Building Custom WordPress Themes with Sass

Personal

Professional

Full Stack
Development
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Background

What is Sass?

What is Sass?

Acronym

What is Sass?

Preprocessor

What is Sass?

Programming Language

Brief History

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- Syntax: .sass vs .scss

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- sass - originally written in Ruby

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- Syntax: .sass vs .scss

- sass - originally written in Ruby

- libsass - written in C (much faster)

Basics

Features of Sass

Superset of CSS

Variables

Variables

```
$font-size: 12px;
$font_size: 14px;
```

Variables

```
div {
  $width: 200px;
  width: $width;
}


table {
  width: $width; // error
}
```

Data Types

Data Types

Null

Data Types

Null

Boolean

Data Types

Null

Boolean

Number

Data Types

Null

Boolean

Number

String

Data Types

Null

List (array)

Boolean

Number

String

Data Types

Null

Boolean

Number

String

List (array)

Map (hash)

Data Types

Null

Boolean

Number

String

List (array)

Map (hash)

Color (hex, rgba, hsla)

Units

px	%
em	s (seconds)
rem	deg

Nesting

```scss
.parent {
  border: 1px solid #000;
  padding: 10px;

  .child {
    text-align: center;
  }
}
```

Sass

```css
.parent {
  border: 1px solid #000;
  padding: 10px;
}

.parent .child {
  text-align: center;
}
```

CSS

Mixins

```scss
@mixin font-bold {
  font-weight: 600;
}

.key-text {
  @include font-bold;
}
```

Sass

```css
.key-text {
  font-weight: 600;
}
```

CSS

Functions

```
$grid-width: 40px;
$gutter-width: 10px;

@function grid-width($n) {
  @return $n * $grid-width +
     ($n - 1) * $gutter-width
  ;
}


.sidebar {
  width: grid-width(5);
}
```

3rd Party Libraries

- Provide predefined behavior

- Easy way to jumpstart code

- media queries, grid system, helpful mixins and functions, etc.

Best Practices

File Organization

Break code into separate files

Group files into folders/directories

7-1 Pattern

Variables

Variables

- Use them

Variables

- Use them

- Declare in a standard location

Variables

- Use them

- Declare in a standard location

- Override vendor variables with `!global`

Experiment

Build

Generation

Command Line
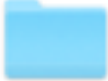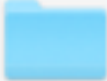
GUI

Live Reload

Documentation

- Styleguide

- Blue Mallard
  http://bluemallard.net

Integration
with WordPress

Architecture

▼ 📁 sass   --
    ▶ 📁 base   --
    ▶ 📁 components   --
    ▶ 📁 globals   --
    ▶ 📁 layouts   --
    ▶ 📁 pages   --
    📄 style.scss   331 bytes
    ▶ 📁 utils   --
    ▶ 📁 vendor   --
    📄 wp-admin-style.scss   154 bytes
    📄 wp-editor-style.scss   338 bytes

Site Styles

```css
/*
Theme Name: Screaming Fist
Author: Matt Vanderpol
Author URI: https://mattvanderpol.com
Description: Starter theme for WordPress with Sass
Version: 1.0.0
*/

@import 'vendor/index';
@import 'utils/index';
@import 'base/index';
@import 'globals/index';
@import 'layouts/index';
@import 'components/index';
@import 'pages/index';
```

Admin Styles

```scss
/**
 * Styles just for the WP Admin
 */
@import 'utils/index';

div.mce-panel {
  background: $t-editor-bg-color;
}

// Other styles for WP Admin go here
```

Editor Styles

```scss
/**
 * Styles just for the WP WYSIWYG Editor
 */
@import 'vendor/index';
@import 'utils/index';
@import 'base/index';

// Prevent issues scrolling to the bottom of a WYSIWYG
html,
body {
  height: auto;
}

body {
  // Use subtle off-white color so that white images with
  // transparent BG's show up
  background-color: $t-editor-bg-color;
}
```

3rd Party Libraries

Installation

Vendor Includes

sass/vendor/_bourbon.scss

```scss
@import '../../bower_components/bourbon/app/assets/stylesheets/bourbon';
```

sass/vendor/_include-media.scss

```scss
@import '../../bower_components/include-media/dist/include-media';
```

Examples

- bourbon

- neat

- include-media

Neat Tricks

Namespaces

`.s-[scope-name]` - Scopes (`.s-cms-content`)

`.c-[component-name]` - Components (`.c-stock`)

`.l-[layout-name]` - Layout (`.l-grid`)

http://csswizardry.com/2015/03/more-transparent-ui-code-with-namespaces/

Scopes for Cleaner Styling

Logic Behind a Mixin

```scss
@mixin js--enabled() {
  @at-root .html--js #{&} {
    @content;
  }
}
```

Logic Behind a Mixin

```scss
@mixin ie10-and-up {
  @media all and (-ms-high-contrast: none), (-ms-high-contrast: active) {
    @content
  }
}
```

Starter Theme

Screaming Fist

http://screamingfist.xyz

Barnacles

Maintaining CSS

Debugging Sass

Developer Tools

- Chrome

- Firefox

- Safari

- IE

Sourcemaps

```
h1, .b—main—heading {                    _typography.scss:7
    font-size: 5.0625em;
}

h1, h2, h3, h4, h5, h6 {                 _typography.scss:2
    margin: ▶ 0;
    padding: ▶ 0;
}

h1 {                                     _normalize.scss:49
    font-size: 2em;
    margin: ▶ 0.67em 0;
}

*, *::before, *::after {                 _base.scss:1
    box-sizing: border-box;
}

h1 {                                     user agent stylesheet
    display: block;
    font-size: 2em;
}
```

Development vs Production

Local Development

Debug Mode

Versioning

- In development
- In production

CSS Files

	style-dev.css	41 KB
	style-prod.css	3 KB

Parent/Child Themes

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- Create sample/starter child theme in parent theme

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- Keep Sass in the child theme, not in the parent theme

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- Create sample/starter child theme in parent theme

- Keep Sass in the child theme, not in the parent theme

- Keep shared functionality (PHP) in the parent theme

Linting

What is PostCSS

Tools

- autoprefixer

- cssnano

Wrap Up

Thanks

@bookwyrm
https://mattvanderpol.com
http://screamingfist.xyz