



Sass

SASS / SCSS

ePorftolio, Simon Knab, 30.05.2017

Agenda

- ▶ Defintion
- ▶ Partials/Imports
- ▶ Variables
- ▶ Nesting
- ▶ Extend/Inheritance
- ▶ Mixins
- ▶ Operations
- ▶ Controllstructures
- ▶ Demo

Definition

- ▶ SASS (Syntactically Awesome Stylesheets)
- ▶ Stylesheet language
- ▶ Preprocessor for easier creation of Cascading Style Sheets (CSS)
- ▶ Possible syntax:

SASS	SCSS
Nesting through indentation	Nesting through curly brackets
<pre>\$meineFarbe: #3BBFCE .navigation border-color: \$meineFarbe color: darken(\$meineFarbe, 9%)</pre>	<pre>\$meineFarbe: #3BBFCE; .navigation { border-color: \$meineFarbe; color: darken(\$meineFarbe, 9%); }</pre>

Partials / Import

- ▶ Split the stylesheet in different parts for a better overview
- ▶ Partials names should start with a underscore
e.g. "_Whatever.scss"
- ▶ Import with `@import "Whatever"`
(underscore and file ending are not needed)
- ▶ Final result is one merged CSS-File for the browser.

Variables

- Use \$ to make something a variable

```
$font-stack: Helvetica, sans-serif;  
$primary-color: #333;  
  
body {  
  font: 100% $font-stack;  
  color: $primary-color;  
}
```

```
body {  
  font: 100% Helvetica, sans-serif;  
  color: #333;  
}
```

Nesting

► Nesting through curly brackets

```
nav {  
  ul {  
    margin: 0;  
    padding: 0;  
    list-style: none;  
  }  
  
  li { display: inline-block; }  
  
  a {  
    display: block;  
    padding: 6px 12px;  
    text-decoration: none;  
  }  
}
```

```
nav ul {  
  margin: 0;  
  padding: 0;  
  list-style: none;  
}  
  
nav li {  
  display: inline-block;  
}  
  
nav a {  
  display: block;  
  padding: 6px 12px;  
  text-decoration: none;  
}
```

Extend/Inheritance

- Share informations through inheritance

```
.message {  
  border: 1px solid #ccc;  
  padding: 10px;  
  color: #333;  
}  
  
.success {  
  @extend .message;  
  border-color: green;  
}  
  
.error {  
  @extend .message;  
  border-color: red;  
}
```

```
.message, .success, .error, .warning {  
  border: 1px solid #cccccc;  
  padding: 10px;  
  color: #333;  
}  
  
.success {  
  border-color: green;  
}  
  
.error {  
  border-color: red;  
}
```

Mixins

- ▶ Work similar to inheritance but you can use parameters

```
@mixin border-radius($radius) {  
  -webkit-border-radius: $radius;  
  -moz-border-radius: $radius;  
  -ms-border-radius: $radius;  
  border-radius: $radius;  
}  
  
.box { @include border-radius(10px); }
```

```
.box {  
  -webkit-border-radius: 10px;  
  -moz-border-radius: 10px;  
  -ms-border-radius: 10px;  
  border-radius: 10px;  
}
```


Operators

- You can use the math operators +, -, *, / and % to calculate some values

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

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

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

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

article[role="main"] {
  float: left;
  width: 62.5%;
}

aside[role="complementary"] {
  float: right;
  width: 31.25%;
}
```

Controlstructures

- ▶ @if
- ▶ @for
- ▶ @each
- ▶ @while

Demo

- ▶ Install SASS like it is described here: <http://sass-lang.com/install>
I recommend the command line way!
- ▶ Create a new folder and copy the following file into it
<https://github.com/W-i-Z-o/sassDemo/blob/master/index.html>
- ▶ You can start "watching" a folder by running the following comand line:
`sass --watch inputFolderPath:outputFolderPath`
- ▶ At any time you want you can reproduce the steps i'm gonna show you in the demo by following the commits under <https://github.com/W-i-Z-o/sassDemo> starting with the first one.

Quellen

- ▶ <http://sass-lang.com>
- ▶ <http://thesassway.com>

Are there any questions?

Thank you for your Attention!