Sass

Comments

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

Variables:

```
$red: #833;
body {
   color: $red;
}
```

Nesting:

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

Mixins:

```
@mixin heading-font {
 font-family: sans-serif;
 font-weight: bold;
h1 {
 @include heading-font;
with parameters
@mixin font-size($n) {
 font-size: $n * 1.2em;
body {
 @include font-size(2);
with default values
@mixin pad($n: 10px) {
 padding: $n;
body {
 @include pad(15px);
with a default variable
// Set a default value
$default-padding: 10px;
@mixin pad($n: $default-padding) {
 padding: $n;
body {
 @include pad(15px);
rgba
rgb(100, 120, 140)
rgba(100, 120, 140, .5)
rgba($color, .5)
```

Getting individual values

```
HSLA
hue($color)
                // → 0deg..360deg
saturation(\$color) // \rightarrow 0%..100%
lightness($color) // → 0%..100%
alpha($color)
                // \rightarrow 0..1 (aka opacity())
RGB
                // \to 0..255
red($color)
green($color)
blue($color)
See: hue(), red()
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)
invert($color)
fade-in($color, .5) // aka opacify()
fade-out($color, .5) // aka transparentize() - halves the opacity
                // sets alpha to .5
rgba($color, .5)
Adjustments
// Changes by fixed amounts
adjust-color($color, $blue: 5)
adjust-color($color, $lightness: -30%) // like darken(_, 30%)
adjust-color($color, $alpha: -0.4) // like fade-out(_, .4)
adjust-color($color, $hue: 30deg)
                                    // like 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)
Strings
unquote('hello')
quote(hello)
to-upper-case(hello)
to-lower-case(hello)
str-length(hello world)
str-slice(hello, 2, 5)
                      // "ello" - it's 1-based, not 0-based
str-insert("abcd", "X", 1) // "Xabcd"
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
For loops
@for $i from 1 through 4 {
 .item-#{$i} { left: 20px * $i; }
$menu-items: home about services contact;
@each $item in $menu-items {
 .photo-#{$item} {
  background: url('images/#{$item}.ipg');
}
```

Interpolation

```
.#{$klass} { ... }
                  // Class
call($function-name) // Functions
@media #{$tablet}
font: #{$size}/#{$line-height}
url("#{$background}.jpg")
Conditionals
@if $position == 'left' {
 position: absolute;
 left: 0;
@else if $position == 'right' {
 position: absolute;
 right: 0;
@else {
 position: static;
Lists
$list: (a b c);
nth($list, 1) // starts with 1
length($list)
@each $item in $list { ... }
```