

SASS Documentation

You can create Sass files as you create for CSS, but now make sure to put the right extension .css => .scss

SASS Comments

You can create Sass comments as we do in JavaScript.

// This is a Sass comment.

SASS variable

- Variables in Sass are just like properties where you store values to use them again somewhere on your code by calling that variable name.
- Variables start with a dollar sign \$ followed by the variable name.

E.g.

```
$main-fonts: Arial, sans-serif;
$headings-color: green;
//To use variables:
h1 {
    font-family: $main-fonts;
    color: $headings-color;
}
```

Note: CSS has variables of its own, which are totally different from Sass variables.

CSS Variable

Property names that are prefixed with --, like --example-name, represent custom
properties that contain a value that can be used in other declarations using the var()
function.

```
E.g.
:root {
--first-color: #16f;
--second-color: #ff7;
}
#firstParagraph {
```



```
background-color: var(--first-color);
color: var(--second-color);
}
```

Differences:

- CSS variables can have different values for different elements, but Sass variables only have one value at a time.
- Sass variables are *imperative*, which means if you use a variable and then change its
 value, the earlier use will stay the same. CSS variables are *declarative*, which means
 if you change the value, it'll affect both earlier uses and later use

To know more about the SASS variable, refer to this <u>link</u>.

SASS Nesting:

 Sass allows the nesting of CSS rules, which is a useful way of organizing a style sheet. It lets you nest your elements inside other elements in CSS.

E.g.

Notice that the style will apply to only the elements that are inside that specific nav in your HTML.

SASS Mixin

• In Sass, a mixin is a group of CSS declarations that can be reused throughout the style sheet. This helps not to repeat the same code over and over again.



 You can use mixins in Sass with the keyword mixin. It acts like a Javascript function, where you can put a piece of code and use it everywhere in your file.

```
E.g.
```

```
@mixin reset-list {
margin: 0;
padding: 0;
list-style: none;
}
@mixin horizontal-list {
@include reset-list;
li {
display: inline-block;
margin: {
left: -2px;
right: 2em;
}
}
}
Now, we can call this mixin by using the include directive.
nav ul {
@include horizontal-list;
}
```



 Mixins can also take arguments, which allows their behaviour to be customized each time they're called. The arguments are specified in the @mixin rule after the mixin's name, as a list of variable names surrounded by parentheses.

E.g.

```
@mixin box-shadow($x, $y, $blur, $c){
            box-shadow: $x $y $blur $c;
}
Have a look at the example below where we called our mixin inside a div element:
div {
    @include box-shadow(0px, 0px, 4px, #fff);
}
```

As you can see, we gave the values for our variables when we called the mixin function.

Use if and else to add logic to your mixin.

 Sass allows the use of if and else statements as we do with normal JavaScript functions. The directive @ if in Sass is useful to test for a specific case.

E.g.

```
@mixin text-effect($val) {
  @if $val == danger {
    color: red;
}
  @else if $val == alert {
    color: yellow;
}
  @else if $val == success {
    color: green;
}
  @else {
    color: black;
}
```

Now you can call that mixin inside an element p as an example:



```
p {
  font-size: 18px;
  @include text-effect(danger);
}
// The color will be red.
```

Note: We have to try to cover important concepts for further understanding. You can refer SASS <u>official doc</u>.