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WEB DEVELOPMENT



THE COMPLETE GUIDE CSS TO SAAS



Operators

\$font-stack

Sass

@extend

@mixins

Nesting

@use

Let's dive in





WHAT IS **SASS** ?

SASS stands for ***Syntactically Awesome Stylesheet***. Sass is an extension to CSS, it is a CSS pre-processor & is completely compatible with all versions of CSS.

Sass is free to download and use.





VARIABLES



CSS

```
body {  
  font: 100% Helvetica, sans-serif;  
  color: #333;  
}
```

SCSS

```
/*SCSS SYNTAX*/  
$font-stack: Helvetica, sans-serif;  
$primary-color: #333;  
  
body {  
  font: 100% $font-stack;  
  color: $primary-color;  
}
```

Sass

***DRY CODE**

NESTING



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OPERATORS

Doing *math in your CSS* is very helpful. Sass has a handful of standard math operators like :-

+, -, *, /, and %.

```
.container {  
  width: 100%;  
}  
article[role="main"] {  
  float: left;  
  width: 600px / 960px * 100%;  
}  
aside[role="complementary"] {  
  float: right;  
  width: 300px / 960px * 100%;  
}
```



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MIXINS

CSS

```
.box {  
  -webkit-transform: rotate(30deg);  
  -ms-transform: rotate(30deg);  
  transform: rotate(30deg);  
}
```

SCSS

```
@mixin transform($property) {  
  -webkit-transform: $property;  
  -ms-transform: $property;  
  transform: $property;  
}  
.box { @include transform(rotate(30deg)); }
```

***AGAIN DRY CODE & HAS A GREAT WORKFLOW**

MODULES



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FUNCTIONS & FOR LOOP

```
/* Creating our Own Function */
@function pow($base, $exponent) {
  $result: 1;
  @for $_ from 1 through $exponent {
    $result: $result * $base;
  }
  @return $result;
}

.sidebar {
  float: left;
  margin-left: pow(4, 3) * 1px;
}

/* Built-In Functions */
.button {
  $primary-color: #6b717f;
  color: $primary-color;
  border: 1px solid color.scale($primary-color, $lightness: 20%);
  //lightness is a built in function
}
```

Similar to lightness, SASS has so many built-in functions which are very useful in large applications.

Similarly to @for, SASS have @each, @while, @if & @else flow controls.



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NESTING

```
nav ul {  
  margin: 0;  
  padding: 0;  
  list-style: none;  
}  
nav li {  
  display: inline-block;  
}  
nav a {  
  display: block;  
  padding: 6px 12px;  
  text-decoration: none;  
}
```

CSS

CODE IS MORE
READABLE NOW

```
nav {  
  ul {  
    margin: 0;  
    padding: 0;  
    list-style: none;  
  }  
  li { display: inline-block; }  
  a {  
    display: block;  
    padding: 6px 12px;  
    text-decoration: none;  
  }  
}
```

SCSS

MIXINS

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INHERITANCE

Now this is
something
really useful
and yes again
it's DRY code.

```
%message-shared {  
  border: 1px solid #ccc;  
  padding: 10px;  
  color: #333;  
}  
.message {  
  @extend %message-shared;  
}  
.success {  
  @extend %message-shared;  
  border-color: green;  
}  
.error {  
  @extend %message-shared;  
  border-color: red;  
}  
.warning {  
  @extend %message-shared;  
  border-color: yellow;  
}
```

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MODULES

You don't have to write all your Sass in a single file. You can split it up however you want with the `@use` rule.

STYLES FILE

```
/* styles.scss */
@use 'base';
.inverse {
  background-color: base.$primary-color;
  color: #0D1117;
}
```

BASE FILE

```
// _base.scss
$font-stack: Helvetica, sans-serif;
$primary-color: #333;

body {
  font: 100% $font-stack;
  color: $primary-color;
}
```