

SASS



!==



Sass.

{style with attitude}

SCSS

SCSS is a special type of file for SASS, a program written in Ruby that assembles CSS style sheets for a browser. SASS adds lots of additional functionality to CSS like variables, nesting and more which can make writing CSS easier and faster

Sass is a scripting language that is interpreted into Cascading Style Sheets (CSS) Less is a CSS pre-processor, meaning that it extends the CSS language, adding features that allow variables, mixins, functions and many other techniques that allow you to make CSS that is more maintainable, themable and extendable.

Less (sometimes stylized as LESS) is a dynamic style sheet language that can be compiled into Cascading Style Sheets (CSS) and run on the client side or server side

NOTE : LESS AND SASS ARE SERVER SIDE !!!!

```
<link rel="stylesheet/less" type="text/css" href="main.less" />
```

SCSS vs SASS syntax

```
html,  
body,  
ul,  
ol  
margin: 0  
padding: 0
```

```
html,  
body,  
ul,  
ol {  
  margin: 0;  
  padding: 0;  
}
```

```
html,  
body,  
ul,  
ol {  
  margin: 0;  
  padding: 0;  
}
```

SASS,SCSS,CSS

Variables

Sass		Less
-----	+	-----
<code>\$color: red;</code>		<code>@color: red;</code>
<code>div {</code>		<code>div {</code>
<code>color: \$color;</code>		<code>color: @color;</code>
<code>}</code>		<code>}</code>

SCSS

```
$font-stack: Helvetica, sans-serif;  
$primary-color: #333333;  
$cool-color: #ffeeaa;
```

```
body {  
  font: 100% $font-stack;  
  color: $primary-color;  
}  
nav {  
  ul {  
    margin: 0;  
    padding: 0;  
    list-style: none;  
  }  
  
  li {  
    font: 100% $font-stack;  
    display: inline-block; }  
  
  a {  
    font: 80% $font-stack;  
    color: $cool-color;  
    display: block;  
    padding: 6px 12px;  
    text-decoration: none;  
  }  
}
```

```
body {  
  font: 100% Helvetica, sans-serif;  
  color: #333333;  
}  
  
nav ul {  
  margin: 0;  
  padding: 0;  
  list-style: none;  
}  
nav li {  
  font: 100% Helvetica, sans-serif;  
  display: inline-block;  
}  
nav a {  
  font: 80% Helvetica, sans-serif;  
  color: #ffeeaa;  
  display: block;  
  padding: 6px 12px;  
  text-decoration: none;  
}
```

Operators – scss

```
.container { width: 100%; }
```

```
article[role="main"] {  
  float: left;  
  width: 600px / 960px * 100%;  
}
```

```
aside[role="complementary"] {  
  float: right;  
  width: 300px / 960px * 100%;  
}
```

less

```
.gradient (@origin: left, @start: #ffffff, @stop: #000000) {  
  background-color: @start;  
  background-image: -webkit-linear-gradient(@origin, @start, @stop);  
  background-image: -moz-linear-gradient(@origin, @start, @stop);  
  background-image: -o-linear-gradient(@origin, @start, @stop);  
  background-image: -ms-linear-gradient(@origin, @start, @stop);  
  background-image: linear-gradient(@origin, @start, @stop);  
}
```

LESS

```
#someDiv {  
  .gradient(left, #663333, #333333);  
}
```

```
#someDiv {  
  background-color: #663333;  
  background-image: -webkit-linear-gradient(left, #663333, #333333);  
  background-image: -moz-linear-gradient(left, #663333, #333333);  
  background-image: -o-linear-gradient(left, #663333, #333333);  
  background-image: -ms-linear-gradient(left, #663333, #333333);  
  background-image: linear-gradient(left, #663333, #333333);  
}
```

CSS

Test online converting SCSS to CSS

- SASS
- <http://www.sassmeister.com>
- LESS
- <http://less2css.org>
- WINDOWS PROGRAM FOR LESS
- <http://winless.org>
- WINDOWS PROGRAM FOR SASS/LESS
- <http://koala-app.com>