

Generate a  
Living Style Guide  
from CSS

# Personal



# Professional

Full Stack  
Development  
Consultant

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# Stories



# Robert N





# Robert Y



# Resonate?

# Roadmap

What

Examples

Generate

Sustain

What is a  
Living Style Guide

# Style



# Guide





Living

# Similar Concepts

# Similar Concepts

Pattern Library

Design System

# Pattern Library

“A pattern library is a collection of front-end code that creates a component part of the overall design of the page. It is ‘the what’ of the website. If you need to use a carousel this is ‘what’ code you would use.”

# Design System

“From typography, layouts and grids, colors, icons, components and coding conventions, to voice and tone, style-guide and documentation, a design system is bringing all of these together in a way that allows your entire team to learn, build, and grow.”

# Relation

Design System

Style Guide

Pattern Library

# Key Features and Benefits

A photograph of a person from behind, wearing a dark green hoodie, looking out over a landscape at night. The sky is filled with stars, and a dark silhouette of trees is visible against the bright horizon.



# Common Language



# Composable



# Versioned



# Single Source of Truth

# Examples of Living Style Guides

# Rizzo



“we [created a maintainable style guide] by making the Style Guide an integral part of our development workflow”

# Design Elements

 Design Eleme...

Design Elements UI Components JS Components Widgets CSS Utilities

**DESIGN**

- Design Palette
- UI Colours
- Destination Next Colors
- Typography

**ICONS**

- Destination
- Interests
- Interface
- Need to Know
- Weather

## Colour Palette

This is the primary and secondary colour palettes as described in the PSD styleguide and in [colour\\_palette.sass](#)

**GRAY PALETTE**

#2c3643	#3b444f	#67747c	#99a9b3	#dbe6ec
\$darkgray	\$titlegray	\$bodygray	\$lightgray	\$subdusgray

**PRIMARY PALETTE**

#142b44	#1d508d	#297CBB	#2B8ad6	#0FDEBD
\$darkblue	\$navblue	\$lpblue	\$linkblue	\$teal
#16c98d	#feef6d	#ffc83f	#fa5e5b	#bf538d
\$green	\$yellow	\$orange	\$red	\$plum

# Design Elements

**DESIGN**

- Design Palette >
- UI Colours >
- Destination Next Colors >
- Typography > selected

**ICONS**

- Destination >
- Interests >
- Interface >
- Need to Know >
- Weather >

## Typography

We achieve styling through opt in classes and do not style elements globally. This is to reduce the number of style collisions across projects. Elements can inherit styles from `.copy--body` or otherwise applied directly.

Typographic elements **do not come with any margins attached to them** in order to make them more flexible in where they can be used.

They get margins when they are inside a wrapper with a class of `context--content`. We may need to work on the naming but the principle is solid.

HEADINGS: (12.999979972839355px)

The quick, brown fox (31.999940872192383px) h1

The quick, brown fox (19.999980926513672px) h2

The quick, brown fox (17.999940872192383px) h3

The quick, brown fox (16.00004005432129px) h4

THE QUICK, BROWN FOX (11.999959948678711px) h5

HEADINGS WITHIN A PARENT OF `.THEME--DARK`: (12.999979972839355px)

The quick, brown fox (31.999940872192383px)

# Design Elements

Design Eleme...

Design Elements UI Components JS Components Widgets CSS Utilities

DESIGN

- Design Palette >
- UI Colours >
- Destination Next Colors >
- Typography >

ICONS

- Destination >   
malaysia\_peninsular-malaysia\_west-coast\_georgetown
- Interests >   
malaysia\_kuala-lumper
- Interface >   
brazil\_rio-de-janeiro
- Need to Know >   
brazil\_costa-verde
- Weather >   
cuba
- chile\_northern-chile\_san-pedro-de-atacama 
- fiji 
- usa\_rocky-mountains-rocky-mountain-national-park 
-   
india\_mumbai
-   
india\_moscow
-   
singapore
-   
usa\_chicago

Find icon header-grey

# Utilities

 **CSS Utilities**

**GRIDS**

- Proportional Grid >
- Responsive Grid >

**CLASSES**

- General >
- Legacy Support >
- No Javascript >
- LP Specific >
- Responsive >

**PLACEHOLDERS**

- General >
- LP Specific >
- Icons >

**MIXINS**

- Responsive >
- Utility Mixins >

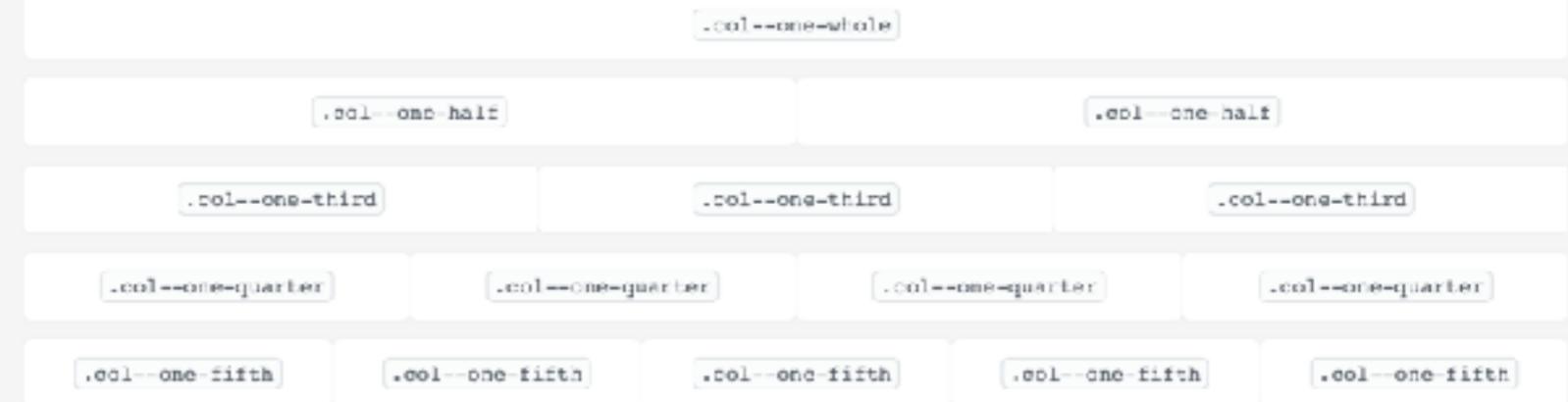
Design Elements UI Components JS Components Widgets **CSS Utilities**

## Proportional Grid

The main grid in waldorf is based on the width of one card. Landing pages more often use this proportional grid.

**N.b. The card appearance is applied separately - grid class only provide dimensions**

### Proportional Grid with a 0 pixel gutter (.grid-wrapper--0)



.col--one-whole  
.col--one-half  
.col--one-third  
.col--one-quarter  
.col--one-fifth

### Proportional Grid with a 10 pixel gutter (.grid-wrapper--10)



.col--one-whole  
.col--one-half  
.col--one-third  
.col--one-quarter  
.col--one-fifth

# Performance Monitoring

Stylesheet	Size	Gzipped	30 Day	7 Day	1 Day
Community	187kb	29kb	↑ 5.6%	0%	0%
Common Core	117kb	23kb	0%	0%	0%
Fonts	90kb	68kb	0%	0%	0%
Hotels	70kb	14kb	0%	0%	0%
Car Rental	69kb	14kb	0%	0%	0%
Flights	68kb	14kb	0%	0%	0%
Luna	68kb	13kb	0%	0%	0%
Sightseeing Tours	65kb	13kb	0%	0%	0%
Adventure Tours	64kb	13kb	0%	0%	0%
Search	37kb	4kb	0%	0%	0%
Homepage	24kb	4kb	↑ 9.1%	↑ 9.1%	0%



Primer

# GitHub

“Primer is GitHub’s internal CSS framework. It includes basic global styling for typography, small components like buttons and tabs, and our general guidelines for writing HTML and CSS. It’s been used internally at GitHub for years now.”

# Components

## Primary

Primary buttons are green and are used to indicate the *primary* action on a page. When you need your buttons to stand out, use `.btn.btn-primary`. You can use it with both button sizes—just add `.btn-primary`.

`Primary button` `Small primary button`

```
<button class="btn btn-primary" type="button">Primary button</button>
<button class="btn btn-sm btn-primary" type="button">Small primary button</button>
```

## Danger

Danger buttons are red. They help reiterate that the intended action is important or potentially dangerous (e.g., deleting a repo or transferring ownership). Similar to the primary buttons, just add `.btn-danger`.

`Danger button` `Small danger button`

```
<button class="btn btn-danger" type="button">Danger button</button>
<button class="btn btn-sm btn-danger" type="button">Small danger button</button>
```

## Outline

Outline buttons downplay an action as they appear like boxy links. Just add `.btn-outline` and go.

`Outline button` `Outline button`

# Versioned

Copyright GitHub 2016.

Created and maintained by the CSS team at  
GitHub. **Currently v4.0.1.**



# Code Guidelines

## HTML

### General formatting

- Use soft-tabs with a two space indent. Spaces are the only way to guarantee code renders the same in any person's environment.
- Paragraphs of text should always be placed in a `<p>` tag. Never use multiple `<br>` tags.
- Items in list form should always be in `<ul>`, `<ol>`, or `<dl>`. Never use a set of `<div>` or `<p>`.
- Every form input that has text attached should utilize a `<label>` tag. **Especially radio or checkbox elements.**
- Even though quotes around attributes is optional, always put quotes around attributes for readability.
- Avoid writing closing tag comments, like `<!-- /.element -->`. This just adds to page load time. Plus, most editors have indentation guides and open-close tag highlighting.
- Avoid trailing slashes in self-closing elements. For example, `<br>`, `<hr>`, `<img>`, and `<input>`.
- Don't set `tabindex` manually—rely on the browser to set the order.

```
<p class="line-note" data-attribute="106">  
  This is my paragraph of special text.  
</p>
```

# CSS Dev Conf 2016

<http://bluemallard.net>

## Blue Mallard

- 0 Overview
- 1 Colors
- 2 Tokens
- 3 Sass
- 4 Base
- 5 Buttons
- 6 Components
- 7 Layouts
- 8 Globals
- 9 Navigation
- 10 Vendor Libraries

## Blue Mallard

A sample Living Style Guide based on the [2016 CSS Dev Conf website](#).

### Version 0.5.0

### Git Repo

<https://github.com/bookwym/bluemallard>

### Class Namespaces

sg - style guide styles  
b - base styles  
c - components  
l - layouts  
t - global tokens  
lt - local tokens

### Statuses

Patterns can be tagged with a status which should be one of the following:

[Experimental](#) - the pattern is still being developed  
[Stable](#) - the pattern is complete and ready for usage  
[Deprecated](#) - the pattern has been deprecated and should no longer be used

# How to Generate a Living Style Guide

# Starting a Living Style Guide

# Starting a Living Style Guide



# Starting a Living Style Guide



# Setup





# kss-node



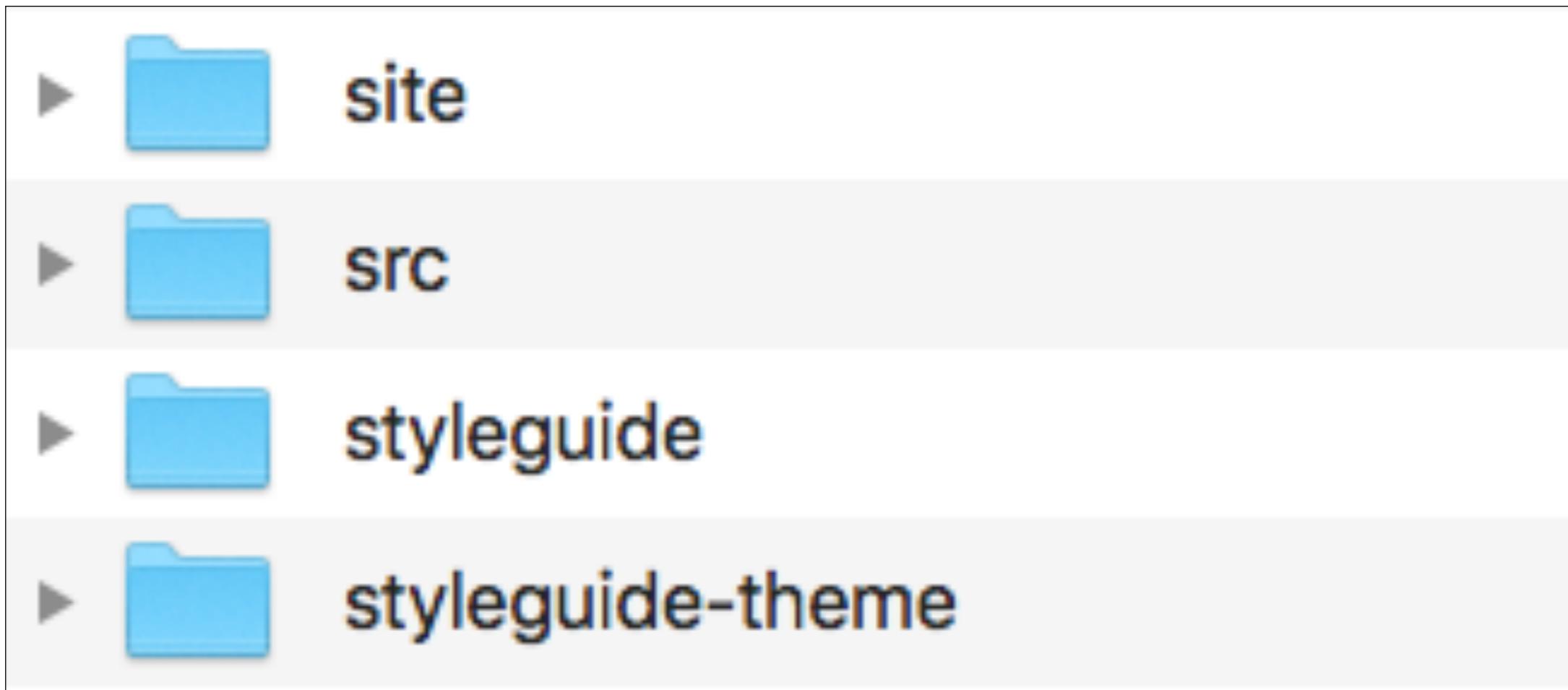
A Spec for Docs



A Preprocessor & JS API



# Project Architecture





# Two CSS Files

- ▶  base
- ▶  components
- ▶  globals
- ▶  homepage.md
- ▶  layouts
- ▶  navigation
- ▶  styleguide
  - ▶  styleguide.scss
  - ▶  styles.scss
- ▶  utils
- ▶  vendor



# Styleguide Overview

- ▶  base
- ▶  components
- ▶  globals
- ▶  homepage.md
- ▶  layouts
- ▶  navigation
- ▶  styleguide
- ▶  styleguide.scss
- ▶  styles.scss
- ▶  utils
- ▶  vendor



# Styleguide Overview

```
# Blue Mallard
```

A sample Living Style Guide based on the [2016 CSS Dev Conf website](<http://2016.cssdevconf.com>).

```
## Version 0.5.0
```

```
## Git Repo
```

```
<https://github.com/bookwyrn/bluemallard>
```

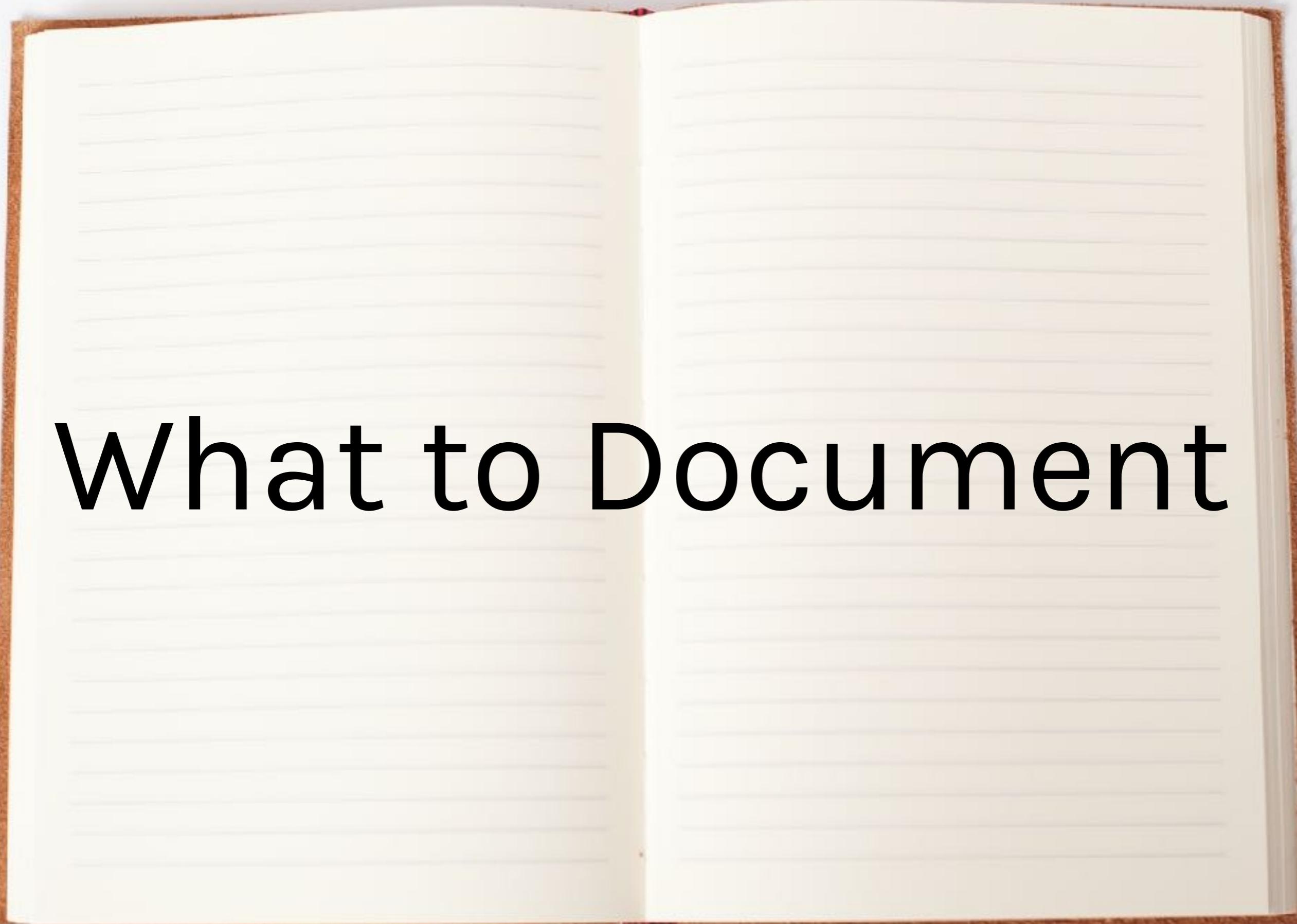
```
## Class Namespaces
```

- \* `sg-` style guide styles
- \* `b-` base styles
- \* `c-` components
- \* `l-` layouts
- \* `t-` global tokens
- \* `lt-` local tokens

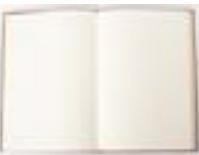
```
## Statuses
```

Patterns can be tagged with a status which should be one of the following:

- \* `Experimental` – the pattern is still being developed
- \* `Stable` – the pattern is complete and ready for usage
- \* `Deprecated` – the pattern has been deprecated and should no longer be used

An open notebook with two blank, lined pages. The pages are cream-colored with light blue horizontal ruling. The notebook has a dark brown cover visible around the edges. The title "What to Document" is centered over the right page.

# What to Document



# Colors

## Section 1

### Colors

These are named colors that are a part of the color palette or tint stack for the design. Colors should be named by how they look, not by where they are used.

#### Example

#fff  
\$color--white

#4dbd90  
\$color--green

#489fd9  
\$color--blue

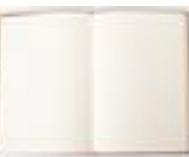
#be3229  
\$color--brick

#581a19  
\$color--maroon

#ccc  
\$color--grey-ccc



# Tokens/Variables



# Tokens/Variables

Section 2

## Tokens

Tokens are named values that are used in the site to allow a common value to be shared. Their names should be based (for the most part) on where/how they are used rather than what they look like.

Source: sass/utils/variables/\_tokens.scss, line 1

Section 2.1

## Color Tokens

Color tokens reference specific named colors but they themselves should be named based on where/how they are used, rather than being descriptive of their color.

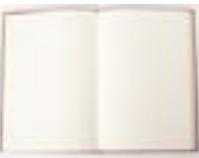
### Example



#333  
\$t-text-color



#666  
\$t-text-color--medium



# Tokens/Variables

Section 2.2

## Font/Text Tokens

Tokens related to fonts or text styling

### Example

```
$t-font-family: Arial, sans-serif  
$t-font-family--primary: Roboto, Arial, sans-serif  
$t-font-family--secondary: Roboto Slab, Arial, sans-serif  
$t-font-family--accent: Oswald, sans-serif  
$t-font-family--condensed: Roboto Condensed, Arial, sans-serif  
$t-font-size: 16px  
$t-line-height: 22px
```

Source: sass/utils/variables/\_tokens.scss, line 89



# Tokens/Variables

Section 2.3

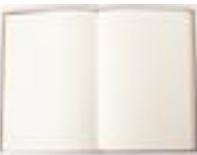
## Dimensional Tokens

Tokens with dimensional values

### Example

```
$t-nav-height: 70px  
$t-section-padding: 70px
```

Source: sass/utils/variables/\_tokens.scss, line 131



# Mixins/Functions

Section 3.2.1.4

## **condensed-font-loaded**

Selector wrapper to apply styles only when the condensed font is loaded.

Compatible in all browsers.

Source: `sass/utils/_mixins.scss`, line 54

Section 3.2.1.5

## **font-weight**

Centralize font weights in one place, in case they need to be tweaked for specific fonts.

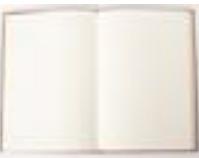
Compatible in all browsers.

### **Parameters:**

`$weight` The named weight (light, normal, bold, heavy)

`$font` The name of the font (Roboto, Roboto Slab, Oswald)

Source: `sass/utils/_mixins.scss`, line 69



# Base Elements/Classes

## Section 4.1

### Image

A basic image. Images are "fluid" by default and will resize down to fit the width of their container

#### Example

A small gray placeholder image with dimensions 350x150.

350x150

```
<div style="width: 200px"></div>
```

Source: sass/base/\_base.scss, line 73

## Section 4.2

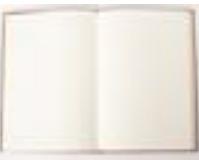
### Link

A basic link

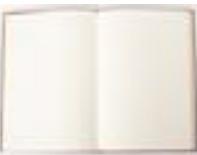
#### Example

Click Me!

```
<a href="#">Click Me!</a>
```



# “Patterns”



# “Patterns”

## Section 6.2 **Speaker**

A speaker headshot.

### Example

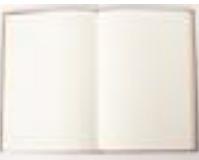


Chris Coyier

Featured Speaker

```
<div class="c-speaker">
  <div class="c-speaker__media">
    <a href="c-speaker__link">
  <div class="c-speaker__body">
    <h3 class="c-speaker__name">Chris Coyier</h3>
    <p class="c-speaker__byline">Featured Speaker</p>
  </div>
</div>
```

Source: sass/components/\_speaker.scss, line 1



# “Patterns”

Section 8.2

## Site Logo

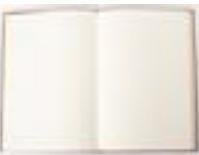
The logo for the site

### Example

#### CSS Dev Conf

```
<div class="g-logo">CSS Dev Conf</div>
```

Source: sass/globals/\_logo.scss, line 4



# “Patterns”

Section 7.3.2

## 3-up Grid

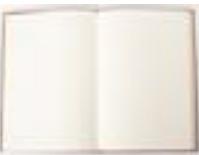
For a 3-up grid

### Example



```
<div class="l-grid l-grid--3-up">
  <div class="l-grid__item"><div class="sg-helper__cell"></div></div>
  <div class="l-grid__item"><div class="sg-helper__cell"></div></div>
</div>
```

Source: sass/layouts/\_grid.scss, line 36



# “Patterns”

## Section 9.1

### Primary Navigation

The top navigation on the site.

#### Example

Speakers   Details   Hotel & Venue   Sponsors   Register

```
<nav class="c-nav c-nav--primary">
  <ul class="c-nav__group">
    <li class="c-nav__item is-active"><a href="#Speakers" class="c-nav__link">Speakers</a>
    <li class="c-nav__item"><a href="#Details" class="c-nav__link">Details</a>
    <li class="c-nav__item"><a href="#HotelVenue" class="c-nav__link">Hotel & Venue</a>
    <li class="c-nav__item"><a href="#Sponsors" class="c-nav__link">Sponsors</a>
    <li class="c-nav__item"><a href="#Register" class="c-nav__link">Register</a>
  </ul>
</nav>
```

Source: sass/navigation/\_primary.scss, line 8

# Vendor Libraries

Section 10

## Vendor Libraries

Some libraries from third parties are imported to provide behavior/capabilities

Source: `sass/_kss-headings.scss`, line 47

Section 10.1

### normalize

For normalized styles across browsers: <http://github.com/necolas/normalize.css>

Source: `sass/vendor/_normalize.scss`, line 1

Section 10.2

### Bourbon

A simple and lightweight mixin library for Sass: <http://bourbon.io>

Source: `sass/vendor/_bourbon.scss`, line 1

# Pattern Status

Section 5.1

## Default Button

Stable

A default button style

Example

Click Here

```
<a href="#" class="c-button">Click Here</a>
```

Source: sass/components/\_buttons.scss, line 7

Section 5.2

## Ghost Button

Experimental

Let's the background show through

Example

Click Here

```
<a href="#" class="c-button c-button--ghost">Click Here</a>
```

Source: sass/components/\_buttons.scss, line 50



Documenting Patterns



# Anatomy of a Pattern

```
// h1
//
// Main heading
//
// Markup:
// <h1 class="b-main-heading">A Main Heading</h1>
//
// Status: Stable
//
// Styleguide Base.Headings.h1
h1,
.b-main-heading {
```



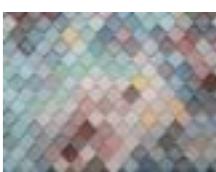
# Name

```
// h1
//
// Main heading
//
// Markup:
// <h1 class="b-main-heading">A Main Heading</h1>
//
// Status: Stable
//
// Styleguide Base.Headings.h1
h1,
.b-main-heading {
```



# Description

```
// h1
//
// Main heading
//
// Markup:
// <h1 class="b-main-heading">A Main Heading</h1>
//
// Status: Stable
//
// Styleguide Base.Headings.h1
h1,
.b-main-heading {
```



# Markup

```
// h1
//
// Main heading
//

// Markup:
// <h1 class="b-main-heading">A Main Heading</h1>
//
// Status: Stable
//
// Styleguide Base.Headings.h1
h1,
.b-main-heading {
```



# Status

```
// h1
//
// Main heading
//
// Markup:
// <h1 class="b-main-heading">A Main Heading</h1>
//
// Status: Stable
//
// Styleguide Base.Headings.h1
h1,
.b-main-heading {
```

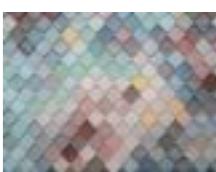


# “Relationship”

```
// h1
//
// Main heading
//
// Markup:
// <h1 class="b-main-heading">A Main Heading</h1>
//
// Status: Stable
//
// Styleguide Base.Headings.h1
h1,
.b-main-heading {
```



# Pattern Markup



# Inline

```
// h1
//
// Main heading
//

// Markup:
// <h1 class="b-main-heading">A Main Heading</h1>
//
// Status: Stable
//
// Styleguide Base.Headings.h1
h1,
.b-main-heading {
```



# External

```
//  
// Markup: button.hbs  
//
```

```
<a href="{{#if  
button-href}}{{button-href}}{{else}}#{{/if}}"  
class="c-button {{button-classes}}">{{#if  
button-text}}{{button-text}}{{else}}Click  
Here{{/if}}</a>
```



# Partial with Args

```
// Markup:  
// {{> button button-classes="c-button--ghost"}}
```

```
<a href="{{#if  
button-href}}{{button-href}}{{else}}#/{{/if}}"  
class="c-button {{button-classes}}">{{#if  
button-text}}{{button-text}}{{else}}Click  
Here{{/if}}</a>
```

# Generation and Deployment



# “Tricky Parts”





# Colors

## Section 1

### Colors

These are named colors that are a part of the color palette or tint stack for the design. Colors should be named by how they look, not by where they are used.

#### Example



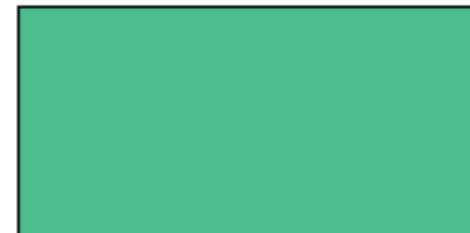
#333  
\$color--gray-333



#666  
\$color--gray-666



#fff  
\$color--white



#4dbd90  
\$color--green

## Section 2

### Color Tokens

Color tokens reference specific named colors but they themselves should be named based on where/how they are used, rather than being descriptive of their color.

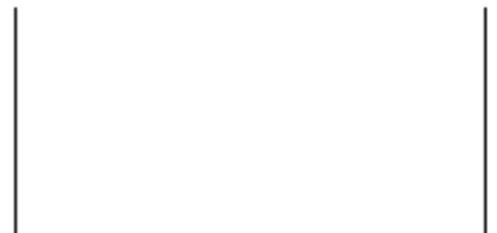
#### Example



#333  
\$t-text-color



#666  
\$t-text-color--medium



#fff  
\$t-text-color--reverse



#4dbd90  
\$t-color--active



# Defining Sections



# Individual Files

```
// Buttons
//
// Most buttons are simply sized to fit their content with some level of padding
//
// Styleguide Buttons

// Default Button
//
// A default button style
//
// Markup: button.hbs
//
// Weight: 1
//
// Status: Stable
//
// Styleguide Buttons.Default
```



# \_kss-headings.scss

```
/* Colors section is defined in utils/variables/_colors.scss - Weight: -100 */

/* Tokens section is defined in utils/variables/_tokens.scss - Weight: -90 */

// Sass
//
// Weight: -50
//
// Styleguide: Sass

/* Base section is defined in base/_base.scss - Weight: -20 */

/* Buttons section is defined in components/_buttons.scss - Weight: 1 */

// Components
//
// Some info about components
//
// Weight: 10
//
// Styleguide Components
```



# Custom Styleguide Theme

How to keep a  
Living Style Guide  
Alive

A long-exposure photograph of a flowing stream. The water is smooth and blue, flowing from the background towards the foreground. Large, light-colored rocks are scattered along the stream bed and banks. The surrounding environment is dense green forest. The overall mood is serene and natural.

# Workflow



# Primary Reference Doc



# Cross Browser Testing



# Visual Regression Testing

# Make it Easy





# Easy to Access



# Easy to Update



# Easy to Consume

# Meta Documentation





# Versioned Releases



# Changelog



# Release Promotion

# In Closing

