

Sass cheatsheet

This is a quick reference cheat sheet that lists the most useful features of SASS.

Sass Basics

Introduction

- [Documentation](#) (sass-lang.com)
- [Learn X in Y minutes](#) (learnxinyminutes.com)

Variables

```
$defaultLinkColor: #46EAC2;

a {
  color: $defaultLinkColor;
}
```

String interpolation

```
$wk: -webkit-;

.rounded-box {
  #{ $wk }border-radius: 4px;
}
```

Comments

```
/*
Block comments
Block comments
Block comments
*/

// Line comments
```

Mixins

```
@mixin heading-font {
  font-family: sans-serif;
  font-weight: bold;
}

h1 {
  @include heading-font;
}
```

See: [Mixins](#)

Nesting

```
.markdown-body {
  a {
    color: blue;
    &:hover {
      color: red;
    }
  }
}
```

to properties

```
text: {
  // like text-align: center
  align: center;
  // like text-transform: uppercase
  transform: uppercase;
}
```

Extend

```
.button {
  ...
}

.push-button {
  @extend .button;
}
```

@import

```
@import './other_sass_file';
@import '/code', 'lists';

// Plain CSS @imports
@import "theme.css";
@import url(theme);
```

The .sass or .sass extension is optional.

Sass Mixins

Parameters

```
@mixin font-size($n) {
  font-size: $n * 1.2em;
}

body {
  @include font-size(2);
}
```

Default values

```
@mixin pad($n: 10px) {
  padding: $n;
}

body {
  @include pad(15px);
}
```

Default variable

```
$default-padding: 10px;

@mixin pad($n: $default-padding) {
  padding: $n;
}

body {
  @include pad(15px);
}
```

Sass Color functions

rgba

```
rgb(100, 120, 140)
rgba(100, 120, 140, .5)
rgba($color, .5)
```

Mixing

```
mix($a, $b, 10%) // 10% a, 90% b
```

Modifying HSLA

```
darken($color, 5%)
lighten($color, 5%)

saturate($color, 5%)
desaturate($color, 5%)
grayscale($color)

adjust-hue($color, 15deg)
complement($color) // like adjust-hue(_, 180deg)
```

Getting individual values

HSLA

```
hue($color) // 0deg..360deg
saturation($color) // 0%..100%
lightness($color) // 0%..100%
alpha($color) // 0..1 (aka opacity())
```

RGB

```
red($color) // 0..255
green($color)
```

```
invert($color)

fade-in($color, .5) // aka opacify()
fade-out($color, .5) // aka transparentize()
rgba($color, .5) // sets alpha to .5
```

```
blue($color)
```

See: hue(), red()

Adjustments

```
// Changes by fixed amounts
adjust-color($color, $blue: 5)
adjust-color($color, $lightness: -30%) // darken(_, 30%)
adjust-color($color, $alpha: -0.4) // fade-out(_, .4)
adjust-color($color, $hue: 30deg) // adjust-hue(_, 15deg)

// Changes via percentage
scale-color($color, $lightness: 50%)

// Changes one property completely
change-color($color, $hue: 180deg)
change-color($color, $blue: 250)
```

Supported: \$red, \$green, \$blue, \$hue, \$saturation, \$lightness, \$alpha

Sass Other functions

Strings

```
unquote('hello')
quote(hello)

to-upper-case(hello)
to-lower-case(hello)

str-length(hello world)
str-slice(hello, 2, 6) // "ello" - it's 1-based, not 0-based
str-insert("abcd", "X", 1) // "Xabcd"
```

Units

```
unit(3em) // 'em'
unitless(100px) // false
```

Numbers

```
floor(3.5)
ceil(3.5)
round(3.5)
abs(3.5)

min(1, 2, 3)
max(1, 2, 3)

percentage(.5) // 50%
random(3) // 0..3
```

Misc

```
variable-exists(red) // checks for $red
mixin-exists(red-text) // checks for @mixin red-text
function-exists(redify)

global-variable-exists(red)

selector-append('.menu', 'li', 'a') // .menu li a
selector-nest('.menu', '&:hover li') // .menu: hover li
selector-extend(...)
selector-parse(...)
selector-replace(...)
selector-unify(...)
```

Sass Feature checks

Feature check

```
feature-exists(global-variable-shadowing)
```

Features

- global-variable-shadowing
- extend-selector-pseudoclass
- units-level-3
- at-error

Sass Loops

For loops

```
@for $i from 1 through 4 {
  .item-#{ $i } { left: 20px * $i; }
}
```

Each loops (simple)

```
$menu-items: home about contact;

@each $item in $menu-items {
  .photo-#{ $item } {
    background: url("#{ $item }.jpg");
  }
}
```

Each loops (nested)

```
$backgrounds: (home, 'home.jpg'),
               (about, 'about.jpg');

@each $id, $image in $backgrounds {
  .photo-#{ $id } {
    background: url($image);
  }
}
```

While loops

```
$i: 6;
@while $i > 0 {
  .item-#{ $i } { width: 2em * $i; }
  $i: $i - 2;
}
```

Sass Other features

Conditionals

```
@if $position == 'left' {
  position: absolute;
  left: 0;
}
@else if $position == 'right' {
  position: absolute;
  right: 0;
}
@else {
  position: static;
}
```

Interpolation

```
#{ $class } { ... } // Class
call($function-name) // Functions

@media #{ $tablet }
font: #{ $size } / #{ $line-height }
url("#{ $background }.jpg")
```

Lists

```
$list: (a b c);

nth($list, 1) // starts with 1
length($list)

@each $item in $list { ... }
```

Maps

```
$map: (key1: value1, key2: value2, key3: value3);

map-get($map, key1)
```

cb

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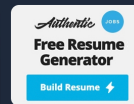


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中文版 #Notes

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