

<http://bit.ly/sass-for-superman>



**DRUPALCON  
SYDNEY**

FRONTEND TRACK | JOHN ALBIN WILKINS | FEBRUARY 7 2013

**CSS is for Clark Kent.  
Sass is for Superman.**



palantir.net



# About John Albin Wilkins



JohnAlbin

[drupal.org/user/11297](https://drupal.org/user/11297)

@JohnAlbin



# O'Reilly book: Sass and Compass



- Will be published in the spring of 2013.
- Will be awesome.
- May contain Lemurs.



# The CMS



2013



1993



# We had mobile devices in 1993!





# Efficiency in CSS





# Efficiency in CSS





Obviously, we have a problem.







# We're screwed.

- Responsive Web Design
- SMACSS
- CSS3
- Flexbox
- Vendor Prefixes
- Transitions
- OCSS
- BEM
- Sass
- Less
- Bower
- HTML5
- Accessibility
- Aria
- Microformats
- Sprites
- Data URIs
- jQuery
- Media queries
- YepNope
- Mobile
- Testing
- Require.js
- Lazy loading
- Front-end performance
- Aggregation strategies
- Yeoman
- Compass
- Normalize.css
- Mobile first
- Canvas
- AMD
- Drupal theming



## Nicolas Gallagher



“Are you new to front-end web development?”

Here’s a secret:  
no one else really knows  
what they’re doing either.”

— @necolas



**Clark Kent was decent at his job.**

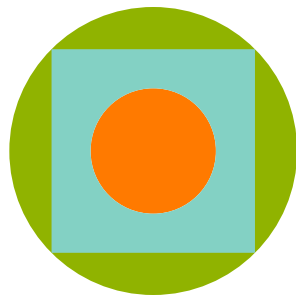




**Clark Kent was decent at his job.  
...but Lois Lane kicked his ass.**



2 years ago, at...



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# ZERO COMMITMENT!!!!

Sass = CSS + extras

Sass compiles to *normal* CSS

Automatic compilation

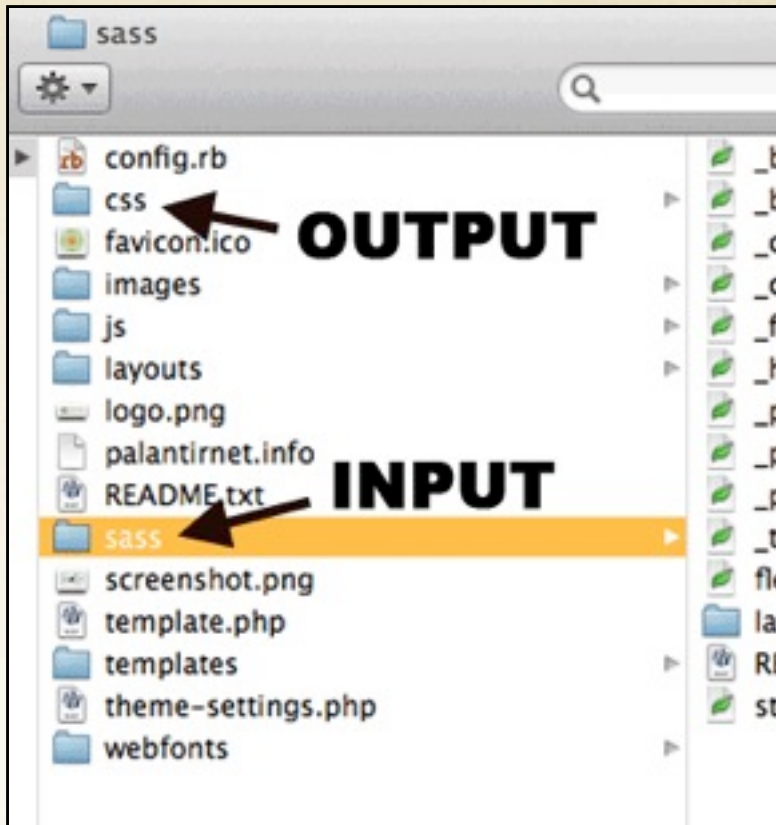


# Installing Sass & Compass

- Command line — FREE (I use this.)  
<http://thesassway.com/beginner/getting-started-with-sass-and-compass>  
`sudo gem install compass`
- Compass.app — \$10  
<http://compass.handlino.com>
- Fire.app — \$14 (I use this too.)  
<http://fireapp.handlino.com>
- CodeKit — \$25  
<http://incident57.com/codekit/>



# sass --watch



```
$> sass --watch sass:css
```

```
[sass dir]:[css dir]
```

>>> Sass is watching for changes. Press Ctrl-C to stop.





# sass --watch



```
$> sass --watch sass:css
```

```
[sass dir]:[css dir]
```

>>> Sass is watching for changes. Press Ctrl-C to stop.

***SASQUATCH!***

<http://bit.ly/superman-1>



# Variables and color functions

Sass

```
1 $blue: rgb(0, 121, 178);
```

```
2
```

CSS

```
1
```



# Variables and color functions

## Sass

```
1 $blue: rgb(0, 121, 178);
2
3 .example {
4   color: $blue;
5 }
6
```

## CSS

```
1 .example {
2   color: #0079b2;
3 }
4
```



# Variables and color functions

## Sass

```
1 $blue: rgb(0, 121, 178);
2
3 .example {
4   color: $blue;
5 }
6
7 $blue      : rgba(#0079b2, 0.5);
8 $dark-blue : darken(blue, 10%);
9
```

## CSS

```
1 .example {
2   color: #0079b2;
3 }
4
```



# Variables and color functions

## Sass

```
1 $blue: rgb(0, 121, 178);
2
3 .example {
4   color: $blue;
5 }
6
7 $blue      : rgba(#0079b2, 0.5);
8 $dark-blue : darken(blue, 10%);
9
10 .example-2 {
11   color: $dark-blue;
12   background-color: $blue;
13 }
14
```

## CSS

```
1 .example {
2   color: #0079b2;
3 }
4
5 .example-2 {
6   color: #0000cc;
7   background-color: rgba(0, 121, 178,
8 }
9
```



# Nesting (rulesets and properties)

## Sass

```
1 .menu--primary-links {
2   margin: 0;
3
4   .menu-link {
5     list-style-image:
6       url("../images/smiley.gif");
7   }
8 }
9
```

## CSS

```
1 .menu--primary-links {
2   margin: 0;
3 }
4 .menu--primary-links .menu-link {
5   list-style-image: url("../images/smi
6 }
7
```





# Nesting (rulesets and properties)

## Sass

```
1 ▾ .menu--primary-links {  
2   margin: 0;  
3  
4 ▾ .menu-link {  
5   list-style-image:  
6     url("../images/smiley.gif");  
7 }  
8 }  
9  
10 ▾ .menu {  
11 ▾ margin: {  
12   top: 0;  
13   bottom: 0;  
14 }  
15 }  
16
```

## CSS

```
1 ▾ .menu--primary-links {  
2   margin: 0;  
3 }  
4 ▾ .menu--primary-links .menu-link {  
5   list-style-image: url("../images/smiley.gif");  
6 }  
7  
8 ▾ .menu {  
9   margin-top: 0;  
10  margin-bottom: 0;  
11 }  
12
```





# Comments and output style

Syntax: SCSS | Extension: vanilla Sass | Output Style: expanded

[Save Gist](#) [Reset](#)

### Sass

```
1 ▾ .example {
2 ▾   /* This is a normal CSS comment. */
3   margin: 1.5em 0;
4
5   // This is a Sass-style comment.
6 ▾   .example__list {
7     margin: 0;
8   }
9 }
10
```

### CSS

```
1 ▾ .example {
2 ▾   /* This is a normal CSS comment. */
3   margin: 1.5em 0;
4 }
5 ▾ .example .example__list {
6   margin: 0;
7 }
8
```







# Comments and output style

Syntax: SCSS | Extension: vanilla Sass | Output Style: nested

[Save Gist](#) [Reset](#)

### Sass

```
1 ▾ .example {
2 ▾   /* This is a normal CSS comment. */
3   margin: 1.5em 0;
4
5   // This is a Sass-style comment.
6 ▾   .example__list {
7     margin: 0;
8   }
9 }
10
```

### CSS

```
1 ▾ .example {
2 ▾   /* This is a normal CSS comment. */
3   margin: 1.5em 0; }
4 ▾ .example .example__list {
5   margin: 0; }
6
```





# Comments and output style

Syntax: SCSS | Extension: vanilla Sass | Output Style: compact | Save Gist | Reset

### Sass

```
1 .example {
2   /* This is a normal CSS comment. */
3   margin: 1.5em 0;
4
5   // This is a Sass-style comment.
6   .example__list {
7     margin: 0;
8   }
9 }
10
```

### CSS

```
1 .example { /* This is a normal CSS comment. */
2   .example__list { margin: 0; }
3 }
```





# Comments and output style

Syntax: SCSS | Extension: vanilla Sass | Output Style: compressed | Save Gist | Reset

Sass	CSS
<pre>1 .example { 2   /* This is a normal CSS comment. */ 3   margin: 1.5em 0; 4 5   // This is a Sass-style comment. 6   .example__list { 7     margin: 0; 8   } 9 } 10</pre>	<pre>1 .example{margin:1.5em 0}.example .exan 2</pre>





# Parent selectors

## Sass

```
1 ▾ .button {  
2   border-color: #666;  
3  
4 ▾ .haz-border-shadow & {  
5   border-color: lighten(#666, 25%);  
6 }  
7 }  
8 |
```

## CSS

```
1 ▾ .button {  
2   border-color: #666;  
3 }  
4 ▾ .haz-border-shadow .button {  
5   border-color: #a6a6a6;  
6 }  
7
```





# Parent selectors

## Sass

```
1 ▾ .button {  
2   border-color: #666;  
3  
4 ▾ .haz-border-shadow & {  
5   border-color: lighten(#666, 25%);  
6 }  
7 }  
8 ▾ a {  
9   outline: 1px solid black;  
10 ▾ &:link {  
11   color: blue;  
12 }  
13 }  
14 |
```

## CSS

```
1 ▾ .button {  
2   border-color: #666;  
3 }  
4 ▾ .haz-border-shadow .button {  
5   border-color: #a6a6a6;  
6 }  
7  
8 ▾ a {  
9   outline: 1px solid black;  
10 }  
11 ▾ a:link {  
12   color: blue;  
13 }  
14
```





# @import



normalize.scss



print.scss



styles.scss





# @import

styles.scss :

```
1 | @import "normalize";  
2 | @import "print";  
~ |
```



# @import

styles.scss :

```
1 @import "normalize";
2 @import "print";
3
```

normalize.scss :

```
1 article {
2   display: block;
3 }
4
```

print.scss :

```
1 @media print {
2
3   a:link,
4   a:visited {
5     text-decoration: underline !important;
6   }
7
8 }
9
```





# @import

styles.scss :

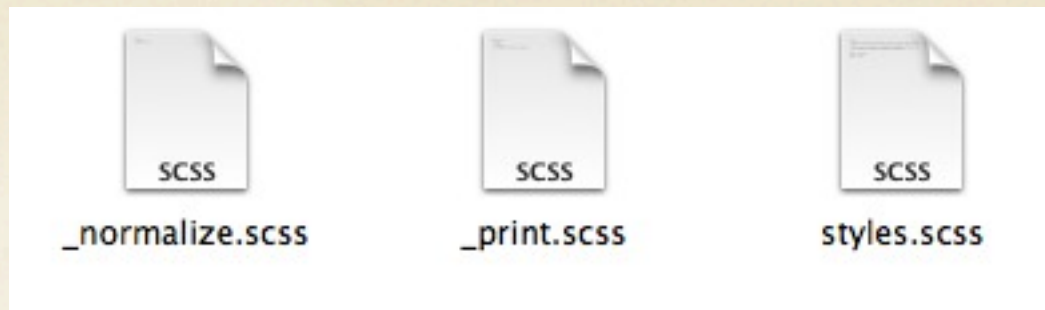
```
1 | @import "normalize";  
2 | @import "print";  
~ |
```

styles.css :

```
1 | article {  
2 |   display: block;  
3 | }  
4 | @media print {  
5 |   a:link,  
6 |   a:visited {  
7 |     text-decoration: underline !important;  
8 |   }  
9 | }  
10 |
```

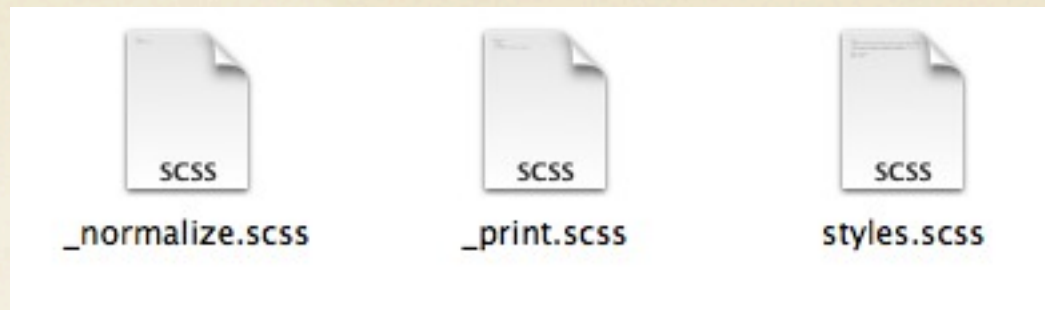


# Partials





# Partials



**styles.scss :**

```
1 | @import "normalize";  
2 | @import "print";  
3 |
```



# **\_init.scss**

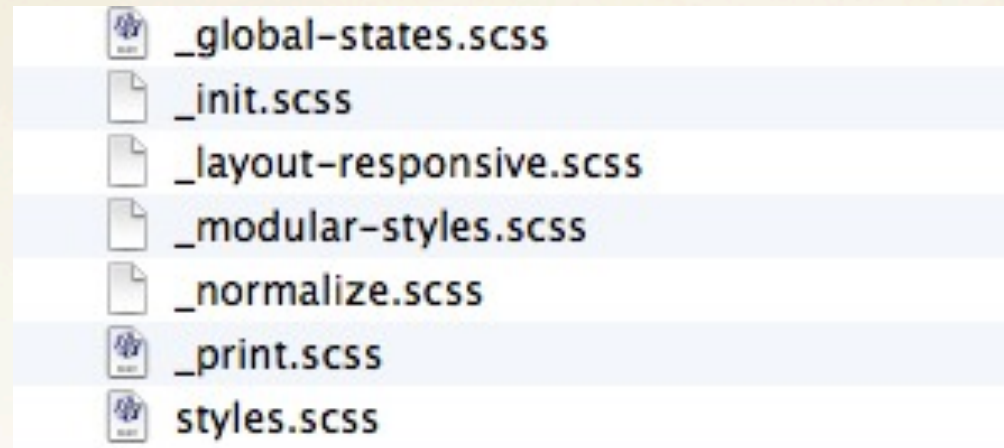
- **Declare all your variables**
- **Import all your modules**  
(Compass, Zen Grids, etc.)



# **\_init.scss**

- Declare all your variables
- Import all your modules  
(Compass, Zen Grids, etc.)

## **File organization**





# Drupal integration

**my-theme.info :**

```
stylesheets[all][] = css/styles.css
```



# There's a module for that™\*

“that” refers to \$@#\$ing up your CSS.

**PHP version of Sass = Buggy version of Sass**

**Feeling the speed yet?**







# Extends & placeholder selectors

## Sass

```
1 - %element-invisible {  
2   position: absolute !important;  
3   height: 1px;  
4   width: 1px;  
5   overflow: hidden;  
6   clip: rect(1px, 1px, 1px, 1px);  
7 }  
8
```

## CSS

```
1
```





# Extends & placeholder selectors

## Sass

```
1 - %element-invisible {
2   position: absolute !important;
3   height: 1px;
4   width: 1px;
5   overflow: hidden;
6   clip: rect(1px, 1px, 1px, 1px);
7 }
8
9 - .example {
10  @extend %element-invisible;
11  color: red;
12 }
13 - .example-2 {
14  @extend %element-invisible;
15 }
16
```

## CSS

```
1 - .example, .example-2 {
2   position: absolute !important;
3   height: 1px;
4   width: 1px;
5   overflow: hidden;
6   clip: rect(1px, 1px, 1px, 1px);
7 }
8
9 - .example {
10  color: red;
11 }
12
```





# Mixins

## Sass

```
1 @mixin rounded-corners($radius: 5px)
2   border-radius: $radius;
3 }
4 |
```

## CSS

```
1
```



# Mixins

## Sass

```
1 - @mixin rounded-corners($radius: 5px)
2   border-radius: $radius;
3 }
4
5 - .example {
6   @include rounded-corners();
7 }
8
9 - .example-2 {
10  @include rounded-corners(7px);
11 }
12
```

## CSS

```
1 - .example {
2   border-radius: 5px;
3 }
4
5 - .example-2 {
6   border-radius: 7px;
7 }
8
```





# Compass!!!!



# Data URIs (with `@import "compass";`)

## Normal CSS

```
1 ▾ .messages {  
2   background-image: url("../css/message-24-ok.png");  
3 }  
4 |
```



# Data URIs (with `@import "compass";`)

## Normal CSS

```
1 ▾ .messages {  
2   background-image: url("../css/message-24-ok.png");  
3 }  
4 |
```

## Sass

```
1 ▾ .messages {  
2   background-image: inline-image("message-24-ok.png");  
3 }  
4 |
```



# Data URIs (with `@import "compass";`)

## Normal CSS

```
1 ▾ .messages {  
2   background-image: url("../css/message-24-ok.png");  
3 }  
4 |
```

## Sass

```
1 ▾ .messages {  
2   background-image: inline-image("message-24-ok.png");  
3 }  
4 |
```

## CSS

```
1 ▾ .messages {  
2   background-image: url('data:image/png;base64,iVBORw0KGgoAAAAN  
3 }  
4 |
```





# CSS3 & Vendor prefixes

TOP

**Can I use...** [Suggestions](#) [Feed](#) [Twitter](#) 481 [Flattr](#)

Compatibility tables for support of HTML5, CSS3, SVG and more in desktop and mobile browsers.

Latest update: Three new features added: Strict Transport Security, CSS outline property and download attribute (December 3, 2012)

**Ads by Google** [Mobile HTML5](#) [Basic HTML5](#) [HTML5 Canvas](#) [HTML5 CSS3](#)

Search:

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CSS	HTML5	SVG
<ul style="list-style-type: none"><li>◦ @font-face Web fonts</li><li>◦ calc() as CSS unit value</li><li>◦ 2.1 selectors</li><li>◦ Counters</li><li>◦ Feature Queries</li></ul>	<ul style="list-style-type: none"><li>◦ Audio element</li><li>◦ Canvas (basic support)</li><li>◦ Color input type</li><li>◦ contenteditable attribute (basic support)</li></ul>	<ul style="list-style-type: none"><li>◦ Inline SVG in HTML5</li><li>◦ SVG (basic support)</li><li>◦ SVG effects for HTML</li><li>◦ SVG filters</li><li>◦ SVG fonts</li></ul>

<http://bit.ly/superman-7>



# CSS3 & Vendor prefixes

Sass

```
1 @import "compass";
```

```
2 |
```

CSS

```
1
```



# CSS3 & Vendor prefixes

## Sass

```
1 @import "compass";
2
3 .example {
4   @include border-radius(2px);
5 }
6
```

## CSS

```
1 .example {
2   -webkit-border-radius: 2px;
3   -moz-border-radius: 2px;
4   -ms-border-radius: 2px;
5   -o-border-radius: 2px;
6   border-radius: 2px;
7 }
8
```



# Zen Grids

Homepage: <http://zengrids.com>

**Webinar:** <https://www.acquia.com/resources/acquia-tv/conference/creating-responsive-drupal-sites-zen-grids-and-zen-5-theme-july-19>





**BOF!**

**ALL THINGS SASS & COMPASS**

**Tomorrow morning @ 10:45am!**



# What if we all shared?

# JUSTICE LEAGUE of AMERICA







**DRUPALCON**  
**SYDNEY**

**Thank you!**



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**DRUPALCON**  
**SYDNEY**

**What did you think?**

Session review: <http://bit.ly/i-love-superman>

Stalk Follow me: [@JohnAlbin](#)



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