

# SASS & GRUNT

SASS-perusteet ja käyttöönotto



# Syntactically Awesome Stylesheets

- CSS-esikäsittelijä
  - Tehty alunperin Ruby:lla
  - Voidaan käyttää muiden ohjelmien kanssa
- Tiedostopäätte
  - .scss (Sassy CSS)
  - .sass

The Sass logo is written in a stylized, cursive script. The word "Sass" is in a vibrant pink color. The 'S' is large and loops around the 'a', which is also pink. The 's's are smaller and follow the same cursive style. The background of the slide is a solid blue, and there are decorative geometric shapes in pink, yellow, and grey in the corners.

# Syntactically Awesome Stylesheets

- Ominaisuudet
  - Muuttujat (Variables)
  - Alielementit ja -luokat (Nesting)
  - Osatiedostot (Partials)
  - Muuttujat argumenteilla (Mixins)
  - Perintä (Inheritance)
  - Operaattorit (Operators)



# Ominaisuudet

- Muuttujat (Variables)

```
8  $main-color: rgba(226,99,99,1);  
9  
10 ▾ html{  
11     margin:0px;  
12     border-top:2px solid $main-color;  
13 }
```

The Sass logo is written in a stylized, cursive pink font. It is located in the bottom right corner of the slide, partially overlapping the blue background and the decorative geometric shapes.

# Ominaisuudet

- Alielementit ja -luokat (Nesting)

```
64  .box-title{  
65      h1 {  
66          color:$main-color2;  
67      }  
68      h1::first-letter{  
69          color:$main-color;  
70      }  
71  }
```

The Sass logo is written in a stylized, cursive script. The word "Sass" is in a vibrant pink color. The letters are fluid and connected, with a large, elegant loop for the 'S' and a long, sweeping tail for the 's'.

# Ominaisuuudet

- Osatiedostot (Partials)

```
4  
5 @import "_fonts.scss";  
6 |
```

The Sass logo is a stylized, cursive script in a vibrant pink color, located in the bottom right corner of the slide. It features fluid, overlapping loops and a modern, handwritten aesthetic.

# Ominaisuudet

- Muuttujat argumenteilla (Mixins)

```
92 | @mixin border-radius($radius) {  
93 |     -webkit-border-radius: $radius;  
94 |     -moz-border-radius: $radius;  
95 |     -ms-border-radius: $radius;  
96 |     border-radius: $radius;  
97 | }  
98 |  
99 | #page-title{  
100 |     float:left;  
101 |     @include border-radius(50px);  
102 |     background-color:$main-color;  
103 |     height:80px;
```

The Sass logo is a stylized, handwritten-style wordmark in a light pink color, located in the bottom right corner of the slide.

# Ominaisuudet

- Perintä (Inheritance)

```
159 .message{  
160     width:100px;  
161     border:1px solid black;  
162 }  
163  
164 .success{  
165     @extend .message;  
166     color:green;  
167 }
```

The Sass logo is written in a stylized, cursive script. The word "Sass" is in a vibrant pink color. The letters are fluid and connected, with a large loop at the start of the 'S' and a long, sweeping tail on the 's'.



# Ominaisuudet

- Operaattorit (Operators)

```
116  
117 #page-title:hover{  
118     background-color:$main-color - 50;  
119 }  
120  
121
```

The Sass logo is written in a stylized, cursive pink font. It is located in the bottom right corner of the slide. The background of the slide is a solid blue color, with decorative geometric shapes in pink, yellow, and grey in the top right and bottom left corners.

# GRUNT

- Tehtävien käsittelijä (Task runner)
- Tehty JavaScript:lla
- Vaatimukset
  - NodeJS
  - GRUNT-komentorivikäyttöliittymä

