

Views with Attitude

Introducing Sass, Austin on Rails, May 24, 2011

@soopa

Designer & Developer at Gowalla



I ♥ Sass

I ♥ SCSS

```
// .sass
body
  background-color: #fff;
```

```
// .scss
body {
  background-color: #fff;
}
```



Sass is not Hamli



Sass is not Compass

Sass 101

Variables

```
$blue: #39b2e5;  
$baseline: 20px !default;  
  
hgroup h1 {  
  color: $blue;  
  margin-bottom: $baseline;  
}
```



```
$baseline: 20px !default;
```

```
baseline ||= '20px'
```

Math

```
$blue: #39b2e5;
```

```
$baseline: 20px !default;
```

```
hgroup h1 {
```

```
  color: $blue;
```

```
  margin-bottom: $baseline * 2;
```

```
}
```

Nested Selectors

```
hgroup {  
  font-weight: bold;  
  h1 {  
    color: $blue;  
    font-family: Georgia;  
    font-size: 24px;  
    margin-bottom: $baseline * 2;  
  }  
  h2 {  
    font-family: Helvetica;  
    font-size: 18px;  
  }  
}
```

Nested Rules

```
hgroup {  
  font-weight: bold;  
  h1 {  
    color: $blue;  
    font {  
      family: Helvetica;  
      size: 24px;  
    }  
    margin-bottom: $baseline * 2;  
  }  
  h2 {  
    font {  
      family: Helvetica;  
      size: 18px;  
    }  
  }  
}
```

Mixins

```
@mixin heading($size, $family: Helvetica, $weight: bold, $color: inherit) {  
  color: $color;  
  font: $weight $size $family;  
}
```

```
hgroup {  
  h1 {  
    @include heading($size: 24px, $family: Georgia, $color: $blue);  
    margin-bottom: $baseline * 2;  
  }  
  h2 { @include heading(18px); }  
}
```

Extend

```
hgroup {  
  h1 {  
    @include heading($size: 24px, $family: Georgia, $color: $blue);  
    margin-bottom: $baseline * 2;  
  }  
  h2 { @include heading(18px); }  
  h3:first-child { @extend h1; }  
}
```

Parent Selectors

```
hgroup {  
  h1 {  
    @include heading($size: 24px, $family: Georgia, $color: $blue);  
    margin-bottom: $baseline * 2;  
  }  
  h2 { @include heading(18px); }  
  h3:first-child {  
    @extend h1;  
    // crazy client demands H3's on the homepage be underlined  
    body.home & { text-decoration: underline; }  
  }  
}
```

Functions

```
hgroup {  
  h1 {  
    @include heading($size: 24px, $family: Georgia, $color: $blue);  
    margin-bottom: $baseline * 2;  
  }  
  h2 { @include heading(18px); }  
  h3:first-child {  
    @extend h1;  
    // crazy client demands H3's on the homepage be underlined AND darker!?  
    body.home & {  
      text-decoration: underline;  
      color: darken($blue, 25%);  
    }  
  }  
}
```


Control Directives

```
hgroup {
  h1 {
    @include heading($size: 24px, $family: Georgia, $color: $blue);
    margin-bottom: $baseline * 2;
  }
  h2 { @include heading(18px); }
  h3:first-child {
    @extend h1;
    // crazy client demands H3's on the homepage be underlined AND darker!?
    body.home & {
      text-decoration: underline;
      color: darken($blue, 25%);
      // crazy client wants `-webkit-slightly-escalating-text` too!
      @for $i from 1 through 5 {
        .char#{$i} { top: -$i * 2; }
      }
    }
  }
}
```

Control Directives

```
$environment: staging;
```

```
@if $environment != production {  
  // crazy client demands H3's on the homepage be underlined AND darker!?  
  body.home & {  
    text-decoration: underline;  
    color: darken($blue, 25%);  
    // now he wants -webkit-slightly-escalating-text too!  
    @for $i from 1 through 5 {  
      .char#{$i} { top: -$i * 2; }  
    }  
  }  
}
```

Template Chaining

```
// main.css.scss.erb
$environment: <%= Rails.env %>;

@if $environment != production {
  // crazy client demands H3's on the homepage be underlined AND darker!?
  body.home & {
    text-decoration: underline;
    color: darken($blue, 25%);
    // now he wants -webkit-slightly-escalating-text too!
    @for $i from 1 through 5 {
      .char#{$i} { top: -$i * 2; }
    }
  }
}
```

Interpolation

```
// main.css.scss.erb
$environment: <%= Rails.env %>;

@if $environment != production {
  // crazy client demands H3's on the homepage be underlined AND darker!?
  body.home & {
    text-decoration: underline;
    color: darken($blue, 25%);
    // now he wants -webkit-slightly-escalating-text too!
    @for $i from 1 through 5 {
      .char#{$i} { top: -$i * 2; }
    }
  }
}
```

Quiet Comments

```
// main.css.scss.erb
$environment: <%= Rails.env %>;

@if $environment != production {
  // crazy client demands H3's on the homepage be underlined AND darker!?
  body.home & {
    text-decoration: underline;
    color: darken($blue, 25%);
    // now he wants -webkit-slightly-escalating-text too!
    @for $i from 1 through 5 {
      .char#{$i} { top: -$i * 2; }
    }
  }
}
```

Compiling

```
$blue: #39b2e5;
$baseline: 20px !default;
$environment: <%= Rails.env %>;

@mixin heading($size, $family: Helvetica, $weight: bold, $color: inherit) {
  color: $color;
  font: $weight $size $family;
}

hgroup {
  h1 {
    @include heading($size: 24px, $family: Georgia, $color: $blue);
    margin-bottom: $baseline * 2;
  }
  h2 { @include heading(18px); }
  h3:first-child {
    @extend h1;
    @if $environment != production {
      // crazy client demands H3's on the homepage be underlined AND darker!?
      body.home & {
        text-decoration: underline;
        color: darken($blue, 25%);
        // now he wants -webkit-slightly-escalating-text too!
        @for $i from 1 through 5 {
          .char#{$i} { top: -$i * 2; }
        }
      }
    }
  }
}
```

```
hgroup h1, hgroup h3:first-child { color: blue; font: bold 24px Georgia; margin-bottom: 40px; }
hgroup h2 { color: inherit; font: bold 18px Helvetica; }
body.home hgroup h3:first-child { text-decoration: underline; color: #12688c; }
body.home hgroup h3:first-child .char1 { top: 2; }
body.home hgroup h3:first-child .char2 { top: 4; }
body.home hgroup h3:first-child .char3 { top: 6; }
body.home hgroup h3:first-child .char4 { top: 8; }
body.home hgroup h3:first-child .char5 { top: 10; }
```



```
Sass::Plugin.options[:never_update] = true
```

```
`sass source:destination --style compressed`
```

```
`sass --watch app/sass:public/css`
```

`_partial.scss`

`file.scss`

Sass Tips

The Inception Rule

```
header {  
  nav {  
    height: 40px;  
    ul {  
      margin: 10px 0;  
      li {  
        float: left;  
        a {  
          border-bottom: 1px solid #ccc;  
          display: inline-block;  
        }  
      }  
    }  
  }  
}
```

The Inception Rule

```
header {  
  li {  
    float: left;  
    a {  
      border-bottom: 1px solid #ccc;  
      display: inline-block;  
      height: 40px;  
      padding: 10px 0;  
    }  
  }  
}
```

Alphabetize Properties

```
input {  
  color: #666;  
  height: 24px;  
  width: 190px;  
  padding: 0 10px 0 25px;  
  border: none;  
  outline: none;  
  width: 180px!important;  
}
```


Alphabetize Properties

```
input {  
  border: none;  
  color: #666;  
  height: 24px;  
  outline: none;  
  padding: 0 10px 0 25px;  
  width: 190px;  
}
```

Single Line Rule

```
ul { list-style-type: none; }
```

Create a Styleguide

// Typography

```
$base-font-size: 16px;  
$base-line-height: 20px;
```

```
$font-size-s: 12px;  
$font-size-m: 13px;  
$font-size-l: $base-font-size;  
$font-size-xl: 18px;  
$font-size-xxl: 24px;
```

// Colors

```
$white: #ffffff;  
$black: #202020;
```

```
$light-gray: #b3b3b3;  
$gray: #838383;  
$dark-gray: #525252;
```

```
$orange: #ff920d;  
$yellow: #ffe573;  
$green: #339922;
```



Installation

```
gem 'compass'
```

```
`compass init rails`
```

Mixin Library

```
@import "compass/css3";

article {
  @include box-sizing(border-box);
  @include border-radius(5px);
  @include box-shadow($gray, 0, 1px, 0);
  background-color: $light-gray;
}
```

CSS Frameworks

```
@import "blueprint/grid";
@import "compass/css3";

$blueprint-grid-columns: 12;
$blueprint-grid-margin: 20px;
$blueprint-grid-width: 60px;

article {
  @include box-sizing(border-box);
  @include border-radius(5px);
  @include box-shadow($gray, 0, 1px, 0);
  @include column(8);
  background-color: $light-gray;
}
```

```
article {
-moz-box-sizing: border-box;
-webkit-box-sizing: border-box;
-ms-box-sizing: border-box;
box-sizing: border-box;
-moz-border-radius: 5px;
-webkit-border-radius: 5px;
-o-border-radius: 5px;
-ms-border-radius: 5px;
-khtml-border-radius: 5px;
border-radius: 5px;
-moz-box-shadow: 0 1px 0 #838383;
-webkit-box-shadow: 0 1px 0 #838383;
-o-box-shadow: 0 1px 0 #838383;
box-shadow: 0 1px 0 #838383;
display: inline;
float: left;
margin-right: 20px;
width: 300px;
background-color: #b3b3b3;
}
* html article {
overflow-x: hidden;
}
```


Automatic Spriting

public/icons/social/

dribbble.png

facebook.png

flickr.png

twitter.png



Automatic Spriting

```
@import "icons/social/*.png";

nav a {
  .dribbble { @include social-sprite(dribbble); }
  .facebook { @include social-sprite facebook); }
  .flickr    { @include social-sprite(flickr);   }
  .twitter   { @include social-sprite(twitter);  }
}
```

Automatic Spriting

```
.social-sprite, nav a.dribbble, nav a.facebook, nav a.flickr, nav a.twitter {  
  background: url('/images/icons/social.png') no-repeat;  
}
```

```
nav a.dribbble {  
  background-position: 0 0;  
}
```

```
nav a.facebook {  
  background-position: 0 -48px;  
}
```

```
nav a.flickr {  
  background-position: 0 -96px;  
}
```

```
nav a.twitter {  
  background-position: 0 -144px;  
}
```



Automatic Spriting

```
@import "icons/social/*.png";

nav a {
  .dribbble { @include social-sprite(dribbble); }
  .facebook { @include social-sprite facebook); }
  .flickr    { @include social-sprite(flickr);   }
  .twitter   { @include social-sprite(twitter);  }
}
```

Automatic Spriting

```
@import "icons/social/*.png";

nav a {
  @each $file in dribbble, facebook, flickr, twitter {
    &.#{$file} { @include social-sprite($file); }
  }
}
```

Helpers

```
input[type=search] {  
  background: {  
    image: image-url('icons/spyglass.png');  
    position: left center;  
    repeat: no-repeat;  
  }  
}
```

Helpers

```
input[type=search] {  
  background: {  
    image: url('/images/icons/spyglass.png');  
    position: left center;  
    repeat: no-repeat;  
  }  
}
```

Inline Data

```
input[type=search] {  
  background: {  
    image: inline-image('icons/spyglass.png');  
    position: left center;  
    repeat: no-repeat;  
  }  
}
```


Inline Data

```
input[type=search] {  
  background-image: url('  
mpwYAAABS0lEQVQ4EZWSPS9EQRSGd3YjYmu7+wdQaLZAsEGjligU21ESiUqhI1GIXyKi4RewKBQSWiK  
xIioiIb4auZ537xkZ4ybsSZ45c77euXPvdUmS5Lw55zrZj8MQFOEcGvQ84LNNAiZSo  
+MEpBjSJJ71fbH3w6M0PdrGpN4ZFmELPkGCC/  
GwYlkXnIKiNSiEjcTT8AJP0BfWvMAkBQ0fgIsbrGnDeIbjep7CCMj2KKbPlMbhumvBYJjUXgJ627L31  
GwuH5btiKsSOLPkRFwMYn0h2WXqfq7dhHegU6bi05LrgWt4g9qvul17jqLu/  
wrrMAxVmAcNq3YD5UwBE1mi4dmaNRBya3EDXwpFwp  
+NZMv4lfvZ1GEA9MIuYAeuYBvG4BBmELnHc4z9yn95WstwpBH4fpJ/C  
+gATCLH4EUqbQmYSCUQWlbwERKiGxC7xd6NW0WLGy4BwAAAABJRU5ErkJggg==' );  
  background-position: left center;  
  background-repeat: no-repeat;  
}
```




```
        hgroup h1, hgroup h3:first-child {
color: #39b2e5;
font: bold 24px Georgia;
margin-bottom: 40px;
}
hgroup h2 {
color: inherit;
font: bold 18px Helvetica;
}
body.home hgroup h3:first-child {
text-decoration: underline;
color: #12688c; }
body.home hgroup h3:first-child .char1 {
top: -2;
}
body.home hgroup h3:first-child .char2 {
top: -4;
}
body.home hgroup h3:first-child .char3 {
top: -6;
}
body.home hgroup h3:first-child .char4 {
top: -8;
}
body.home hgroup h3:first-child .char5 {
top: -10;
}
article {
-moz-box-sizing: border-box;
-webkit-box-sizing: border-box;
-ms-box-sizing: border-box;
box-sizing: border-box;
-moz-border-radius: 5px;
-webkit-border-radius: 5px;
-o-border-radius: 5px;
-ms-border-radius: 5px;
-khtml-border-radius: 5px;
border-radius: 5px;
-moz-box-shadow: 0 1px 0 #838383;
-webkit-box-shadow: 0 1px 0 #838383;
-o-box-shadow: 0 1px 0 #838383;
box-shadow: 0 1px 0 #838383;
display: inline;
float: left;
margin-right: 20px;
width: 620px;
background-color: #b3b3b3;
}
* html article {
overflow-x: hidden;
}
.social-sprite, nav a.dribbble, nav a.facebook, nav a.flickr, nav a.twitter {
background: url('/images/icons/social-07817f34f2.png') no-repeat;
}
nav a.dribbble {
background-position: 0 0;
}
nav a.facebook {
background-position: 0 -48px;
}
nav a.flickr {
background-position: 0 -96px;
}
nav a.twitter {
background-position: 0 -144px;
}
input[type=search] {
background-image: url('
Q84LNNa1ZSo+MEpBjSJJ71fbH3w6M0PdrGpN4ZFmELPkGCC/GwYlkXnIKiNSiEjcTT8AJp0BfWvMAkBQ0fgIsbrGnDe1bjep7CCMj2KKbP1MbhumvBYJjUXgJ627L31GWuH5btiKsS0LPkRFwMYn0h2WXqfq7dhHegU6bi05LrgWt4g9qvul17jqLu/
wrrMAxVmAcNq3YD5UwBE1mi4dmaNRBya3EDXwpFwp+NZMv41fvZ1GEA9MIuYAeuYBvG4BBmELnHc4z9yn95WstwpBH4fpJ/C+gATCLH4EUqbQmYSCUQWw1bwERKiGxC7xd6NW0WL Gy4BwAAAABJRUSerkJggg==');
background-position: left center;
background-repeat: no-repeat;
}
}
```

Sass in Rails

Organize

```
└─ app
    └─ assets/
        └─ stylesheets/
```

```
└─ stylesheets
    └─ components
    └─ config
    |   └─ _base.scss
    |   └─ _environment.scss.erb
    |   └─ _styleguide.scss
    └─ lib
        └─ _functions.scss
        └─ _mixins.scss
    └─ application.css
    └─ home.css.scss
```


config/_base.scss

```
@import "environment";
```

```
@import "styleguide";
```

```
@import "../lib/mixins";
```

main.scss.erb

```
@import "config/base";

hgroup {
  h1 {
    @include heading($size: 24px, $family: Georgia, $color: $blue);
    margin-bottom: $baseline * 2;
  }
  h2 { @include heading(18px); }
  h3:first-child {
    @extend h1;
    @if $environment != production {
      // crazy client demands H3's on the homepage be underlined AND darker!?
      body.home & {
        text-decoration: underline;
        color: darken($blue, 25%);
        // now he wants -webkit-slightly-escalating-text too!
        @for $i from 1 through 5 {
          .char#{$i} { top: -$i * 2; }
        }
      }
    }
  }
}

article {
  @include box-sizing(border-box);
  @include border-radius(5px);
  @include box-shadow($gray, 0, 1px, 0);
  @include column(8);
  background-color: $light-gray;
}

@import "icons/social/*.png";
nav a {
  @each $file in dribbble, facebook, flickr, twitter {
    &.#{$file} { @include social-sprite($file); }
  }
}

input[type=search] {
  background: {
    image: inline-image('icons/spyglass.png');
    position: left center;
    repeat: no-repeat;
  }
}
```

application.css

```
/*  
*= require_self  
*= require_directory .  
*/
```

Route Scoping

```
# helper
def classes_for_body
  body_classes = controller.controller_path.split('/')
  body_classes << controller.action_name
  body_classes.join ' '
end

# layout
<body id="<%= yield :body_id %>" class="<%= classes_for_body %>">

# renders
<body id="" class="users photos show">
```

Nested Layouts

- └─ layouts
 - └─ _document.html.erb
 - └─ admin.html.erb
 - └─ application.html.erb

_document.html.erb

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
  <title><%= yield :page_title %></title>
```

```
  <%= csrf_meta_tag %>
```

```
  <%= yield :head %>
```

```
</head>
```

```
<body id="<%= yield :body_id %>" class="<%= classes_for_body %>">
```

```
  <%= yield %>
```

```
</body>
```

```
</html>
```

application.html.erb

```
<%- content_for :head do %>
  <%= stylesheet_link_tag    "application" %>
  <%= javascript_include_tag "application" %>
<%- end %>

<%= render :layout => 'layouts/document' do %>

  <header>
    <h1>Site Name</h1>
    <nav></nav>
  </header>

  <%= yield :layout %>

<% end %>
```

admin.html.erb

```
<%- provide :head do %>
  <%= stylesheet_link_tag    "admin" %>
  <%= javascript_include_tag "admin" %>
<%- end %>

<%= render :layout => 'layouts/document' do %>

  <header>
    <h1>Admin</h1>
    <nav></nav>
  </header>

  <%= yield :layout %>

<% end %>
```


admin.html.erb

```
<%- provide :head do %>
  <%= stylesheet_link_tag "admin" %>
  <%= javascript_include_tag "admin" %>
<%- end %>

<%= render :layout => 'layouts/document' do %>

  <header>
    <h1>Admin</h1>
    <nav></nav>
  </header>

  <%= yield :layout %>

<% end %>
```

Create at Gowalla

gowalla.com/jobs

say hi @soopa