

Getting SASSY with your CSS

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SASS?

- CSS Preprocessor
- Compiles `.scss` to files `.css`
- Features to help write CSS
- SASS is a superset of CSS

Variables

```
$body-font: "Lucida Grande", "Segoe UI", Arial, sans-serif;
$header-font: Palatino, "Palatino Linotype", "Palatino LT STD", "Book Antiqua"

body {
  font-size: 100%;
  font-family: $body-font;
}

h1, h2, h3, h4, h5, h6 {
  font-family: $header-font;
}
```

<http://sassmeister.com/gist/9313333>

Defaults

```
$button-color: #005E95;
$button-color: #D71C0D !default; // doesn't override

.button {
  padding: 1em;
  display: inline-block;
  font-family: sans-serif;
  color: white;
  text-decoration: none;
  border-radius: 3px;
  background: $button-color;
}
```

<http://sassmeister.com/gist/9330033>

Partials and Imports

```
// framework/_defaults.scss

$button-color: #005E95 !default;
$body-font: Helvetica, Arial, sans-serif;
$header-font: $body-font !default;
```

```
// _my-config.scss

$button-color: #005E95;
$body-font: "Lucida Grande", "Segoe UI", sans-serif;
$header-font: "Avenir LT W01 35 Light", sans-serif;
```

```
// main.scss

@import "framework/defaults";
@import "my-config";
@import "framework";

body {
  font-size: 100%;
  font-family: $body-font;
}

h1, h2, h3, h4, h5, h6 {
  font-family: $header-font;
}

.button {
  padding: 1em;
  background: $button-color;
}
```


Nesting

```
.header-bar {  
  background: #3984D2;  
  padding: 1rem;  
  font-family: sans-serif;  
  color: white;  
  h1 {  
    margin: 0;  
    padding: 0;  
    font-weight: 500;  
  }  
  a {  
    text-decoration: none;  
    display: inline-block;  
    border: 1px solid white;  
    margin: 1rem 0 0 0;  
    padding: 0.75rem 2rem;  
    color: white;  
  }  
}
```

<http://sassmeister.com/gist/9330186>

Nesting Continued

```
.button {
  padding: .75rem 1.5em;
  display: inline-block;
  font-family: sans-serif;
  color: white;
  text-decoration: none;
  border-radius: 3px;
  background: #005E95;
  border: 2px solid #005E95;
  &:hover {
    background: transparent;
    color: #005E95;
  }
  &.danger {
    background: #C01E1A;
    border-color: #C01E1A;
    &:hover {
      background: transparent;
      color: #C01E1A;
    }
  }
}
```

<http://sassmeister.com/gist/9330666>

@mixin

```
@mixin button-color($color){
  background: $color;
  border-color: $color;
  &:hover {
    background: transparent;
    border-color: $color;
    color: $color;
  }
}

.button {
  padding: .75rem 1.5em;
  display: inline-block;
  font-family: sans-serif;
  color: white;
  text-decoration: none;
  border: 2px solid;
  @include button-color(#005E95);
  &.danger {
    @include button-color(#C01E1A);
  }
}
```

<http://sassmeister.com/gist/9331344>

@media

```
html, body {  
  width: 100%;  
  height: 100%;  
  margin: 0;  
  color: white;  
}  
  
body {  
  background: green;  
  @media screen and (max-width: 1024px) {  
    background: blue;  
  }  
  @media screen and (max-width: 768px) {  
    background: red;  
  }  
}
```

<http://sassmeister.com/gist/9331447>

@mixin for Responsive Design

```
@mixin on-small-screens () {  
  @media screen and (max-width: 768px) {  
    @content  
  }  
}  
  
.article-header {  
  font-family: sans-serif;  
  font-size: 4rem;  
  @include on-small-screens {  
    font-size: 2rem;  
  }  
}
```

<http://sassmeister.com/gist/9331704>

IE Specific @mixin

```
<!--[if IE 8]><html class="ie ie8"><![endif]-->  
<!--[if !IE]><!--><html><!--<![endif]-->
```

```
@mixin for-ie8(){  
  html.ie8 & {  
    @content;  
  }  
}  
  
.my-layout {  
  float: left;  
  @include for-ie8 {  
    float: none;  
  }  
}
```

<http://sassmeister.com/gist/9331753>

@mixin for Print Styles

```
@mixin for-print(){
  @media print {
    @content
  }
}

header {
  background: black;
  color: white;
  @include for-print {
    background: white;
    color: black;
  }
}
```

<http://sassmeister.com/gist/9332042>

Retina Display @mixin

```
@mixin for-retina-display {
  @media only screen and (-webkit-min-device-pixel-ratio: 2),
    only screen and (-moz-min-device-pixel-ratio: 2),
    only screen and (-o-min-device-pixel-ratio: 2/1),
    only screen and (min-device-pixel-ratio: 2),
    only screen and (min-resolution: 192dpi),
    only screen and (min-resolution: 2dppx){
    @content
  }
}

small {
  font-size: 13px;
  @include for-retina-display {
    font-size: 11px;
  }
}
```

<http://sassmeister.com/gist/9332258>

@extend

```
@mixin button-color($color){ ... }

.button {
  padding: .75rem 1.5em;
  display: inline-block;
  font-family: sans-serif;
  color: white;
  text-decoration: none;
  border: 2px solid;
  @include button-color(gray);
}

.main-button {
  @extend .button;
  @include button-color(#005E95);
}

.danger-button {
  @extend .button;
  @include button-color(#C01E1A);
}
```

<http://sassmeister.com/gist/9332450>

@placeholder

```
@mixin button-color($color){ ... }

%button {
  padding: .75rem 1.5em;
  display: inline-block;
  font-family: sans-serif;
  color: white;
  text-decoration: none;
  border: 2px solid;
}

.main-button {
  @extend %button;
  @include button-color(#005E95);
}

.danger-button {
  @extend %button;
  @include button-color(#C01E1A);
}
```

<http://sassmeister.com/gist/9332472>

Lets Abuse
Our New
Powers

Abusing SASS - Over Nesting

Abusing nesting can bloat file size.

Example - Solution

Inception Rule: never go more than 3 levels deep

Abusing SASS - Comma Operator

The comma selector multiplies the amount of nesting

Example - Solution

Try not to use the comma operator when you are nesting

Abusing SASS - Overusing @mixin

Mixins easily bloat files with duplicate properties

Example - Solution

Mixins are dynamic, extend is static

Get Started

- `sass` command line tool (Ruby)
- `libsass` if you hate Ruby
- IDE Integration (Visual Studio, Eclipse, ect...)
- Build Systems (Ant, Maven, Grunt, Gulp, ect...)
- Frameworks (Rails, Express, Django)
- Apps (Koala, Codebox, Hammer)

Compass and Bourbon

- Extend SASS
- Mixins for CSS 3
- Typography & Layout

Fun w/ Compass

<http://sassmeister.com/gist/9333804>

