

# Awesomation

(awesome + automation)

## Frontend workflow

### with Yeoman



# Agenda

What's Yo?

But why should i use?

Getting start

Dammit! time



# What's yo?

Maybe a subtitle



"Yeoman helps you kickstart new projects, prescribing best practices and tools to help you stay productive."

**<http://yeoman.io/>**

# Toolbox

With three types of tools  
for improving productivity



# which tools?

Yo  
scaffolds



scaffolds



Yo

Build  
system



Grunt

ols?



# Yo



scaffolds

# Grunt



Build  
system

# Bower



Package  
manager

# **But why should i use it?**

(remember.. there's no silver bullet!)





# The web's most popular front-end template

HTML5 Boilerplate helps you build fast, robust, and adaptable web apps or sites. Kick-start your project with the combined knowledge and effort of 100s of developers

# Scaffolding

Set up a project structure quickly

# Generators

and sub-generators

+900 generators available  
(officials + community)



# Generators

and sub-generators

+900 generators available  
(officials + community)



# Generators

and sub-generators

+900 generators available  
(officials + community)



# Generators

and sub-generators

+900 generators available  
(officials + community)



# Generators

and sub-generators

+900 generators available  
(officials + community)



# Generators

and sub-generators

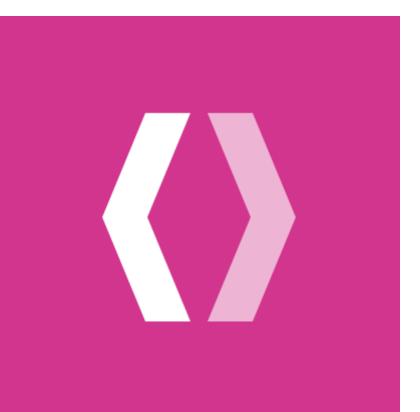
+900 generators available  
(officials + community)



# Generators

and sub-generators

+900 generators available  
(officials + community)





# Automation

Minification, compilation, unit testing, linting, etc



# Automation

Minification, compilation, unit testing, linting, etc





# Automation

Minification, compilation, unit testing, linting, etc



Sass

The word "Sass" is written in a pink, handwritten-style font. A small black curved arrow points from the text "Minification, compilation, unit testing, linting, etc" towards the "Sass" logo.



# Automation

Minification, compilation, unit testing, linting, etc





# grunt-responsive-image

**Create multi-resolution images**



# grunt-contrib-imagemin

**optimizations to jpg/png/gif**



# grunt-uncss

**remove unused css**



Dion Almaer  
@dalmaer



Following

"1186 rules (91%) of CSS not used by the current page."

When bootstrap is used for convenience in "overkill" mode.

Reply Retweet Favorite Buffer More



# Management

**Hunting, finding, downloading, and saving frameworks,  
libraries, assets, utilities**



# Old way

jQuery is outdated, let's update!

Open jQuery's site

Download new version

Copy to app folder

Update scripts tag



# With bower

```
> bower install jquery --save
```

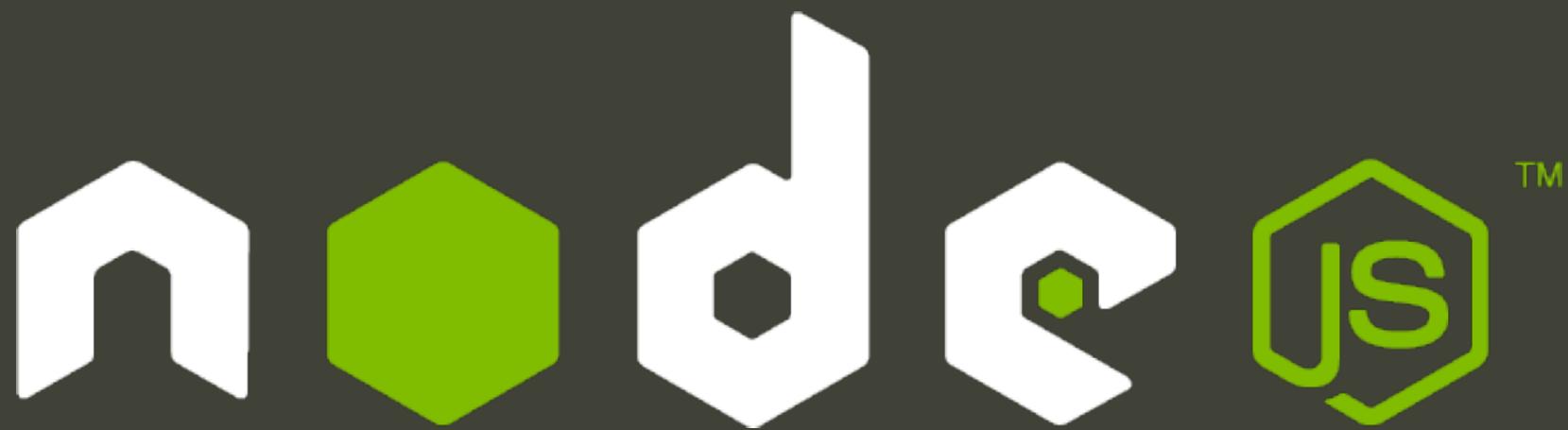
# Getting start

## Installation and HelloWord





**WAIT! WAIT! WAIT!**  
HOLD ON A SECOND!



<http://nodejs.org/download/>



**Windows Installer**

node-v0.10.30-x86.msi



**Macintosh Installer**

node-v0.10.30.pkg



**Source Code**

node-v0.10.30.tar.gz



<http://nodejs.org/download/>



**Windows Installer**

node-v0.10.30-x86.msi



**Macintosh Installer**

node-v0.10.30.pkg



**Source Code**

node-v0.10.30.tar.gz

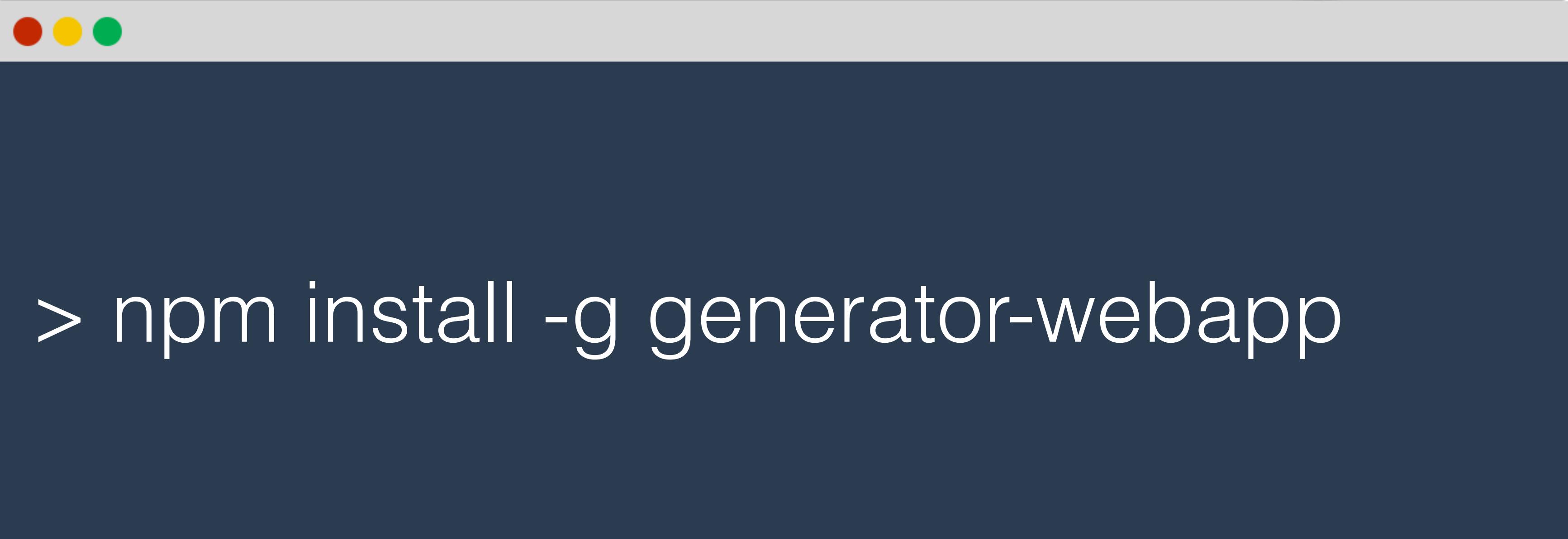
**npm**

# Installation



```
> npm install -g yo
```

# WebApp generator

A dark blue rectangular box representing a terminal window, featuring the three standard OS X window control buttons (red, yellow, green) at the top left.

```
> npm install -g generator-webapp
```

# WebApp generator



```
> npm install -g generator-webapp
```

# WebApp generator



```
> npm install -g generator-webapp
```



> yo webapp



Out of the box I include HTML5 Boilerplate, jQuery, and a Gruntfile.js to build your app.

[?] What more would you like? (Press <space> to select)

Bootstrap

Sass

Modernizr

...

create Gruntfile.js

create package.json

create .gitignore

create .gitattributes

create bower.json

create .jshintrc

create .editorconfig

create app/favicon.ico

...

..

.

I'm all done. Running **bower install** & **npm install** for you to install the required dependencies.

If this fails, try running the command yourself.

...

..

.



> grunt serve

Running "serve" task

Running "clean:server" (clean) task

Cleaning .tmp...OK

Running "concurrent:server" (concurrent) task

Running "copy:styles" (copy) task

Copied 1 files

Done, without errors.

Execution Time (2014-08-01 18:36:43 UTC)

loading tasks 2ms  11%

copy:styles 15ms  83%

Total 18ms

Running "autoprefixer:dist" (autoprefixer) task

File .tmp/styles/main.css created.

Running "connect:livereload" (connect) task

Started connect web server on http://localhost:9000

Running "watch" task

Waiting...

# 'Allo, 'Allo!

Always a pleasure scaffolding your apps.

Splendid! ✓

## HTML5 Boilerplate

HTML5 Boilerplate is a professional front-end template for building fast, robust, and adaptable web apps or sites.

## Bootstrap

Sleek, intuitive, and powerful mobile first front-end framework for faster and easier web development.

## FOLDERS

```
▼ webapp
  ► .tmp
  ▼ app
    ► images
    ► scripts
    ► styles
    .htaccess
    404.html
    favicon.ico
    index.html
    robots.txt
  ► bower_components
  ► node_modules
  ► test
    .editorconfig
    .gitattributes
    .gitignore
    .jshintrc
    bower.json
    Gruntfile.js
    package.json
```

```
index.html
1 <!DOCTYPE html>
2 <html class="no-js">
3   <head>
4     <meta charset="utf-8">
5     <meta name="viewport" content="width=device-width">
6     <meta name="description" content="">
7     <meta name="keywords" content="AngularJS, angular, angularjs, angular.js">
8     <link rel="stylesheet" href="/bower_components/foundation/js/foundation.min.css">
9     <!-- Place foundation.css and application.css in the root directory -->
10    <link href="css/styles/vendor.css" type="text/css" media="all" rel="stylesheet" />
11    <link href="css/styles/main.css" type="text/css" media="all" rel="stylesheet" />
12    <link rel="stylesheet" href="bower_components/foundation/js/foundation.min.css">
13    <!-- Foundation -->
14    <link rel="stylesheet" href="css/styles/main.css" type="text/css" media="all" rel="stylesheet" />
15    <!-- Main -->
16  </head>
17  <body>
18    <div id="app" style="text-align: center; margin-top: 100px;">
19      <p>You are using an out-of-date browser version. Please upgrade to
20        the latest version of your browser to improve your user experience.
21      </p>
22    </div>
23
24    <div class="container">
25      <div class="header">
26        <ul class="nav nav-pills pull-right">
27          <li class="active"><a href="#about">About</a></li>
28          <li><a href="#">About</a></li>
29          <li><a href="#">Contact</a></li>
30        </ul>
31        <li class="list-item"><a href="#">About</a></li>
32      </div>
33    </div>
34
35    <div class="jumbotron">
36      <h1>Hello, World!</h1>
37      <p>Always a pleasure collaborating your work of</p>
38      <p><b>With bring the success!</b> <a href="#">View Details</a></p>
39    </div>
40  </body>
```

## FOLDERS

- ▼ webapp
  - .tmp
  - app
    - images
    - scripts
    - styles
  - .htaccess
  - 404.html
  - favicon.ico
  - index.html
  - robots.txt

- bower\_components
- node\_modules
- test
- .editorconfig
- .gitattributes
- .gitignore
- .jshintrc
- bower.json
- Gruntfile.js
- package.json

## Your app

```
index.html
1 <!DOCTYPE html>
2 <html class="no-js">
3   <head>
4     <meta charset="utf-8">
5     <meta name="viewport" content="width=device-width">
6     <meta name="description" content="">
7     <meta name="keywords" content="AngularJS, angular, angularjs, angular.js">
8     <link href="bower_components/favico/favicon.png" rel="shortcut icon" type="image/png">
9     <!-- Place favicon.ico and angular-bootstrap-logo.png in the root directory -->
10    <link href="styles/vendor.css" rel="stylesheet" type="text/css">
11    <link href="css/main.css" rel="stylesheet" type="text/css">
12    <link rel="stylesheet" href="bower_components/bootstrap/dist/css/bootstrap.css">
13    <link rel="stylesheet" href="bower_components/bootstrap-social/bootstrap-social.css">
14    <link rel="stylesheet" href="css/main.css" rel="stylesheet" type="text/css">
15    <link rel="stylesheet" href="css/style.css" rel="stylesheet" type="text/css">
16    <link rel="stylesheet" href="css/navbar.css" rel="stylesheet" type="text/css">
17
18  </head>
19  <body>
20    <div>[if lt IE 9]>
21      <p class="browserupgrade">You are using an out-of-date browser version. Please update your browser to improve your experience.
22    </div>
23
24    <div class="container">
25      <div class="header">
26        <ul class="nav nav-pills pull-right">
27          <li class="active"><a href="#">Home</a></li>
28          <li><a href="#">About</a></li>
29          <li><a href="#">Contact</a></li>
30        </ul>
31        <li class="list-item"><a href="#">Logout</a></li>
32      </div>
33    </div>
34
35    <div class="jumbotron">
36      <h1>Hello, World!</h1>
37      <p>Always a pleasure collaborating your work of <b>AngularJS</b> <br/> with <b>Bootstrap</b> <br/> using <b>AngularJS</b> <br/> and <b>Angular Bootstrap</b> <br/> together!</p>
38    </div>
39
40  </body>
41
42
```

## FOLDERS

The screenshot shows a file explorer interface with a tree view of a project directory. The root folder is 'webapp'. Inside 'webapp' are several subfolders and files:

- 'app' (highlighted with a red border)
  - 'images'
  - 'scripts'
  - 'styles'
- '.htaccess'
- '404.html'
- 'favicon.ico'
- 'index.html' (highlighted with a grey background)
- 'robots.txt'

Below 'app' are two more folders:

- 'bower\_components'
- 'node\_modules'

At the bottom of the list are several configuration and dependency files:

- '.editorconfig'
- '.gitattributes'
- '.gitignore'
- '.jshintrc'
- 'bower.json'
- 'Gruntfile.js'
- 'package.json'

# Your app

# Bower and npm components

```
<!-- build-in styling styles/mixin.css -->
<link rel="stylesheet" href="styles/mixin.css">
<!-- endfile 12 -->
</head>
<body>
<!--{if lt IE 9}>
<div class="polyfill-warning">You are using an outdated browser. Please upgrade your browser to benefit from our website!</div>
</div>

<div class="container">
<div class="Header">
<ul class="nav nav-pills pull-right">
<li class="active"><a href="#home" role="button">Home</a></li>
<li><a href="#about" role="button">About</a></li>
<li><a href="#contact" role="button">Contact</a></li>
</ul>
<div class="text-muted" style="background-color: #f0f0f0; padding: 10px; border-radius: 5px; margin-top: 10px;"></div>
</div>
<div class="content">
<div class="jumbotext">
<h1>Hello, World!</h1>
<p>Always a pleasure collaborating with you!</p>
<p>For more styling information <a href="https://getbootstrap.com">check out Bootstrap's styling guide</a></p>
</div>
</div>
</div>
```





# bower.json

```
1 {
2   "name": "webapp",
3   "private": true,
4   "dependencies": {
5     "bootstrap": "~3.0.3",
6     "jquery": "~1.11.0"
7   },
8   "devDependencies": {}
9 }
10
```

# Grunfile.js

```
31  watch: {
32    bower: {
33      files: ['bower.json'],
34      tasks: ['bowerInstall']
35    },
36    js: {
37      files: ['<%= config.app %>/scripts/{,*/}*.js'],
38      tasks: ['jshint'],
39      options: {
40        livereload: true
41      }
42    },
43    jstest: {
44      files: ['test/spec/{,*/}*.js'],
45      tasks: ['test:watch']
46    },
47    gruntfile: {
48      files: ['Gruntfile.js']
49    },
50    styles: {
51      files: ['<%= config.app %>/styles/{,*/}*.css'],
52      tasks: ['newer:copy:styles', 'autoprefixer']
53    },
54    livereload: {
55      options: {
56        livereload: '<%= connect.options.livereload %>'
57      },
58      files: [
```

# package.json

```
1  {
2    "name": "webapp",
3    "version": "0.0.0",
4    "dependencies": {},
5    "devDependencies": {
6      "grunt": "~0.4.1",
7      "grunt-contrib-copy": "~0.5.0",
8      "grunt-contrib-concat": "~0.3.0",
9      "grunt-contrib-uglify": "~0.4.0",
10     "grunt-contrib-jshint": "~0.9.2",
11     "grunt-contrib-cssmin": "~0.9.0",
12     "grunt-contrib-connect": "~0.7.1",
13     "grunt-contrib-clean": "~0.5.0",
14     "grunt-contrib-htmlmin": "~0.2.0",
15     "grunt-bower-install": "~1.4.0",
16     "grunt-contrib-imagemin": "~0.6.0",
17     "grunt-contrib-watch": "~0.6.1",
18     "grunt-rev": "~0.1.0",
19     "grunt-autoprefixer": "~0.7.2",
20     "grunt-usemin": "~2.1.0",
21     "grunt-mocha": "~0.4.10",
22     "grunt-newer": "~0.7.0",
23     "grunt-svgmin": "~0.4.0",
24     "grunt-concurrent": "~0.5.0",
25     "load-grunt-tasks": "~0.4.0",
26     "time-grunt": "~0.3.1",
27     "jshint-stylish": "~0.1.5"
28   },
29   "engines": {
30     "node": ">=0.10.0"
```



> grunt build

Running "cssmin:generated" (cssmin) task

File **dist/styles/vendor.css** created: **122.85 kB → 97.46 kB**

File **dist/styles/main.css** created: **1.55 kB → 735 B**

Running "uglify:generated" (uglify) task

File **dist/scripts/vendor.js** created: **282.77 kB → 96.46 kB**

File **dist/scripts/plugins.js** created: **58.3 kB → 27.59 kB**

File **dist/scripts/main.js** created: **30 B → 28 B**

Running "usemin:css" (usemin) task

**Processing as CSS - dist/styles/a5896f90.main.css**

Update the CSS to reference our revved images

**Processing as CSS - dist/styles/dfc57042.vendor.css**

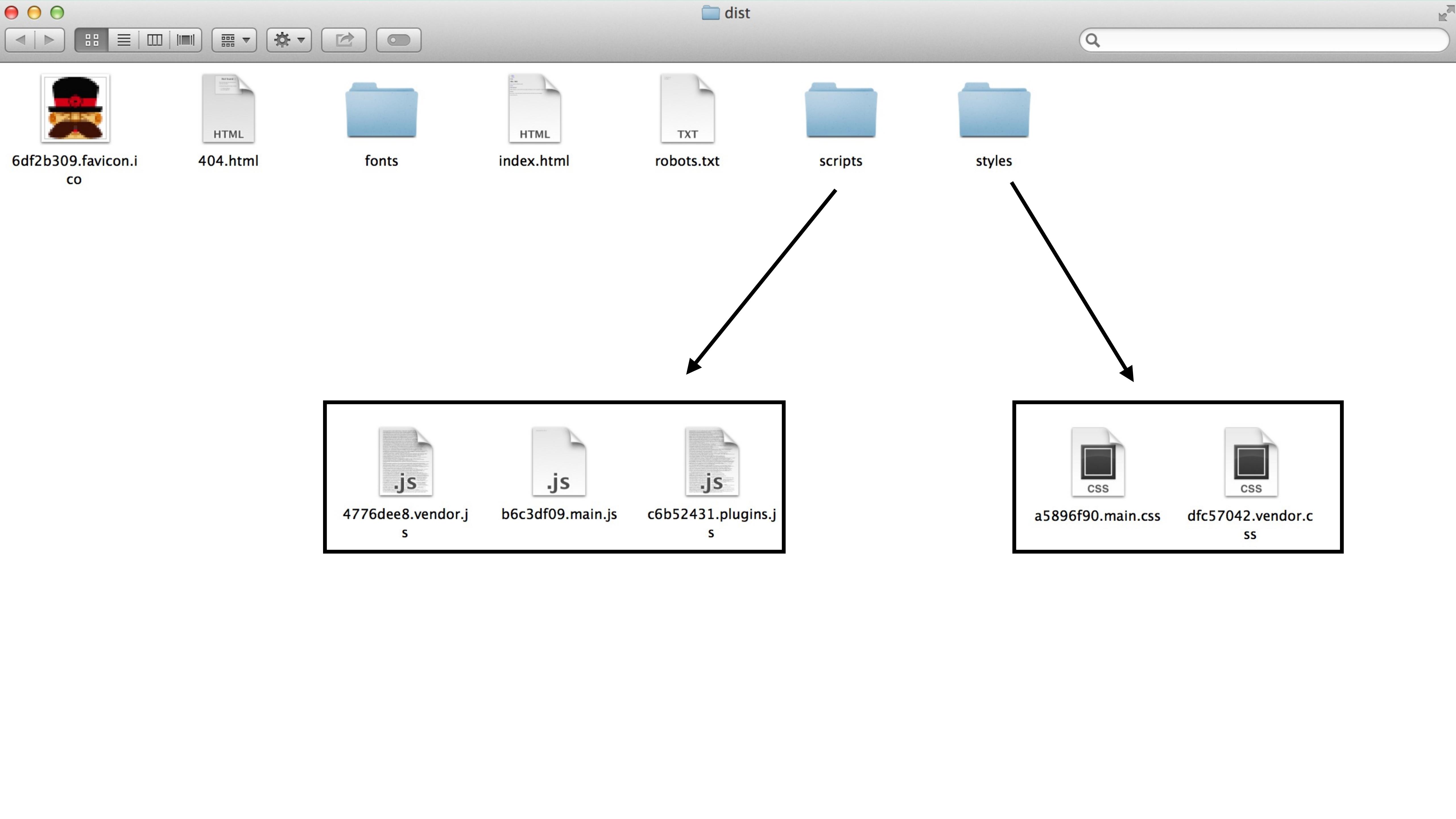
Update the CSS to reference our revved images

Running "htmlmin:dist" (htmlmin) task

Minified **dist/404.html** 4.46 kB → 4.18 kB

Minified **dist/index.html** 2.8 kB → 2.12 kB

**Done, without errors.**



*That's all Folks!*

**Thanks!**

[github/fb/twitter]/jmscarpa  
[joao.scarpa@gmail.com](mailto:joao.scarpa@gmail.com)