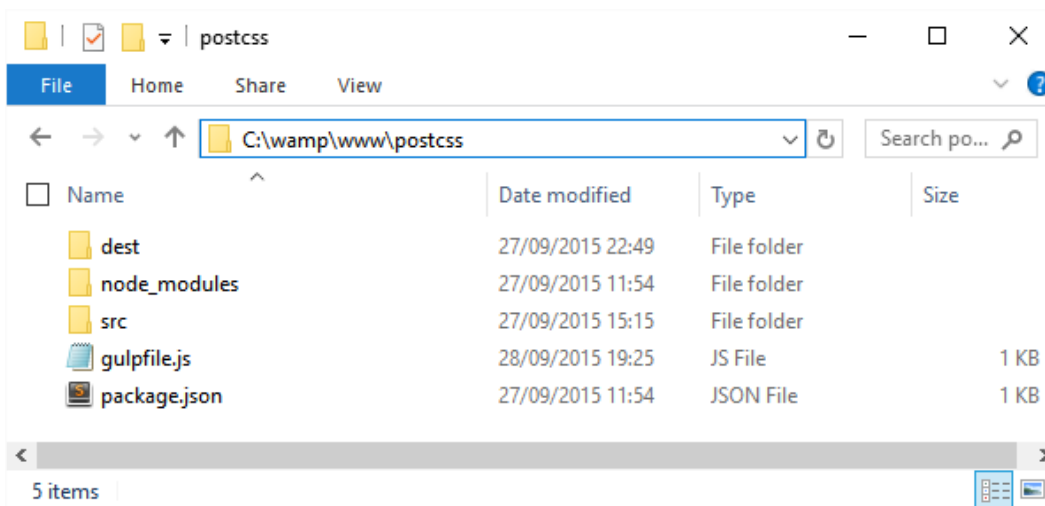
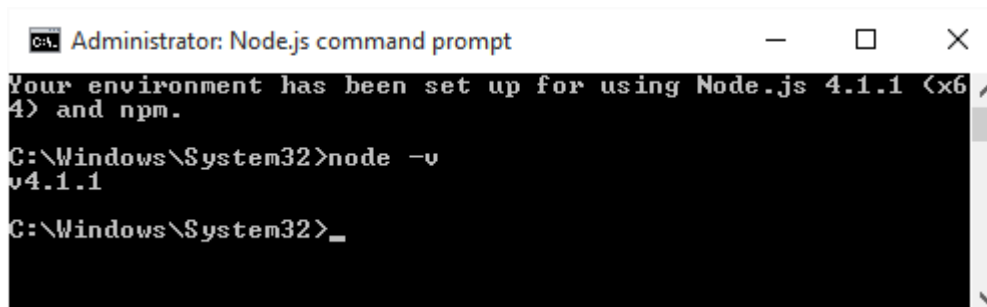
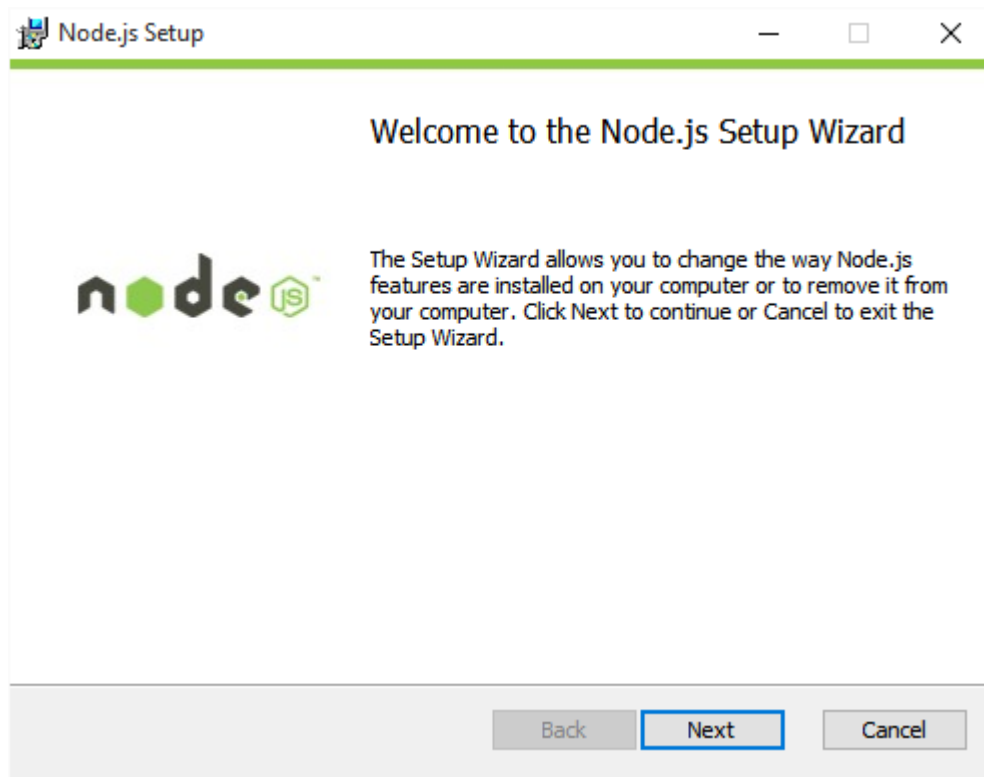


Chapter 1: Introducing PostCSS

```
1 PostCSS: 36 ms
2 Rework: 77 ms (2.1 times slower)
3 libsass: 136 ms (3.8 times slower)
4 Less: 160 ms (4.4 times slower)
5 Stylus: 167 ms (4.6 times slower)
6 Stylecow: 208 ms (5.7 times slower)
7 Ruby Sass: 1084 ms (30.1 times slower)
```





```
ca. npm
c:\wamp\www\postcss>npm init
This utility will walk you through creating a package.json file.
It only covers the most common items, and tries to guess sensible defaults.

See `npm help json` for definitive documentation on these fields
and exactly what they do.

Use `npm install <pkg> --save` afterwards to install a package and
save it as a dependency in the package.json file.

Press ^C at any time to quit.
name: <postcss>

version: <1.0.0>
description: Configuration file for PostCSS
entry point: <gulpfile.js>
test command:
git repository:
keywords:
author: Alex Libby
license: <ISC>
About to write to c:\wamp\www\postcss\package.json:
{
  "name": "postcss",
  "version": "1.0.0",
  "description": "Configuration file for PostCSS",
  "main": "gulpfile.js",
  "dependencies": {
    "cssnano": "^3.2.0",
    "autoprefixer": "^6.0.3",
    "gulp": "^3.9.0",
    "gulp-postcss": "^6.0.0",
    "gulp-rename": "^1.2.2",
    "gulp-sourcemaps": "^1.5.2"
  },
  "devDependencies": {},
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
  },
  "author": "Alex Libby",
  "license": "ISC"
}

Is this ok? <yes>
```

```
ca. Node.js command prompt
c:\wamp\www\postcss>npm install --save-dev gulp-postcss
npm WARN package.json postcss@1.0.0 No repository field.
npm WARN package.json postcss@1.0.0 No README data
gulp-postcss@6.0.0 node_modules\gulp-postcss
├── vinyl-sourcemaps-apply@0.1.4 (source-map@0.1.43)
├── postcss@5.0.8 (source-map@0.5.1, js-base64@2.1.9, supports-color@3.1.1)
├── gulp-util@3.0.6 (array-differ@1.0.0, object-assign@3.0.0, beeper@1.1.0, arra
y-uniq@1.0.2, lodash._reescape@3.0.0, lodash._reinterpolate@3.0.0, lodash._reeva
luate@3.0.0, replace-ext@0.0.1, minimist@1.2.0, vinyl@0.5.3, chalk@1.1.1, lodash
.template@3.6.2, through2@2.0.0, multipipe@0.1.2, dateformat@1.0.11)
c:\wamp\www\postcss>
```

C:\wamp\www\postcss\package.json - Sublime Text

File Edit Selection Find View Goto Tools Project Preferences Help

```
1 {
2   "name": "postcss",
3   "version": "1.0.0",
4   "description": "Configuration file for PostCSS",
5   "main": "index.js",
6   "scripts": {
7     "test": "echo \"Error: no test specified\" && exit 1"
8   },
9   "author": "Alex Libby",
10  "license": "ISC",
11  "devDependencies": {
12    "autoprefixer": "^6.0.3",
13    "cssnano": "^3.2.0",
14    "gulp": "^3.9.0",
15    "gulp-postcss": "^6.0.0",
16    "gulp-sourcemaps": "^1.5.2"
17  }
18 }
19
```

Line 1, Column 1 Spaces: 2 JSON

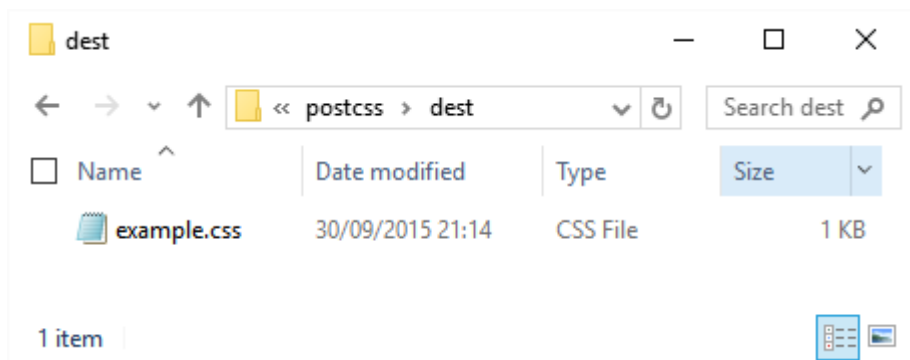
C:\wamp\www\postcss\gulpfile.js - Sublime Text

File Edit Selection Find View Goto Tools Project Preferences Help

```
1 var gulp = require('gulp');
2 var postcss = require('gulp-postcss');
3 var autoprefixer = require('autoprefixer');
4
5 gulp.task('styles', function() {
6   return gulp.src('src/*.css')
7     .pipe(postcss([ autoprefixer ]))
8     .pipe(gulp.dest('dest/'));
9 });
```

Line 7, Column 41 Tab Size: 4 JavaScript

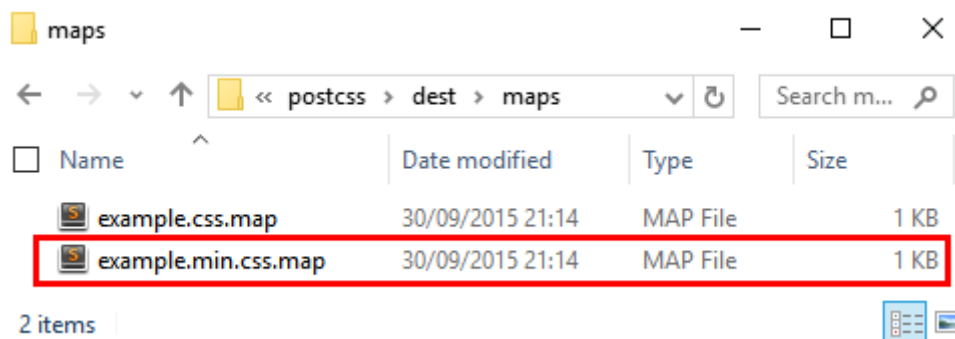
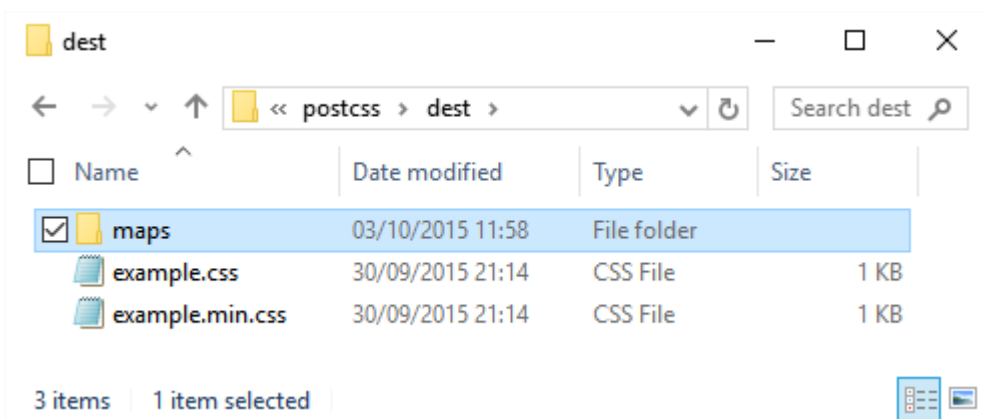
```
gulp
c:\wamp\www\postcss>gulp
[16:17:09] Using gulpfile c:\wamp\www\postcss\gulpfile.js
[16:17:09] Starting 'default'...
[16:17:09] Finished 'default' after 216 ms
```



```
C:\wamp\www\postcss\dest\example.css - Subli...
File Edit Selection Find View Goto Tools Project Preferences Help
example.css
1 body {
2     display: -webkit-box;
3     display: -webkit-flex;
4     display: -ms-flexbox;
5     display: flex;
6     background: green;
7 }
```

Line 1, Column 1 Tab Size: 4 CSS

```
Node.js command prompt
c:\wamp\www\postcss>gulp
[19:25:49] Using gulpfile c:\wamp\www\postcss\gulpfile.js
[19:25:49] Starting 'styles'...
[19:25:49] Finished 'styles' after 210 ms
[19:25:49] Starting 'rename'...
[19:25:49] Finished 'rename' after 66 ms
[19:25:49] Starting 'default'...
[19:25:49] Finished 'default' after 86 μs
c:\wamp\www\postcss>
```



```
C:\wamp\www\postcss\gulpfile.js - Sublime Text
File Edit Selection Find View Goto Tools Project Preferences Help

gulpfile.js
1 var gulp = require('gulp');
2 var postcss = require('gulp-postcss');
3 var sourcemaps = require('gulp-sourcemaps');
4 var autoprefixer = require('autoprefixer');
5 var rename = require('gulp-rename');
6 var cssnano = require('cssnano');
7
8 gulp.task('styles', function() {
9     return gulp.src('src/*.css')
10         .pipe(postcss([ autoprefixer ]))
11         .pipe(sourcemaps.init())
12         .pipe(sourcemaps.write('maps/'))
13         .pipe(gulp.dest('dest/'));
14 });
15
16 gulp.task('rename', ['styles'], function () {
17     return gulp.src('dest/example.css')
18         .pipe(postcss([ cssnano ]))
19         .pipe(rename('example.min.css'))
20         .pipe(sourcemaps.init())
21         .pipe(sourcemaps.write('maps/'))
22         .pipe(gulp.dest("dest/"));
23 });
24
25 gulp.task('default', ['styles', 'rename']);
26
27 var watcher = gulp.watch('src/*.css', ['default']);
28 watcher.on('change', function(event) {
29     console.log('File ' + event.path + ' was ' + event.type + ', running tasks...');
30 });

Line 19, Column 21
Tab Size: 4
JavaScript
```

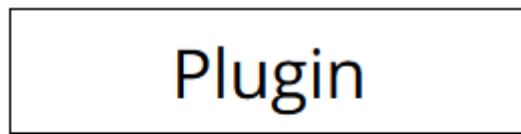
```
Node.js command prompt
c:\wamp\www\postcss>npm install stylelint
npm WARN package.json postcss@1.0.0 No repository field.
npm WARN package.json postcss@1.0.0 No README data
stylelint@1.1.0 node_modules\stylelint
├── balanced-match@0.2.0
├── postcss-selector-parser@1.3.0 <flatten@0.0.1, indexes-of@1.0.1, uniq@1.0.1>
├── execall@1.0.0 <clone-regexp@1.0.0>
├── postcss@5.0.8 <source-map@0.5.1, js-base64@2.1.9, supports-color@3.1.1>
└── lodash@3.10.1

c:\wamp\www\postcss>
```

```
Node.js command prompt
c:\wamp\www\postcss>npm install postcss-reporter
npm WARN package.json postcss@1.0.0 No repository field.
npm WARN package.json postcss@1.0.0 No README data
postcss-reporter@1.2.1 node_modules\postcss-reporter
├── log-symbols@1.0.2
├── lodash.property@3.1.2 (lodash.isarray@3.0.4, lodash.topath@3.8.1, lodash._baseget@3.7.2)
├── chalk@1.1.1 (supports-color@2.0.0, escape-string-regexp@1.0.3, ansi-styles@2.1.0, has-ansi@2.0.0, strip-ansi@3.0.0)
├── postcss@5.0.8 (source-map@0.5.1, js-base64@2.1.9, supports-color@3.1.1)
├── lodash.difference@3.2.2 (lodash.restparam@3.6.1, lodash._baseflatten@3.1.4, lodash._basedifference@3.0.3)
├── lodash.sortbyall@3.2.1 (lodash.restparam@3.6.1, lodash.isarguments@3.0.4, lodash.isarray@3.0.4, lodash._isiterateecall@3.0.9, lodash._baseflatten@3.1.4, lodash._baseeach@3.0.4, lodash._basesortbyorder@3.5.3)
c:\wamp\www\postcss>
```

```
gulp
Your environment has been set up for using Node.js 4.1.1 (x64) and npm.
C:\Users\alex>cd c:\wamp\www\postcss\
c:\wamp\www\postcss>gulp
[21:14:24] Using gulpfile c:\wamp\www\postcss\gulpfile.js
[21:14:24] Starting 'lint-styles'...
src\example.css
3:14    !! Unexpected invalid hex color "#fff1az" (color-no-invalid-hex) [stylelint]
[21:14:24] Finished 'lint-styles' after 94 ms
[21:14:24] Starting 'styles'...
[21:14:24] Finished 'styles' after 164 ms
[21:14:24] Starting 'rename'...
[21:14:24] Finished 'rename' after 82 ms
[21:14:24] Starting 'default'...
[21:14:24] Finished 'default' after 48 μs
```


CSS source map



New CSS new source map

Chapter 2: Creating Variables and Mixins

```
ca. Node.js command prompt
C:\wamp\www\postcss>npm install --save-dev gulp-sass
npm WARN package.json postcss@1.0.0 No repository field.
npm WARN package.json postcss@1.0.0 No README data
> spawn-sync@1.0.13 postinstall C:\wamp\www\postcss\node_modules\gulp-sass\node_modules\node-sass\node_modules\cross-spawn\node_modules\spawn-sync
> node postinstall
-
> node-sass@3.3.3 install C:\wamp\www\postcss\node_modules\gulp-sass\node_modules\node-sass
> node scripts/install.js
Binary downloaded and installed at C:\wamp\www\postcss\node_modules\gulp-sass\node_modules\node-sass\vendor\win32-x64-46\binding.node
> node-sass@3.3.3 postinstall C:\wamp\www\postcss\node_modules\gulp-sass\node_modules\node-sass
```

```
1  $dark-grayish-green: #868a7b;
2  $very-dark-gray: #333333;
3  $white: #fff;
4
5  $demo-background: $dark-grayish-green;
6  $infobox-background: $very-dark-gray;
7
8  $fullsize: 100%;
```

HOVER EFFECT

PHALAENOPSIS ORCHID

Phalaenopsis, otherwise known as moth orchids, is an orchid genus of approximately 60 species.

Phalaenopsis is one of the most popular orchids in the trade, through the development of many artificial hybrids.



```
10 @mixin font-size($size, $base: 16) {
11     font-size: $size * 1px; // fallback for old browsers
12     font-size: ($size / $base) * 1rem;
13 }
```



```
ca. Node.js command prompt
C:\wamp\www\postcss>npm install postcss-css-variables --save-dev
npm WARN package.json postcss@1.0.0 No repository field.
npm WARN package.json postcss@1.0.0 No README data
postcss-css-variables@0.5.0 node_modules\postcss-css-variables
├── escape-string-regexp@1.0.3
├── extend@2.0.1
└── postcss@5.0.8 <source-map@0.5.1, js-base64@2.1.9, supports-color@3.1.1>
C:\wamp\www\postcss>
```

```
13 gulp.task('autoprefixer', function() {
14     return gulp.src('src/*.css')
15         .pipe(postcss([ autoprefixer, cssvariables(/* options */),
16         .pipe(gulp.dest('dest/')));
17 });
18
19 gulp.task('rename', ['lint-styles'], function () {
20     return gulp.src('dest/*.css')
```

PostCSS Mixins build passing

PostCSS plugin for mixins.

Note, that you must set this plugin before [postcss-simple-vars](#) and [postcss-nested](#).

```

ca. Node.js command prompt
C:\wamp\www\postcss>npm install --save-dev postcss-mixins
npm WARN package.json postcss@1.0.0 No repository field.
npm WARN package.json postcss@1.0.0 No README data
postcss-mixins@1.0.1 node_modules\postcss-mixins
├─ postcss-simple-vars@1.0.1
├─ glob@5.0.15 <path-is-absolute@1.0.0, inherits@2.0.1, once@1.3.2, inflight@1.0.4, minimatch@3.0.0>
└─ postcss@5.0.8 <source-map@0.5.1, js-base64@2.1.9, supports-color@3.1.1>
C:\wamp\www\postcss>_

```

```

element {
}

h3 {
  font-size: 2rem;
  color: #FFF;
  text-transform: uppercase;
  letter-spacing: 2px;
  width: 232px;
  margin-left: auto;
  margin-right: auto;
  margin-bottom: -20px;
}

```

Current aligned Usage relative Show all

IE	Edge *	Firefox	Chrome	Safari	Opera	iOS Safari *	Opera Mini *	Android Browser *	Chrome for Android
								4.1	
8		38	31					4.3	
9		39	43					4.4	
10		40	44	8		8.4		4.4.4	
11	12	41	45	9	32	9	8	44	45
	13	42	46		33				
		43	47		34				
		44	48						

```
ca. Command Prompt
Microsoft Windows [Version 10.0.10240]
(c) 2015 Microsoft Corporation. All rights reserved.

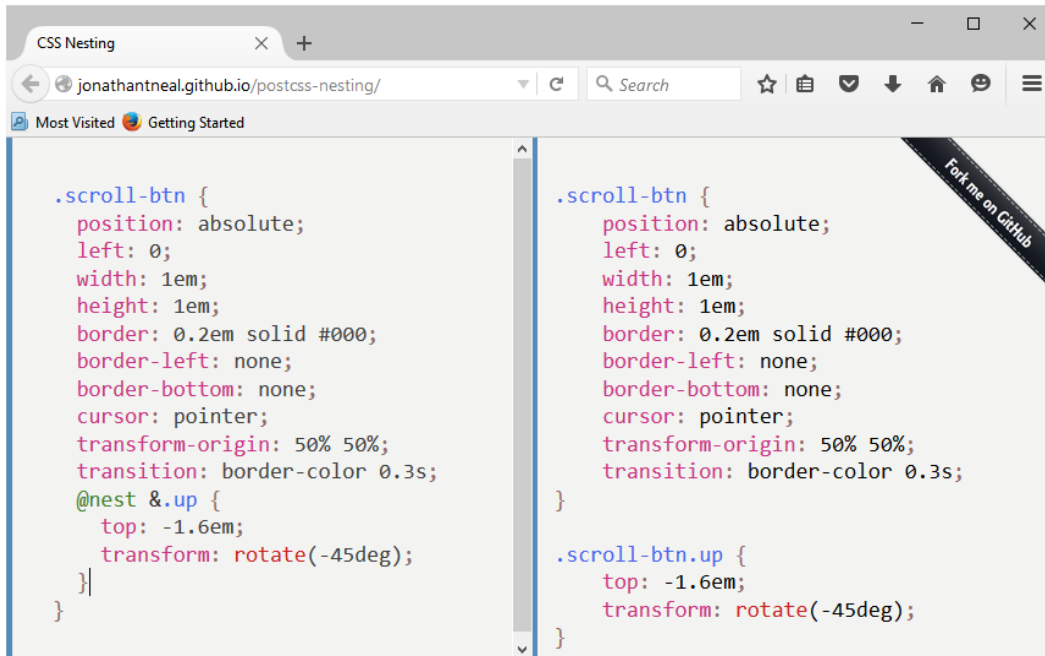
C:\Users\alex>cd \wamp\www\postcss

C:\wamp\www\postcss>npm install --save-dev postcss-each
npm WARN package.json postcss@1.0.0 No repository field.
npm WARN package.json postcss@1.0.0 No README data
postcss-each@0.7.0 node_modules\postcss-each
├── postcss-simple-vars@1.0.1
└── postcss@5.0.9 <js-base64@2.1.9, source-map@0.5.1, supports-color@3.1.1>

C:\wamp\www\postcss>_
```



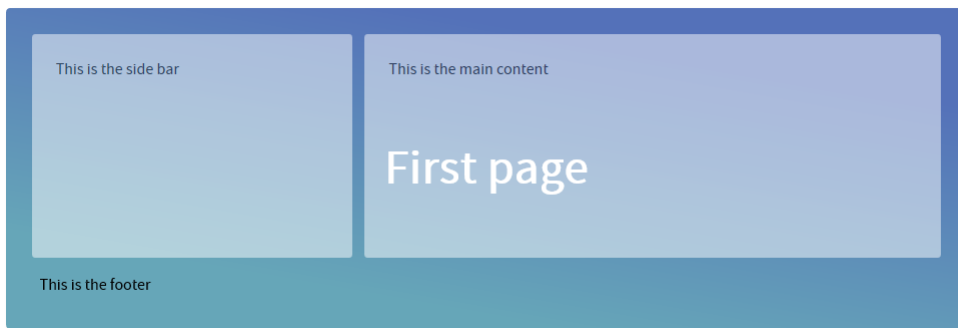
Chapter 3: Nesting Rules



```
.scroll-btn {
  position: absolute;
  left: 0;
  width: 1em;
  height: 1em;
  border: 0.2em solid #000;
  border-left: none;
  border-bottom: none;
  cursor: pointer;
  transform-origin: 50% 50%;
  transition: border-color 0.3s;
  @nest &.up {
    top: -1.6em;
    transform: rotate(-45deg);
  }
}

.scroll-btn {
  position: absolute;
  left: 0;
  width: 1em;
  height: 1em;
  border: 0.2em solid #000;
  border-left: none;
  border-bottom: none;
  cursor: pointer;
  transform-origin: 50% 50%;
  transition: border-color 0.3s;
}

.scroll-btn.up {
  top: -1.6em;
  transform: rotate(-45deg);
}
```



```
ca. Node.js command prompt
C:\wamp\www\postcss>npm install --save-dev postcss-nesting
npm WARN package.json postcss@1.0.0 No repository field.
npm WARN package.json postcss@1.0.0 No README data
postcss-nesting@2.0.6 node_modules\postcss-nesting
├── postcss@5.0.10 <js-base64@2.1.9, source-map@0.5.1, supports-color@3.1.2>
C:\wamp\www\postcss>
```

```
ca. gulp
Your environment has been set up for using Node.js 4.1.1 (x64) and npm.
C:\Users\alex>cd \wamp\www\postcss
C:\wamp\www\postcss>gulp
[00:07:35] Using gulpfile C:\wamp\www\postcss\gulpfile.js
[00:07:35] Starting 'autoprefixer'...
[00:07:36] Finished 'autoprefixer' after 362 ms
[00:07:36] Starting 'lint-styles'...
[00:07:36] Finished 'lint-styles' after 96 ms
[00:07:36] Starting 'rename'...
[00:07:36] Finished 'rename' after 442 ms
[00:07:36] Starting 'default'...
[00:07:36] Finished 'default' after 47 μs
```

```
111 .nav-panel {
112     position: fixed;
113     top: 50%;
114     right: 2%;
115     transform: translateY(-50%);
116     z-index: 1000;
117     transition: opacity 0.5s, transform 0.5s cubic-bezier(0.57, 1.2, 0.68, 2.6);
118     will-change: transform, opacity;
119     &.invisible {
120         opacity: 0;
121         transform: translateY(-50%) scale(0.5);
122     }
123     ul {
124         list-style-type: none;
125         li {
126             position: relative;
127             overflow: hidden;
```



```
1 .nav-panel ul .nav-btn.active:after, .nav-panel ul .nav-btn:hover:after {
2   -webkit-transform: translateX(-50%) translateY(-50%) scale(0.7);
3     -ms-transform: translateX(-50%) translateY(-50%) scale(0.7);
4       transform: translateX(-50%) translateY(-50%) scale(0.7);
5   opacity: 1;
6 }
```

```
162 .nav-panel ul li.active:after, .nav-panel ul li:hover:after {
163   transform: translateX(-50%) translateY(-50%) scale(0.7);
164   opacity: 1;
165   background-color: #000;
166 }
```


```
ca. Node.js command prompt
C:\wamp\www\postcss>npm install --save-dev postcss-bem
postcss@1.0.0 C:\wamp\www\postcss
├── postcss-bem@0.4.0
npm WARN EPACKAGEJSON postcss@1.0.0 No repository field.
C:\wamp\www\postcss>_
```


```
ca. Node.js command prompt
Your environment has been set up for using Node.js 4.1.1 (x64) and npm.
C:\Users\alex>cd \wamp\www\postcss\
C:\wamp\www\postcss>npm install --save-dev postcss-bem-linter
postcss@1.0.0 C:\wamp\www\postcss
├── postcss-bem-linter@2.0.0
npm WARN EPACKAGEJSON postcss@1.0.0 No repository field.
C:\wamp\www\postcss>_
```


```
ca. gulp
C:\wamp\www\postcss>gulp
[21:39:31] Using gulpfile C:\wamp\www\postcss\gulpfile.js
[21:39:31] Starting 'bem'...
[21:39:31] Starting 'lint'...
Container#eachAtRule is deprecated. Use Container#walkAtRules instead.
Node#removeSelf is deprecated. Use Node#remove.


dest\style.css
2:1    :: Invalid component selector ".dlgBox" [postcss-bem-linter]
9:1    :: Invalid component selector "span" [postcss-bem-linter]

[21:39:31] Finished 'bem' after 133 ms
[21:39:31] Finished 'lint' after 113 ms
[21:39:31] Starting 'default'...
[21:39:31] Finished 'default' after 47 µs
```

 **ERROR:** Write your error message here.

 **SUCCESS:** Write your success message here.

 **WARNING:** Write your warning message here.

 **NOTICE:** Write your notice message here.

```
ca. gulp
C:\wamp\www\postcss>gulp
[12:10:07] Using gulpfile C:\wamp\www\postcss\gulpfile.js
[12:10:07] Starting 'bem'...
[12:10:07] Starting 'lint'...
Container#eachAtRule is deprecated. Use Container#walkAtRules instead.
Node#removeSelf is deprecated. Use Node#remove.

dest\style.css
38:1   :: Invalid component selector ".dlgBox" [postcss-bem-linter]
45:1   :: Invalid component selector "span" [postcss-bem-linter]

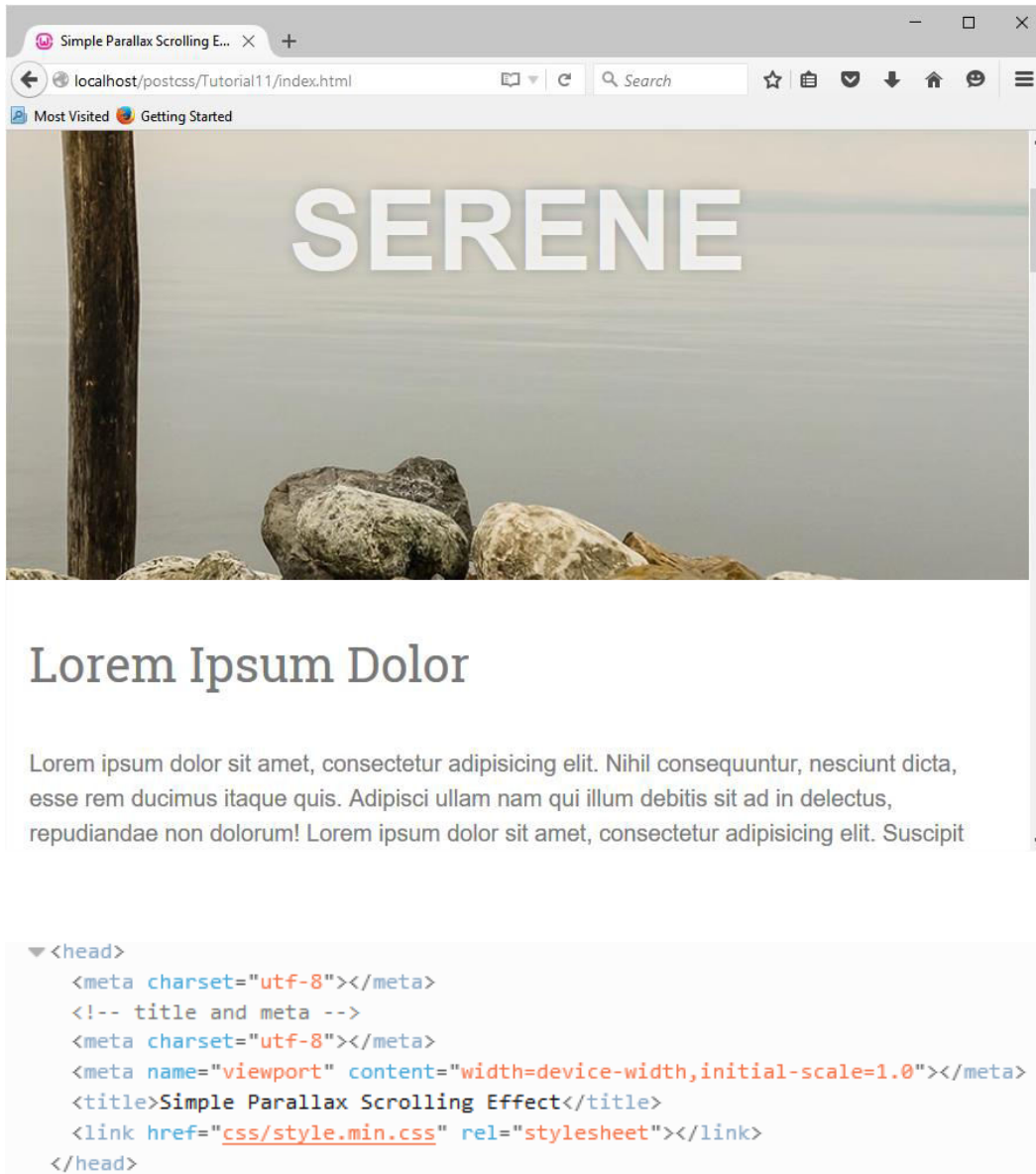
[12:10:07] Finished 'bem' after 147 ms
[12:10:07] Finished 'lint' after 128 ms
[12:10:07] Starting 'default'...
[12:10:07] Finished 'default' after 50 µs
```

```
48  /* postcss-bem-linter: ignore */
49  .dlgBox {
50      border-radius: 0.625rem;
51      padding: 0.625rem 0.625rem 0.625rem 2.375rem;
52      margin: 0.625rem;
53      width: 14.5rem;
54  }
55
56  span {
57      font-weight: bold;
58      text-transform: uppercase;
59  }
60
```



```
gulp
C:\wamp\www\postcss>gulp
[15:15:09] Using gulpfile C:\wamp\www\postcss\gulpfile.js
[15:15:09] Starting 'bem'...
[15:15:09] Starting 'lint'...
[15:15:09] Finished 'lint' after 26 ms
Container#eachAtRule is deprecated. Use Container#walkAtRules instead.
Node#removeSelf is deprecated. Use Node#remove.
[15:15:09] Finished 'bem' after 130 ms
[15:15:09] Starting 'default'...
[15:15:09] Finished 'default' after 54 µs
```

Chapter 4: Building Media Queries



Simple Parallax Scrolling E... x +

localhost/postcss/Tutorial11/index.html

Most Visited Getting Started

SERENE

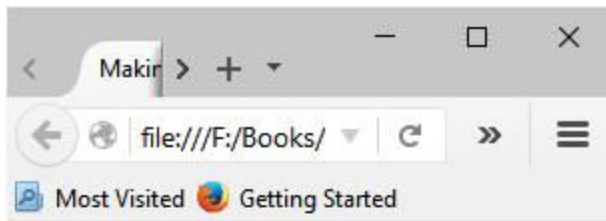
Lorem Ipsum Dolor

Lorem ipsum dolor sit amet, consectetur adipisicing elit. Nihil consequuntur, nesciunt dicta, esse rem ducimus itaque quis. Adipisci ullam nam qui illum debitis sit ad in delectus, repudiandae non dolorum! Lorem ipsum dolor sit amet, consectetur adipisicing elit. Suscipit

```
<head>
  <meta charset="utf-8"></meta>
  <!-- title and meta -->
  <meta charset="utf-8"></meta>
  <meta name="viewport" content="width=device-width,initial-scale=1.0"></meta>
  <title>Simple Parallax Scrolling Effect</title>
  <link href="css/style.min.css" rel="stylesheet"></link>
</head>
```

```
ca. Node.js command prompt
Your environment has been set up for using Node.js 4.1.1 (x64) and npm.
C:\Users\alex>cd \wamp\www\postcss
C:\wamp\www\postcss>npm install --save-dev postcss-responsive-images
postcss@1.0.0 C:\wamp\www\postcss
└─ postcss-responsive-images@1.0.1
npm WARN EPACKAGEJSON postcss@1.0.0 No repository field.
C:\wamp\www\postcss>
```

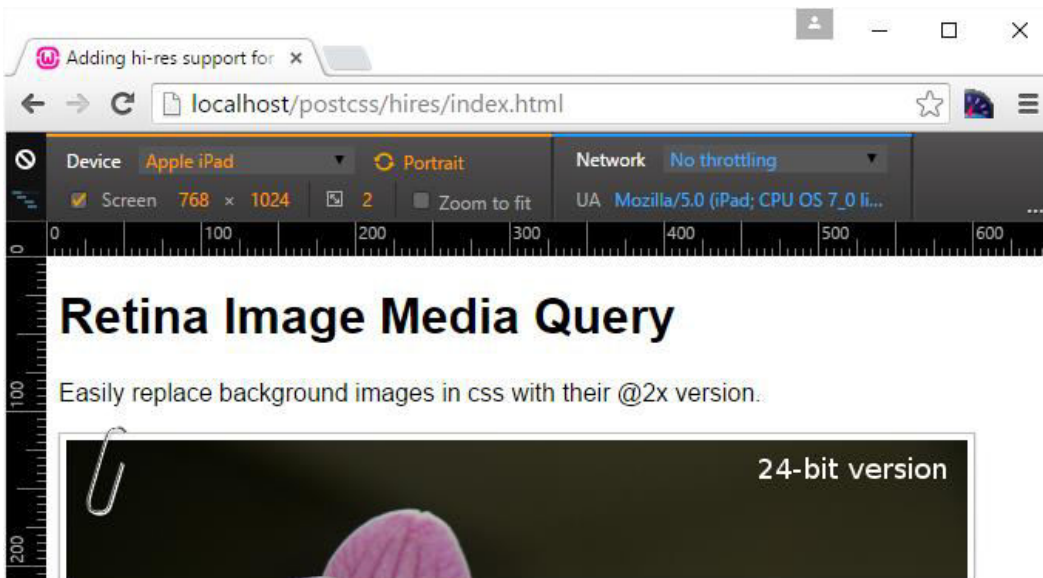
```
16 #retina img {
17     max-width: 100%;
18     height: auto;
19     display: block;
20 }
21
22 #retina img {
23     padding: 4px;
24     border: solid 1px #bbb;
25     background: #fff;
26     box-shadow: 0 1px 2px rgba(0,0,0,.2);
27 }
```



Making Images Responsive

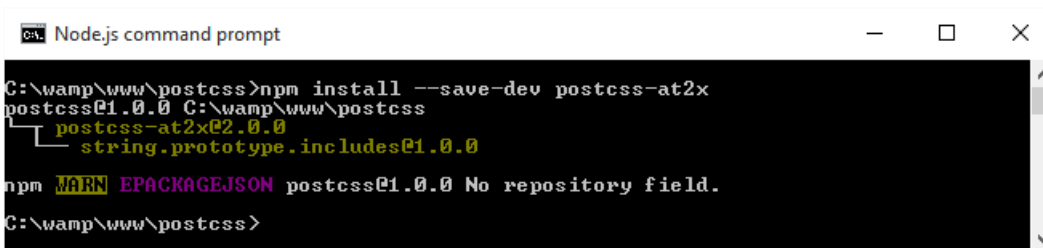
Automatically resize background images when the page is resized



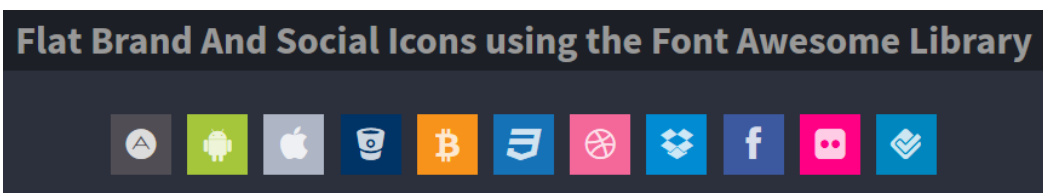


```
@media (-webkit-min-device-pixel-ratio: style.css:47
2), (min-resolution: 192dpi)
#retina img { style.css:48
  content: url("../img/mothorchid@2x.png");
}

#retina img { style.css:29
  padding: 4px;
  border: solid 1px #bbb;
  background: #fff;
  box-shadow: 0 1px 2px rgba(0,0,0,.2);
  content: url("../img/mothorchid.png");
}
```

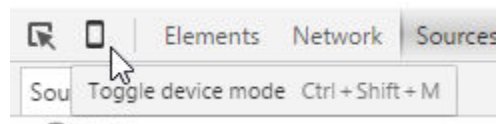


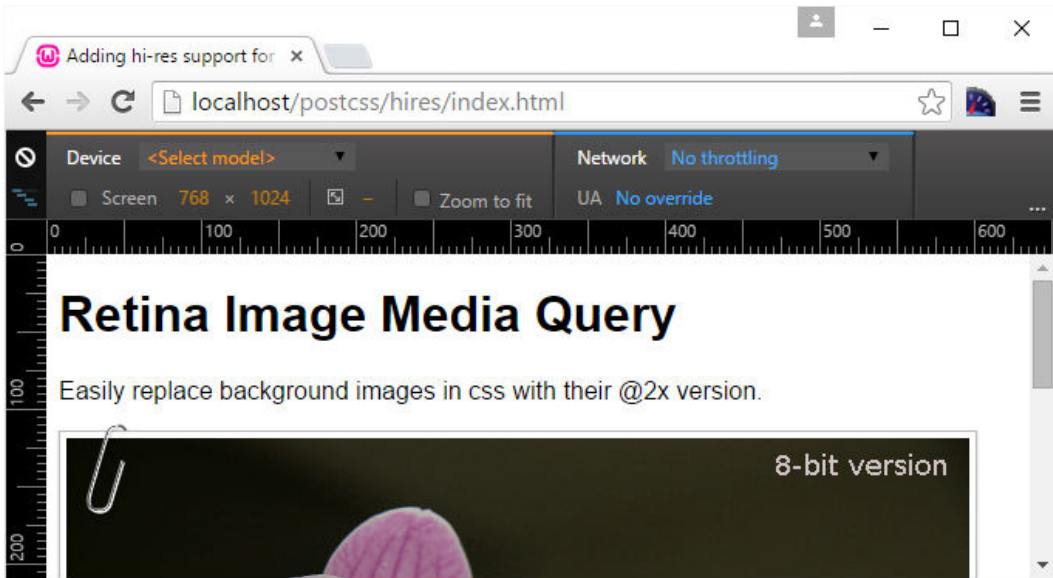
```
ca. Node.js command prompt
C:\wamp\www\postcss>npm install --save-dev postcss-responsive-type
postcss@1.0.0 C:\wamp\www\postcss
├─ postcss-responsive-type@0.3.1
npm WARN EPACKAGEJSON postcss@1.0.0 No repository field.
C:\wamp\www\postcss>
```




```
70 ▾ /* Change the font size of the title */
71 ▾ @media screen and (width >= 500px) and (width <= 1200px) {
72 ▾   h1 {
73     font-size: 1.4em;
74   }
75
76 ▾   .fa {
77     font-size: 1.25em;
78   }
79 }
```

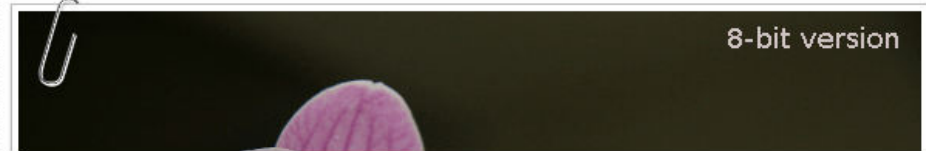
```
68 ▾ /* Change the font size of the title */
69 ▾ @media screen and (min-width: 500px) and (max-width:
    1200px) {
```

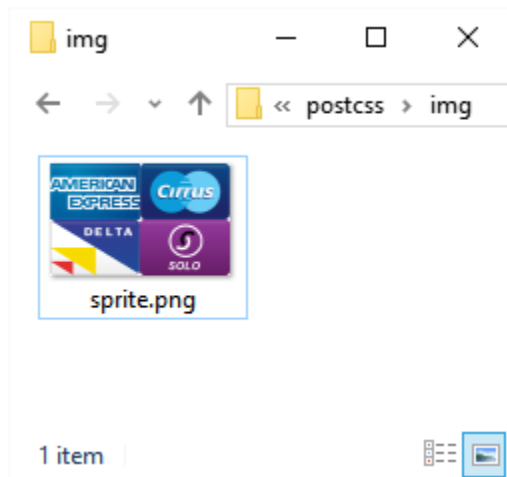




Retina Image Media Query

Easily replace background images in css with their @2x version.





```
1  .icon {  
2    display: inline-block;  
3    padding: 3rem;  
4  }  
5  
6  .icon--ei-sc-linkedin {  
7    fill: green;  
8  }  
9  
10 .icon--ei-sc-github {  
11   fill: orange;  
12 }
```

```

1.6-1.1 2.6-1.7 3.1V31c0 .9 1.8 1.6 3.4 2.2 1.9.7 3.9 1.5 4.6 3.11-1.9.7c-.3-.8-1.9-1.4-3.4-1.9-2.2-.8-4.7-1.7-4.7-4v-2
.6-.3.6-1.1 0-.2-.2-.5-.3-.6l-.4-.4.2-.5s.5-1.6.5-3.6c0-1.9-1.1-3.3-2-3.3h-.6l-.3-.5c0-.4-.7-.8-1.9-.8-3.1 0-5 1.7-5 4.
0-.3.3-.3.7 0 .5.6 1.1.9 1.3l.4.3v.5c0 1.5 1.3 2.3 1.3 2.4l.5.3v2.6c0 2.4-2.6 3.6-5 4.6-1.1.4-2.6 1.1-2.8 1.6z"></path>
11 <div class="icon icon--ei-sc-linkedin"><svg class="icon_cnt"><use xlink:href="#ei-sc-linkedin-icon" /></svg></div>
12 <div class="icon icon--ei-sc-github"><svg class="icon_cnt"><use xlink:href="#ei-sc-github-icon" /></svg></div>
13 <div class="icon icon--ei-sc-twitter"><svg class="icon_cnt"><use xlink:href="#ei-sc-twitter-icon" /></svg></div>
14 <div class="icon icon--ei-sc-youtube"><svg class="icon_cnt"><use xlink:href="#ei-sc-youtube-icon" /></svg></div>
15 </body>
16 </html>

```

```

Node.js command prompt
C:\wamp\www\postcss>cwebp -q 100 landscape.jpg -o landscape.webp
Saving file 'landscape.webp'
File: landscape.jpg
Dimension: 4000 x 4949
Output: 7505870 bytes Y-U-V-All-PSNR 51.57 54.71 55.33 52.44 dB
block count: intra4: 166305
              intra16: 66195 (-> 28.47%)
              skipped block: 0 (0.00%)
bytes used: header: 1550 (0.0%)
              mode-partition: 121600 (1.6%)
Residuals bytes |segment 1|segment 2|segment 3|segment 4| total
macroblocks: | 33% | 0% | 0% | 0% | 232500
quantizer: | 0 | 0 | 0 | 0 |
filter level: | 0 | 0 | 0 | 0 |
C:\wamp\www\postcss>

```

```

Node.js command prompt
F:\Books\B05194 - Mastering PostCSS WebDesign\Chapters\Chapter 5\Code\Tutorial -
WebP images>cwebp -q 100 landscape.png -o landscape.webp
Saving file 'landscape.webp'
File: landscape.png
Dimension: 4000 x 4949
Output: 7496788 bytes Y-U-V-All-PSNR 51.56 54.71 55.33 52.44 dB
block count: intra4: 165954
              intra16: 66546 (-> 28.62%)
              skipped block: 0 (0.00%)
bytes used: header: 1557 (0.0%)
              mode-partition: 119071 (1.6%)
Residuals bytes |segment 1|segment 2|segment 3|segment 4| total
macroblocks: | 33% | 0% | 0% | 0% | 232500
quantizer: | 0 | 0 | 0 | 0 |
filter level: | 0 | 0 | 0 | 0 |
F:\Books\B05194 - Mastering PostCSS WebDesign\Chapters\Chapter 5\Code\Tutorial -
WebP images>

```

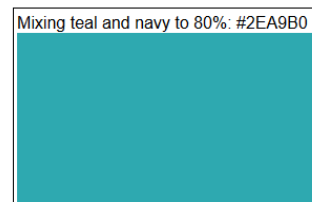
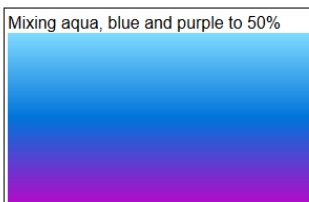
Switching in WebP images

Automatically switch in WebP images when supported by the browser



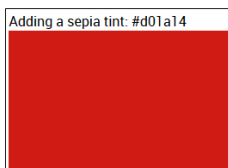
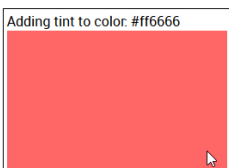
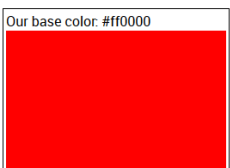
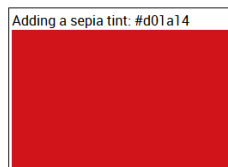
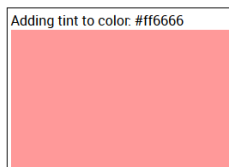
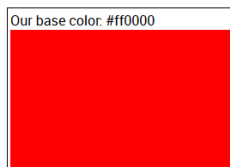
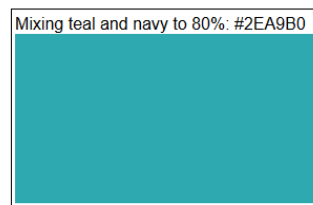
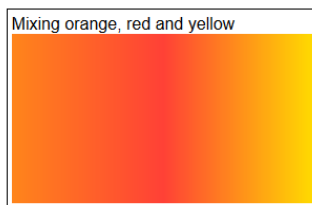
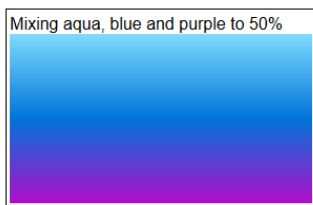
```
50 .js.webp #retina a:before { background: url(../img/paper-clip.webp) no-repeat;
51
52 .js.webp .landscape { background-image: url(../img/landscape.webp); }
```

```
.js.webp .landscape { style.css:52
  background-image: url(../img/landscape.webp);
}
.landscape { style.css:46
  background-image: url('../img/landscape.jpg');
}
```



```
ca. Node.js command prompt
C:\wamp\www\postcss>npm install postcss-color-palette --save-dev
postcss@1.0.0 C:\wamp\www\postcss
├─┬ postcss-color-palette@0.0.3
│   └─ postcss-message-helpers@1.1.1
│       └─ webcolors@1.2.2
npm WARN EPACKAGEJSON postcss@1.0.0 No repository field.
C:\wamp\www\postcss>
```

```
ca. Node.js command prompt
C:\wamp\www\postcss>npm install postcss-color-mix --save-dev
postcss@1.0.0 C:\wamp\www\postcss
├── postcss-color-function@2.0.0
│   ├── postcss-message-helpers@2.0.0
│   ├── postcss-color-mix@1.1.0
│   ├── color@0.9.0
│   ├── color-string@0.3.0
│   └── postcss-message-helpers@2.0.0
└── postcss@1.0.0 No repository field.
C:\wamp\www\postcss>
```



Applying Instagram Effects

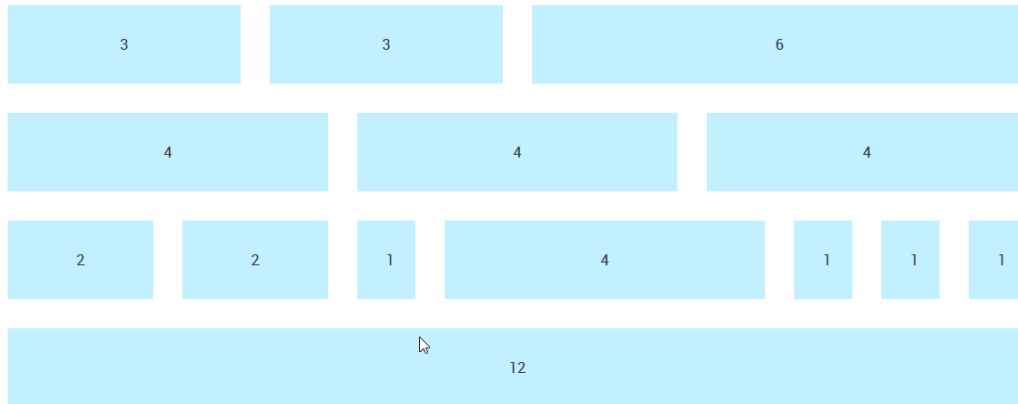
Using the postcss-instagram plugin to apply Instagram effects



```
37 .seventies_img_div {  
38   filter: 1977;  
39 }
```

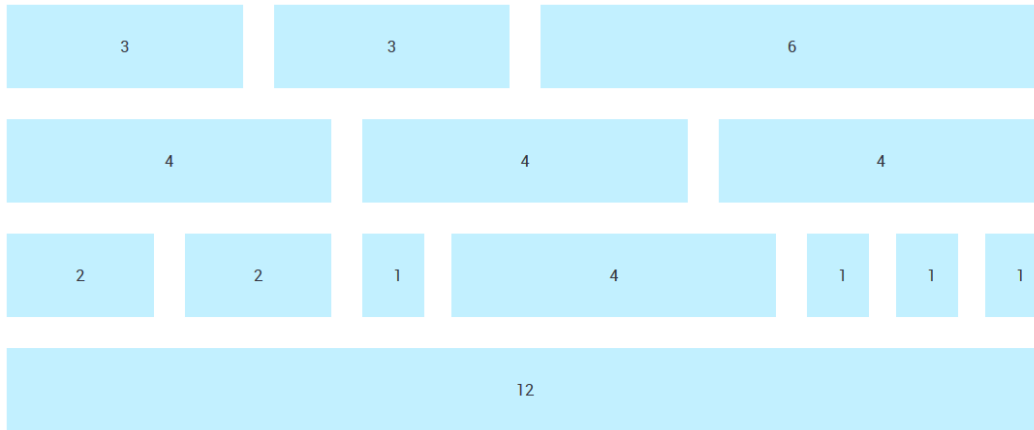
```
37 .seventies_img_div:after {
38   box-shadow: inset 0 0 3em #222;
39   position: absolute;
40   top: 0;
41   right: 0;
42   bottom: 2px;
43   left: 0;
44   z-index: 1;
45   content: '';
46 }
47
48 .seventies_img_div img {
49   -webkit-filter: sepia(0.5) hue-rotate(-35deg) saturate(1.6) contrast(0.9);
50   filter: url('data:image/svg+xml;charset=utf-8,<svg xmlns="http://www.w3.org/
51   -webkit-filter: sepia(0.5) hue-rotate(-35deg) saturate(1.6) contrast(0.9);
52   filter: sepia(0.5) hue-rotate(-35deg) saturate(1.6) contrast(0.9);
53 }
54
55 .seventies_img_div {
56   position: relative;
57   display: inline-block;
58 }
```

Chapter 6: Creating Grids



```
32 @media #{$breakpoint-medium} {  
33   .wrapper {  
34     width: 95%;  
35     max-width: $grid-max-width;  
36   }  
37   @for $i from 1 through $grid-columns {  
38     .column-#{$i} {  
39       width: 100% / $grid-columns * $i;  
40     }  
41   }  
42 }  
43
```

```
53 @media only screen and (min-width: 30rem) {  
54   .wrapper { width: 95%; max-width: 72rem; }  
55  
56   .col-1 { width: 8.33333%; }  
57  
58   .col-2 { width: 16.66667%; }  
59  
60   .col-3 { width: 25%; }
```



```
1 'use strict';
2
3 var gulp = require('gulp');
4 var sass = require('gulp-sass');
5
6 gulp.task('sass', function () {
7   gulp.src('src/*.scss')
8     .pipe(sass.sync().on('error', sass.logError))
9     .pipe(gulp.dest('dest/'));
10 });
11
12 gulp.task('default', ['sass']);
13
14 var watcher = gulp.watch('src/*.scss', ['sass']);
15 watcher.on('change', function(event) {
16   console.log('File ' + event.path + ' was ' + event.type + ', running tasks...');
17 });
```

```
ca. Node.js command prompt
C:\wamp\www\postcss>npm install node-bourbon --save-dev
npm WARN install Couldn't install optional dependency: Unsupported
postcss@1.0.0 C:\wamp\www\postcss
├── node-bourbon@4.2.3
└── bourbon@4.2.3

npm WARN EPACKAGEJSON postcss@1.0.0 No repository field.
C:\wamp\www\postcss>npm install node-neat --save-dev
npm WARN install Couldn't install optional dependency: Unsupported
postcss@1.0.0 C:\wamp\www\postcss
├── node-neat@1.7.2
└── bourbon-neat@1.7.2

npm WARN EPACKAGEJSON postcss@1.0.0 No repository field.
C:\wamp\www\postcss>
```





Dominant Color



`colorThief.getColor(image):266ms`

Palette



`colorThief.getPalette(image):743ms`

```
32 section {  
33   @include outer-container(72%);  
34   text-align: center;  
35   margin-bottom: 3rem;
```

```

62 #alpha {
63     @include span-columns(3);
64     margin-left: 1.5%;
65     background: linear-gradient(to bottom, rgba(
66 }
67
68 #beta {
69     @include span-columns(8.5);
70     h2 {
71         border-bottom: 1px solid $textdarkorange;
72         display: block;
73         margin-bottom: 0.5rem;
74     }
75 }

```

```

#alpha {
  float: left;
  display: block;
  margin-right: 2.35765%;
  width: 23.2318%;
  margin-left: 1.5%;
  background: transparent linear-gradient(to bottom, #E2CC8C 25%,
  #E2CD8D 25%, rgba(246, 245, 194, 0.63) 100%) repeat scroll 0% 0%;
}

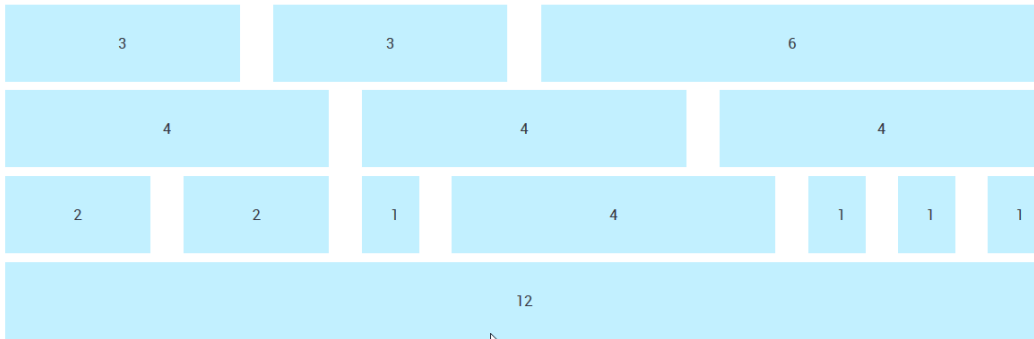
```

```

Node.js command prompt
C:\wamp\www\postcss>npm install postcss-neat --save-dev
npm WARN install Couldn't install optional dependency: Unsupported
postcss@1.0.0 C:\wamp\www\postcss
├── autoprefixer@6.1.1
├── postcss@5.0.12
├── postcss-neat@2.4.2
└── postcss@5.0.12
npm WARN EPACKAGEJSON postcss@1.0.0 No repository field.
C:\wamp\www\postcss>

```

```
70 .col-1 { display: block; float: left; margin-right: 2.35765160%; width: 6.17215270%; }
71
72 .col-1:last-child {
73   margin-right: 0;
74 }
75 .col-2 { display: block; float: left; margin-right: 2.35765160%; width: 14.70195700%; }
76 .col-2:last-child {
77   margin-right: 0;
78 }
```





- Home
- About
- Portfolio
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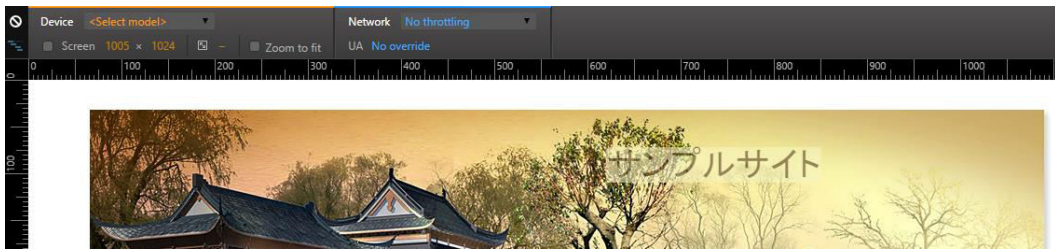
Lorem ipsum dolor sit amet

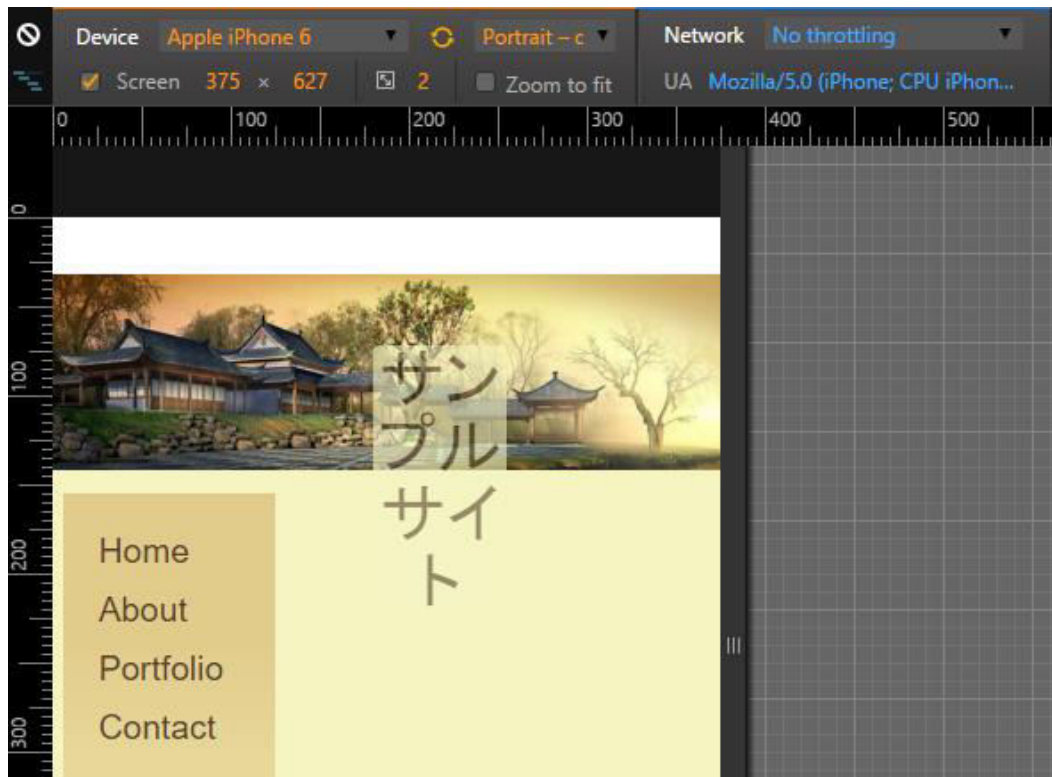
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nullam commodo leo eget orci commodo cursus. Mauris consequat, felis vel aliquet posuere, velit quam malesuada ipsum, a eleifend erat tellus ac est. Maecenas mi libero, eleifend at lorem quis, volutpat convallis elit. Curabitur quis posuere nunc. Vestibulum eu dapibus nisi, id volutpat lorem. Cras tincidunt leo quis urna mollis, sed fringilla justo viverra.

Mauris tempus vitae urna in commodo. Etiam vulputate tortor dui, nec placerat lacus ornare sed. Nulla faucibus vel est et sodales. Vestibulum eget interdum lorem. Praesent ut augue a ex varius volutpat. In et diam vitae purus scelerisque sodales. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nulla sodales justo nunc. Donec porta, mi eu faucibus sodales, lectus ante fringilla tellus, non dignissim nisl quam et erat. Ut et dolor vel lacus dignissim elementum at vitae nulla.

© Example.com 2015

```
16 gulp.task('styles', function () {
17   return gulp.src('src/*.css')
18     .pipe(postcss([ nested(), cssvariables(), neat({neatMaxWidth: '64rem'}) ]))
19     .pipe(gulp.dest('dest/'));
20 });
```



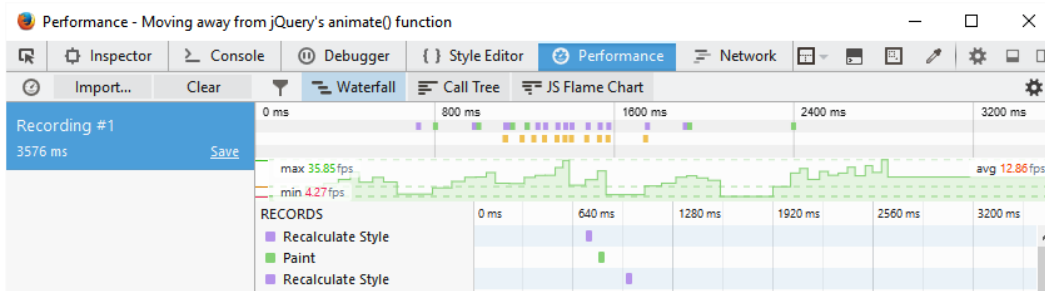


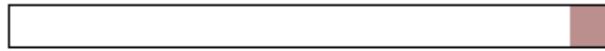


Chapter 7: Animating Elements



Run!





Run!

Performance - Moving away from jQuery's animate() function

Recording #1
3049 ms

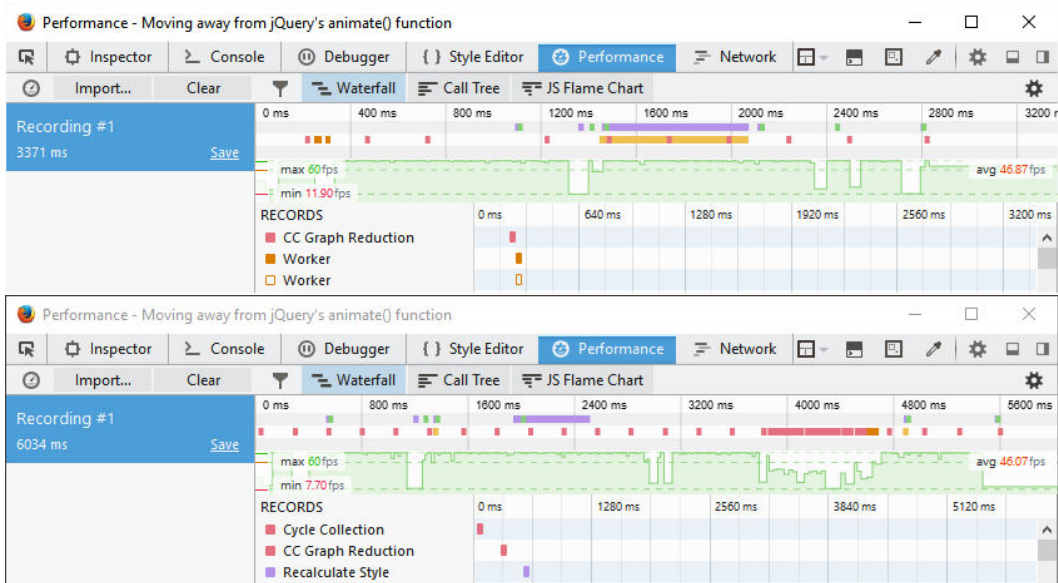
max 60fps
min 10.99fps
avg 44.28fps

RECORDS
CC Graph Reduction
CC Graph Reduction
CC Graph Reduction

```
<!DOCTYPE html>  
<html>  
  <head></head>  
  <body>  
    <div class="rectangle">  
      <div id="square-small"  
        style="transition: transform  
          600ms ease 0s; transform:  
          translate(280px, 0px);"  
      ></div>  
    </div>
```

Filter Styles

```
element {  
  transition: transform 600ms ease 0s;  
  transform: translate(280px, 0px);  
}  
#square-small {  
  display: block;  
  width: 1.25rem;  
  height: 1.25rem;  
  position: absolute;
```

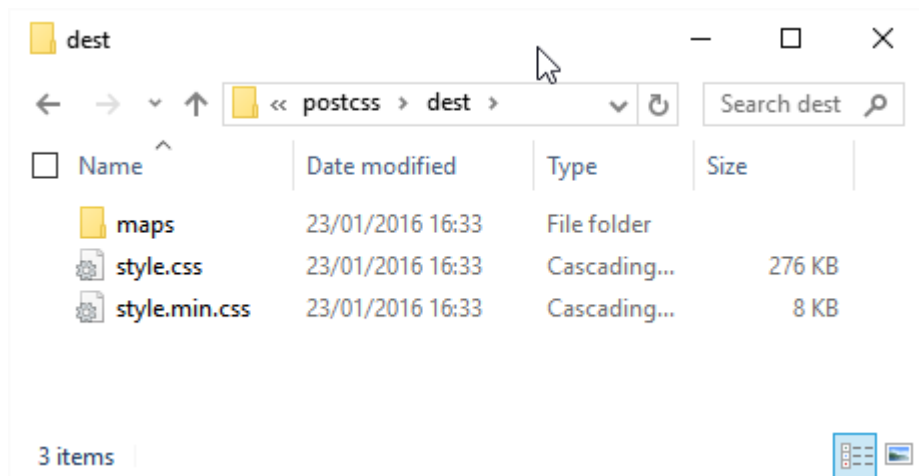
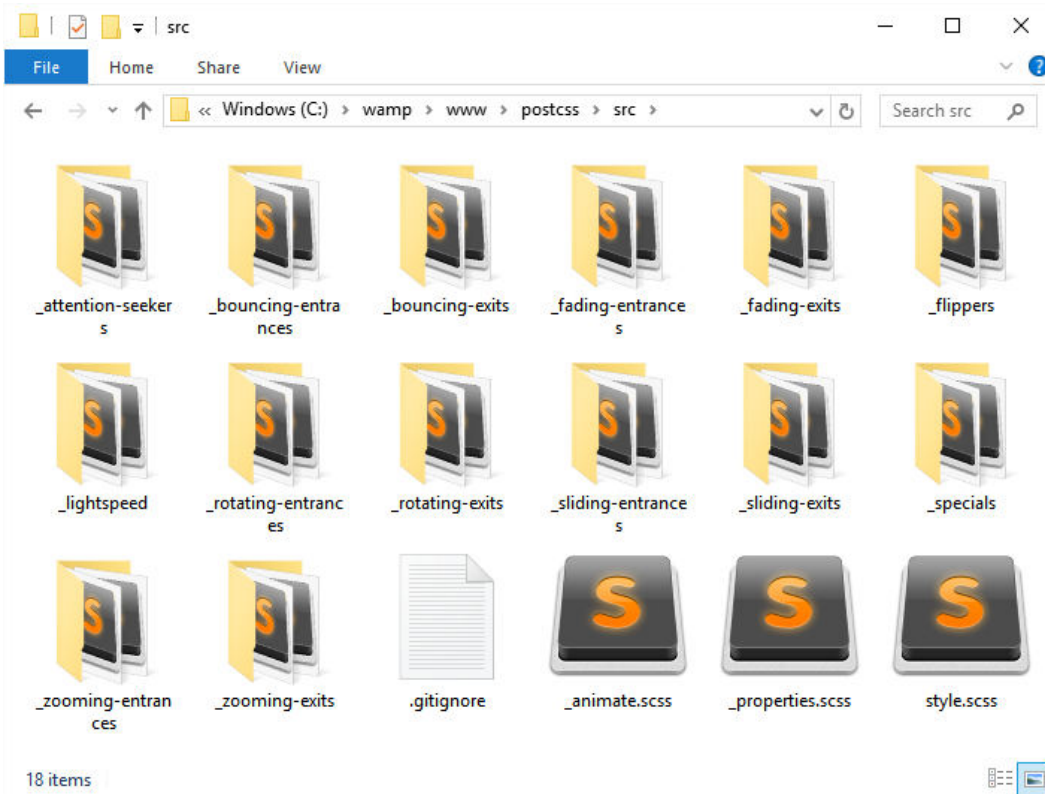


```

element {
  transition: transform 600ms ease 0s;
  transform: translate(280px, 0px);
}

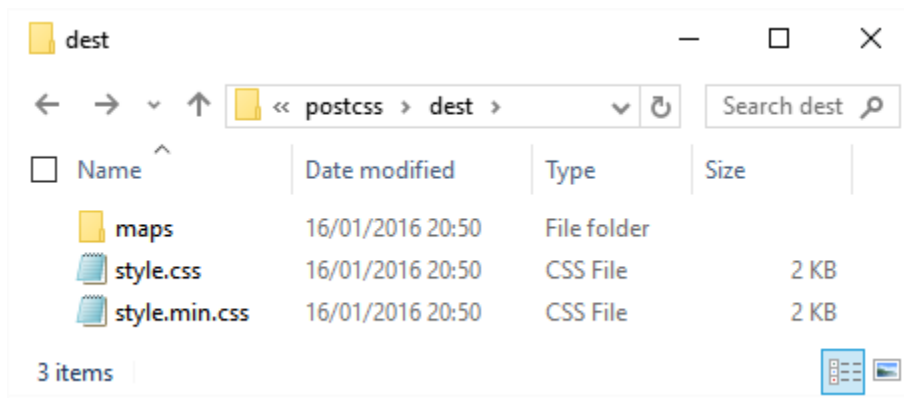
```





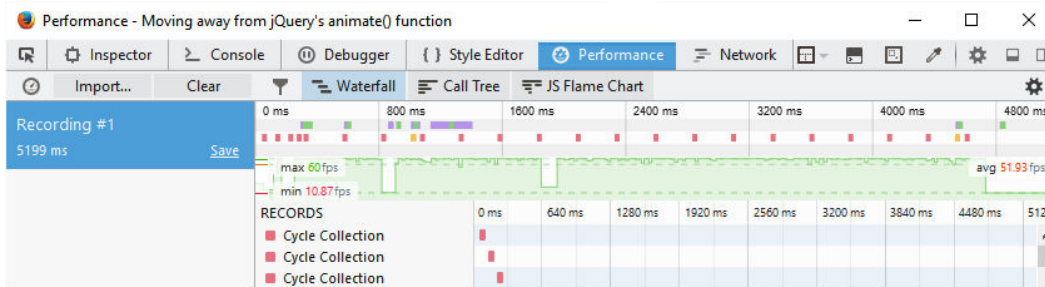
```
Nodejs command prompt
C:\wamp\www\postcss>npm install --save-dev postcss-animation
postcss@1.0.0 C:\wamp\www\postcss
├── cwebp@1.1.0
├── postcss-animation@0.0.6
└── postcss-animation-data@0.0.3

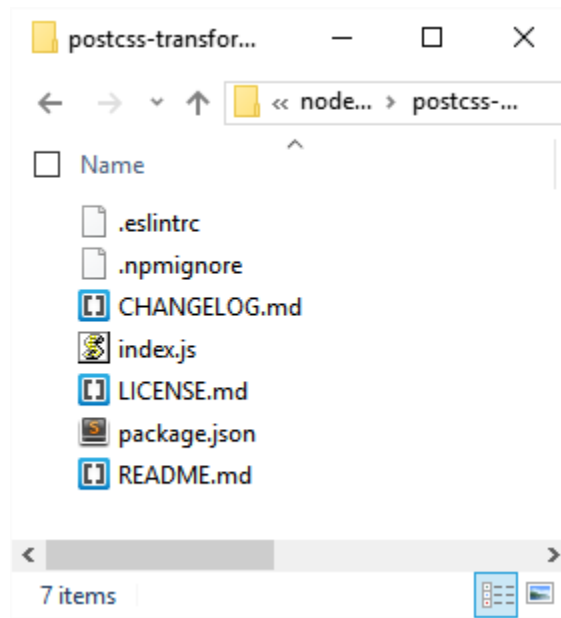
npm WARN optional Skipping failed optional dependency /chokidar/fsevents:
npm WARN notsup Not compatible with your operating system or architecture: fsevents@1.0.6
npm WARN enoent ENOENT: no such file or directory, open 'C:\wamp\www\postcss\node_modules\cls\package.json'
npm WARN enoent ENOENT: no such file or directory, open 'C:\wamp\www\postcss\node_modules\node\package.json'
npm WARN postcss@1.0.0 No repository field.
C:\wamp\www\postcss>
```



```
37 .move {
38   animation-name: bounce;
39   transform: translate(17.5rem, 0rem);
40   transition-duration: 3.5s;
41 }
42
43 @keyframes bounce {
44   from, 20%, 53%, 80%, to {
45     animation-timing-function: cubic-bezier(0.215, 0.610, 0.355, 1.000);
46     transform: translate3d(0,0,0);
47   }
48
49   40%, 43% {
50     animation-timing-function: cubic-bezier(0.755, 0.050, 0.855, 0.060);
51     transform: translate3d(0, -30px, 0);
52   }
53
54   70% {
55     animation-timing-function: cubic-bezier(0.755, 0.050, 0.855, 0.060);
56     transform: translate3d(0, -15px, 0);
57   }
58
59   90% {
60     transform: translate3d(0,-4px,0);
61   }
62 }
63
64 /*# sourceMappingURL=maps/style.css.map */
```

```
37 .move {
38   animation-name: bounce;
39   transform: translate(17.5rem, 0rem);
40   transition-duration: 3.5s;
41 }
42
43 @keyframes bounce {
44
45   from, 20%, 53%, 80%, to {
46     animation-timing-function: cubic-bezier(0.215, 0.610, 0.355, 1.000);
47     transform: translate3d(0,0,0);
48   }
49
50   40%, 43% {
51     animation-timing-function: cubic-bezier(0.755, 0.050, 0.855, 0.060);
52     transform: translate3d(0, -30px, 0);
53   }
54
55   70% {
56     animation-timing-function: cubic-bezier(0.755, 0.050, 0.855, 0.060);
57     transform: translate3d(0, -15px, 0);
58   }
59
60   90% {
61     transform: translate3d(0,-4px,0);
62   }
63 }
64 /*# sourceMappingURL=maps/style.css.map */
```





Click each input to watch the label slide up and out of the way:

Credit Card

1845.00

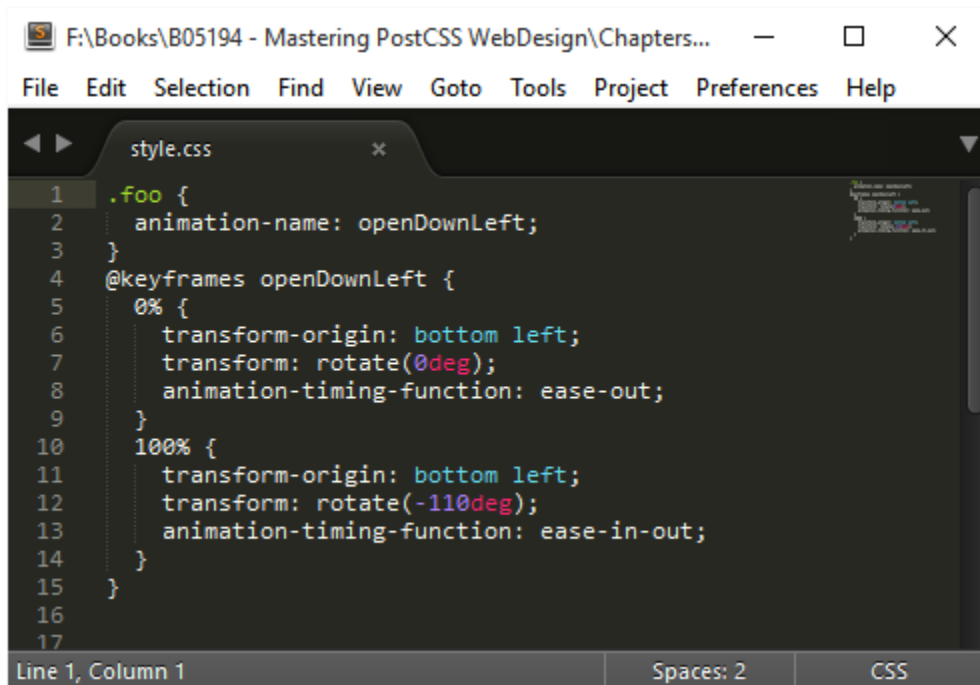
Expires

Month, Day, Year

Security Code

Public

```
76 .slide-up + label {
77     display: inline-block;
78     position: absolute;
79     transform: translateX(0);
80     top: 0;
81     left: -2px;
82     padding: 10px 15px;
83     text-shadow: 0 1px 0 rgba(19, 74, 70, 0.4);
84     transition: all .3s ease-in-out;
85     border-top-left-radius: 3px;
86     border-bottom-left-radius: 3px;
87     overflow: hidden;
88 }
```



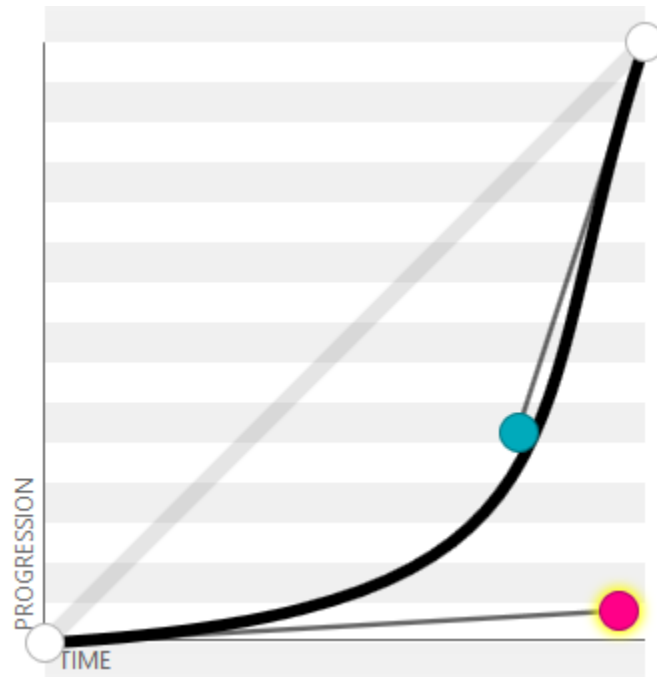
The image shows a code editor window with the following content:

```
F:\Books\B05194 - Mastering PostCSS WebDesign\Chapters...
File Edit Selection Find View Goto Tools Project Preferences Help

style.css
1 .foo {
2     animation-name: openDownLeft;
3 }
4 @keyframes openDownLeft {
5     0% {
6         transform-origin: bottom left;
7         transform: rotate(0deg);
8         animation-timing-function: ease-out;
9     }
10    100% {
11        transform-origin: bottom left;
12        transform: rotate(-110deg);
13        animation-timing-function: ease-in-out;
14    }
15 }
16
17
```

Line 1, Column 1 Spaces: 2 CSS

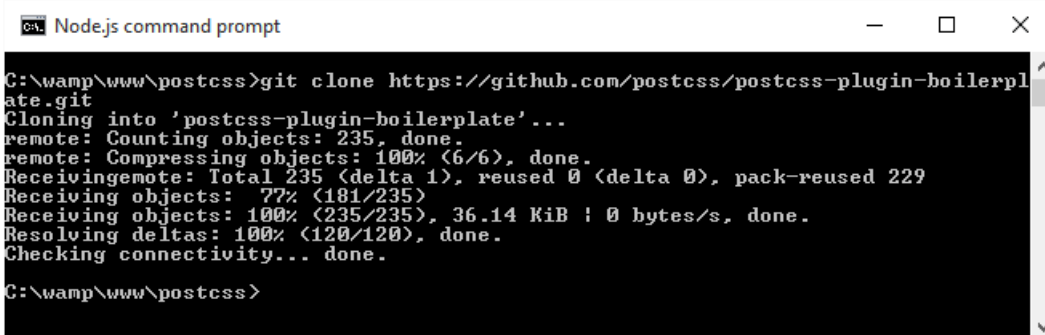
```
1 | module.exports = {  
2 |   "openDownLeft": "@keyframes openDownLeft { 0% {transform-origin: bottom left; transform: rotate(0deg);  
3 |     "openDownRight": "@-webkit-keyframes openDownRight { 0% {transform-origin: bottom right; transform: rot  
4 | }
```



Chapter 8: Creating PostCSS Plugins



```
1 var postcss = require('postcss');
2
3 module.exports = postcss.plugin('PLUGIN_NAME', function (opts) {
4   opts = opts || {};
5
6   // Work with options here
7
8   return function (css, result) {
9
10    // Transform CSS AST here
11
12   };
13 });
```



```
C:\wamp\www\postcss>git clone https://github.com/postcss/postcss-plugin-boilerplate.git
Cloning into 'postcss-plugin-boilerplate'...
remote: Counting objects: 235, done.
remote: Compressing objects: 100% (6/6), done.
Receiving remote: Total 235 (delta 1), reused 0 (delta 0), pack-reused 229
Receiving objects: 77% (181/235)
Receiving objects: 100% (235/235), 36.14 KiB | 0 bytes/s, done.
Resolving deltas: 100% (120/120), done.
Checking connectivity... done.

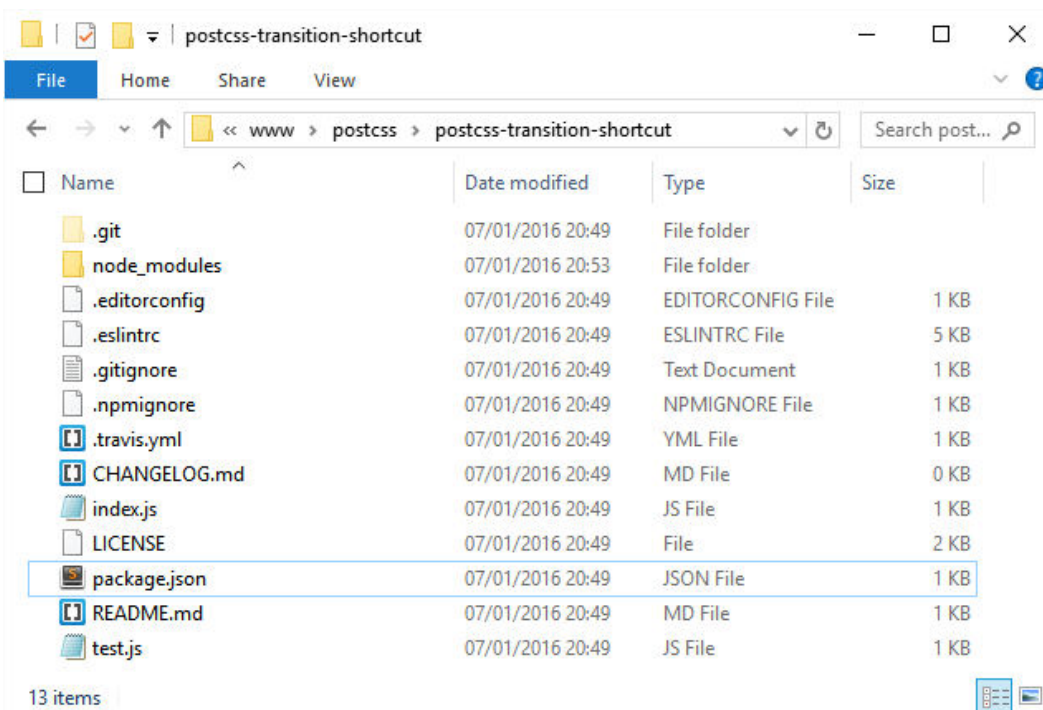
C:\wamp\www\postcss>
```

```
Node.js command prompt
C:\wamp\www\postcss>node ./postcss-plugin-boilerplate/start
Your name: alexlibby
Your email: alex.libby@not42.net
GitHub username: AlexLibby
Plugin name: postcss-transition-shortcut

Finish sentence with plugin description:
PostCSS plugin to allow use of shorthand properties in CSS transitions

Finish plugin keywords:
postcss, css, postcss-plugin, transitions

Installing npm packages...
Done. Remove this dir and continue work in ../postcss-transition-shortcut/
C:\wamp\www\postcss>
```



```
Node.js command prompt
C:\wamp\www\postcss\postcss-transition-shortcut>npm test
> postcss-transition-shortcut@0.0.0 test C:\wamp\www\postcss\postcss-transition-shortcut
> ava && eslint *.js

1 passed
```

```
C:\wamp\www\postcss\postcss-transition-shortcut\test.js
1:31 error Expected linebreaks to be 'LF' but found 'CRLF' linebreak-style
2:24 error Expected linebreaks to be 'LF' but found 'CRLF' linebreak-style
3:1 error Expected linebreaks to be 'LF' but found 'CRLF' linebreak-style
4:25 error Expected linebreaks to be 'LF' but found 'CRLF' linebreak-style
5:1 error Expected linebreaks to be 'LF' but found 'CRLF' linebreak-style
```

```
C:\wamp\www\postcss\postcss-transition-shortcut\index.js
6:9 error "defaults" is defined but never used
no-unused-vars
9:17 error Missing space before value for key "timing"
key-spacing
10:16 error Missing space before value for key "delay"
key-spacing
13:27 error "result" is defined but never used
no-unused-vars
21:20 error Expected a conditional expression and instead saw an assignment
no-cond-assign
23:1 error Line 23 exceeds the maximum line length of 80
max-len
31:10 error Expected indentation of 12 space characters but found 0
indent
31:60 error Trailing spaces not allowed
no-trailing-spaces
```

```
C:\wamp\www\postcss\postcss-transition-shortcut\test.js
7:3 error Expected indentation of 4 space characters but found 2 indent
9:7 error Expected indentation of 8 space characters but found 6 indent
10:7 error Expected indentation of 8 space characters but found 6 indent
11:3 error Expected indentation of 4 space characters but found 2 indent
14:31 error Trailing spaces not allowed no-trai
ling-spaces
15:1 error Line 15 exceeds the maximum line length of 80 max-len
15:3 error Expected indentation of 4 space characters but found 2 indent
15:141 error Trailing spaces not allowed no-trai
ling-spaces
? 16 problems (16 errors, 0 warnings)
npm ERR! Test failed. See above for more details.
C:\wamp\www\postcss\postcss-transition-shortcut>_
```

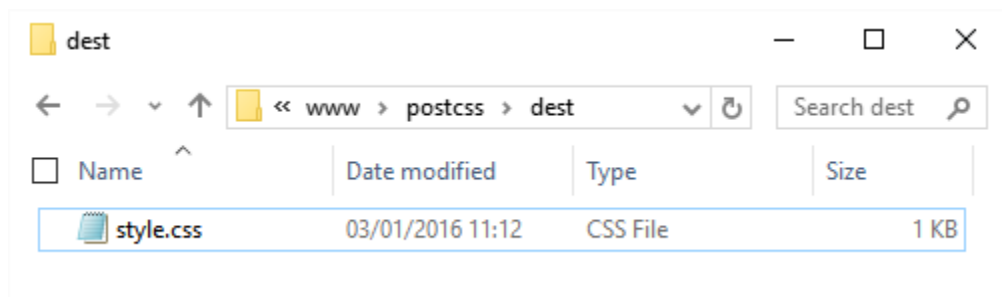
```
Node.js command prompt
C:\wamp\www\postcss\postcss-transition-shortcut>npm test
> postcss-transition-shortcut@0.0.0 test C:\wamp\www\postcss\postcss-transition-shortcut
> ava && eslint *.js

 1 passed

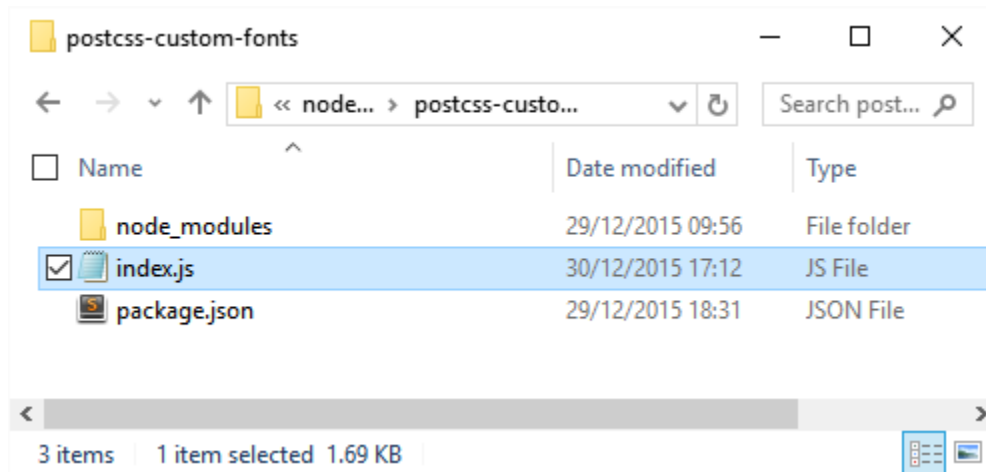
C:\wamp\www\postcss\postcss-transition-shortcut\index.js
14:20 error Expected a conditional expression and instead saw an assignment
no-cond-assign

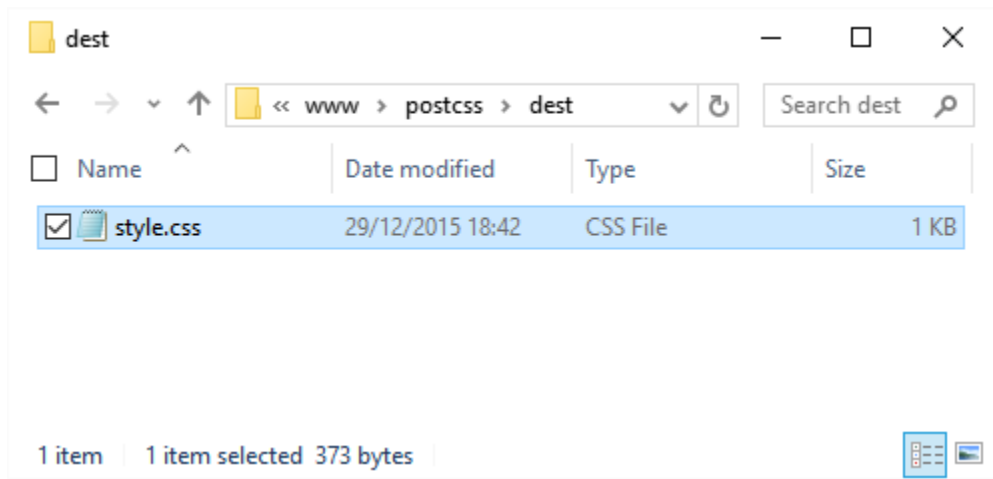
? 1 problem (1 error, 0 warnings)
npm ERR! Test failed. See above for more details.
C:\wamp\www\postcss\postcss-transition-shortcut>_
```

```
52     "space-unary-ops": [2],
53     "no-cond-assign": [0],
54     "no-func-assign": [2],
```

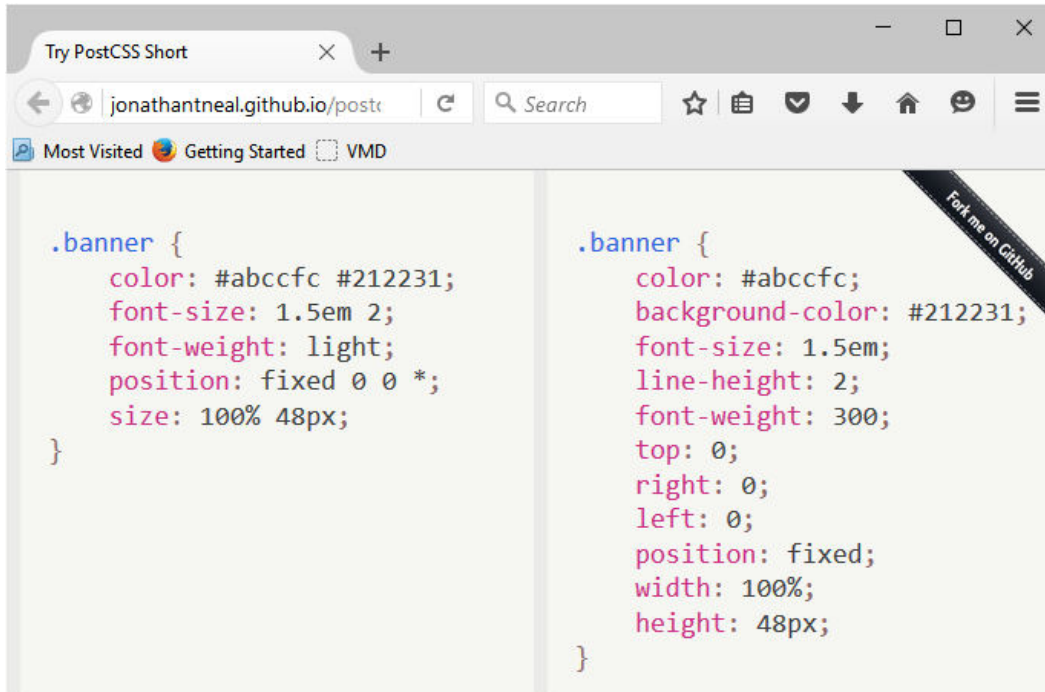


```
version: <1.0.0>
description: A PostCSS plugin to autocomplete font statements using font stacks
entry point: <index.js>
test command:
git repository: https://github.com/alexlibby/postcss-custom-fonts
keywords:
author: Alex Libby
license: <ISC>
About to write to C:\wamp\www\postcss\postcss-custom-fonts\package.json:
{
  "name": "postcss-custom-fonts",
  "version": "1.0.0",
  "description": "A PostCSS plugin to autocomplete font statements using font stacks",
  "main": "index.js",
  "scripts": {
    "test": "echo \\\"Error: no test specified\\\" && exit 1"
  },
  "repository": {
    "type": "git",
    "url": "https://github.com/alexlibby/postcss-custom-fonts"
  },
  "author": "Alex Libby",
  "license": "ISC"
}
```





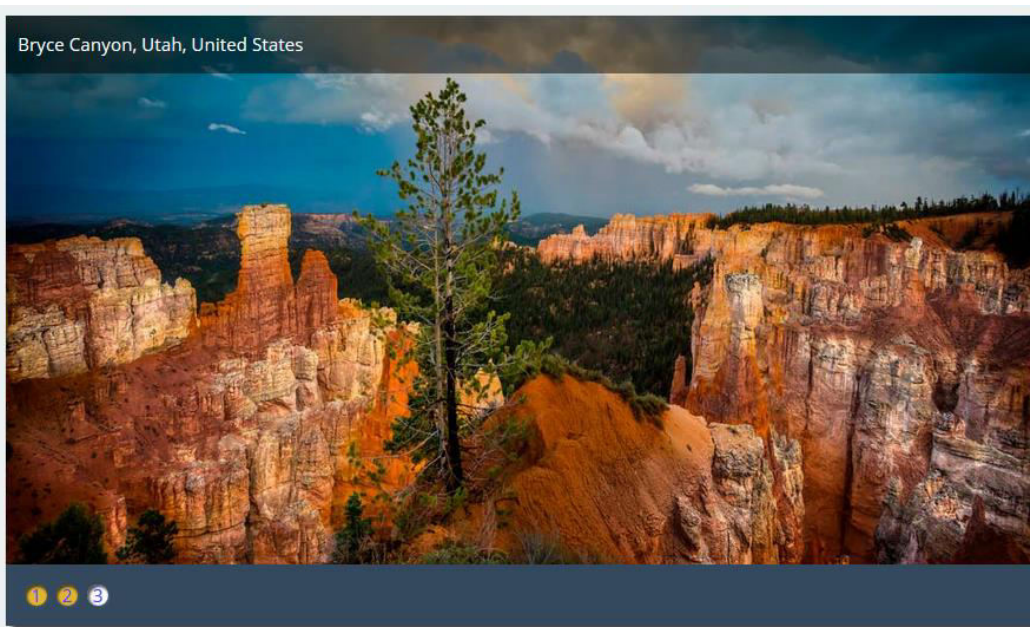
Chapter 9: Working with Shortcuts, Fallbacks, and Packs



The image shows a browser window with two columns of CSS code for a `.banner` class. The browser's address bar shows `jonathantneal.github.io/post`. The left column contains a CSS rule with a shorthand `size` property. The right column contains a similar rule but with explicit `background-color`, `line-height`, `font-weight`, `top`, `right`, `left`, `position`, `width`, and `height` properties. A 'Fork me on GitHub' banner is visible in the top right corner of the code area.

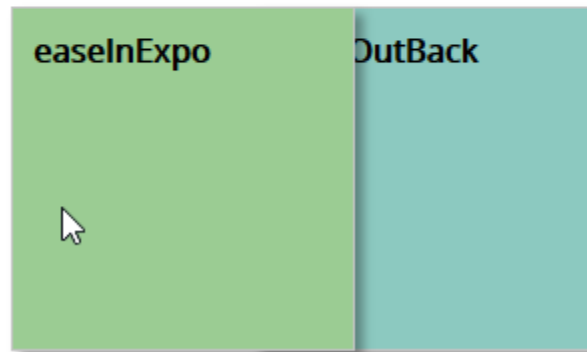
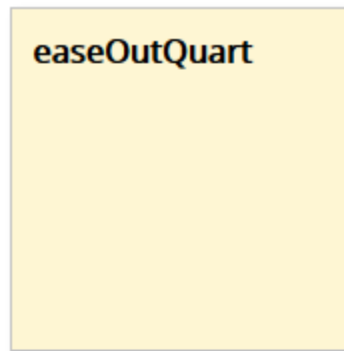
```
.banner {  
  color: #abccfc #212231;  
  font-size: 1.5em 2;  
  font-weight: light;  
  position: fixed 0 0 *;  
  size: 100% 48px;  
}
```

```
.banner {  
  color: #abccfc;  
  background-color: #212231;  
  font-size: 1.5em;  
  line-height: 2;  
  font-weight: 300;  
  top: 0;  
  right: 0;  
  left: 0;  
  position: fixed;  
  width: 100%;  
  height: 48px;  
}
```



```
gulp
C:\wamp\www\postcss>npm install rucksack-css --save-dev
postcss@1.0.0 C:\wamp\www\postcss
├── cwebp@1.1.0
├── gulp-rucksack@0.1.2
│   └── rucksack-css@0.8.5
├── postcss-transform-shortcut@1.0.0 extraneous
├── postcss-transition-shortcut@1.0.6 extraneous
└── rucksack-css@0.8.5
```





```
cmd: gulp
C:\wamp\www\postcss>gulp
[23:01:29] Using gulpfile C:\wamp\www\postcss\gulpfile.js
[23:01:29] Starting 'styles'...
[23:01:29] Finished 'styles' after 35 ms
[23:01:29] Starting 'lint-styles'...
[23:01:29] Finished 'lint-styles' after 6.14 ms
[23:01:29] Starting 'rename'...
[23:01:29] Finished 'rename' after 19 ms
[23:01:29] Starting 'sourcemap'...
[23:01:29] Finished 'sourcemap' after 12 ms
[23:01:29] Starting 'default'...
[23:01:29] Finished 'default' after 47 μs
```

```

28 .box1 {
29     background-color: rgba(106, 112, 89, 0.5);
30     transition: 2s cubic-bezier(0.47, 0, 0.745, 0.715);
31 }
32
33 .box1:hover {
34     transition: 2s cubic-bezier(0.47, 0, 0.745, 0.715);
35     transform: translate(5rem, 0);
36     background-color: rgba(106, 112, 89, 1);
37 }

```

```

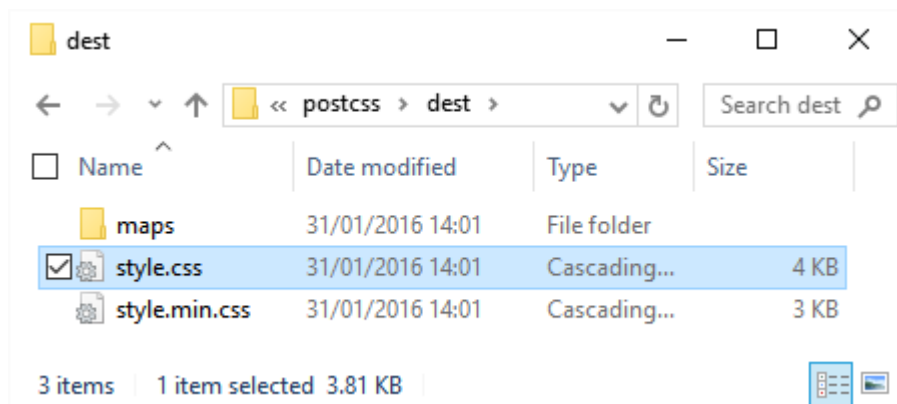
14 gulp.task('styles', function () {
15     return gulp.src('src/*.css')
16         .pipe(postcss([ rucksack({ easings: { easeAchieve: 'cubic-bezier(.57,.95,.03,.62)' } }) ]))
17         .pipe(gulp.dest('dest/'));
18 });

```

```

14 gulp.task('styles', function () {
15     return gulp.src('src/*.css')
16         .pipe(postcss([ rucksack({ fallbacks: true, autoprefixer: true }) ]))
17         .pipe(gulp.dest('dest/'));
18 });

```



Bryce Canyon, Utah, United States



1 2 3

```
1  'use strict';
2
3  var gulp = require('gulp');
4  var postcss = require('gulp-postcss');
5  //var autoprefixer = require('autoprefixer');
6  var cssnano = require('cssnano');
7  var sourcemaps = require('gulp-sourcemaps');
8  var rename = require('gulp-rename');
9  var stylelint = require('stylelint');
10 var reporter = require('postcss-reporter');
11 var rucksack = require('rucksack');
12
13
14 gulp.task('styles', function () {
15   return gulp.src('/src/*.css')
16     .pipe(postcss([ rucksack({ fallbacks: true, autoprefixer: true }) ]))
17     .pipe(gulp.dest('dest/'));
18 });
```

```

20  gulp.task("lint-styles", ['styles'], function() {
21      return gulp.src("dest/*.css")
22      .pipe(postcss([ stylelint({
23          "rules": {
24              "color-no-invalid-hex": 2,
25              "declaration-colon-space-before": [2, "never"],
26              "indentation": [2, 2],
27              "number-leading-zero": [2, "always"]
28          }
29      })),
30      reporter({
31          clearMessages: true,
32      })
33  ]))
34  });
35
36  gulp.task('rename', ['lint-styles'], function () {
37      return gulp.src('dest/*.css')
38      .pipe(postcss([ cssnano() ]))
39      .pipe(rename('style.min.css'))
40      .pipe(gulp.dest("dest/"));
41  });

```

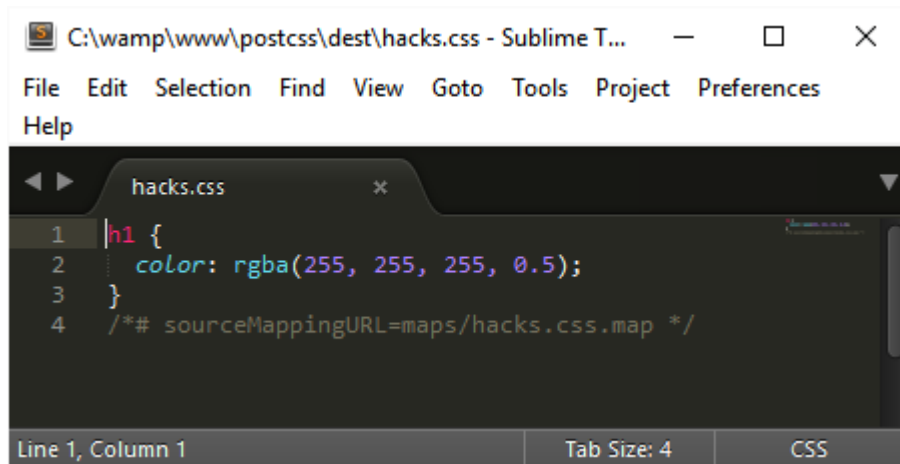
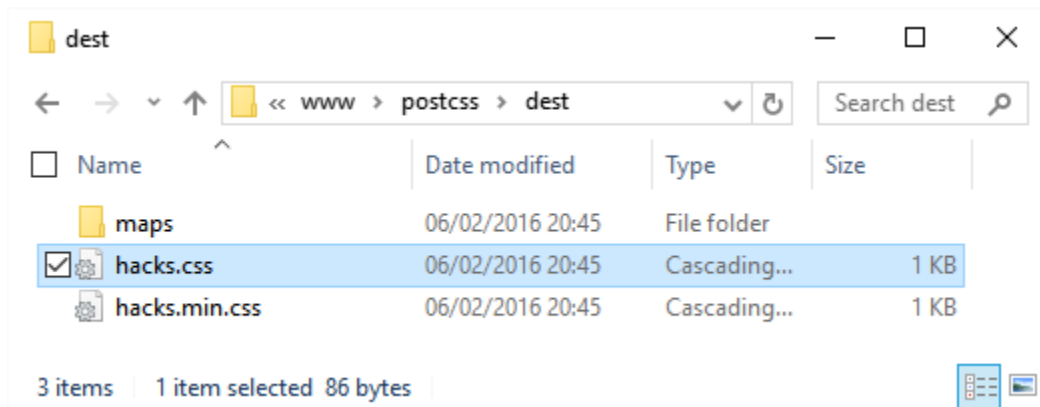
```

36  gulp.task('rename', ['lint-styles'], function () {
37      return gulp.src('dest/*.css')
38      .pipe(postcss([ cssnano() ]))
39      .pipe(rename('style.min.css'))
40      .pipe(gulp.dest("dest/"));
41  });

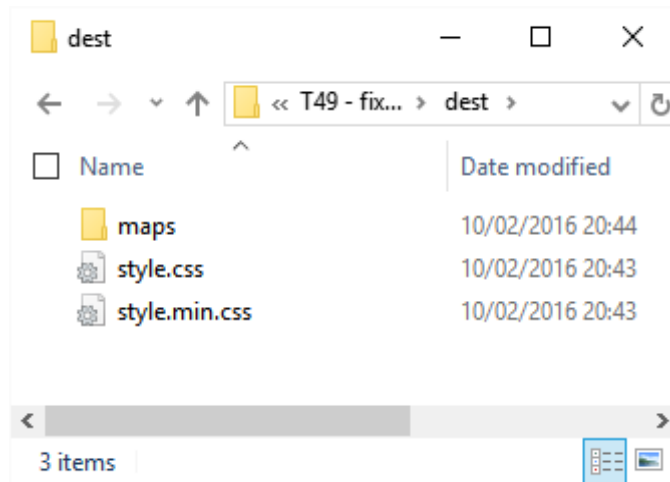
```

```
20 gulp.task("lint-styles", ['styles'], function() {
21     return gulp.src("dest/*.css")
22     .pipe(postcss([ stylelint({
23         "rules": {
24             "color-no-invalid-hex": 2,
25             "declaration-colon-space-before": [2, "never"],
26             "indentation": [2, 2],
27             "number-leading-zero": [2, "always"]
28         }
29     })),
30     reporter({
31         clearMessages: true,
32     })
33     ]))
34 });
```

```
4 var processors = [
5     {
6         plugin: require('postcss-calc'),
7         namespace: 'calc',
8         defaults: {}
9     },
10    {
11        plugin: require('postcss-unmq'),
12        namespace: 'media',
13        defaults: {}
14    },
15    {
16        plugin: require('postcss-unroot'),
17        namespace: 'root',
18        defaults: {}
19    },
```



Chapter 10: Building a Custom Processor



```
157  div.slide-content > figcaption {
158    position: absolute;
159    background: rgba(0, 0, 0, 0.5) none repeat scroll 0% 0%;
160    color: rgba(255, 255, 255, 1.0);
161    width: 100%;
162    font-size: 14px;
163    padding: 0.6rem;
164    z-index: 96;
165  }
166
167
168  /*# sourceMappingURL=https://www.mydomain.com/maps/style.css.map */
```

```
ca. Node.js command prompt
Your environment has been set up for using Node.js 4.2.6 (x64) and npm.
C:\Users\alex>cd \wamp\www\postcss
C:\wamp\www\postcss>npm install postcss-pseudo-elements-content --save-dev
npm WARN deprecated node@0.0.0: To update or install node, go to http://nodejs.org/
postcss@1.0.0 C:\wamp\www\postcss
+-- cwebp@1.1.0
+-- gulp-atcss@0.2.0
   |-- atcss@1.1.0
   |   |-- autoprefixer@5.2.0
   |   |   |-- autoprefixer-core@5.2.1
   |   |   |   |-- postcss@4.1.16
   |   |   |   |-- source-map@0.4.4
   |   |   |   +-- csswring@3.0.7
```



```
53   .underline a:hover::after, .underline a:focus::after {
54     opacity: 1;
55     -webkit-transform: translateY(0px);
56     -ms-transform: translateY(0px);
57     transform: translateY(0px);
58     content: '';
59   }
60   /*# sourceMappingURL=maps/style.css.map */
```

```
ca. gulp
c:\wamp\www\postcss>gulp
[16:38:37] Using gulpfile c:\wamp\www\postcss\gulpfile.js
[16:38:37] Starting 'images'...
[16:38:41] gulp-imagemin: Minified 12 images (saved 1.89 MB - 9.1%)
[16:38:41] Finished 'images' after 3.04 s
[16:38:41] Starting 'default'...
[16:38:41] Finished 'default' after 44 μs
```



```

60     .pipe(gulp.dest("dest/"));
61     .pipe(plugins.livereload());
62 });
63
64 gulp.task('default', ['styles', 'lint', 'rename', 'minifyCSS', 'sourcemap']);
65
66 var watcher = gulp.watch('src/*.css', ['default']);
67 watcher.on('change', function(event) {
68     plugins.livereload.listen();
69     console.log('File ' + event.path + ' was ' + event.type + ', running tasks...');
70 });

```

Terminal window titled "gulp" showing the following output:

```

C:\wamp\www\postcss>gulp
[23:42:10] Using gulpfile C:\wamp\www\postcss\gulpfile.js
[23:42:11] Starting 'styles'...
Container#eachRule is deprecated. Use Container#walkRules instead.
Container#eachDecl is deprecated. Use Container#walkDecls instead.
Container#eachAtRule is deprecated. Use Container#walkAtRules instead.
{ averages: { specificity: 11.428571428571429, ruleSize: 5.5 },
  size: 1413,
  gzipSize: 486,
  selectors:
    [ { selector: 'nav a',
        specificity: '0,0,0,2',
        parts: [Object],
        specificity_10: 2 },
      { selector: 'section',
        specificity: '0,0,0,1',
        parts: [Object],
        specificity_10: 1 },
      { selector: '.menu',

```

File Explorer window showing the contents of the 'dest' folder. The table below represents the data shown in the window:

Name	Date modified	Type	Size
maps	23/04/2016 23:00	File folder	
style.css	23/04/2016 23:00	Cascading...	2 KB
style.json	23/04/2016 23:00	JSON File	2 KB
style.min.css	23/04/2016 23:00	Cascading...	1 KB
style.min.json	23/04/2016 23:00	JSON File	2 KB

5 items

```
C:\wamp\www\postcss\dest\style.json - Sublime Text
File Edit Selection Find View Goto Tools Project Preferences Help

style.json x
1 {
2   "published": "2016-04-23T22:00:19.016Z",
3   "paths": [
4     "C:\\wamp\\www\\postcss\\dest\\style.css"
5   ],
6   "stylesheets": 1,
7   "styleElements": 0,
8   "size": 1377,
9   "dataUriSize": 0,
10  "ratioOfDataUriSize": 0,
11  "gzippedSize": 512,
12  "rules": 6,

```

Line 28, Column 30 Spaces: 2 JSON

Alex Libby

[HOME](#) [ABOUT](#) [PORTFOLIO](#) [CONTACT](#)



Main section

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna

Sub-section

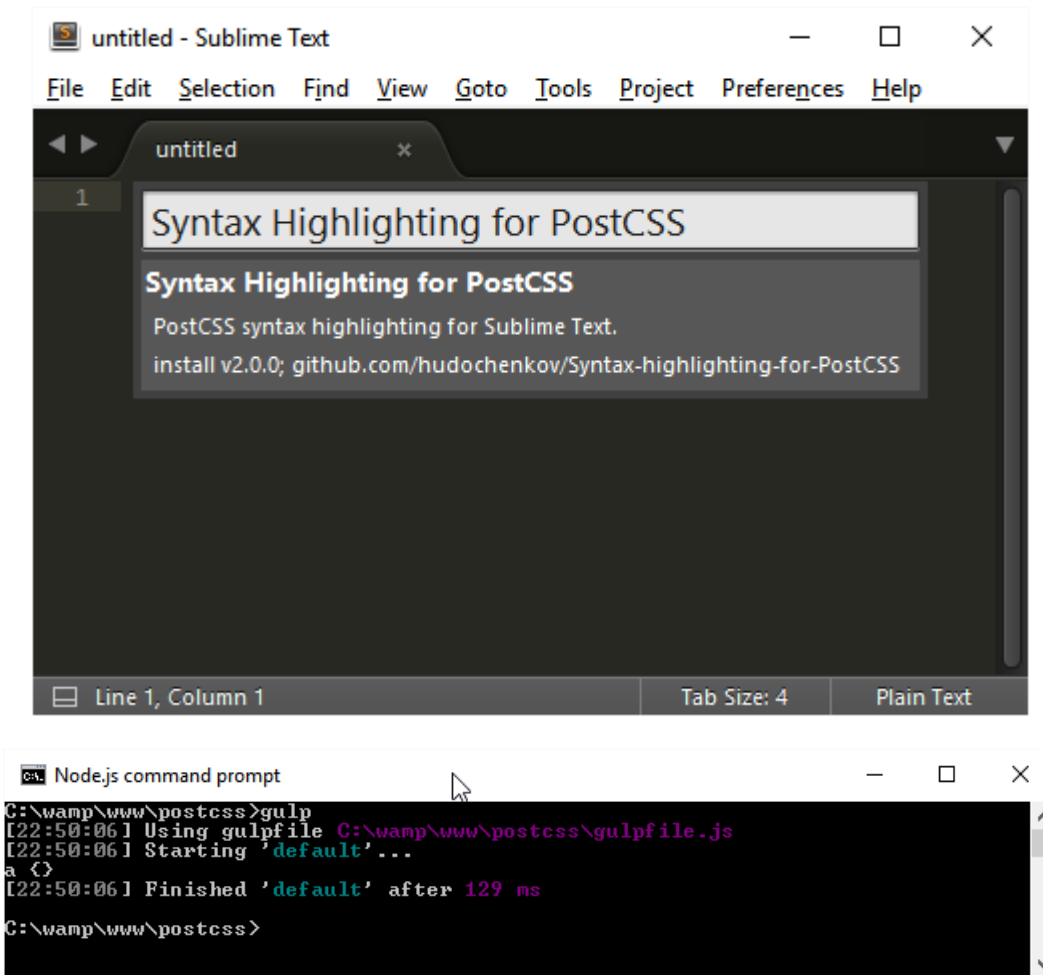
Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do

Register

Ok

⊘ Cancel

Chapter 11: Manipulating Custom Syntaxes

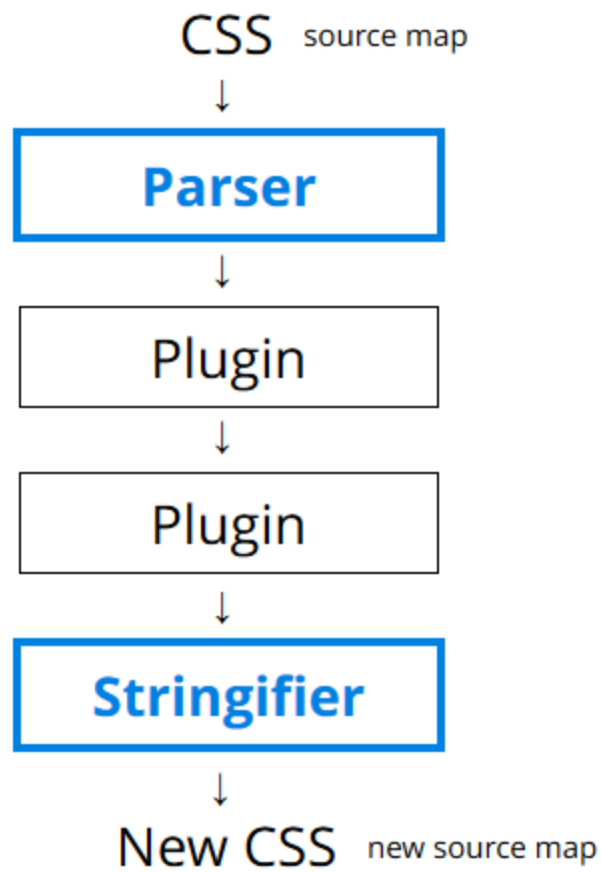
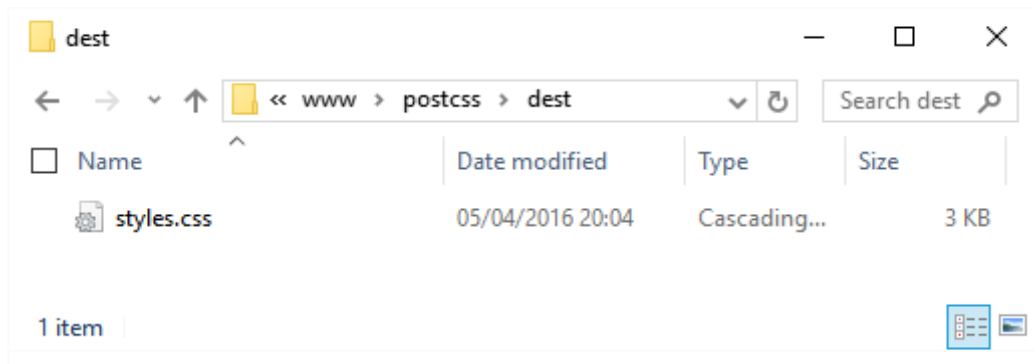


```
C:\wamp\www\postcss\gulpfile.js - Sublime Text
File Edit Selection Find View Goto Tools Project Preferences Help

gulpfile.js
1 'use strict';
2 var gulp = require('gulp');
3 var postcss = require('postcss');
4 var safe = require('postcss-safe-parser');
5 var autoprefixer = require('autoprefixer');
6 var fs = require('fs');
7
8 var badCss = 'a {';
9
10 gulp.task('default', function () {
11   return postcss([autoprefixer]).process(badCss, { parser: safe }).then(function (result) {
12     console.log(result.css); // = 'a {}'
13     fs.writeFileSync('output.css', result.css);
14   });
15 });
16
17
Line 18, Column 1 Spaces: 2 PostCSS
```

```
Node.js command prompt
C:\wamp\www\postcss>npm install postcss-scss --save-dev
postcss@1.0.0 C:\wamp\www\postcss
+-- autoprefixer@6.3.5
|   +-- postcss@5.0.19
|   +-- cwebp@1.1.0
|   +-- gulp-sass@2.2.0
|   +-- imagemin-jpegtran@4.3.2
|   +-- postcss-cssnext@2.4.0
|   +-- postcss-nesting@2.3.0
|   +-- postcss@5.0.19
|   +-- postcss-import@8.0.2
|   +-- postcss@5.0.19
+-- postcss-remove-prefixes@1.1.0
```

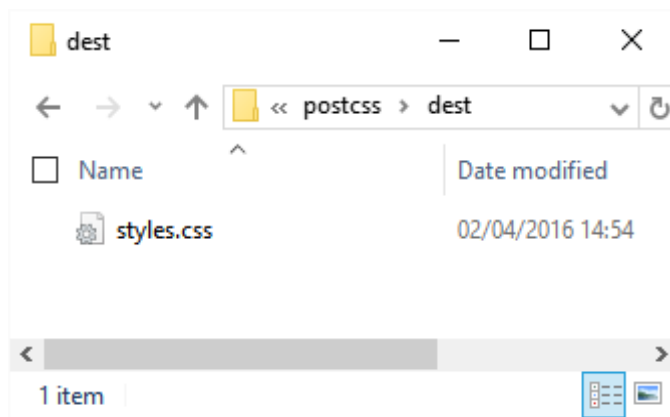
```
Node.js command prompt
C:\wamp\www\postcss>gulp
[20:20:55] Using gulpfile C:\wamp\www\postcss\gulpfile.js
[20:20:55] Starting 'default'...
[20:20:56] Finished 'default' after 510 ms
C:\wamp\www\postcss>
```



```
Node.js command prompt
C:\wamp\www\postcss>npm install postcss-value-parser
postcss@1.0.0 C:\wamp\www\postcss
├── autoprefixer@6.3.5
├── postcss-value-parser@3.3.0
├── cwebp@1.1.0
├── gulp-sass@2.2.0
├── imagemin-jpegtran@4.3.2
├── postcss-import@8.0.2
├── postcss-value-parser@3.3.0
├── postcss-time-machine@1.2.1
├── postcss-value-parser@3.3.0
└── postcss-value-parser@3.3.0
```

```
Node.js command prompt
C:\wamp\www\postcss>gulp
[23:07:47] Using gulpfile C:\wamp\www\postcss\gulpfile.js
[23:07:47] Starting 'default'...
ValueParser <
  nodes:
    [ < type: 'function',
      sourceIndex: 0,
      value: 'rgba',
      before: '',
      after: '',
      nodes:
        [ < type: 'word', sourceIndex: 5, value: '233' >,
          < type: 'div', sourceIndex: 8, value: ',', before: '', after: '' >,

```



```
61 #container {
62     background-clip: padding-box;
63     box-shadow: 3px 3px 5px 0px #949494;
64     margin: 5% auto;
65     width: 800px;
66 }
```

```
61 #container {
62     background-clip: padding-box;
63     box-shadow: 3px 3px 5px 0px rgba(148,148,148,1);
64     margin: 5% auto;
65     width: 800px;
66 }
```

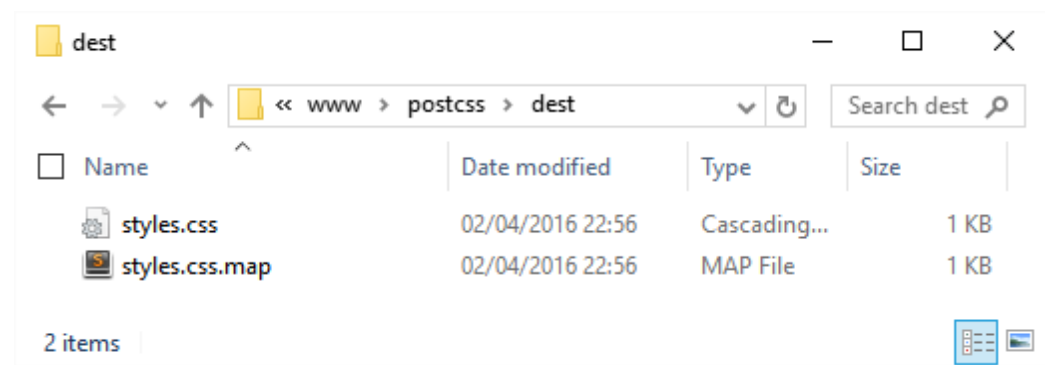
```
Nodejs command prompt
C:\wamp\www\postcss>gulp
[23:07:47] Using gulpfile C:\wamp\www\postcss\gulpfile.js
[23:07:47] Starting 'default'...
ValueParser <
  nodes:
  [ < type: 'function',
    sourceIndex: 0,
    value: 'rgba',
    before: ',',
    after: ',',
    nodes:
    [ < type: 'word', sourceIndex: 5, value: '233' >,
      < type: 'div', sourceIndex: 8, value: ',', before: ',', after: ',' >,
      < type: 'word', sourceIndex: 10, value: '45' >,
      < type: 'div',
        sourceIndex: 12,
        value: ',',
        before: ',',
        after: ',',
      < type: 'word', sourceIndex: 14, value: '66' >,
      < type: 'div',
        sourceIndex: 16,
        value: ',',
        before: ',',
        after: ',',
      < type: 'word', sourceIndex: 18, value: '.5' > ] > ] ]
[23:07:47] Finished 'default' after 44 ms
C:\wamp\www\postcss>
```



```
Node.js command prompt
C:\wamp\www\postcss>gulp
[22:52:52] Using gulpfile C:\wamp\www\postcss\gulpfile.js
[22:52:52] Starting 'default'...

The declaration type is: decl
The value of this declaration is: color: black
Number of nodes in this CSS: 1
Selectors used in this CSS: a
Updated color value: white

[22:52:52] Finished 'default' after 31 ms
C:\wamp\www\postcss>
```



```
14 // get a selector count
15 selectors = [];
16 root.walkRules(function (rule) {
17   selectors.push(rule.selector);
18 });
```

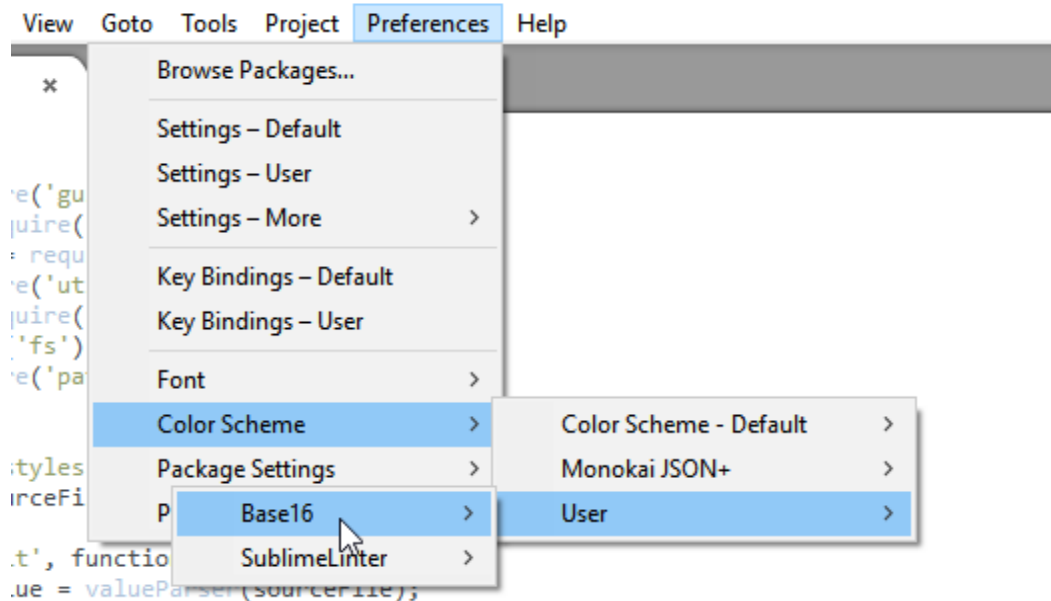
```
20 console.log("\nThe declaration type is: " + decl.type);
21 console.log("The value of this declaration is: " + decl.toString());
22 console.log("Number of nodes in this CSS: " + root.nodes.length);
23 console.log("Selectors used in this CSS: " + selectors.toString());
```

```

12 var file = 'src/styles.css';
13 var hexcolor, sourceFile = fs.readFileSync(file, 'utf-8');
14
15 gulp.task('default', function () {
16     var parsedValue = valueParser(sourceFile);
17
18     // walk() will visit all the of the nodes in the tree,
19     // invoking the callback for each.
20     parsedValue.walk(function (node) {
21
22         // Since we only want to transform rgba() values,
23         // we can ignore anything else.
24         if (node.type !== 'function' || node.value !== 'rgba') return;
25

```

ig PostCSS WebDesign\Chapters\Chapter 11\Code\TXX - changing colors\gulpfile.js - Sublime Text



	5	base01: "2e2f30" # ---
	6	base02: "515253" # --
	7	base03: "737475" # -
1	8	base04: "959697" # +
2	9	base05: "b7b8b9" # ++
3	10	base06: "dadbd9" # +++
4	11	base07: "fcdfe" # ++++

```

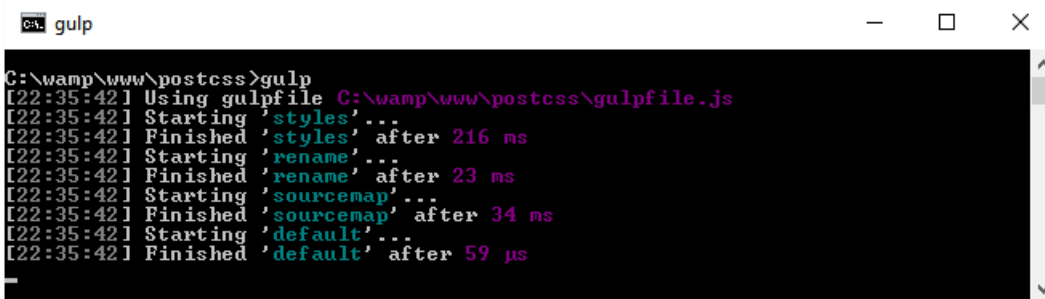
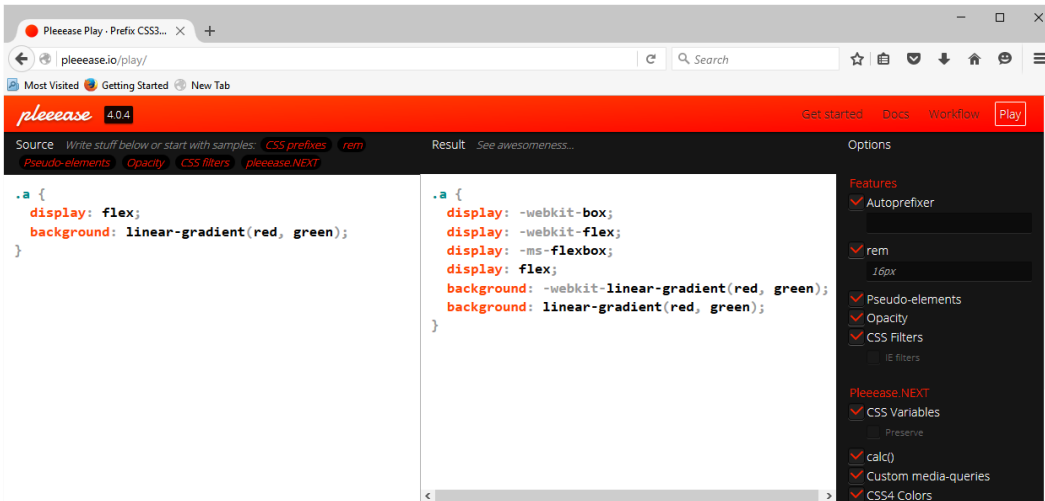
footer {
  clear: both;
  font-size: 12px;
  height: 3rem;
  margin-bottom: 5px;
  margin-top: 5px;
}

footer > p {
  padding-left: 2rem;
}

#container {
  background-clip: padding-box;
  box-shadow: 3px 3px 5px 0px rgba(148,148,148,1);
  margin: 5% auto;
  width: 800px;
}

```

Chapter 12: Mixing Preprocessors



Sample Site

[Sample link 1](#)
[Sample link 2](#)
[Sample link 3](#)
[Sample link 4](#)

Lorem Ipsum

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Curabitur elit sem, lobortis eu mattis et, egestas ac libero. Donec mauris est, porttitor sed purus quis, molestie ultricies lorem. In id scelerisque nulla. Vestibulum in ornare massa. Aliquam eleifend mollis justo ac sagittis. Mauris et arcu non

```
20 gulp.task('sass', function () {
21   return gulp.src('src/*.scss')
22     .pipe(sass().on('error', sass.logError))
23     .pipe(gulp.dest('dest/'));
24 });
```

```
47 * 14.3 - >= 910px
48 * 14.4 - >= 985px
49 * 14.5 - >= 1200px
50 * 15.0 - Print
51 */
52
53 @import "css/variables.css";
54 @import "css/normalize.css";
55 @import "css/genericons.css";
56 @import "css/typography.css";
57 @import "css/elements.css";
58 @import "css/forms.css";
59 @import "css/navigation.css";
60 @import "css/accessibility.css";
61 @import "css/alignments.css";
62 @import "css/clearings.css";
63 @import "css/widgets.css";
64 @import "css/content.css";
65 @import "css/media.css";
66 @import "css/multisites.css";
67 @import "css/queries.css";
68 @import "css/print.css";
69
```

```

31 gulp.task('styles', function () {
32     return gulp.src('src/style.css')
33         .pipe(postcss([ atImport(), precss(), autoprefixer() ]))
34         .pipe(gulp.dest('dest/'));
35 });

```

```

23     grunt.initConfig({
24         postcss: {
25             options: {
26                 processors: [
27                     autoprefixer({
28                         browsers: [
29                             'Android >= 2.1',
30                             'Chrome >= 21',
31                             'Edge >= 12',
32                             'Explorer >= 7',
33                             'Firefox >= 17',
34                             'Opera >= 12.1',
35                             'Safari >= 6.0'
36                         ],
37                         cascade: false
38                     })
39                 ]
40             },

```

```

149 hr {
150     -webkit-box-sizing: content-box;
151     -moz-box-sizing: content-box;
152     box-sizing: content-box;
153 }

```

```

17 var stylerules = {
18     "color-no-invalid-hex": 2,
19     "declaration-colon-space-before": [2, "never"],
20     "indentation": ["tab"],
21     "number-leading-zero": [2, "always"]
22 };

```

```

43 gulp.task('lint', ['pxrem'], function() {
44     return gulp.src("dest/style.css")
45         .pipe(postcss([ stylelint({ "rules": stylerules })),
46             reporter({ clearMessages: true } )
47         )))
48 });

```

```
57 gulp.task('minifyCSS', ['sourcemap'], function () {
58     return gulp.src('dest/*.min.css')
59         .pipe(nano({ autoprefixer: false }))
60         .pipe(gulp.dest("dest/"));
61 });
```

```
31 gulp.task('styles', function () {
32     return gulp.src('src/style.css')
33         .pipe(postcss([ atImport(), precss(), autoprefixer() ]))
34         .pipe(gulp.dest('dest/'));
35 });
```

```
101 /* Tag Cloud widget */
102 .tagcloud a {
103     border: 1px solid #d1d1d1;
104     border-radius: 2px;
105     display: inline-block;
106     font-family: $Montserrat;
107     line-height: 1;
108     margin: 0 0.1875em 0.4375em 0;
109     padding: 0.5625em 0.4375em 0.5em;
110 }
```

```
37 gulp.task('pxrem', ['styles'], function() {
38     return gulp.src("dest/style.css")
39         .pipe(pxrem())
40         .pipe(gulp.dest('dest/'));
41 });
```

```
1426 .widget .widget-title {
1427     font-family: Montserrat,"Helvetica Neue",sans-serif;
1428     font-size: 16px;
1429     font-size: 1rem;
1430     letter-spacing: 0.046875em;
1431     line-height: 1.3125;
1432     margin: 0 0 1.75em;
1433     text-transform: uppercase;
1434 }
```

```

50  blockquote {
51      &:before, &:after {
52          content: "";
53      }
54
55      p {
56          margin-bottom: 1.4736842105em;
57      }
58
59      cite, small {
60          color: $almostblack;
61          display: block;
62          font-size: 16px;
63          line-height: 1.75;
64      }
65
66      cite:before, small:before {
67          content: "\2014\00a0";
68      }
69
70      em, i, cite {
71          font-style: normal;
72      }
73
74      strong, b {
75          font-weight: 400;
76      }
77
78      & > :last-child {
79          margin-bottom: 0;
80      }
81  }

```

```

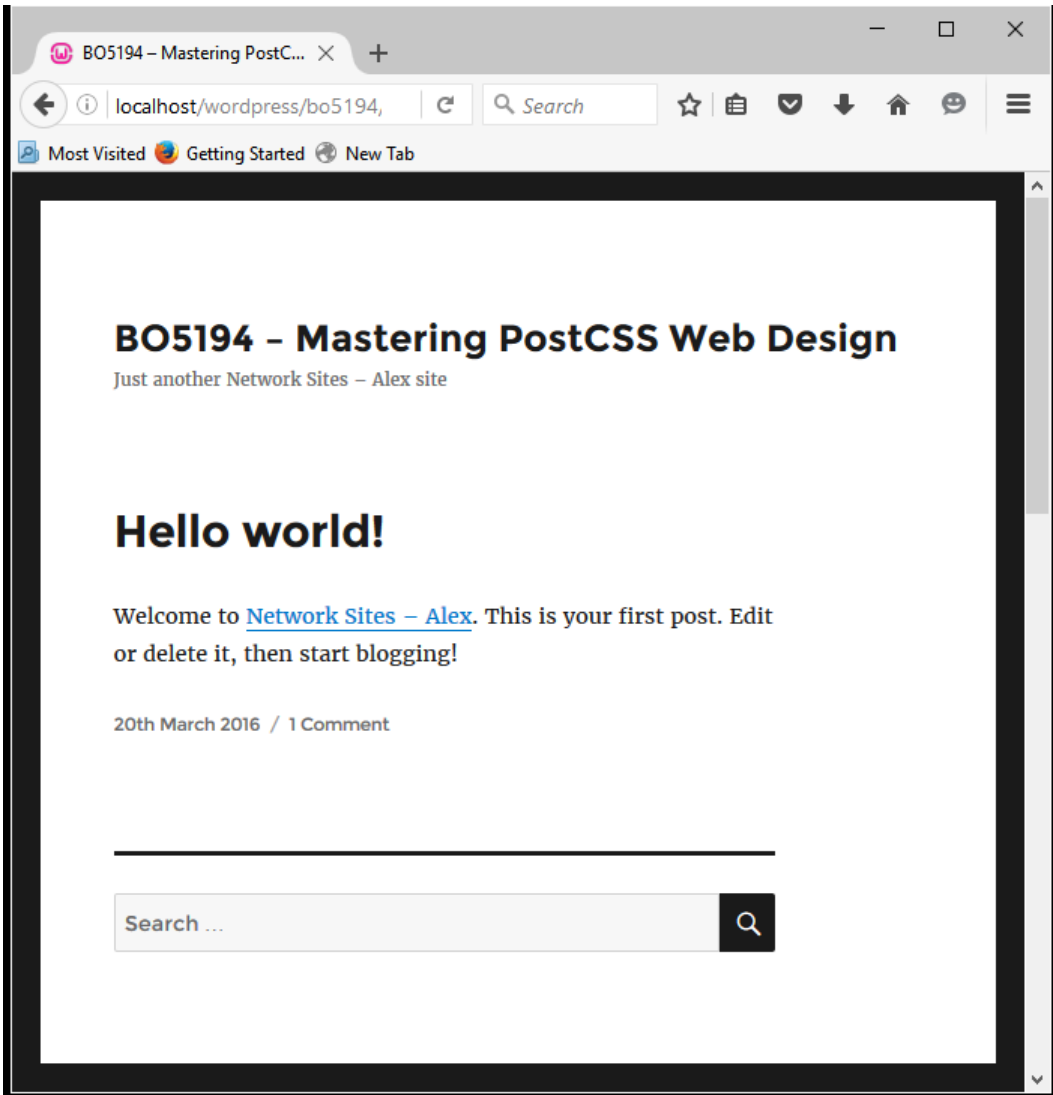
158  @for $i from 6 to 9 {
159      .gallery-columns-$(i) .gallery-caption {
160          display: none;
161      }
162  }

```

```

2560  .gallery-columns-6 .gallery-caption,
2561  .gallery-columns-7 .gallery-caption,
2562  .gallery-columns-8 .gallery-caption,
2563  .gallery-columns-9 .gallery-caption {
2564      display: none;
2565  }

```

BO5194 - Mastering PostCSS Web Design

localhost/wordpress/bo5194, Search

Most Visited Getting Started New Tab

BO5194 - Mastering PostCSS Web Design

Just another Network Sites - Alex site

Hello world!

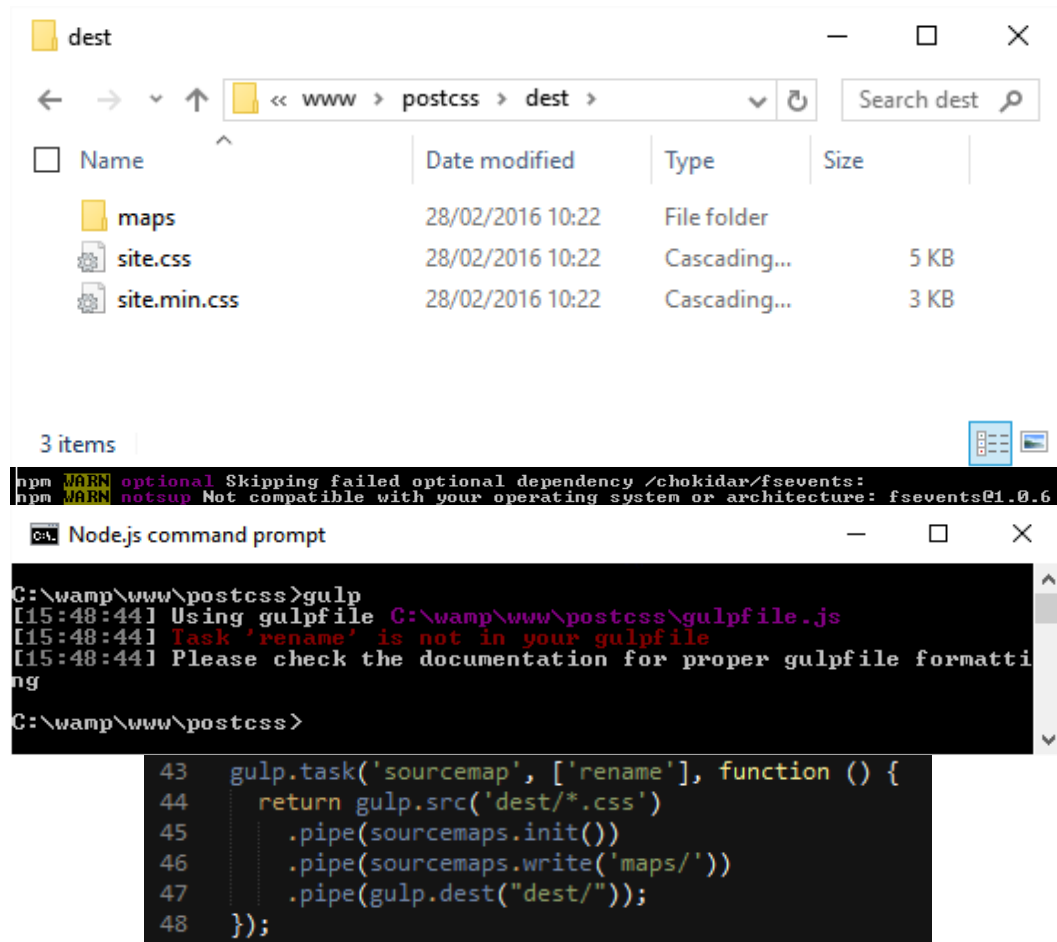
Welcome to [Network Sites - Alex](#). This is your first post. Edit or delete it, then start blogging!

20th March 2016 / 1 Comment

Search ...



Chapter 13: Troubleshooting PostCSS Issues



dest

« www » postcss » dest »

Name	Date modified	Type	Size
maps	28/02/2016 10:22	File folder	
site.css	28/02/2016 10:22	Cascading...	5 KB
site.min.css	28/02/2016 10:22	Cascading...	3 KB

3 items

```
npm WARN optional Skipping failed optional dependency /chokidar/fsevents:
npm WARN notsup Not compatible with your operating system or architecture: fsevents@1.0.6
```

Node.js command prompt

```
C:\wamp\www\postcss>gulp
[15:48:44] Using gulpfile C:\wamp\www\postcss\gulpfile.js
[15:48:44] Task 'rename' is not in your gulpfile
[15:48:44] Please check the documentation for proper gulpfile formatting
C:\wamp\www\postcss>
```

```
43   gulp.task('sourcemap', ['rename'], function () {
44     return gulp.src('dest/*.css')
45       .pipe(sourcemaps.init())
46       .pipe(sourcemaps.write('maps/'))
47       .pipe(gulp.dest("dest/"));
48   });
```

```
gulpfile.js - Notepad
File Edit Format View Help

'use strict';

var gulp = require('gulp');
var postcss = require('gulp-postcss');
//var autoprefixer = require('autoprefixer');
var cssnano = require('cssnano');
var sourcemaps = require('gulp-sourcemaps');
var rename = require('gulp-rename');
var stylelint = require('stylelint');
var reporter = require('postcss-reporter');
var rucksack = require('rucksack-css');

gulp.task('styles', function () {
  return gulp.src('src/*.css')
    .pipe(postcss([ rucksack({ fallbacks: true, autoprefixer: true }) ]))
    .pipe(gulp.dest('dest/'));
});

gulp.task("lint-styles", ['styles'], function() {
  return gulp.src("dest/*.css")
    .pipe(postcss([ stylelint({
      "rules": {
        "color-no-invalid-hex": 2,
        "declaration-colon-space-before": [2, "never"],
        "indentation": [2, 2],
        "number-leading-zero": [2, "always"]
      }
    })],
    reporter({
      clearMessages: true,
    })
  ]))
});

gulp.task('sourcemap', ['rename'], function () {
  return gulp.src('dest/*.css')
    .pipe(sourcemaps.init())
    .pipe(sourcemaps.write('maps/'))
    .pipe(gulp.dest("dest/"));
});

gulp.task('default', ['styles', 'lint-styles', 'rename', 'sourcemap']);

var watcher = gulp.watch('src/*.scss', ['styles', 'lint-styles', 'rename', 'sourcemap']);
watcher.on('change', function(event) {
  console.log('File ' + event.path + ' was ' + event.type + ', running tasks...');
});
```

```
ca. Nodejs command prompt
C:\wamp\www\postcss>gulp
module.js:338
  throw err;
  ^
Error: Cannot find module 'postcss-rucksack'
    at Function.Module._resolveFilename (module.js:336:15)
    at Function.Module._load (module.js:286:25)
    at Module.require (module.js:365:17)
    at require (module.js:384:17)
    at Object.<anonymous> (C:\wamp\www\postcss\gulpfile.js:11:16)
    at Module._compile (module.js:434:26)
    at Object.Module._extensions..js (module.js:452:10)
    at Module.load (module.js:355:32)
    at Function.Module._load (module.js:310:12)
    at Module.require (module.js:365:17)
    at require (module.js:384:17)
C:\wamp\www\postcss>
```

Install

```
$ npm install --save rucksack-css
```

```
ca. gulp
C:\wamp\www\postcss>gulp
[11:47:54] Using gulpfile C:\wamp\www\postcss\gulpfile.js
[11:47:54] Starting 'styles'...
[11:47:54] 'styles' errored after 34 ms
[11:47:54] ReferenceError: rucksack is not defined
    at Gulp.<anonymous> (C:\wamp\www\postcss\gulpfile.js:33:21)
    at module.exports (C:\wamp\www\postcss\node_modules\gulp\node_modules\orchestrator\lib\runTask.js:34:7)
    at Gulp.Orchestrator._runTask (C:\wamp\www\postcss\node_modules\gulp\node_modules\orchestrator\index.js:273:3)
    at Gulp.Orchestrator._runStep (C:\wamp\www\postcss\node_modules\gulp\node_modules\orchestrator\index.js:214:10)
    at Gulp.Orchestrator.start (C:\wamp\www\postcss\node_modules\gulp\node_modules\orchestrator\index.js:134:8)
    at C:\Users\alex\AppData\Roaming\npm\node_modules\gulp\bin\gulp.js:129:20
    at nextTickCallbackWith0Args (node.js:419:9)
    at process._tickCallback (node.js:348:13)
    at Function.Module.runMain (module.js:444:11)
    at startup (node.js:136:18)

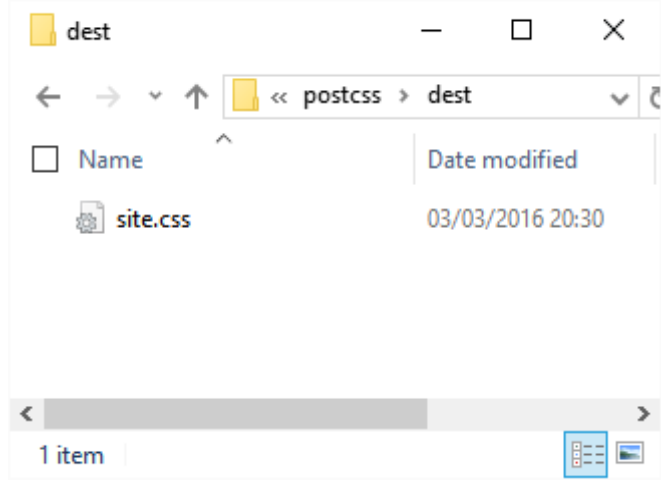
31 gulp.task('styles', function () {
32   return gulp.src('src/*.css')
33     .pipe(postcss([ rucksack({ fallbacks: true }), autoprefixer(), shortcolor, nesting, pixrem ]))
34     .pipe(gulp.dest('dest/'));
35 });
```

```
gulp
C:\wamp\www\postcss>gulp
[11:53:18] Using gulpfile C:\wamp\www\postcss\gulpfile.js
[11:53:18] Starting 'styles'...
[11:53:18] 'styles' errored after 21 ms
[11:53:18] Error in plugin 'gulp-postcss'
Message:
  Please provide array of postcss processors!
```

```
31 gulp.task('styles', function () {
32   return gulp.src('src/*.css')
33     .pipe(postcss())
34     .pipe(gulp.dest('dest/'));
35 });
```

```
npm WARN optional Skipping failed optional dependency /chokidar/fsevents:
not supported
npm WARN notsup Not compatible with your operating system or architecture: fsevents@1.0.8
npm WARN Failed to parse json
npm WARN Trailing comma in object at 28:3
npm WARN   >
npm WARN   ^
npm WARN File: C:\wamp\www\postcss\package.json
npm WARN enoent ENOENT: no such file or directory, open 'C:\wamp\www\postcss\node_modules\cls\package.json'
```

```
24   "postcss-pxtorem": "^3.3.1",
25   "postcss-reporter": "^1.3.0",
26   "postcss-short-color": "^1.0.0",
27   "stylelint": "^2.3.7",
28 }
29 }
30 }
```



```
gulp
C:\wamp\www\postcss>gulp
[16:11:39] Using gulpfile C:\wamp\www\postcss\gulpfile.js
[16:11:39] Starting 'styles' ...
[16:11:39] Starting 'rename' ...
[16:11:39] Finished 'rename' after 33 ms
[16:11:39] Starting 'sourcemap' ...
[16:11:39] Finished 'sourcemap' after 17 ms
[16:11:40] Finished 'styles' after 465 ms
[16:11:40] Starting 'lint-styles' ...

dest\style.css
153:11  !! Expected indentation of 2 spaces <indentation> [stylelint]
159:13  !! Expected indentation of 4 spaces <indentation> [stylelint]
163:13  !! Expected indentation of 4 spaces <indentation> [stylelint]
170:13  !! Expected indentation of 4 spaces <indentation> [stylelint]
174:13  !! Expected indentation of 4 spaces <indentation> [stylelint]

[16:11:40] Finished 'lint-styles' after 105 ms
[16:11:40] Starting 'default' ...
[16:11:40] Finished 'default' after 69 μs
```



Questions Jobs

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PostCSS is a tool for transforming styles with JS plugins. These plugins can support variables and mixins, transpile future CSS syntax, inline images, and more.

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1

vote

1

answer

How to use react-bootstrap with postcss-module and react-css-module?

Below is my Greeter.jsx file: import React, {Component} from 'react'; import cssModules from 'react-css-modules'; import {Button} from 'react-bootstrap'; import styles from './Greeter.css'; const ...

[twitter-bootstrap](#) [reactjs](#) [react-bootstrap](#) [postcss](#) [react-css-modules](#)

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postcss / postcss

Code Issues 31 Pull requests 0 Pulse Graphs

Filters is:issue is:open Labels Milestones

31 Open ✓ 313 Closed Author

- File-specific plugins options #753 opened 4 days ago by nezed
- Result#files enhancement #744 opened 10 days ago by ai
- FYI: the babel register require hook is outdated in index.js bug #697 opened on 6 Jan by LeonFedotov

Chapter 14: Preparing for the Future

```
ca. Node.js command prompt
C:\wamp\www\postcss>npm install postcss-selector-matches --save-dev
postcss@1.0.0 C:\wamp\www\postcss
+-- cwebp@1.1.0
+-- gulp-sass@2.2.0
+-- imagemin-jpegtran@4.3.2

npm WARN optional Skipping failed optional dependency /chokidar/fsevents:
npm WARN notsup Not compatible with your operating system or architecture: fsevents@1.0.8
npm WARN enoent ENOENT: no such file or directory, open 'C:\wamp\www\postcss\node_modules\cls\package.json'
npm WARN enoent ENOENT: no such file or directory, open 'C:\wamp\www\postcss\node_modules\cosmiconfig\package.json'
npm WARN postcss@1.0.0 No repository field.

C:\wamp\www\postcss>
```

test@example.com

@invalid

```
1  :valid, :invalid {
2  |   border: 2px solid;
3  | }
4
5  :valid {
6  |   border-color: green;
7  | }
8
9  :invalid {
10 |   border-color: red;
11 | }
```



```
ca. Node.js command prompt
Your environment has been set up for using Node.js 4.3.2 (x64) and npm.
C:\Users\alex>cd \wamp\www\postcss
C:\wamp\www\postcss>npm install postcss-input-range --save-dev
postcss@1.0.0 C:\wamp\www\postcss
+-- cwebp@1.1.0
+-- gulp-sass@2.2.0
+-- imagemin-jpegtran@4.3.2
+-- postcss-input-range@2.0.0

npm WARN optional Skipping failed optional dependency /chokidar/fsevents:
npm WARN notsup Not compatible with your operating system or architecture: fsevents@1.0.8
npm WARN enoent ENOENT: no such file or directory, open 'C:\wamp\www\postcss\node_modules\cls\package.json'
npm WARN enoent ENOENT: no such file or directory, open 'C:\wamp\www\postcss\node_modules\cosmiconfig\package.json'
npm WARN postcss@1.0.0 No repository field.
C:\wamp\www\postcss>
```



```
37   ::-moz-range-thumb {
38     width: 2.5em;
39     height: 1.125em;
40     border-radius: 0.25em;
41     box-shadow: 0 1px .125em #000;
```

```
52   ::-ms-thumb {
53     width: 2.5em;
54     height: 1.125em;
55     border-radius: 0.25em;
56     box-shadow: 0 1px .125em #000;
```

```
ca. Node.js command prompt
C:\wamp\www\postcss>npm install postcss-cssnext --save-dev
> caniuse-api@1.4.1 postinstall C:\wamp\www\postcss\node_modules\caniuse-api
> node generator.js
caniuse-api: Generation ok
postcss@1.0.0 C:\wamp\www\postcss
+-- cwebp@1.1.0
+-- gulp-atcss@0.2.0
+-- atcss@1.1.0
+-- postcss-import@5.2.2
+-- postcss-message-helpers@2.0.0
```

Sample Site

Sample link 1

Sample link 2

Sample link 3

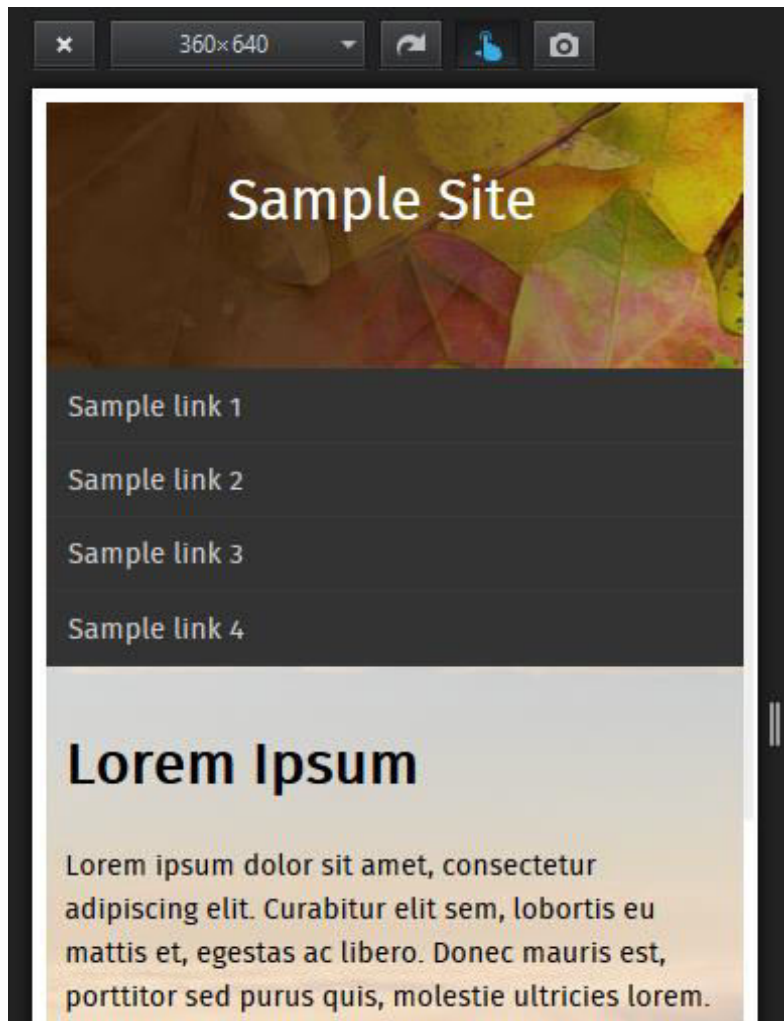
Sample link 4

Lorem Ipsum

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Curabitur elit sem, lobortis eu mattis et, egestas ac libero. Donec mauris est, porttitor sed purus quis, molestie ultricies lorem. In id scelerisque nulla. Vestibulum in ornare massa.

```
27  gulp.task('styles', function () {  
28    return gulp.src('src/*.css')  
29      .pipe(postcss([ cssnext() ]))  
30      .pipe(gulp.dest('dest/'));  
31  });
```

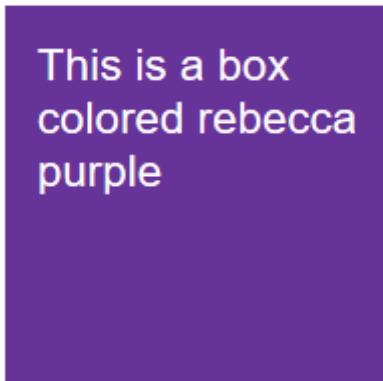




```
ca. Node.js command prompt
C:\wamp\www\postcss>npm install postcss-color-rebeccapurple --save-dev
postcss@1.0.0 C:\wamp\www\postcss
+-- cwebp@1.1.0
+-- gulp-sass@2.2.0
`-- imagemin-jpegtran@4.3.2

npm WARN optional Skipping failed optional dependency /chokidar/fsevents:
npm WARN notsup Not compatible with your operating system or architecture: fseve
nts@1.0.8
npm WARN enoent ENOENT: no such file or directory, open 'C:\wamp\www\postcss\nod
e_modules\cls\package.json'
npm WARN enoent ENOENT: no such file or directory, open 'C:\wamp\www\postcss\nod
e_modules\cosmiconfig\package.json'
npm WARN postcss@1.0.0 No repository field.

C:\wamp\www\postcss>
```



```
styles.css
1 #box {
2   background-color: rgb(102, 51, 153);
3   height: 10rem;
4   width: 10rem;
5   margin: 3rem;
6   padding: 1rem;
7   color: #fff;
8   font: 1.4rem Arial, sans-serif;
9   box-shadow: 5px 5px 6px 0px rgba(192,192,192,1);
10 }
```

```
1 #box {
2   background-color: rgb(222, 184, 135);
3   height: 10rem;
4   width: 10rem;
5   margin: 3rem;
6   padding: 1rem;
7   color: #fff;
8   font: 1.4rem Arial, sans-serif;
9   box-shadow: 5px 5px 6px 0px rgba(192,192,192,1);
10 }
```



#deb887 Color Conversion

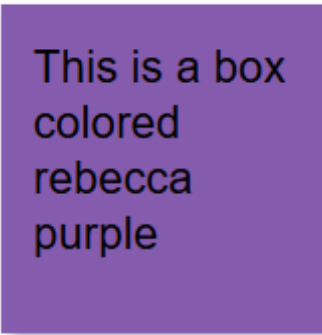
The hexadecimal color #deb887 has RGB values of R:222, G:184, B:135 and decimal value is 14596231.

Hex triplet	deb887	#deb887	CIE-LAB
RGB Decimal	222, 184, 135	rgb(222,184,135)	XYZ

```
ca. Node.js command prompt
C:\wamp\www\postcss>npm install postcss-time-machine --save-dev
postcss@1.0.0 C:\wamp\www\postcss
+-- cwebp@1.1.0
+-- gulp-sass@2.2.0
`-- imagemin-jpegtran@4.3.2

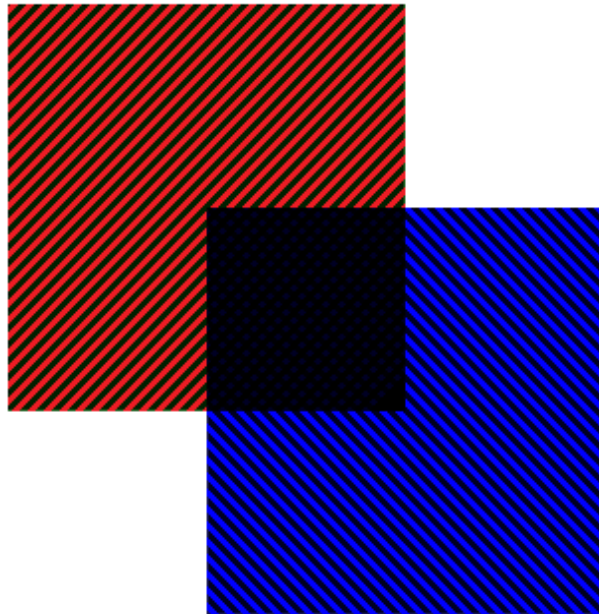
npm WARN optional Skipping failed optional dependency /chokidar/fsevents:
npm WARN notsup Not compatible with your operating system or architecture: fsevents@1.0.8
npm WARN enoent ENOENT: no such file or directory, open 'C:\wamp\www\postcss\node_modules\cls\package.json'
npm WARN enoent ENOENT: no such file or directory, open 'C:\wamp\www\postcss\node_modules\cosmiconfig\package.json'
npm WARN postcss@1.0.0 No repository field.

C:\wamp\www\postcss>
```



```
1 #box {
2   background-color: rgb(102, 51, 153, 194);
3   height: 10rem;
4   width: 10rem;
}
```

```
1 * {
2   box-sizing: border-box;
3 }
4 #box {
5   background-color: rgba(102, 51, 153, 0.8);
6   height: 10rem;
}
```



```
1 #div {  
2   width: 300px;  
3   height: 300px;  
4   background: url('../img/br.png'),  
5               url('../img/tr.png');  
6   background-blend: multiply;  
7 }
```

```
1 #div {  
2   width: 300px;  
3   height: 300px;  
4   background: url('../img/br.png'),  
5               url('../img/tr.png');  
6   background-blend-mode: multiply;  
7 }
```