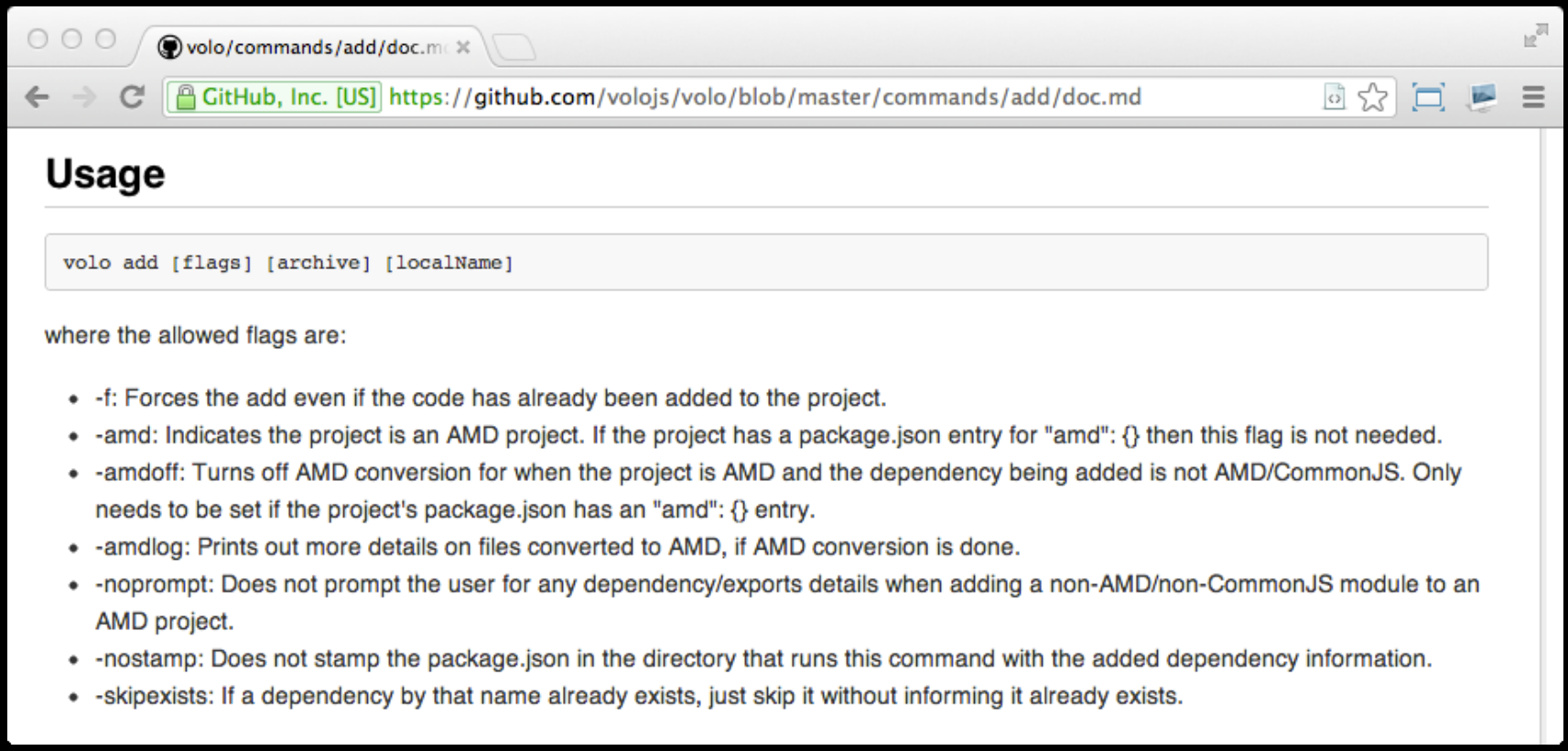


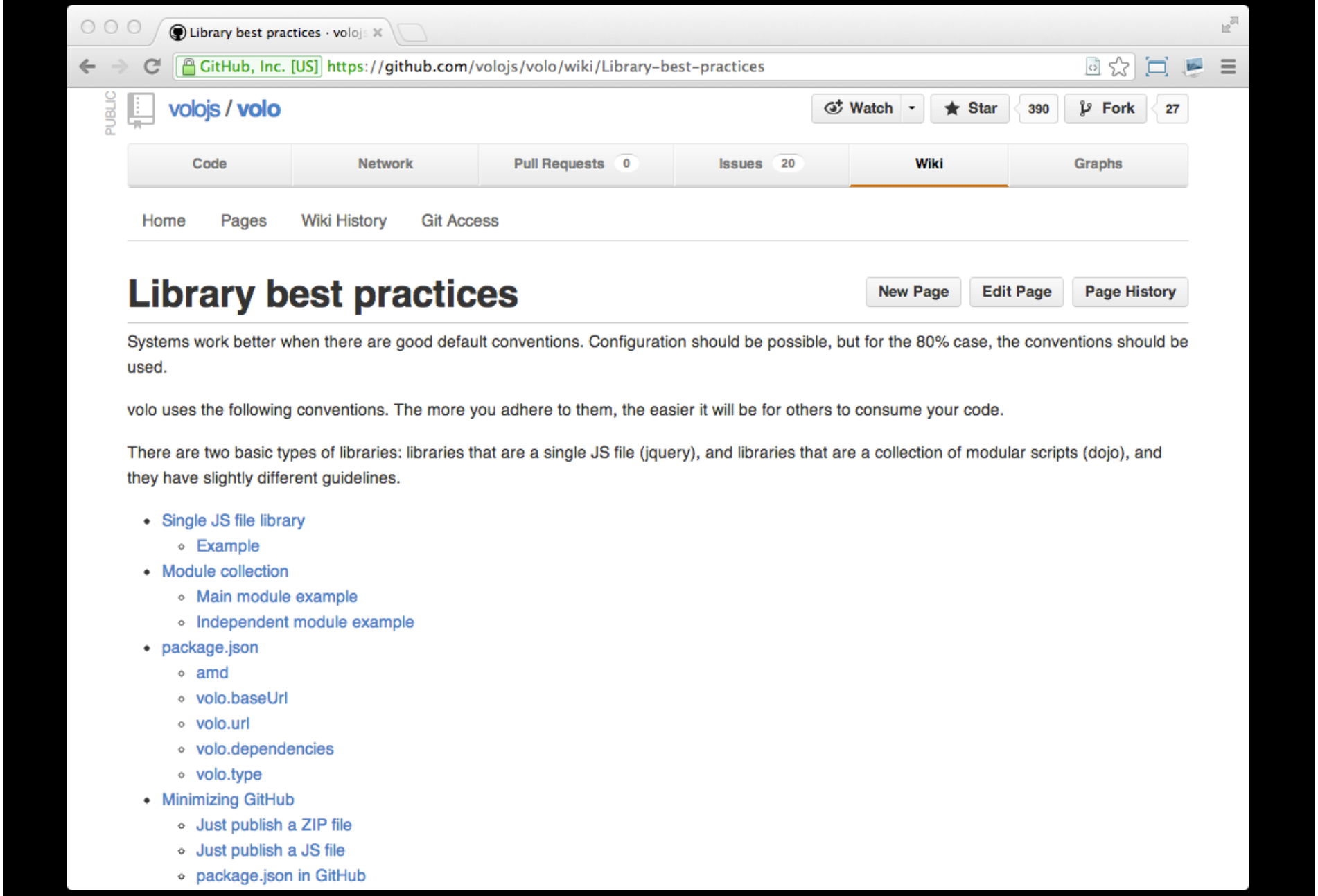

Tagneto: AMD support for U
tagneto.blogspot.com/2012/01/amd-support-for-underscore-and-backbone.html
Tagneto
Notes on JavaScript, RequireJS, and Mozilla Labs.
Sunday, January 22, 2012
AMD support for Underscore and Backbone
As mentioned previously, at the moment there is no support for AMD in Underscore, a decision that also affects Backbone.
However, there have been enough developers interested in using Underscore and Backbone with AMD that forks were set up under the amdjs organization that have optional define() calls in them:
https://github.com/amdjs/underscore
https://github.com/amdjs/backbone

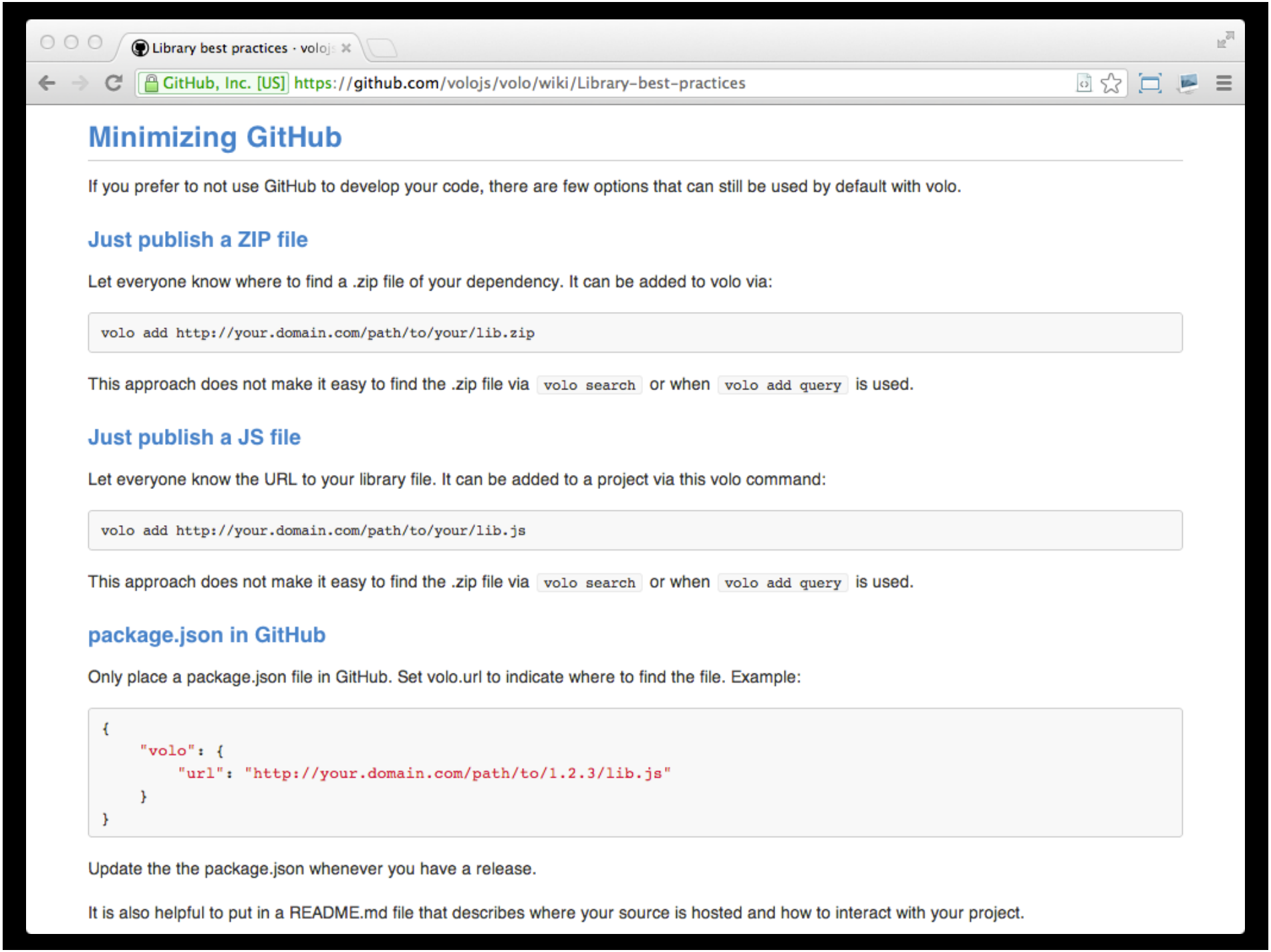
Volo.js can “amd-ify” libs...



...or it can ignore AMD with " -amdoff " and just download the lib




Library best practices · volojs
GitHub, Inc. [US] https://github.com/volojs/volo/wiki/Library-best-practices
PUBLIC
volojs / volo
Watch
Star
390
Fork
27
Code
Network
Pull Requests 0
Issues 20
Wiki
Graphs
Home
Pages
Wiki History
Git Access
Library best practices
New Page
Edit Page
Page History
Systems work better when there are good default conventions. Configuration should be possible, but for the 80% case, the conventions should be used.
volo uses the following conventions. The more you adhere to them, the easier it will be for others to consume your code.
There are two basic types of libraries: libraries that are a single JS file (jquery), and libraries that are a collection of modular scripts (dojo), and they have slightly different guidelines.
Single JS file library
Example
Module collection
Main module example
Independent module example
package.json
amd
volo.baseUrl
volo.url
volo.dependencies
volo.type
Minimizing GitHub
Just publish a ZIP file
Just publish a JS file
package.json in GitHub



Minimizing GitHub

If you prefer to not use GitHub to develop your code, there are few options that can still be used by default with volo.

Just publish a ZIP file

Let everyone know where to find a .zip file of your dependency. It can be added to volo via:

```
volo add http://your.domain.com/path/to/your/lib.zip
```

This approach does not make it easy to find the .zip file via `volo search` or when `volo add query` is used.

Just publish a JS file

Let everyone know the URL to your library file. It can be added to a project via this volo command:

```
volo add http://your.domain.com/path/to/your/lib.js
```

This approach does not make it easy to find the .zip file via `volo search` or when `volo add query` is used.

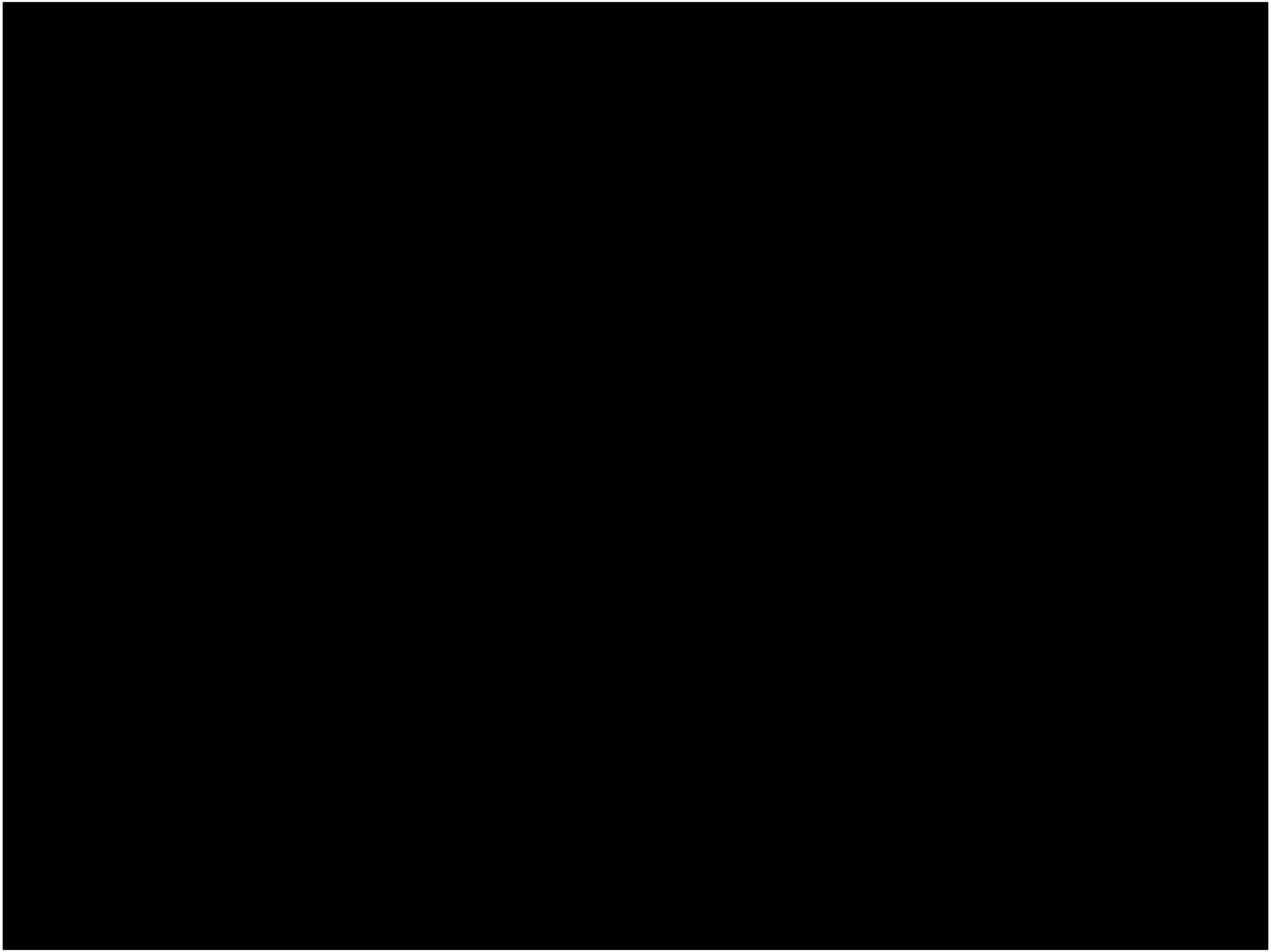
package.json in GitHub

Only place a package.json file in GitHub. Set volo.url to indicate where to find the file. Example:

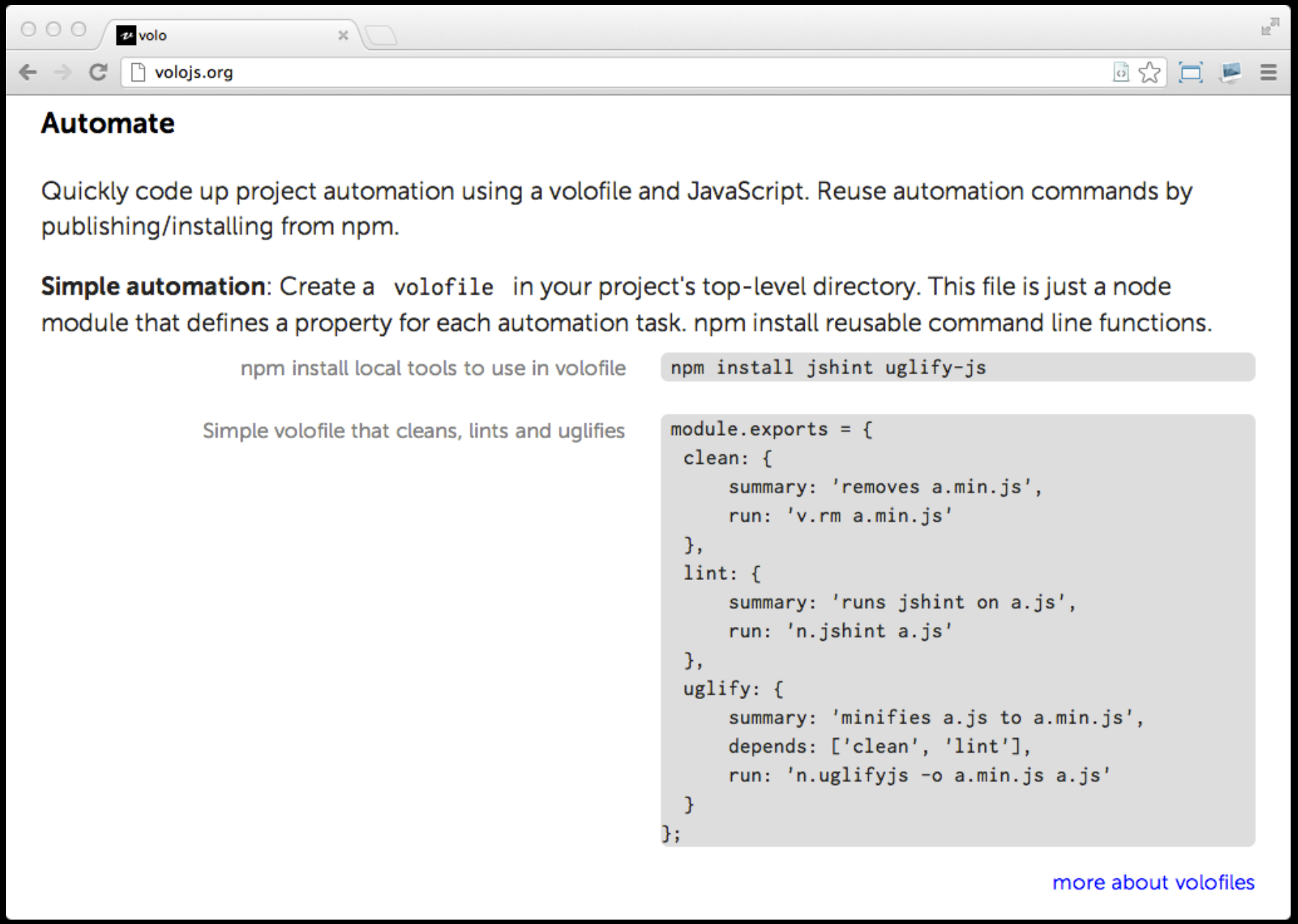
```
{
    "volo": {
        "url": "http://your.domain.com/path/to/1.2.3/lib.js"
    }
}
```

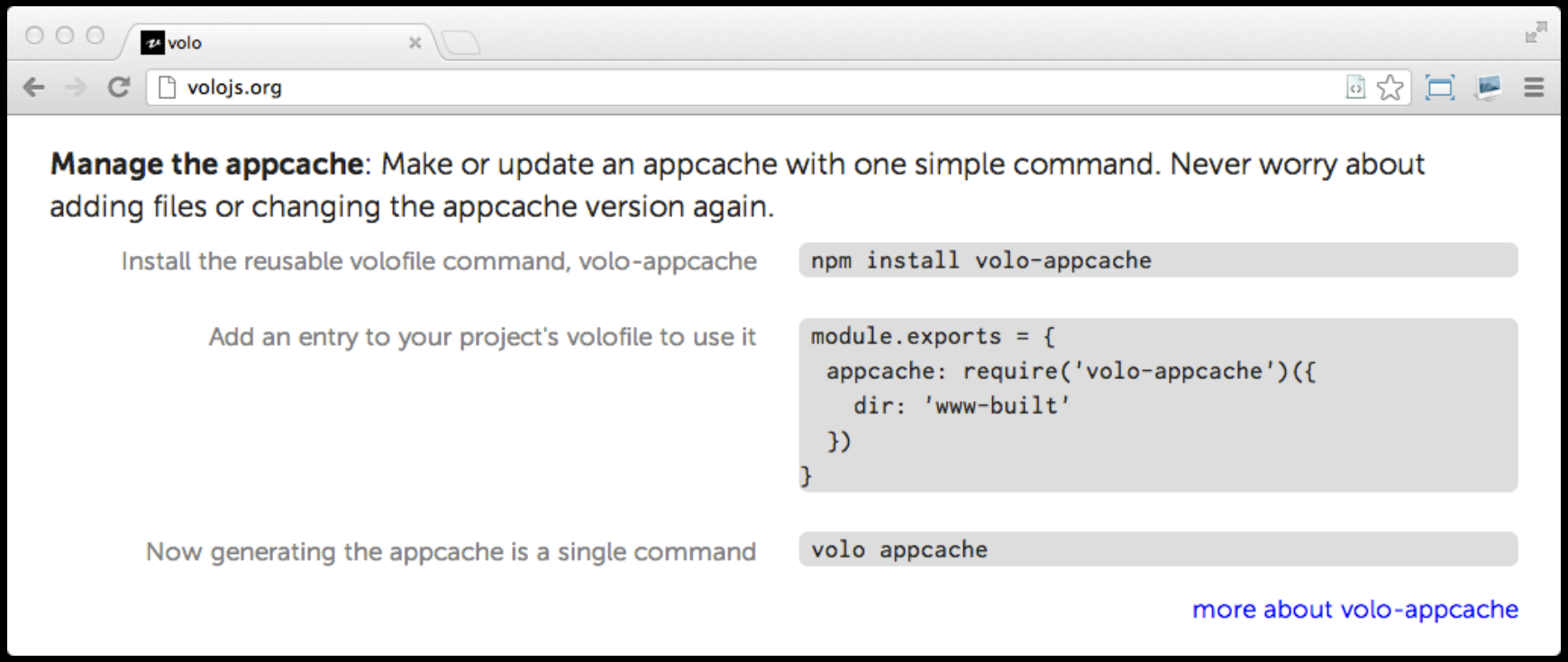
Update the the package.json whenever you have a release.

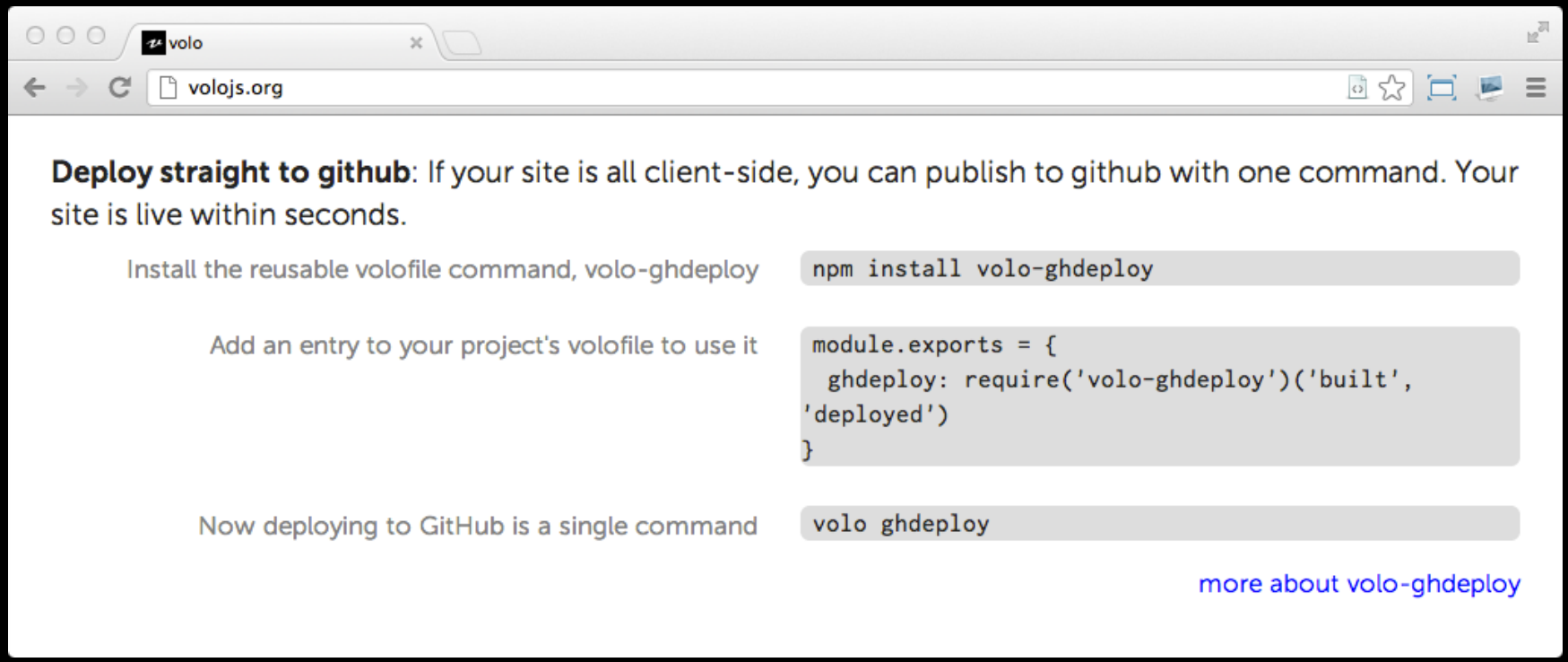
It is also helpful to put in a README.md file that describes where your source is hosted and how to interact with your project.

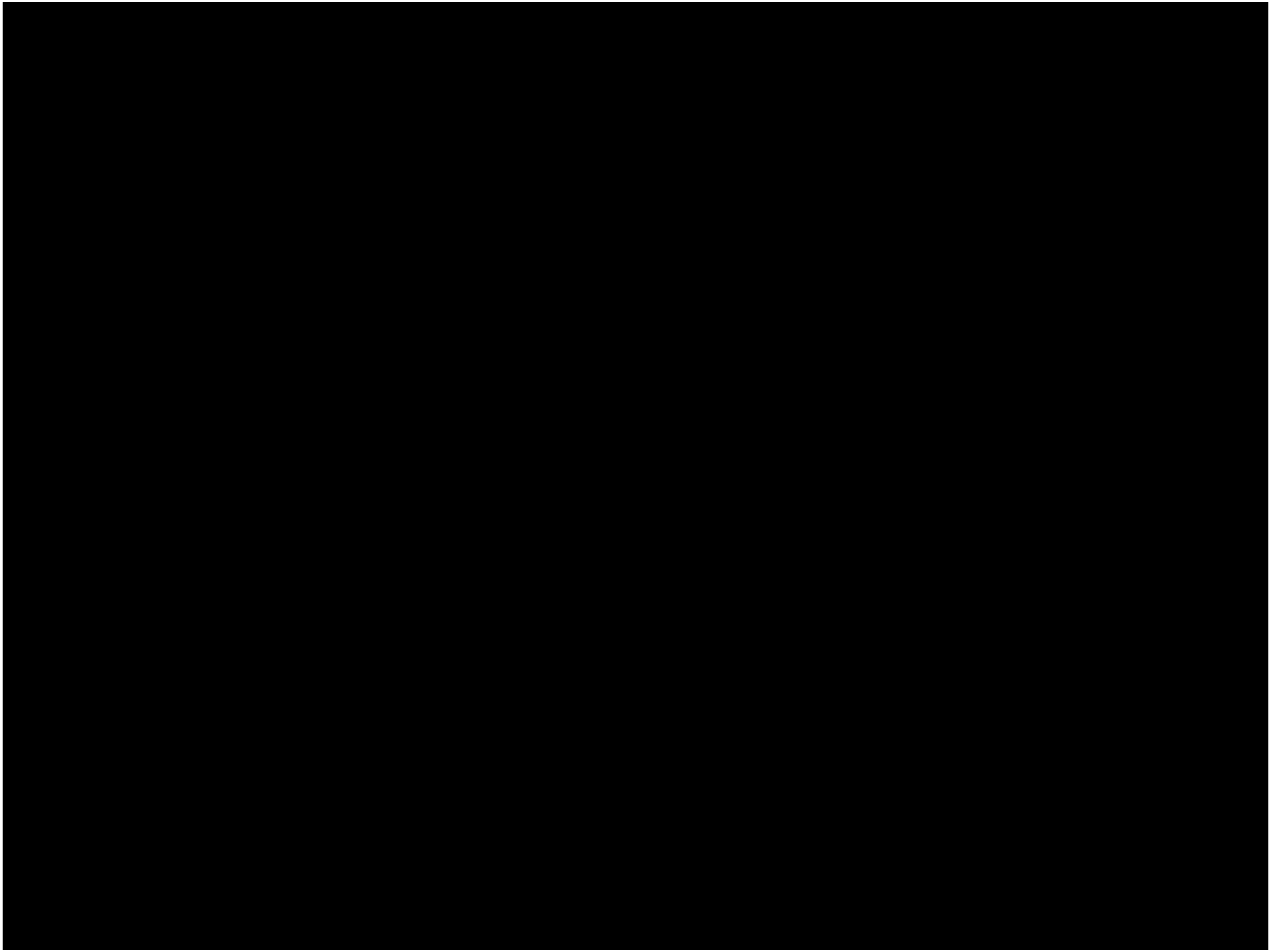


<extras>


volo
volojs.org
Automate
Quickly code up project automation using a volofile and JavaScript. Reuse automation commands by publishing/installing from npm.
Simple automation: Create a volofile in your project's top-level directory. This file is just a node module that defines a property for each automation task. npm install reusable command line functions.
npm install local tools to use in volofile
npm install jshint uglify-js
Simple volofile that cleans, lints and uglifies
module.exports = {
clean: {
summary: 'removes a.min.js',
run: 'v.rm a.min.js'
},
lint: {
summary: 'runs jshint on a.js',
run: 'n.jshint a.js'
},
uglify: {
summary: 'minifies a.js to a.min.js',
depends: ['clean', 'lint'],
run: 'n.uglifyjs -o a.min.js a.js'
}
};
more about volofiles


volo
volojs.org
Manage the appcache: Make or update an appcache with one simple command. Never worry about adding files or changing the appcache version again.
Install the reusable volofile command, volo-appcache
npm install volo-appcache
Add an entry to your project's volofile to use it
module.exports = {
appcache: require('volo-appcache')({
dir: 'www-built'
})
}
Now generating the appcache is a single command
volo appcache
more about volo-appcache

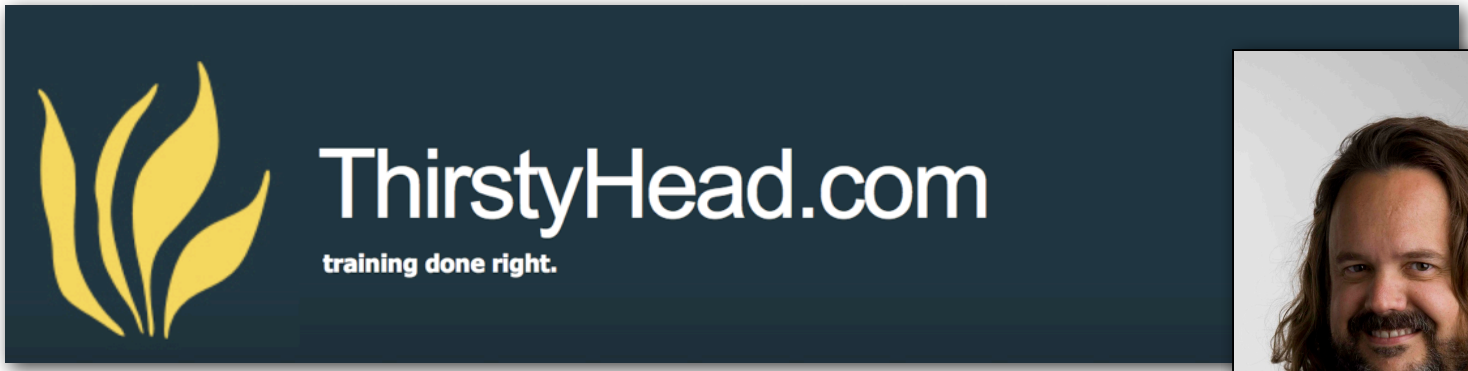

volo
volojs.org
Deploy straight to github: If your site is all client-side, you can publish to github with one command. Your site is live within seconds.
Install the reusable volofile command, volo-ghdeploy
npm install volo-ghdeploy
Add an entry to your project's volofile to use it
module.exports = {
ghdeploy: require('volo-ghdeploy')('built', 'deployed')
}
Now deploying to GitHub is a single command
volo ghdeploy
more about volo-ghdeploy



Volo.js:

Command-line love for Web Developers

Scott Davis, ThirstyHead.com



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Questions?
Thanks for your time.

source and slides:
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