

# Belajar SASS Frontend Development

by Andar Pratama





# Today's Topic

```
<i class="fa fa-check-square fa-3x"></i>
<h3>Happy Clients</h3>
</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>
<!-- end second count item -->
<!-- third 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>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"
data-wow-duration="500ms" data-wow-delay="600ms">
  <div class="counters-item kill-margin-bottom">
    <div>
```

```

80
81 .navbar-inverse .navbar-nav>li>a {
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%;
113 }
```



## Today's Topics

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





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# Berkenalan dengan SASS



## 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**.





# Installation

```
<!-- first 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>
<!-- 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="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>Positive feedback</h3>
  </div>
</div>
<!-- end second count item -->

<!-- third 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>
      <span data-speed="3000" data-to="100">100</span>
      <span>%</span>
    </div>
    <i class="fa fa-heart fa-3x"></i>
    <h3>Love from clients</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="800ms">
  <div class="counters-item">
    <div>
      <span data-speed="3000" data-to="100">100</span>
      <span>%</span>
    </div>
    <i class="fa fa-cash fa-3x"></i>
    <h3>Revenue generated</h3>
  </div>
</div>
<!-- end fourth count item -->

<!-- fifth count item -->
<div class="col-md-3 col-sm-6 col-xs-12 text-center wow fadeInDown"
data-wow-duration="500ms" data-wow-delay="1000ms">
  <div class="counters-item">
    <div>
      <span data-speed="3000" data-to="100">100</span>
      <span>%</span>
    </div>
    <i class="fa fa-users fa-3x"></i>
    <h3>Happy Clients</h3>
  </div>
</div>
<!-- end fifth count item -->
```

```

80 .navbar-inverse .navbar-nav>li {
81     padding: 30px 10px;
82 }
83 .navbar-inverse.smaller .navbar-nav>li>a {
84     padding: 20px 10px;
85 }
86 .navbar-inverse .navbar-nav>li {
87     padding-right: 0;
88 }
89 #slitSlider .carousel-caption h2 {
90     font-size: 50px;
91 }
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93 #nav-dots {
94     display: block;
95 }
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%;
113 }

```



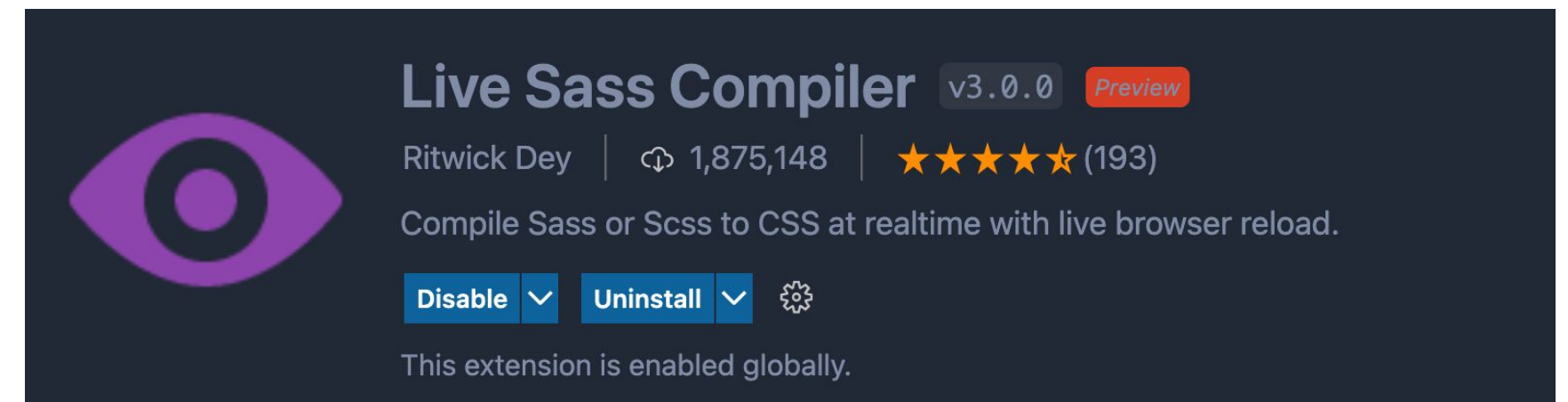


## Installation

- 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**





# Nesting

# Nesting

The logo for Salt Academy, featuring a stylized shield with a flame-like shape inside, and the text "salt academy" in a modern, lowercase font.

## 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 {
```

```
}
```

# Variabel

```
<!-- first 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>
<!-- 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="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>Positive feedback</h3>
  </div>
</div>
<!-- end second count item -->

<!-- third 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>
      <span data-speed="3000" data-to="100">100</span>
      <span>%</span>
    </div>
    <i class="fa fa-heart fa-3x"></i>
    <h3>Love from clients</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="800ms">
  <div class="counters-item">
    <div>
      <span data-speed="3000" data-to="100">100</span>
      <span>%</span>
    </div>
    <i class="fa fa-cash fa-3x"></i>
    <h3>Money earned</h3>
  </div>
</div>
<!-- end fourth count item -->

<!-- fifth count item -->
<div class="col-md-3 col-sm-6 col-xs-12 text-center wow fadeInDown"
data-wow-duration="500ms" data-wow-delay="1000ms">
  <div class="counters-item">
    <div>
      <span data-speed="3000" data-to="100">100</span>
      <span>%</span>
    </div>
    <i class="fa fa-users fa-3x"></i>
    <h3>Happy Clients</h3>
  </div>
</div>
<!-- end fifth count item -->

<!-- end of counters -->
</div>
</div>
```

```

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

```



## 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 }
```

# Mixin

```

<i class="fa fa-check-square fa-3x"></i>
<h3>Happy Clients</h3>
</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>
<!-- end second count item -->
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<div>
<span data-speed="3000" data-to="95">95</span>
<span>%</span>
</div>
<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"
data-wow-duration="500ms" data-wow-delay="600ms">
<div class="counters-item kill-margin-bottom">
<div>

```

```

80 .navbar-inverse .navbar-nav>li {
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100     margin: 0 auto;
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102 }
103 .about-content {
104     margin: 0 auto 40px;
105     padding: 0;
106     width: 60%;
107 }
108 .why-item {
109     margin: 0 auto 35px;
110     text-align: center;
111     width: 50%;
112 }
113 }

```





## 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

```
<i class="fa fa-check-square fa-3x"></i>
<h3>Happy Clients</h3>
</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>
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<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>Positive feedback</h3>
  </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>
```

```
80
81 .navbar-inverse .navbar-nav>li>a {
82   padding: 30px 10px;
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88   padding-right: 0;
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95   display: block;
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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%;
113 }
```

## Modules

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



# salt

---

## 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 partial. 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'



# Thank You!

Andar Pratama

