



**WHY
SASS?**

Why SASS?

Introduction to SASS	What is SASS?
SASS vs SCSS	Difference between SASS and SCSS.
Variables	How to use Variables in SASS?
@rules	(@use and @forward), (@mixin and @include) , and @extend.
Statements and Expressions	Where to write statements and expressions?
Style rules	Nesting, parent selector (&) and placeholder selector (%).



01. Introduction to SASS

What is SASS?

What is SASS?

- Preprocessor scripting language
- Compiled
- 2 Syntax
 - SASS (Indented)
 - SCSS (Superset of css)



02.

Variables and Interpolation

How to use Variables and Interpolation?

1. Variables

SCSS	CSS
Imperative	Declarative
Compiled, can not be reused.	You can access it using js

```
44 //SASS Variables
45 $color-header: red;
46
47 //CSS Variables
48 :root {
49   --color-heading: red;
50 }
```

```
<h1 class="titlecss">TITLE CSS</h1>  
<h1 class="titlescss">TITLE SCSS</h1>
```

```
124 .titlecss {  
125     color: var(--color-heading);  
126     --color-heading: #00ff00;  
127 }  
128  
129 .titlescss {  
130     color: $color-header;  
131     $color: #00ff00;  
132 }
```


TITLE CSS

TITLE SCSS

03.

@rules

@mixin and @include
@extend
@use and @forward



@mixin and @include

```
1  @mixin removePaddingMargin() {  
2      padding: 0;  
3      margin: 0;  
4  }
```

```
63  p {  
64      @include removePaddingMargin();  
65  }
```

@mixin and @include

```
6
7  ✓ @mixin displayFlex($flex-direction-column, $justify-content){
8      display: flex;
9  ✓  @if $flex-direction-column{
10      flex-direction: column;
11      }
12      justify-content: $justify-content;
13  }
```

@mixin and @include

```
21  ✓  <div class="nesting">
22      <div class="nesting space"></div>
23      <div class="space"></div>
24      <div class="nesting-space"></div>
25  </div>
```

@mixin and @include

```
99  .nesting {
100    width: 100%;
101    height: 700px;
102    margin: 0 auto;
103    /* display: flex;
104    justify-content: space-around; */
105    @include displayFlex(true, space-around);
106
```

You, now • Uncommitted changes

@mixin and *@include*



@extend

```
68  
69     %displayFlex{  
70         display: flex;  
71         justify-content: center;  
72         gap: 10px;  
73     }
```

```
109     .nesting {  
110         width: 100%;  
111         height: 700px;  
112         margin: 0 auto;  
113         /* display: flex;  
114         justify-content: space-around; */  
115         /* @include displayFlex(true, space-between) */  
116         @extend %displayFlex;
```


@extend

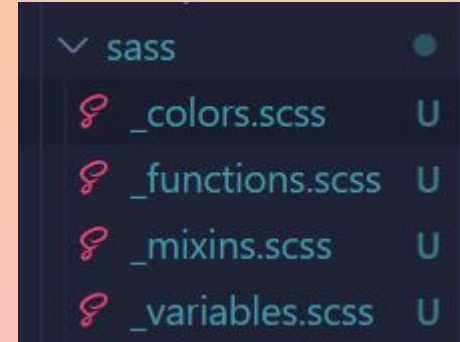


@use and @forward

```
src > sass > _index.scss
```

```
1  @forward 'sass/mixins';  
2  @forward 'sass/functions';  
3  @forward 'sass/variables';  
4  @forward 'sass/colors';  
5  |
```

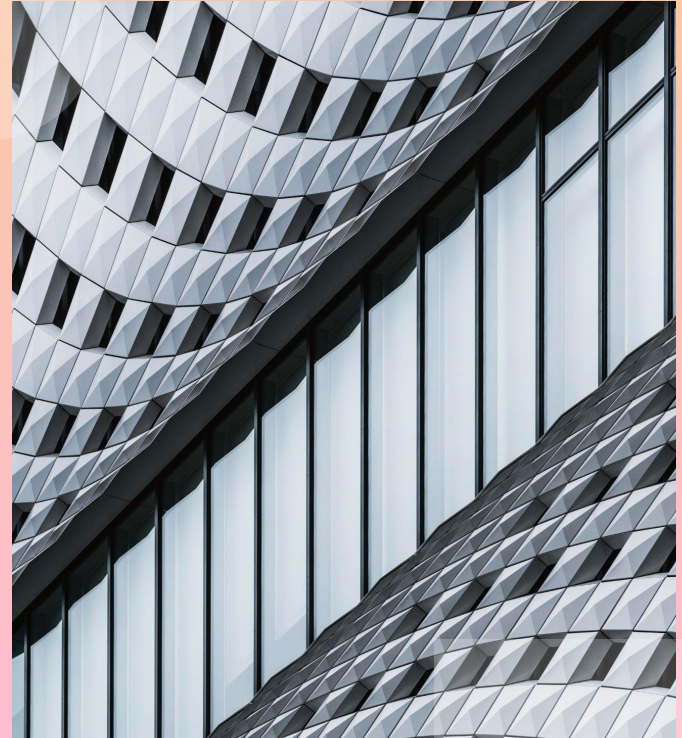
```
43  <style lang="scss">  
44  
45  @use 'sass' as *;
```



04.

Statements and Expressions

Where to write Statements and Expressions?



1. Statements

Variable	Anywhere
Style rule	Anywhere except inside functions.
@use	At the top of the sheet
@extend	Inside style rule
Property declaration	

2. Expressions

- Are
 - Variables
 - Function calls
 - Special functions
 - Calc
 - Lighten
 - Darken
 - Literals and operators
- These are passed to mixins and functions

05.

Style Rule Nesting

Nesting, Parent Selector (&),
and placeholder Selector (%)



1. CSS Properties

```
84 font: {  
85     family: Arial, "Helvetica Neue", Helvetica, sans-serif;  
86     size: 1.7rem;  
87     weight: 800;  
88 }
```

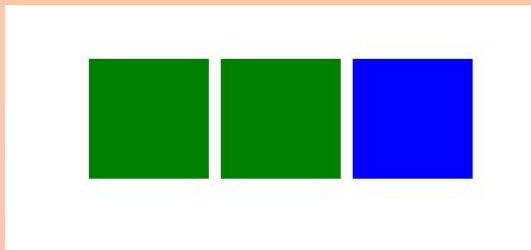
```
91 ✓ margin: {  
92     right: 10px;  
93     bottom: 50px;  
94 }
```

2. Parent Selector (&)

```
21  <div class="nesting">  
22    <div class="nesting space"></div>  
23    <div class="space"></div>  
24    <div class="nesting-space"></div>  
25  </div>
```

```
123  < .nesting {  
124    width: 100%;  
125    height: 700px;  
126    margin: 0 auto;  
127    @extend %displayFlex;  
128  
129  > & .square { ... BG: RED  
134    }  
135  > .square { ... BG: Green  
141    }  
142  > &-square { ... BG: Blue  
152    }  
153 }
```


2. Parent Selector (&)



```
123 .nesting {  
124   width: 100%;  
125   height: 700px;  
126   margin: 0 auto;  
127   @extend %displayFlex;  
128  
129   //affects -> class="nesting square "  
130 > & .square { ...  
135   }  
136   //affects -> div-> class="nesting", child div-> class="square"  
137 > .square { ...  
143   }  
144   //affects class="nesting-square"  
145 > &-square { ...  
155   }  
156 }
```

2. Placeholder Selector (%)

```
68  
69 %displayFlex{  
70   display: flex;  
71   justify-content: center;  
72   gap: 10px;  
73 }
```

Thank YOU

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