



Syntactically Awesome Stylesheets



*Jan Hančič*

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# Jan Hančič, web developer

CTO @ Popcom d.o.o. (Mojvideo.com, igre123.com, mojalbum.com, spored.tv, videoarhiv.com, ...)

<http://hancic.info>



## What is Sass?

Sass is compiler that “compiles” Sass code into CSS

Features:

- cleaner syntax
- variables
- SassScript
- mixins
- control structures (if, for, while)
- functions

## Syntax

```
1 .myDiv
2   background-color: red
3   border:
4     color: blue
5     width: 2px
6     style: solid
7   h1
8     color: green
```



```
1 .myDiv {
2   background-color: red;
3   border-color: blue;
4   border-width: 2px;
5   border-style: solid;
6 }
7
8 .myDiv h1 {
9   color: green;
10 }
```

- no semi colons at the end of the line
- no curly brackets
- indentation is used to tell what belongs to what

## Nesting

```
1 a
2   color: red
3   &:hover
4     color: green
5   &:visited
6     color: black
```

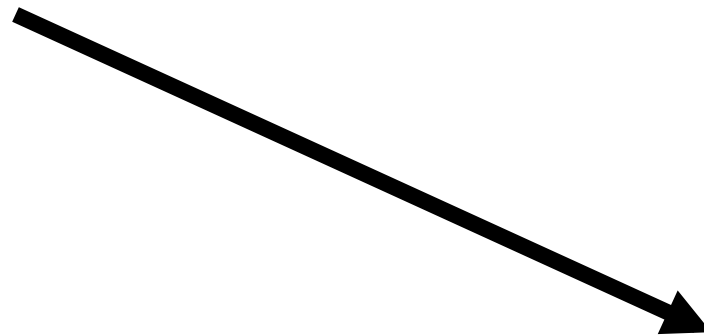


```
1 a {
2   color: red;
3 }
4
5 a:hover {
6   color: green;
7 }
8
9 a:visited {
10  color: black;
11 }
```

“&” is replaced with the parent selector

## Variables

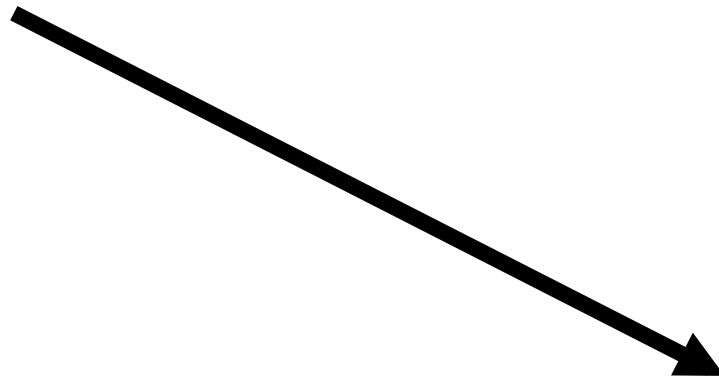
```
1 !myColor = blue
2
3 .myClass
4     background-color = !myColor
```



```
1 .myClass {
2     background-color: blue;
3 }
```

## SassScript

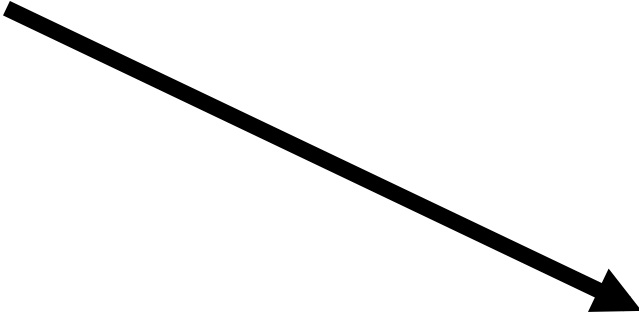
```
1 !baseSize = 10px
2
3 p
4     font-size = !baseSize
5
6 h1
7     font-size = !baseSize * 2
```



```
1 p {
2     font-size: 10px;
3 }
4
5 h1 {
6     font-size: 20px;
7 }
```

## Mixins

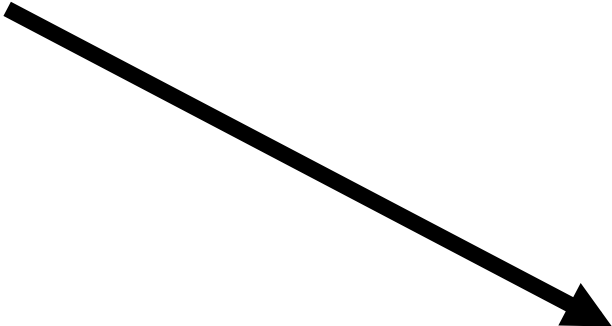
```
1 =rounded-box
2   -moz-border-radius: 5px
3   -webkit-border-radius: 5px
4   border-radius: 5px
5   border:
6     width: 1px
7     color: black
8     style: dotted
9
10
11 .myBox
12   +rounded-box
13   padding: 5px
```



```
1 .myBox {
2   -moz-border-radius: 5px;
3   -webkit-border-radius: 5px;
4   border-radius: 5px;
5   border-width: 1px;
6   border-color: black;
7   border-style: dotted;
8   padding: 5px;
9 }
```

## Mixins with arguments

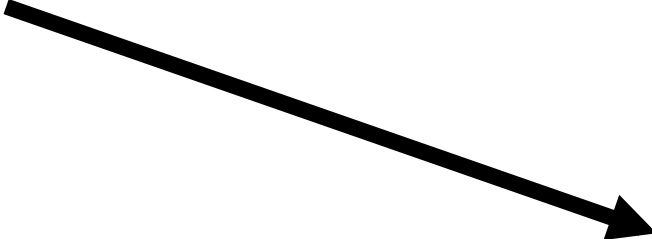
```
1 =rounded-box(!color, !style = "solid")
2   -moz-border-radius: 5px
3   -webkit-border-radius: 5px
4   border-radius: 5px
5   border:
6     width: 1px
7     color = !color
8     style = !style
9
10 .myBox
11   +rounded-box("blue", "dashed")
12   padding: 5px
```



```
1 .myBox {
2   -moz-border-radius: 5px;
3   -webkit-border-radius: 5px;
4   border-radius: 5px;
5   border-width: 1px;
6   border-color: blue;
7   border-style: dashed;
8   padding: 5px;
9 }
```

## Control structures - @if

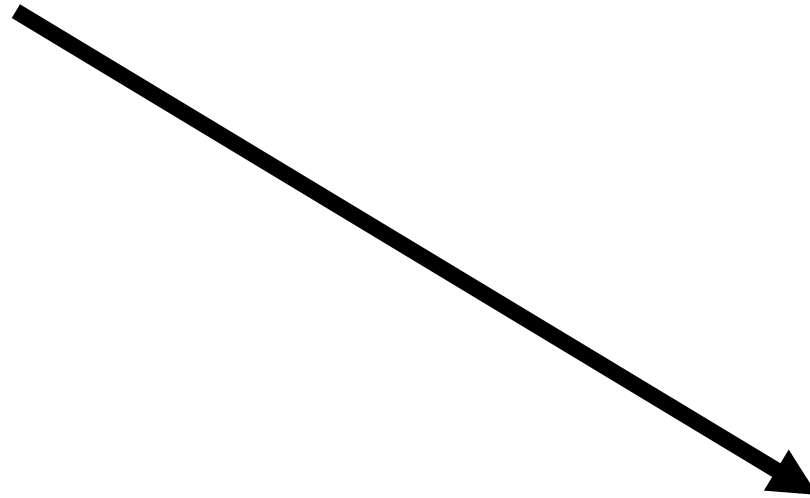
```
1 !activeTheme = "green"
2
3 !redThemeBackgroundColor = red
4 !redThemeTextColor = black
5
6 !greenThemeBackgroundColor = green
7 !greenThemeTextColor = white
8
9
10 body
11   @if !activeTheme == "red"
12     background-color = !redThemeBackgroundColor
13     color = !redThemeTextColor
14   @else
15     background-color = !greenThemeBackgroundColor
16     color = !greenThemeTextColor
```



```
1 body {
2   background-color: green;
3   color: white;
4 }
```

## Control structures - @for

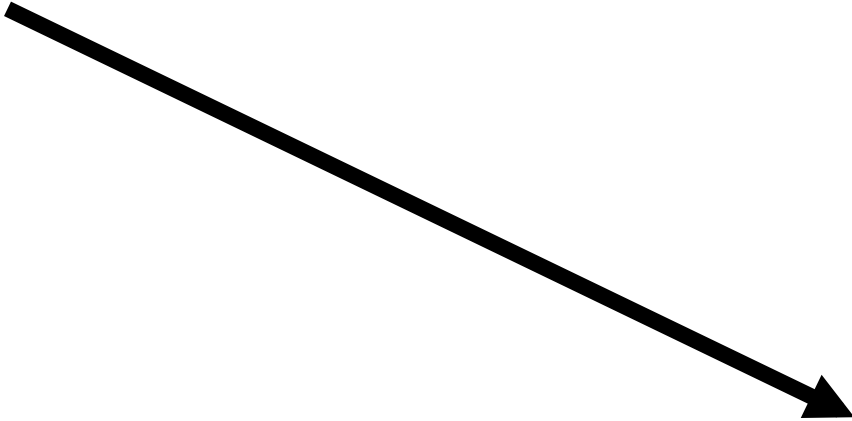
```
1 !numOfHs = 4
2 @for !i from 1 to !numOfHs
3     h#{!i}
4         font-size = 10px * (!numOfHs - !i)
```



```
1 h1 {
2     font-size: 30px;
3 }
4
5 h2 {
6     font-size: 20px;
7 }
8
9 h3 {
10    font-size: 10px;
11 }
```

## Control structures - @while

```
1 !i = 1
2 @while !i < 4
3     h#{!i}
4         font-size = 5px * (4 - !i)
5     !i = !i + 1
```



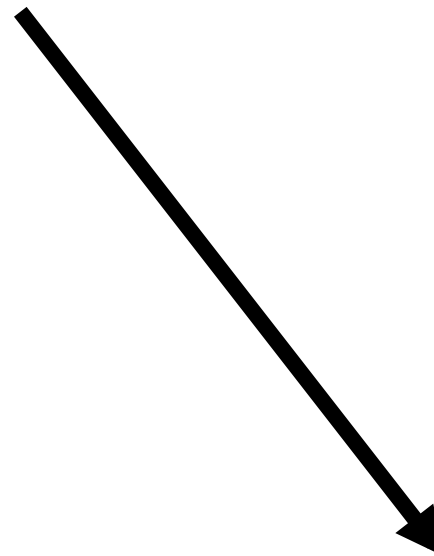
```
1 h1 {
2     font-size: 15px;
3 }
4
5 h2 {
6     font-size: 10px;
7 }
8
9 h3 {
10    font-size: 5px;
11 }
```

## Functions

```
1 !numOfHs = 4
2 @for !i from 1 to !numOfHs
3     h#{!i}
4     font-size = round(100px / (3 * !i))
```

Other functions:

- hsl (hue, saturation, lightness)
- rgb (red, green, blue)
- percentage
- round
- ceil
- floor
- abs



```
1 h1 {
2     font-size: 33px;
3 }
4
5 h2 {
6     font-size: 17px;
7 }
8
9 h3 {
10    font-size: 11px;
11 }
```



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## @import

Is used to import other Sass or CSS files into the current file

If you are importing Sass files they are included on the server



## Compiling Sass to CSS

*sass [options] input.sass output.css*

Different output styles (-t):

- nested (default)
- expanded (normal CSS style)
- compact (every selector and it's styles on it's own line)
- compressed (everything in one line, no whitespaces)



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## Links

- <http://sass-lang.com/> (home page of Sass)
- <http://vimeo.com/4335944> (screencast about Sass and Compass)
- <http://compass-style.org/> (Compass home page)
- <http://stackoverflow.com/search?q=sass>