Was ist SASS?

- Syntactically Awesome StyleSheets
- Open Source
- Release: 2007
- CSS – Erweiterung
- Implementierung in Ruby

LibSass

- C/C++ Port der SASS-Engine
- Bibliothek
- Weitere Implementierungen: Java, JavaScript, PHP, Python …

Was ist SASS?

input.scss → Präprozessor → output.css

Features

- Variablen
- Funktionen
- Verschachtelungen
- bedingte Anweisungen
- Vererbung
- Mixins
- Modular

Syntax

SCSS (Sassy CSS)

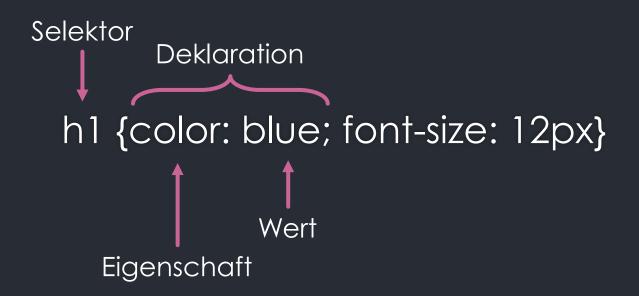- Erweiterung CSS Syntax
- Klammern und Semikolons
- Dateiendung .scss

„Intended" Syntax (SASS)

- Whitespace-Sensitiv
- Dateiendung .sass

SCSS/CSS Syntax

Selektor

Deklaration

h1 {color: blue; font-size: 12px}

Wert

Eigenschaft

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Variablen

SCSS

```scss
$myColor: #A23456;

body{
  background-color: $myColor
}
```

CSS

```css
body {
  background-color: #A23456; }
```

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Verschachtelungen

SCSS

```scss
body{
  background-color: $myColor;
  #main {
    padding:5%;
    h1{
      text-align: center;
      text-transform: uppercase;
    }
  }
}
```

CSS

```css
body {
  background-color: #ABC456; }
  body #main {
    padding: 5%; }
    body #main h1 {
      text-align: center;
      text-transform: uppercase; }
```

Mixins

SCSS

```scss
@mixin MyTextStyle {
  text-align: center;
  color: blue;
  font-size: 24px;
  font-family: Calibri;
}

h2{
  @include MyTextStyle;
}
```

CSS

```css
h2 {
  text-align: center;
  color: blue;
  font-size: 24px;
  font-family: Calibri; }
```

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Mixins mit Argumenten

SCSS

```scss
@mixin MyTextStyle($size,$color) {
  text-align: center;
  color: $color;
  font-size: $size;
  font-family: Calibri;
}


h2{
  @include MyTextStyle(13px,#a32d6e);
}
```

CSS

```css
h2 {
  text-align: center;
  color: #a32d6e;
  font-size: 13px;
  font-family: Calibri; }
```

Vererbung

SCSS

```scss
.main{
  margin: 10%;
  font-size: 15px;
}


.paragraph{
  @extend .main;
  text-align: center;
}
```

CSS

```css
.main, .paragraph {
  margin: 10%;
  font-size: 15px; }


.paragraph {
  text-align: center; }
```

Funktionen

SCSS

CSS

```scss
h1{
  color: complement(#bbaacc);
  font-size:  round(29/2)px;
  }
```

```css
h1 {
  color: #bbccaa;
  font-size: 15 px; }
```

Interpolation

SCSS

```scss
$selector: span;
$attr1: background-color;
$attr2: border;

#{$selector} {
  #{$attr1}: black;
  #{$attr2}: white;
}
```

CSS

```css
span {
  background-color: black;
  border: white; }
```

If-else

SCSS

```scss
p{
  @if null {
    border: 3px double;
  }@else if 5 < 3{
    border: 2px dotted;
  }@else if 1 + 1 ==2{
    border: 1px solid;
  }
```

CSS

```css
p {
  border: 1px solid; }
```

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for

SCSS

```scss
@for $i from 1 through 3 {
  .item-#{$i} { width: 2px * $i; }
}
```

CSS

```css
.item-1 {
  width: 2px; }

.item-2 {
  width: 4px; }

.item-3 {
  width: 6px; }
```

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Demo

1. Ruby installieren:

   http://rubyinstaller.org/

2. SASS installieren:

   gem install sass

   sass --watch master.scss:master.css

3. GitHub Repo:

   https://github.com/PaulGiesa/SASS