

# SCSS und Compass Grundlagen



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# SCSS und Compass

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# SCSS und Compass



<http://sass-lang.com>

Sass CSS with superpowers

**S**yntactically **A**wesome **S**tylesheets

Pre-processing | SCSS-Syntax (Sassy CSS)



<http://compass-style.org/>

Compass is an open-source CSS Authoring Framework.

# Warum Sass?

- Net Awards (2014):  
Sass "game changer of the year"
- Für viele bekannte CSS-Frameworks gibt es eine Sass-Portierung  
(Yaml | bootstrap)
- Weil CSS endlich wieder Spaß macht!

# Variablen | SCSS

```
1 // meine Variablen
2
3 $gruen:      #7ba32b;
4 $dunkelgrau: #13191D;
5 $font-dunkel: #000;
6 $font-hell:  #fff;
7
8 .box div {display:inline-block; width: 200px; height: 50px; padding: 10px;}
9
10 ▾ .gruen {
11     background-color: $gruen;
12     color: $font-dunkel;
13 }
14 ▾ .dunkelgrau {
15     background-color: $dunkelgrau;
16     color: $font-hell;
17 }
```

# Variablen | CSS

```
1 ▾ .box div {  
2   display: inline-block;  
3   width: 200px;  
4   height: 50px;  
5   padding: 10px;  
6 }  
7  
8 ▾ .gruen {  
9   background-color: #7ba32b;  
10  color: black;  
11 }  
12  
13 ▾ .dunkelgrau {  
14  background-color: #13191d;  
15  color: white;  
16 }  
17
```

# Variablen | HTML

```
1 <div class='box'>  
2   <div class='gruen'>Grün</div>  
3   <div class='dunkelgrau'>Dunkelgrau</div>  
4 </div>
```

Grün

Dunkelgrau



# Nesting | SCSS

```
1 $gruen:      #7ba32b;
2 $dunkelgrau: #13191D;
3 $font-dunkel: #000;
4 $font-hell:  #fff;
5
6 .box {
7   div {
8     display:inline-block;
9     width: 200px;
10    height: 50px;
11    padding: 10px;
12   }
13  .gruen {
14    background-color: $gruen;
15    color: $font-dunkel;
16   }
17  .dunkelgrau {
18    background-color: $dunkelgrau;
19    color: $font-hell;
20   }
21 }
```

# Nesting | CSS

```
1 ▾ .box div {  
2   display: inline-block;  
3   width: 200px;  
4   height: 50px;  
5   padding: 10px;  
6 }  
7 ▾ .box .gruen {  
8   background-color: #7ba32b;  
9   color: black;  
10 }  
11 ▾ .box .dunkelgrau {  
12   background-color: #13191d;  
13   color: white;  
14 }
```

# Nesting | HTML

```
1 <div class='box'>
2   <div class='gruen'>Grün</div>
3   <div class='dunkelgrau'>Dunkelgrau</div>
4 </div>
5 <div class='gruen'>Grün</div>
```

Grün

Dunkelgrau

Grün

# Partials | Import

- Auslagern von Snippets in Dateien

- `_partial.scss`

Durch den Unterstrich weiß Sass, dass keine CSS-Datei erstellt werden soll

- Benutzt man mit `@import`

# Partials | Import


- Am Beispiel Contao 3.3  
default.scss | \_basic.scss


---

```
// Contao Open Source CMS, (c) 2005-2014 Leo Feyer, LGPL license
```


```
@import "basic";
```

```
body {  
  background: $background url("../images/background.gif") center top repeat-y;  
}
```

–  \_basic.scss

–  \_vars.scss

–  default.scss

–  mobile.scss

---

```
// Contao Open Source CMS, (c) 2005-2014 Leo Feyer, LGPL license
```

```
@import "vars";
```

```
body {  
  margin: 0;  
  padding: 0;  
}
```

# Partials | Import

- Am Beispiel Contao 3.3

## \_vars.scss

- \_basic.scss
- **\_vars.scss**
- default.scss
- mobile.scss

```
// Contao Open Source CMS, (c) 2005-2014 Leo Feyer, LGPL license
```

```
$border: #ccc;
$background: #ece4d9;
$info: #999;
$error: #f00;
$captcha: #666;
$colored: #c6ad8d;
$black: #000;
$white: #fff;
$links: #a84204;
$headerbg: #e6e6e6;
$recurring: #090;
$today: #ffc;
$header: #e0e0e0;
$label: #bbb;
$minihead: #f9f9f9;
$minilabel: #c3c3c3;
$weekend: #f6f6f6;

@font-face {
  font-family: "Ubuntu";
  font-style: normal;
  font-weight: 400;
  src: local("Ubuntu"), url("../fonts/Ubuntu-Regular.woff") format("woff");
}

@font-face {
  font-family: "Ubuntu";
  font-style: normal;
  font-weight: 500;
  src: local("Ubuntu-Medium"), url("../fonts/Ubuntu-Medium.woff") format("woff");
}
```

# Mixins

- Funktionen auslagern, um diese immer wieder zu nutzen

# Mixins

- Funktionen auslagern, um diese immer wieder zu nutzen

```
6 ▾ @mixin border-radius($radius) {  
7   -webkit-border-radius: $radius;  
8   |   -moz-border-radius: $radius;  
9   |   -ms-border-radius: $radius;  
10  |   border-radius: $radius;  
11 }  
12 |  
13 ▾ .box {  
14 ▾   div {  
15     @include border-radius(10px);  
16     display:inline-block;  
17     width: 200px;  
18     height: 50px;  
19     padding: 10px;  
20     }
```



# Mixins

- Funktionen auslagern, um diese immer wieder zu nutzen

```
6 ▾ @mixin border-radius($radius) {  
7   -webkit-border-radius: $radius;  
8   |   -moz-border-radius: $radius;  
9   |   -ms-border-radius: $radius;  
10  |   border-radius: $radius;  
11 }  
12 |  
13 ▾ .box {  
14 ▾   div {  
15     @include border-radius(10px);  
16     display:inline-block;  
17     width: 200px;  
18     height: 50px;  
19     padding: 10px;  
20   }  
}
```

```
1 ▾ .box div {  
2   -webkit-border-radius: 10px;  
3   -moz-border-radius: 10px;  
4   -ms-border-radius: 10px;  
5   border-radius: 10px;  
6   display: inline-block;  
7   width: 200px;  
8   height: 50px;  
9   padding: 10px;  
10 }
```

Grün

Dunkelgrau

# Mixins

- Beispiel 2:  
damit der Schatten überall gleich ist
- Compass wird benutzt, um Prefixe passend zu haben → @import

# Mixins

```
1 @import "compass/css3";
2
3 $gruen:      #7ba32b;
4 $dunkelgrau: #13191D;
5 $font-dunkel: #000;
6 $font-hell:  #fff;
7
8 @mixin border-radius($radius) {
9     -webkit-border-radius: $radius;
10     -moz-border-radius: $radius;
11     -ms-border-radius: $radius;
12     border-radius: $radius;
13 }
14
15 @mixin my-shadow {
16     @include box-shadow(rgba(0,0,0,0.5) 2px 2px 2px);
17 }
18
19 .box {
20     div {
21         @include border-radius(10px);
22         @include my-shadow;
23         display:inline-block;
24         width: 200px;
25         height: 50px;
26         padding: 10px;
27     }
```

# Mixins

```
1 @import "compass/css3";
2
3 $gruen:      #7ba32b;
4 $dunkelgrau: #13191d;
5 $font-dunkel: #000;
6 $font-hell:  #fff;
7
8 @mixin border-radius($radius) {
9     -webkit-border-radius: $radius;
10     -moz-border-radius: $radius;
11     -ms-border-radius: $radius;
12     border-radius: $radius;
13 }
14
15 @mixin my-shadow {
16     @include box-shadow(rgba(0,0,0,0.5) 2px 2px 2px);
17 }
18
19 .box {
20     div {
21         @include border-radius(10px);
22         @include my-shadow;
23         display:inline-block;
24         width: 200px;
25         height: 50px;
26         padding: 10px;
27     }
28 }
```

```
1 .box div {
2     -webkit-border-radius: 10px;
3     -moz-border-radius: 10px;
4     -ms-border-radius: 10px;
5     border-radius: 10px;
6     -moz-box-shadow: rgba(0, 0, 0, 0.5) 2px 2px 2px;
7     -webkit-box-shadow: rgba(0, 0, 0, 0.5) 2px 2px 2px;
8     box-shadow: rgba(0, 0, 0, 0.5) 2px 2px 2px;
9     display: inline-block;
10    width: 200px;
11    height: 50px;
12    padding: 10px;
13 }
14 .box .gruen {
15     background-color: #7ba32b;
16     color: black;
17 }
18 .box .dunkelgrau {
19     background-color: #13191d;
20     color: white;
21 }
```

Grün

Dunkelgrau

# Extend/Inheritance

- Mit `@extended` Eigenschaften eines anderen Selectors übernehmen

# Extend/Inheritance

```
1 $gruen:          #7ba32b;
2 $dunkelgrau:    #13191D;
3 $font-dunkel:   #000;
4 $font-hell:     #fff;
5
6 ▾ .box {
7     display:inline-block;
8     width: 200px;
9     height: 50px;
10    padding: 10px;
11 }
12
13 ▾ .gruen {
14     @extend .box;
15     background-color: $gruen;
16     color: $font-dunkel;
17 }
18
19 ▾ .dunkelgrau {
20     @extend .box;
21     background-color: $dunkelgrau;
22     color: $font-hell;
23 }
```

# Extend/Inheritance

```
1 $gruen:      #7ba32b;
2 $dunkelgrau: #13191D;
3 $font-dunkel: #000;
4 $font-hell:  #fff;
5
6 ▾ .box {
7     display:inline-block;
8     width: 200px;
9     height: 50px;
10    padding: 10px;
11 }
12
13 ▾ .gruen {
14     @extend .box;|
15     background-color: $gruen;
16     color: $font-dunkel;
17 }
18
19 ▾ .dunkelgrau {
20     @extend .box;
21     background-color: $dunkelgrau;
22     color: $font-hell;
23 }
```

```
1 ▾ .box, .gruen, .dunkelgrau {
2     display: inline-block;
3     width: 200px;
4     height: 50px;
5     padding: 10px;
6 }
7
8 ▾ .gruen {
9     background-color: #7ba32b;
10    color: black;
11 }
12
13 ▾ .dunkelgrau {
14     background-color: #13191d;
15     color: white;
16 }
17 |
```

```
1 ▾ <section class='boxen'>
2     <div class='box gruen'>Grün</div>
3     <div class='box dunkelgrau'>Dunkelgrau</div>
4 </section>|
```

Grün

Dunkelgrau

# Operators

Berechnen mit:

- +
- -
- \*
- /
- %



# Operators

```
1 #container { width: 960px; }
2
3 #main {
4   float: left;
5   width: 2 / 3 * 100%;
6   background-color: rgba(0,0,0,.2);
7   height: 100px;
8 }
9
10 #left {
11   float: right;
12   width: 1 / 3 * 100%;
13   background-color: rgba(0,155,0,.2);
14   height: 100px;
15 }
```

# Operators

```
1 #container { width: 960px; }
2
3 #main {
4   float: left;
5   width: 2 / 3 * 100%;
6   background-color: rgba(0,0,0,.2);
7   height: 100px;
8 }
9
10 #left {
11   float: right;
12   width: 1 / 3 * 100%;
13   background-color: rgba(0,155,0,.2);
14   height: 100px;
15 }
```

```
1 #container {
2   width: 960px;
3 }
4
5 #main {
6   float: left;
7   width: 66.6666666667%;
8   background-color: rgba(0, 0, 0, 0.2);
9   height: 100px;
10 }
11
12 #left {
13   float: right;
14   width: 33.3333333333%;
15   background-color: rgba(0, 155, 0, 0.2);
16   height: 100px;
17 }
```

```
1 <div id="container">
2   <div id="main">Main Inhalt</div>
3   <div id="left">Left Inhalt</div>
4 </div>
```

Main Inhalt

Left Inhalt

# Control Directives & Expressions

- @if
- @for
- @each

# Control Directives & Expressions

```
1 $gruen:      #7ba32b;
2 $dunkelgrau: #13191D;
3 $font-dunkel: #000;
4 $font-hell:  #fff;
5
6 .box {display:inline-block; height: 50px; padding: 10px;}
7 ▾ .gruen {
8     background-color: $gruen;
9     color: $font-dunkel;
10 }
11 ▾ .dunkelgrau {
12     background-color: $dunkelgrau;
13     color: $font-hell;
14 }
15
16 ▾ @for $i from 1 through 3 {
17     .box-#{ $i } { width: 4em * $i; }
18 }
```

# Control Directives & Expressions

```
1 $gruen:      #7ba32b;
2 $dunkelgrau: #13191D;
3 $font-dunkel: #000;
4 $font-hell:  #fff;
5
6 .box {display:inline-block; height: 50px; padding: 10px;}
7 .gruen {
8   background-color: $gruen;
9   color: $font-dunkel;
10  }
11 .dunkelgrau {
12   background-color: $dunkelgrau;
13   color: $font-hell;
14  }
15
16 @for $i from 1 through 3 {
17   .box-#{ $i } { width: 4em * $i; }
18 }
```

```
1 <section>
2   <div class="box box-1 dunkelgrau">Inhalt</div>
3   <div class="box box-2 gruen">Inhalt</div>
4   <div class="box box-3 dunkelgrau">Inhalt</div>
5 </section>
```

```
1 .box {
2   display: inline-block;
3   height: 50px;
4   padding: 10px;
5 }
6
7 .gruen {
8   background-color: #7ba32b;
9   color: black;
10 }
11
12 .dunkelgrau {
13   background-color: #13191d;
14   color: white;
15 }
16
17 .box-1 {
18   width: 4em;
19 }
20
21 .box-2 {
22   width: 8em;
23 }
24
25 .box-3 {
26   width: 12em;
27 }
```

# Control Directives & Expressions

Inhalt

Inhalt

Inhalt

```
5
6 .box {display:inline-block; height: 50px; padding: 10px;}
7 ▾ .gruen {
8     background-color: $gruen;
9     color: $font-dunkel;
10 }
11 ▾ .dunkelgrau {
12     background-color: $dunkelgrau;
13     color: $font-hell;
14 }
15
16 ▾ @for $i from 1 through 3 {
17     .box-#{ $i } { width: 4em * $i; }
18 }
```

```
1 ▾ <section>
2     <div class="box box-1 dunkelgrau">Inhalt</div>
3     <div class="box box-2 gruen">Inhalt</div>
4     <div class="box box-3 dunkelgrau">Inhalt</div>
5 </section>
```

```
1 ▾ .box {
2     display: inline-block;
3     height: 50px;
4     padding: 10px;
5 }
6
7 ▾ .gruen {
8     background-color: #7ba32b;
9     color: black;
10 }
11
12 ▾ .dunkelgrau {
13     background-color: #13191d;
14     color: white;
15 }
16
17 ▾ .box-1 {
18     width: 4em;
19 }
20
21 ▾ .box-2 {
22     width: 8em;
23 }
24
25 ▾ .box-3 {
26     width: 12em;
27 }
```

# @media inline nutzen

```
8 ▾ .box {  
9   display: inline-block;  
10  height: 50px;  
11  padding: 10px;  
12  width: 45%;  
13 ▾   @media (max-width: 600px) {  
14     width: 100%;  
15   }  
16 }
```

```
5 ▾ .box {  
6   display: inline-block;  
7   height: 50px;  
8   padding: 10px;  
9   width: 45%;  
10  }  
11 ▾ @media (max-width: 600px) {  
12 ▾   .box {  
13     width: 100%;  
14   }  
15 }
```

# Compass

- Erweitert Sass um nützliche Snippets
- Beispiele:
  - Lokale Schriften einfügen
  - Sprite erstellen



# Lokale Schriften

```
1 @import "compass/css3/font-face";
2 |
3 @include font-face("graublauslab-bold", font-files("graublauslab-bold-webfont.eot", "graublauslab-bold-webfont.ttf", "graublauslab-bold-webfont.woff"));
4 @include font-face("graublauslab-bold-italic", font-files("graublauslab-bolditalic-webfont.eot", "graublauslab-bolditalic-webfont.ttf", "graublauslab-bolditalic-webfont.woff"));
5 @include font-face("graublauslab-heavy", font-files("graublauslab-heavy-webfont.eot", "graublauslab-heavy-webfont.ttf", "graublauslab-heavy-webfont.woff"));
6 @include font-face("graublauslab-regular", font-files("graublauslab-regular-webfont.eot", "graublauslab-regular-webfont.ttf", "graublauslab-regular-webfont.woff"));
7 @include font-face("graublauslab-italic", font-files("graublauslab-italic-webfont.eot", "graublauslab-italic-webfont.ttf", "graublauslab-italic-webfont.woff"));

20 // Font Settings
21 // -----
22 $sym-font-ueberschrift > | >> >> : "graublauslab-heavy";
23 $sym-font-sans >> >> >> >> : "graublauslab-bold";
24 $sym-font-serif >> >> >> >> : "graublauslab-regular";
25 $sym-font-italic >>> >> >> >> : "graublauslab-italic";
```

# Lokale Schriften

```
@font-face {
  font-family: "graublauslab-bold";
  src: url("../schriften/graublauslab-bold-webfont.eot") format("embedded-opentype"), url("../schriften/graublauslab-bold-webfont.ttf")
  format("truetype"), url("../schriften/graublauslab-bold-webfont.woff")
  format("woff");
}

@font-face {
  font-family: "graublauslab-bold-italic";
  src: url("../schriften/graublauslab-bolditalic-webfont.eot")
  format("embedded-opentype"), url("../schriften/graublauslab-bolditalic-
  webfont.ttf") format("truetype"), url("../schriften/graublauslab-
  bolditalic-webfont.woff") format("woff");
}

@font-face {
  font-family: "graublauslab-heavy";
  src: url("../schriften/graublauslab-heavy-webfont.eot") format("embedded-
  opentype"), url("../schriften/graublauslab-heavy-webfont.ttf")
  format("truetype"), url("../schriften/graublauslab-heavy-webfont.woff")
  format("woff");
}

@font-face {
  font-family: "graublauslab-regular";
  src: url("../schriften/graublauslab-regular-webfont.eot") format("embedded-
  opentype"), url("../schriften/graublauslab-regular-webfont.ttf")
  format("truetype"), url("../schriften/graublauslab-regular-webfont.woff")
  format("woff");
}

@font-face {
  font-family: "graublauslab-italic";
  src: url("../schriften/graublauslab-italic-webfont.eot") format("embedded-
  opentype"), url("../schriften/graublauslab-italic-webfont.ttf")
  format("truetype"), url("../schriften/graublauslab-italic-webfont.woff")
  format("woff");
}
```

# Sprites generieren (lassen)

```
$sozial-m-layout:diagonal;  
@import "sozial-m/*.png";  
@import "compass/typography/text/replacement";  
$height: sozial-m-sprite-height(facebook);  
$width: sozial-m-sprite-width(facebook);
```

# Sprites generieren (lassen)

```
$sozial-m-layout:diagonal;
@import "sozial-m/*.png";
@import "compass/typography/text/replacement";
$height: sozial-m-sprite-height(facebook);
$width: sozial-m-sprite-width(facebook);

&.fbook a {@include sozial-m-sprite(facebook); @include hide-text; display: block; width: $width; height: $height;
&:hover {@include sozial-m-sprite(facebook-hover)}
}
&.gplus a {@include sozial-m-sprite(googleplus); @include hide-text; display: block; width: $width; height: $height;
&:hover {@include sozial-m-sprite(googleplus-hover)}
}
&.twitter a {@include sozial-m-sprite(twitter); @include hide-text; display: block; width: $width; height: $height;
&:hover {@include sozial-m-sprite(twitter-hover)}
}
&.xing a {@include sozial-m-sprite(xing); @include hide-text; display: block; width: $width; height: $height;
&:hover {@include sozial-m-sprite(xing-hover)}
}
```

# Sprites generieren (lassen)

```
$sozial-m-layout:diagonal;  
@import "sozial-m/*.png";  
@import "compass/typography/text/replacement";  
$height: sozial-m-sprite-height(facebook);  
$width: sozial-m-sprite-width(facebook);  
  
&.fbook a {@include sozial-m-sprite(facebook); @include hide-text; display: block; width: $width; height: $height;  
&:hover {@include sozial-m-sprite(facebook-hover)}  
}  
&.gplus a {@include sozial-m-sprite(googleplus); @include hide-text; display: block; width: $width; height: $height;  
&:hover {@include sozial-m-sprite(googleplus-hover)}  
}  
&.twitter a {@include sozial-m-sprite(twitter); @include hide-text;  
&:hover {@include sozial-m-sprite(twitter-hover)}  
}  
&.xing a {@include sozial-m-sprite(xing); @include hide-text; display: block; width: $width; height: $height;  
&:hover {@include sozial-m-sprite(xing-hover)}  
}
```



# Nützliche Links

Unter Artikel:

Sass/Scss und Compass als CSS preprocessor

<http://www.mediendepot-ruhr.de/sassscss-und-compass-als-css-preprocessor.html>

Vielen Dank für eure Aufmerksamkeit!

 Contao-Yoda