FULL STACK MEETING 02 | SASS / SCSS

WHAT IS SASS / SCSS

Syntactically **A**wesome **S**tyle**S**heets: An extension for CSS

Sassy CSS: Sass with CSS-like syntax (as opposed to Sass's Ruby syntax)

FIRST STEPS

SASS can be installed as a Ruby gem:

gem install sass

Watch file:

To have your .sass files change into .css files for web browsers: sass --watch input.scss:output.css

or for directories: sass --watch /sass:/css



SASS uses indentations for its syntaxes and has no braces and no semicolons

SCSS is written in much the same was as CSS, with brackets and semicolons

Example - SASS

```
CSS:

body {

max-width: 650px;

color: #444444;

background-color: #EEEEEE;

line-height: 1.4;

margin: 40px auto;
}
```

SASS:

\$max-width: 650px \$font-color: #444444 \$bg-color: #EEEEEE

body

max-width: \$max-width

color: \$font-color

background-color: \$bg-color

line-height: 1.4

margin: 40px auto

Example - SCSS

```
CSS:
body {
    max-width: 650px;
    color: #444444;
    background-color: #EEEEEE;
    line-height: 1.4;
    margin: 40px auto;
```

```
SCSS:
$max-width: 650px;
$font-color: #444444;
$bg-color: #EEEEEE;
body {
    max-width: $max-width;
    color: $font-color;
    background-color: $bg-color;
    line-height: 1.4;
    margin: 40px auto;
```

Nesting in SASS

```
body

max-width: 650px;
background-color: $bg-color
color: $bg-color
.header
color: $header-color
font-family: $font-stack
```

```
body {
    max-width: 650px;
    background-color: #FFFFFF;
    color: #000000; }
    body .header {
        color: #DDDDDD;
        font-family: "Open Sans"; }
```

The Parent Selector (&)

```
a {
  font-weight: bold;
  text-decoration: none;
  &:hover { text-decoration: underline; }
}
```

```
a { ... }
a:hover { ...}
```

```
#main {
    color: black;
    &-sidebar { border: 1px solid; }
        &:hover {darken( $sidebar-color, 10%);
    }
}
```

```
#main {...}
    #main-sidebar {...}
    #main-sidebar:hover{...}
```

Functions built in SASS

http://sass-lang.com/documentation/Sass/Script/Functions.html

Values are comma separated:

Examples:

darken (\$color, \$value)darken (#DD88AA, 10%)#d2608einvert (\$color)invert(#DD88AA)#227755complement(\$color)complement(#DD88AA)#88ddbbround(\$number)round(\$margin / \$colums)60

@import

```
_default.scss:
$footer-color: #878787;
body {
     color: #DDDDDD;
     line-height: 1.4;
main.scss:
@import _default;
footer {
     background-color: $footer-color;
     color: white;
```

```
main.css:
body {
    color: #DDDDDD:
    line-height: 1.4;
footer {
    background-color: #878787;
    color: white;
```

@include

includes are used for @mixins. Mixins can be thought of as abstract objects in CSS.

Declaring a mixin:

```
@mixin color ($color, $bg-color) {
    color: $color;
    background-color: $bg-color;
    line-height: 1.4;
    border: 1px solid black;
```

Using a mixin:

```
#sidebar {
    @include color (#DDDDDD, #DD88AA)
    width: 300px;
}
```

Math and Functions

Functions are useful for math operations. Use them to avoid hard-coding things, so they can be dynamically changed.

Functions can only return one value.

Declaring a function:

```
@function width-percent ($container, $object) {
    @return ($container / $object) * 100%;
{
```

Using a function:

```
.sidebar {
    width: $sidebar-width;
    &-buttons {
        width: width-percent ($sidebar-width, 60px);
    }
}
```