

# Belajar SASS Frontend Development

by Andar Pratama

```
<i class="fa fa-cash fa-3x"></i>
<h3>Happy Client</h3>
</div>
</div>
<!-- end first count item -->
<!-- second count item -->
<div class="col-md-3 col-sm-6 col-xs-12 text-center wow fadeInDown" data-wow-duration="500ms" data-wow-delay="200ms">
<div class="counters-item">
<div>
<span data-speed="3000" data-to="565">565</span>
</div>
<i class="fa fa-check-square fa-3x"></i>
<h3>Projects completed</h3>
</div>
</div>
<!-- second count item -->
<div class="col-md-3 col-sm-6 col-xs-12 text-center wow fadeInDown" data-wow-duration="500ms" data-wow-delay="400ms">
<div class="counters-item">
<div>
<span data-speed="3000" data-to="95">95</span>
<span>%</span>
</div>
<i class="fa fa-thumbs-up fa-3x"></i>
<h3>Feedback</h3>
</div>
</div>
<!-- end third count item -->
<!-- fourth count item -->
<div class="col-md-3 col-sm-6 col-xs-12 text-center wow fadeInDown" data-wow-duration="500ms" data-wow-delay="600ms">
<div class="counters-item kill-margin-bottom">
<div>
```

```
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81 .navbar-inverse .navbar-nav>li {
82   padding: 30px 10px;
83 }
84 .navbar-inverse.smaller .navbar-nav>li>a {
85   padding: 20px 10px;
86 }
87 .navbar-inverse .navbar-nav>li {
88   padding-right: 0;
89 }
90 #slitSlider .carousel-caption h2 {
91   font-size: 50px;
92 }
93 }
94 #nav-dots {
95   display: block;
96 }
97 #nav-arrows {
98   display: none;
99 }
100 .icon-box {
101   margin: 0 auto;
102   width: 60%;
103 }
104 .about-content {
105   margin: 0 auto 40px;
106   padding: 0;
107   width: 60%;
108 }
109 .why-item {
110   margin: 0 auto 35px;
111   text-align: center;
112   width: 50%;
```



# Today's Topic

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        <span>%</span>
        </div>
        <i class="fa fa-thumbs-up fa-3x"></i>
        <h3>Positive feedback</h3>
    </div>
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# Today's Topics

- Berkenalan dengan SASS
- Installation
- Nesting
- Variable
- Mixin
- Modules



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# Berkenalan dengan SASS

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```



# SASS

SASS merupakan singkatan dari **Syntactically Awesome Stylesheets**. SASS adalah sebuah bahasa pra-prosesor (preprocessor) untuk CSS.

SASS bukanlah bahasa pemrograman, SASS adalah bahasa yang akan di compile menjadi file **CSS**.



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# Installation

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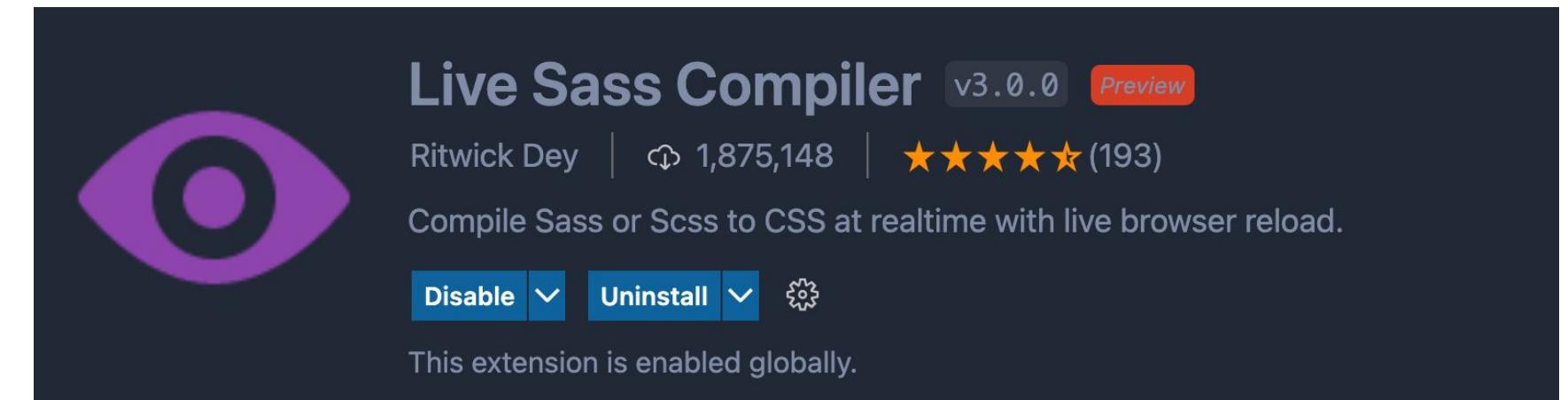
---

# Installation

- Package Manager (NPM)
- VSCode Extension

## VSCode Extension

Kita bisa menggunakan sebuah extension VSCode untuk meng-compile file SASS atau SCSS dengan menggunakan Extension yang bernama **Live SASS Compiler**

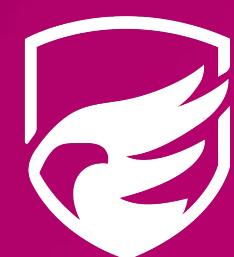


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# Nesting

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</div>
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```



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---

## Nesting

**Nesting (Bersarang)** adalah fitur yang memungkinkan kita untuk menulis selector CSS didalam selector yang lain.

## Nesting : Example - HTML

```
<nav>
  <ul>
    <li><a href="#">Home</a></li>
    <li><a href="/about">About</a></li>
    <li><a href="/contact">Contact</a></li>
  </ul>
</nav>
```

# Nesting : Example - CSS

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

# Nesting : Example - SASS

```
nav {  
  ul {  
    margin: 0;  
    padding: 0;  
    list-style: none;  
  }  
  
  li {display: inline-block;}  
  
  a {  
    display: block;  
    padding: 6px 12px;  
    text-decoration: none;  
    color: black;  
  }  
  
  &:hover {  
    cursor: pointer;  
    color: red;  
  }  
}
```

## Nesting : Parent Selector

Menggunakan karakter “&”

& {

}

## Nesting : Parent Selector + Pseudo Class

Menggunakan karakter “&” diikuti karakter “:” dan nama Pseudo Class.

```
&:hover {
```

```
}
```

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# Variabel

```
<i class="fa fa-thumbs-up fa-3x"></i>
<h3>Positive feedback</h3>
</div>
</div>
<!-- end third count item -->
<!-- fourth count item -->
<div class="col-md-3 col-sm-6 col-xs-12 text-center wow fadeInDown"
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```



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---

## Variabel

**Variabel** adalah sebuah tempat yang kita buat sendiri untuk menampung sebuah data, agar bisa kita gunakan berulang kali.

# Variabel : CSS vs. SASS

## with CSS



```
1 :root {  
2   --primaryColor: lime;  
3   --secondaryColor: blue;  
4   --textColor: red;  
5 }  
6  
7 body {  
8   background: var(--primary-color);  
9 }
```

# Variabel : CSS vs. SASS

with SASS

```
1 $primaryColor: lime;
2 $secondaryColor: blue;
3 $textColor: red;
4
5 body {
6   background: $primaryColor;
7 }
```

5/6

# Mixin

```
<i class="fa fa-thumbs-up fa-3x"></i>
<h3>Positive feedback</h3>
</div>
</div>
<!-- end third count item -->
<!-- fourth count item -->
<div class="col-md-3 col-sm-6 col-xs-12 text-center wow fadeInDown"
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## Mixin

**Mixin** adalah kumpulan style dibuat dan dapat digunakan berulang-ulang. Mirip seperti *function* pada bahasa pemrograman

## Menggunakan Mixin

- **@mixin** ( keyword untuk membuat mixin )
- **@include** ( keyword untuk memanggil mixin )

# Mixin : Example

```
1 @mixin textstyle {  
2     font-size: 16px;  
3     color: darkblue;  
4     font-style: italic ;  
5 }  
6  
7 p {  
8     @include textstyle;  
9     margin-top: 20px;  
10 }
```

# Mixin : Parameter

```
 1 @mixin flexbox($direction: row) {  
 2   display: flex;  
 3   justify-content: center;  
 4   align-items: center;  
 5   flex-direction: $direction;  
 6 }  
 7  
 8 .container {  
 9   @include flexbox  
10 }
```

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# Modules

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---

## Modules

**Modules** adalah sebuah fitur SASS yang berfungsi untuk mengelompokan kode-kode SASS di file-file terpisah agar menjadi lebih modular.

---

# Modules : Keyword

- **@import**
- **@use**

---

## Modules : Name File

- `_mixins.scss`
- `_variabel.scss`
- `_typography.scss`
- `dll`

## Modules : Name File

- Dengan menambahkan karakter “\_” di depan nama file, nantinya file tersebut tidak akan melalui proses compile.
- Menandakan bahwa file tersebut, merupakan file bertipe partsial. Artinya bukan file utama.

## Modules : Import

@import 'mixins'

@import 'variables'

atau

@import 'mixins', 'variables';

## Modules : Kelemahan Import

- Membuat scope semua file mixin, variabel dan function menjadi global
- dll

---

## Modules : Use

@use 'mixins'

@use 'variables'

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# Thank You!

Andar Pratama

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