

Intro to Sass

DCBPW/April 14, 2012

What Is Sass?

- CSS Compiler - Converts other languages to CSS
- Inspired by "HAML" - HTML Compiler
- Turing complete - add variables/functions/mixins/control structures/etc.
- 2 Syntaxes - SCSS (sassy CSS), and SASS (think perl vs. Perl)

SCSS vs. SASS

- SCSS can be *just* CSS, SASS is a completely different syntax
- SCSS is semicolon-terminated, SASS is newline-terminated
- SCSS uses {} for nesting, SASS uses indentation (à la HAML/Python)
- **IMHO** SCSS better for existing projects, SASS better for new ones

Variable Construction

- Perlish (using \$)
- Mostly-"regular" naming rules
 - `$isvalid`, `$also_valid`, `$9invalid`, `$valid-but-bad`
- CSS-based datatypes
 - Numbers, Strings, Colors, "Lists", Booleans

Initial CSS Example

```
body { background-color: #EEE; font-size: 12px; }
h1 {
  background-color: #CCC;
  color:           #FA3B3B;
  font-size:       24px;
}
a {
  background-color: #CCC;
  color:           #FA3B3B;
  text-decoration: none;
  border-bottom:   3px solid #AAA;
  border-top:      3px solid #AAA;
}
```

Sass Variables

SCSS

```
$bgcolor: #EEE;
$size: 12px;
$accents: #FA3B3B;
$saccentbg: #CCC;
$linkborder: 3px solid #AAA;

body { background-color: $bgcolor; font-size:
$size; }
h1 {
  background-color: $accentbg;
  color: $accents;
  font-size: $size * 2;
}
a {
  background-color: $accentbg;
  color: $accents;
  text-decoration: none;
  border-bottom: $linkborder;
  border-top: $linkborder;
}
```

SASS

```
$bgcolor: #EEE
$size: 12px
$accents: #FA3B3B
$saccentbg: #CCC
$linkborder: 3px solid #AAA

body
  background-color: $bgcolor
  font-size: $size
h1
  background-color: $accentbg
  color: $accents
  font-size: $size * 2
a
  background-color: $accentbg
  color: $accents
  text-decoration: none
  border-bottom: $linkborder
  border-top: $linkborder
```

Sass Functions

SCSS

```
$bgcolor:    #EEE;
$size:       12px;
$accents:    mix($bgcolor, #F00, 25%);
$accentbg:   darken($bgcolor, 13.5%);
$linkborder: 3px solid darken($bgcolor, 26.5%);

body { background-color: $bgcolor; font-size:
$size; }

h1 {
  background-color: $accentbg;
  color:            $accents;
  font-size:        $size * 2;
}

a {
  background-color: $accentbg;
  color:            $accents;
  text-decoration:  none;
  border-bottom:    $linkborder;
  border-top:       $linkborder;
}
```

SASS

```
$bgcolor:    #EEE
$size:       12px
$accents:    mix($bgcolor, #F00, 25%)
$accentbg:   darken($bgcolor, 13.5%)
$linkborder: 3px solid darken($bgcolor, 26.5%)

body
  background-color: $bgcolor
  font-size:        $size
h1
  background-color: $accentbg
  color:            $accents
  font-size:        $size * 2
a
  background-color: $accentbg
  color:            $accents
  text-decoration:  none
  border-bottom:    $linkborder
  border-top:       $linkborder
```

Sass Mixins

SCSS

```
$bgcolor: #EEE;
$size: 12px;
$accents: mix($bgcolor, #F00, 25%);
$accentbg: darken($bgcolor, 13.5%);
$linkborder: 3px solid darken($bgcolor, 26.5%);

@mixin accented {
  background-color: $accentbg;
  color: $accents;
}

body { background-color: $bgcolor; font-size:
$size; }
h1 {
  @include accented;
  font-size: $size * 2;
}
a {
  @include accented;
  text-decoration: none;
  border-bottom: $linkborder;
  border-top: $linkborder;
}
```

SASS

```
$bgcolor: #EEE
$size: 12px
$accents: mix($bgcolor, #F00, 25%)
$accentbg: darken($bgcolor, 13.5%)
$linkborder: 3px solid darken($bgcolor, 26.5%)

@mixin accented
  background-color: $accentbg
  color: $accents

body
  background-color: $bgcolor
  font-size: $size

h1
  @include accented
  font-size: $size * 2

a
  @include accented
  text-decoration: none
  border-bottom: $linkborder
  border-top: $linkborder
```

Using Sass

- **Rubygems**

- `$ gem install sass`
- `$ sudo gem install sass`
- `$ sass some.sass styles.css`
- `$ sass --watch some.scss styles.css`

- **Text::Sass**

- `Text::Sass->scss2css($scss);`
- `Text::Sass->sass2css($sass);`

- **Catalyst**

- perl-catalyst-view-sass
- <http://github.com/bolav/perl-catalyst-view-sass>

- **Mojolicious**

- CPAN: Mojolicious::Plugin::SassRenderer
- Supports SASS-only

- **Dancer**

- CPAN: Dancer::Plugin::Preprocess::Sass
- Supports SCSS and SASS
- Supports caching

Contact

- Stephen Belcher
- Email: sbelcher@gmail.com
- Twitter: [@sycobuny](https://twitter.com/sycobuny)
- Slides at: http://github.com/sycobuny/sass_presentation