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100% pure

Sass

Breaking Borders, Reading, October 2014

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Stu Robson

front-end developer

- Sass News
- LDN Sass
- SitePoint

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Sassy

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`less`

Sass





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What is Sass?

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- **Websites are getting bigger.**
- **Bigger sites mean more CSS.**
- **We need to organise our CSS so it's maintainable**
- **Maintaining one CSS file is a pain.**

- **Using a preprocessor can help this.**
- **Sass has features that don't exist in CSS.**
- **Sass can make your stylesheets maintainable.**
- **Sass doesn't fix your bad CSS.**



Andrew Clarke
@Malarkey

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Pro tip — “If your CSS is complicated enough to need a compiler or pre-processor, you’re fucking doing it wrong!”

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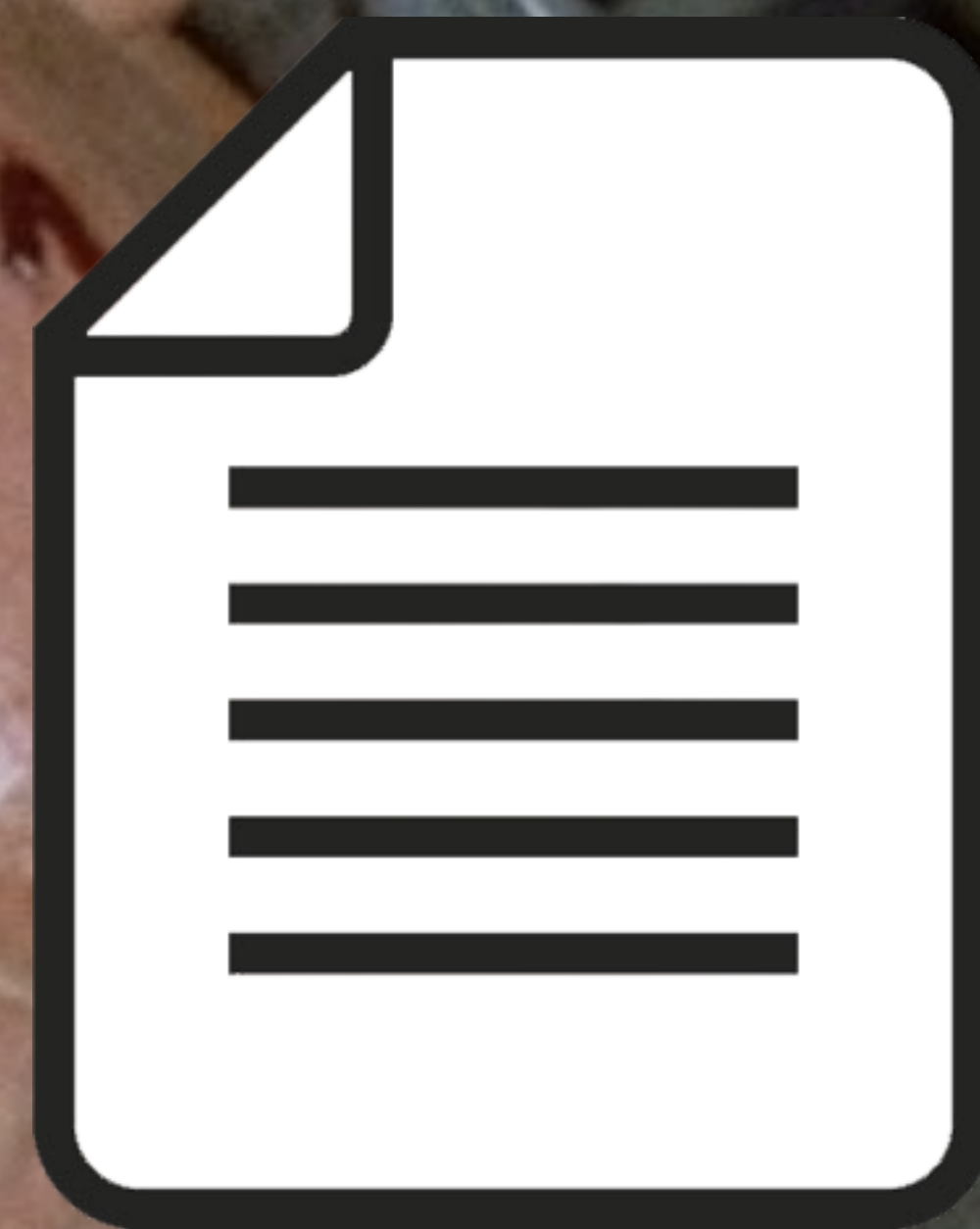
24



8:34 AM - 7 Dec 2009



.SCSS



.CSS

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Sass not SASS

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**“If you see something, say something.
Only you can prevent over-capitalisation.”**



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#Sasshole

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Installing Sass

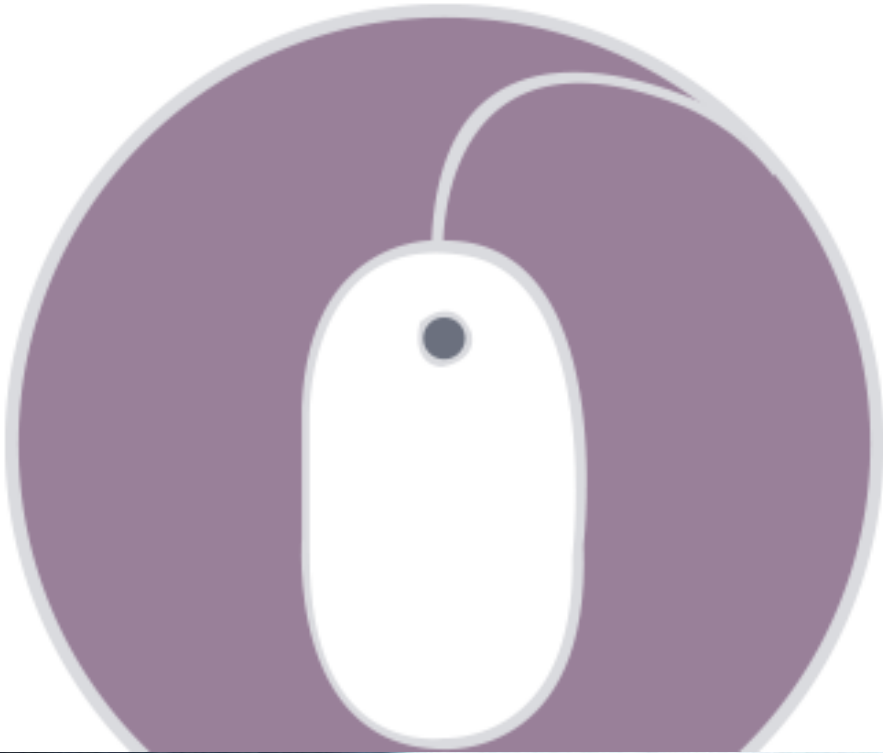
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Install Sass

There are a couple of ways to start using Sass:

1. APPLICATIONS




2. COMMAND LINE



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```
1. bash  
Last login: Mon Oct 20 14:30:09 on ttys000  
rMBP:~ sr$ gem install sass
```

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Download Trial

Version 2.1.8 (18027) Mac OS 10.8+
The trial includes all features and unlocks in place



CodeKitWebsite2(Git)

AssetsServerPreview

All FilesLog

api

api2

appcast

bower_components

files

images

inc

js

kit

scss

serverscripts

stylesheets

about.html


SASS

Output style:
Compressed

Debug info:
None


Other options:
☒ Create a source map
☒ Use the libsass compiler

After compiling:
☐ Run Bless on the CSS file
☐ Run Autoprefixer on the CSS file




Compile Everything

Less, Sass, Stylus, CoffeeScript, Typescript, Jade, Haml, Slim, Markdown & Javascript.




Auto-Refresh Browsers

Refresh browsers across devices: Mac, PC, iOS, Android & kitchen fridge. Never hit command+R again.



Bower Built-In

Install 6,000+ components with a single click: Bootstrap, jQuery, Modernizr, Zurb Foundation, even WordPress.



It Just Works

There's no grunting at a command line and zero setup. Just drop your project on the app and go.

COMPILE EVERY LANGUAGE

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Prepros App

Preprocessing. Live
Browser Refreshing.
Multi Device Testing
and Much More.

Prepros 4.2.0 Windows XP+

Prepros 4.2.0 OSX 10.8+

- alphapixels.com
- Prepros-Site
- File Types

Coffee	coffee.coffee coffee.coffee → coffee.js
Js	coffee.js coffee.js → min/coffee.min.js
Scss	cool.scss sass-imports/nested/cool.scss → sass-imports/nested/cool.css
Haml	haml.haml haml.haml → haml.html
Jade	jade.jade jade.jade → jade.html

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Variables

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- **A way to store reusable information.**
- **Sass uses the \$ to make a variable.**
- **When compiled replaces the \$variable through the stylesheet**

`$brand-color-1: #CC6699;`


```
$brand-color-1: #CC6699;
```

```
body {  
  background-color: $brand-color-1;  
}
```

```
body {  
  background-color: #CC6699;  
}
```


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Variables

The Facebook Blue

#3B5998

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```
// -- document font declarations -----

$doc-font-size: 16;
$doc-line-height: 24;

// -- branding -----

$base-color: orange;
$comp-color: green;
$tertiary-color: red;
$alt-1: #777777;
$alt-2: #CCCCCC;
$white: #FFFFFF;
$black: #000000;

// -- typography -----

$body-font: Georgia, serif;
$header-font: $body-font;

// -- links -----

$link-color: red;
$link-color-hover: darken($link-color, 10);
```


Colour

Font Families

Margins

Padding

Widths

Media Queries

Border Radius

Box Shadow

And so on

And so on

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Nesting

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- **Sass allows rules to be nested within one another.**
- **The inner rule only applies within the outer rules selector.**
- **This can help make complex CSS much simpler.**


```
.feature {  
  background-color: #CC6699;  
}  
  
.feature h2 {  
  color: #333333;  
}
```



```
.feature {  
  background-color: #CC6699;  
  h2 {  
    color: #333333;  
  }  
}
```



```
.feature {  
  background-color: #CC6699;  
}  
  
.feature h2 {  
  color: #333333;  
}
```



```
html {  
  body {  
    header {  
      nav {  
        ul {  
          li {  
            a {  
              text-decoration: none;  
            }  
          }  
        }  
      }  
    }  
  }  
}
```



```
html body header nav ul li a {  
  text-decoration: none;  
}
```


- Never go more than 4 levels deep.
- Never go more than 3 levels deep.
- Never nest your Sass.

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Parent Selector

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- **Using the ampersand (&) references the parent selector**
- **Allows for simple and complex usage than just nesting**
- **The ‘&’ tells Sass to pull in the entire parent selector where it’s placed.**


```
a { text-decoration: none; }  
  
a:visited { text-decoration: underline; }  
  
a:hover { text-decoration: underline; }  
  
a:active { position: relative; top: 1px; }
```



```
a {  
  text-decoration: none;  
  &:visited {  
    text-decoration: underline;  
  }  
  &:hover {  
    text-decoration: underline;  
  }  
  &:active {  
    position: relative; top: 1px;  
  }  
}
```



```
a { text-decoration: none; }  
  
a:visited { text-decoration: underline; }  
  
a:hover { text-decoration: underline; }  
  
a:active { position: relative; top: 1px; }
```



```
.no-js {  
  body & {  
    background: #F3F3F3;  
  }  
}
```



```
body .no-js {  
  background: #F3F3F3;  
}
```


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Mixins

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- **Allows you to create reusable blocks of CSS.**
- **You can values into mixins to make the more flexible.**
- **A good use of mixins (was) is for vendor prefixes.**


```
@mixin border-radius($radius) {  
  -webkit-border-radius: $radius;  
  -moz-border-radius: $radius;  
  border-radius: $radius;  
}  
  
.box { @include border-radius(10px); }
```



```
.box {  
  -webkit-border-radius: 10px;  
  -moz-border-radius: 10px;  
  border-radius: 10px;  
}
```


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Functions

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- **Sass comes with some built-in functions**
- **Numeric Functions**
- **Colour Functions**

- **Percentage**
- **Ceil**
- **Floor**
- **Round**

```
.box-a { width: percentage(320/960); }
```

```
.box-b { width: ceil(33.33333%); }
```

```
.box-c { width: floor(33.33333%); }
```

```
.box-d { width: round(33.33333%); }
```

```
.box-a { width: 33.333333333333%; }
```

```
.box-b { width: 34%; }
```

```
.box-c { width: 33%; }
```

```
.box-d { width: 33%; }
```



```
$brand-color: #CC6699;

.adjust-hue { color: adjust-hue($brand-color, 90); }
.lighten { color: lighten($brand-color, 20); }
.darken { color: darken($brand-color, 30); }
.grayscale { color: grayscale($brand-color); }
.saturate { color: saturate($brand-color, 30); }
.desaturate { color: desaturate($brand-color, 30); }
.complement { color: complement($brand-color); }
```



```
.adjust-hue { color: #cccc66; }  
.lighten { color: #e6b3cc; }  
.darken { color: #73264d; }  
.grayscale { color: #999999; }  
.saturate { color: #eb4799; }  
.desaturate { color: #ad8599; }  
.complement { color: #66cc99; }
```


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Operators

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- Sass gives the ability to do maths in CSS
- Uses operators like: `+`, `-`, `/`, `*` and `%`


```
$gutter: 3.12%;

.container { box-sizing: border-box; width: 100%; }

article[role="main"] {
  float: left;
  padding: $gutter - ($gutter / 2);
  width: 600px / 960px * 100%;
}

aside[role="complimentary"] {
  float: right;
  padding: $gutter + ($gutter / 2);
  width: 300px / 960px * 100%;
}
```



```
.container {  
  box-sizing: border-box;  
  width: 100%;  
}  
  
article[role="main"] {  
  float: left;  
  padding: 1.56%;  
  width: 62.5%;  
}  
  
aside[role="complimentary"] {  
  float: right;  
  padding: 4.68%;  
  width: 31.25%;  
}
```


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And?

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```
.module {  
  box-sizing: border-box;  
  background-color: $brand-color-2;  
  margin: 0 auto $v-rhythm*2;  
  padding: 0 percentage(12/320);  
  width: 100%;  
  h2 {  
    border-bottom: 1px solid $brand-color-2;  
    color: darken($brand-color-2, 45%);  
    line-height: $l-height;  
    text-align: center;  
  }  
  @include mq(960px) {  
    width: percentage(320/960);  
  }  
}
```



```
.module {  
  box-sizing: border-box;  
  background-color: red;  
  margin: 0 auto 2rem;  
  padding: 0 3.75%;  
  width: 100%;  
}  
  
.module h2 {  
  border-bottom: 1px solid red;  
  color: #1a0000;  
  line-height: 1.3;  
  text-align: center;  
}  
  
@media (min-width: 960px) {  
  .module {  
    width: 33.33333%;  
  }  
}
```




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Operators



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Andrew Clarke
@Malarkey

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6:54 AM - 14 Nov 2012

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- **@SassCSS - <http://sass-lang.com/>**
- **@Sassmeister - <http://sassmeister.com/>**
- **@StuRobson - <http://www.alwaystwisted.com>**



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