

What is SASS?

SASS (Syntactically Awesome Stylesheet) is a CSS pre-processor which helps to reduce repetition with CSS and saves time. It is more stable and powerful CSS extension language that describes style of document cleanly and structurally.

Why to use SASS?

- It is pre-processing language which provides indented syntax (its own syntax) for CSS.
- It allows writing code more efficiently and easy to maintain.
- It is super set of CSS which contains all the features of CSS and is an open source pre-processor, coded in Ruby.
- It provides document style in good structure format than flat CSS.
- It uses re-usable methods, logic statements and some of the built in functions such as color manipulation, mathematics and parameter lists.

List out some features of SASS?

- It is more stable, powerful and compatible with versions of CSS.
- It is super set of CSS and is based on the JavaScript.
- It is known as syntactic sugar for CSS which means it makes easier way for user to read or express the things more clearly.
- It uses its own syntax and compiles to readable CSS.
- You can easily write CSS in less code within less time.
- It is an open source pre-processor which is interpreted into CSS.

Difference between SASS and SCSS?

SCSS stands for Sassy CSS, and it keeps all the traditional CSS syntax, but adds in the Sass superpowers.

The biggest difference between the two is Sass (using .sass file extension) uses indentation instead of curly braces and semi-colons.

SCSS introduced in CSS3 Advance topics and majorly these both terms use interchangeably. Not major difference.

For more on difference read these:

[Difference](#)

Testing SASS : [Sassmiester](#)

More example: <https://www.javatpoint.com/sass-vs-scss>

How to use SASS with our IDE'S:

Many ways:

- By command line (mostly used)
- By ruby language
- By using SASS VS Code extension(I am following this)

Check at [freecodecamp](https://www.freecodecamp.org/) also used same terminology and example website

1. Integrating Sass within Visual Studio Code

2. Sass Variables

3. Sass Maps

4. Nesting

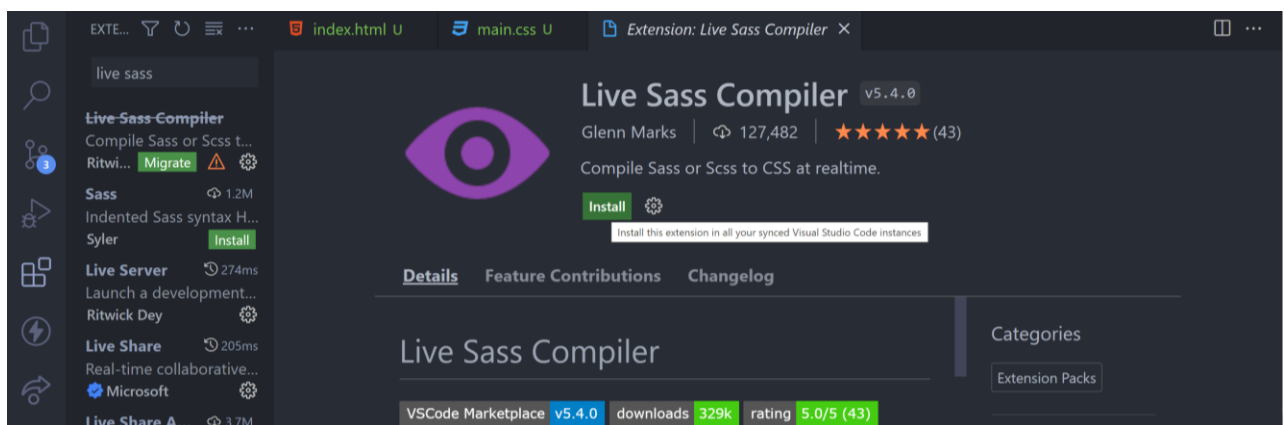
5. Mixins

6. Functions

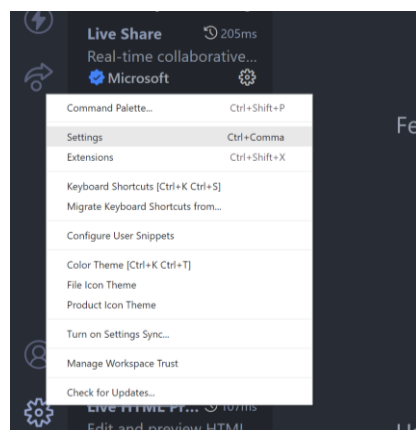
7. Sass & Media Queries

1. Integrating Sass within Visual Studio Code

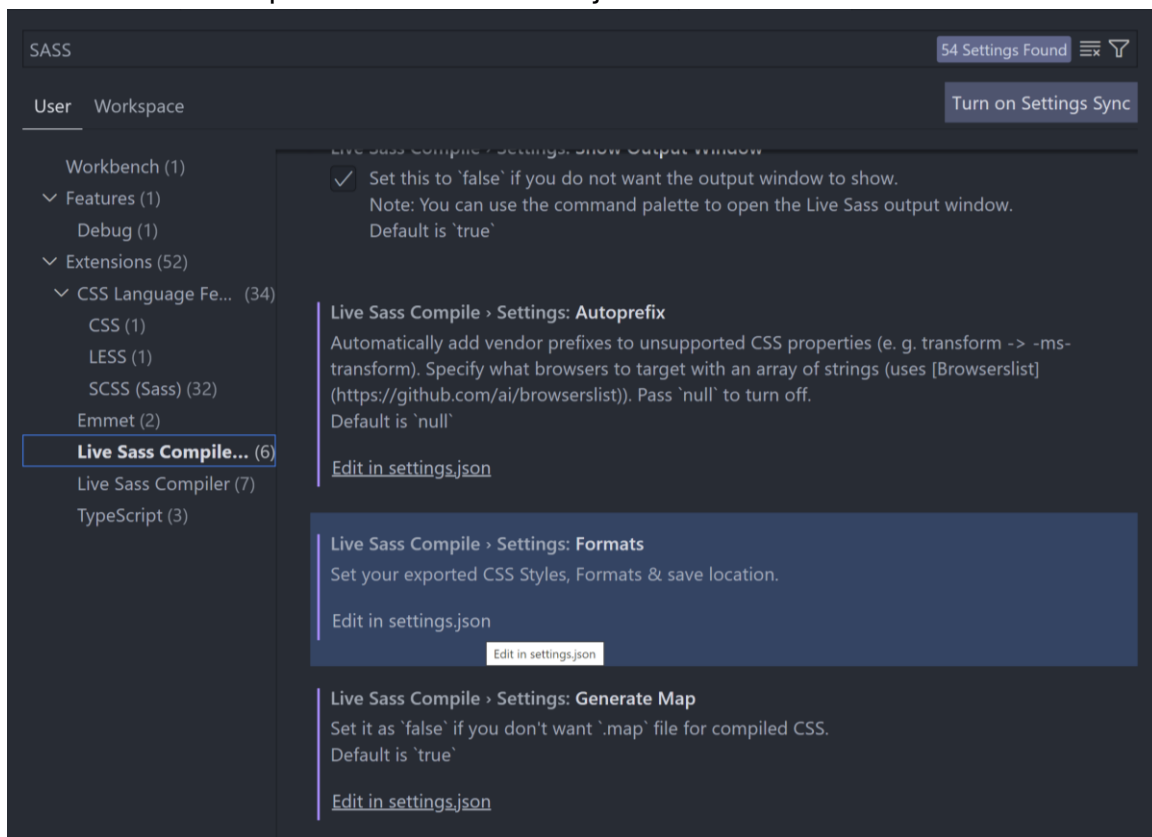
Open extension tabs and search: Live SASS Compiler



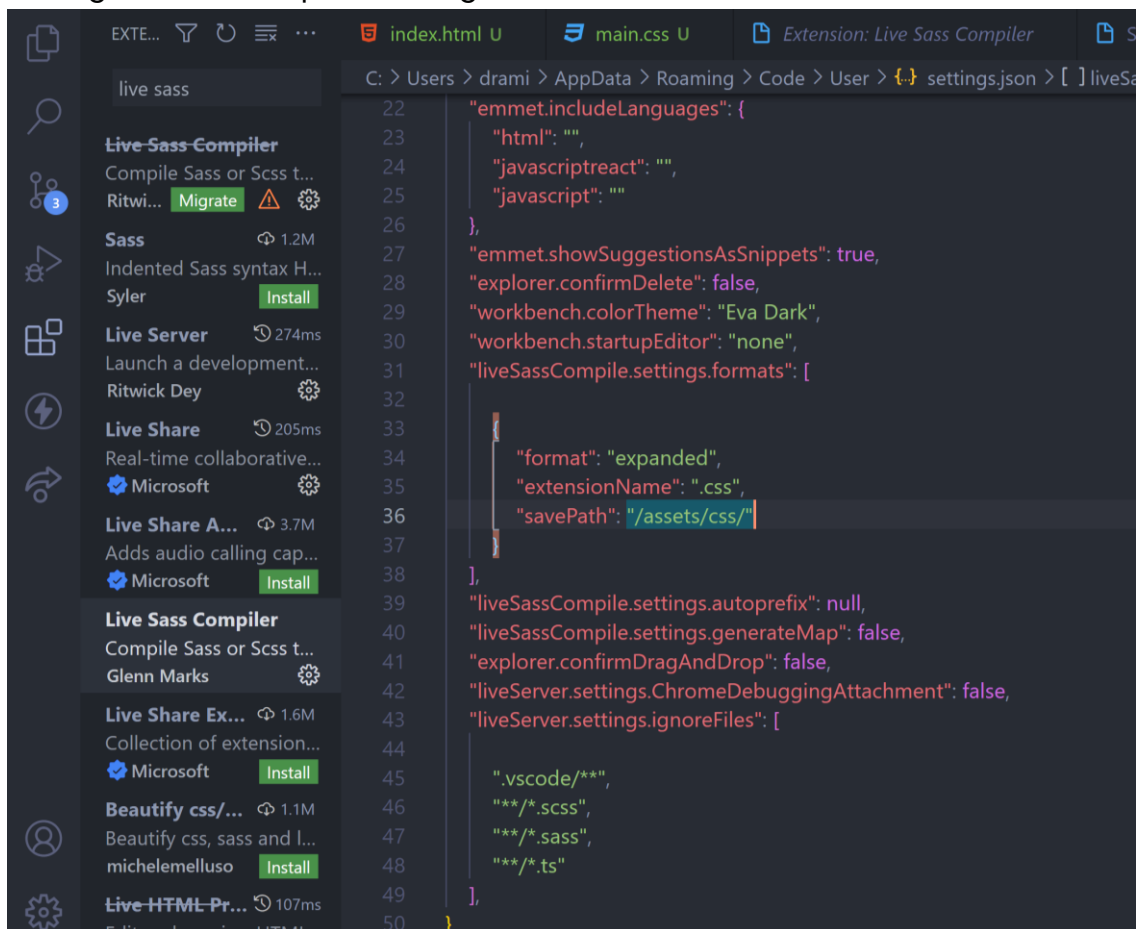
Go to Settings



Search SASS Compiler and then Format json file:

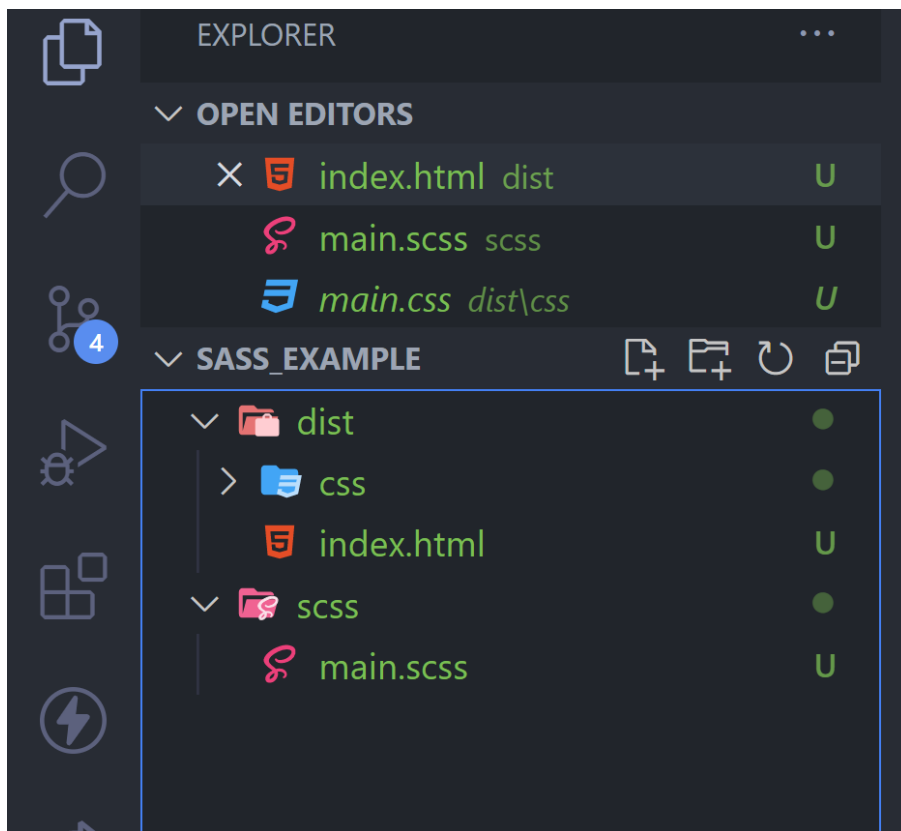


Change the default path settings:



```
//This is your change save path
{
  "format": "expanded",
  "extensionName": ".css",
  "savePath": "/dist/css"
},
```

Now make an empty folder with name and open it with VS Code and then create a folder dist ,css folder,index.html,scss with main.css file folder like this:



Now write in index.html file and link stylesheet : don't create css file it as it will be created automatically by scss compiler

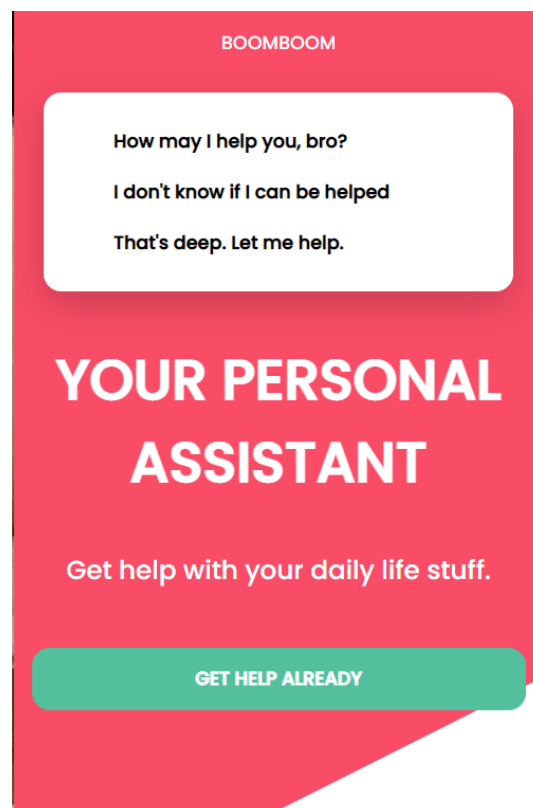
```
<link rel="stylesheet" href="./css/main.css">
```

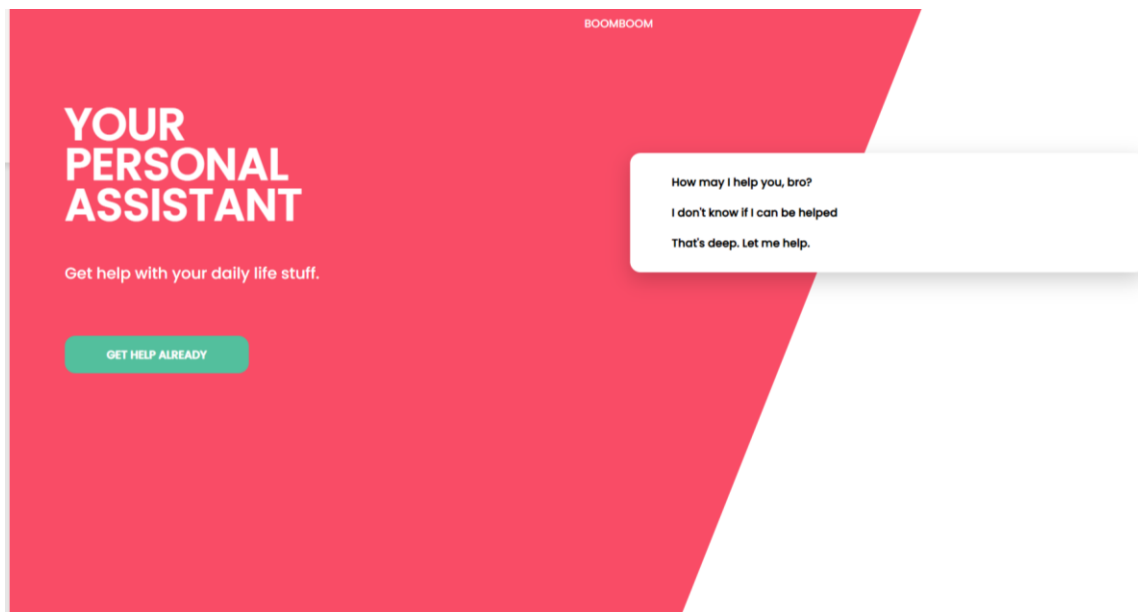
Now look at two syntax of SASS Pre-processor:

SCSS SYNTAX	SASS ORIGINAL SYNTAX
<pre>@mixin button-base() { @include typography(button); display:inline-flex; position:relative; height:\$button-height; border:none; vertical-align:middle; &:hover{cursor:pointer;} }</pre>	<pre>INDENTED SYNTAX @mixin button-base() @include typography(button) display:inline-flex position:relative height:\$button-height border:none vertical-align:middle &:hover cursor:pointer</pre>

Example:

Create the webpage like this by using SCSS pre-processors. First Create mobile version:





Colour palette:

<https://colorhunt.co/palette/53bf9df94c66bd4291ffc54d>

First write in index.html file:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <meta http-equiv="X-UA-Compatible" content="ie=edge">
  <title>SASS Example</title>
  <link rel="stylesheet" href="css/main.css">
</head>
<body>

  <div id="bg"></div>

  <header>
    <a href="#">BoomBoom</a>
  </header>

  <main>
    <section id="card">
      <ul>
        <li>
          <span></span>
          <strong>How may I help you, bro?</strong>
        </li>
        <li>
```

```

        <span></span>
        <strong>I don't know if I can be helped</strong>
      </li>
      <li>
        <span></span>
        <strong>That's deep. Let me help.</strong>
      </li>
    </ul>
  </section>
  <section id="primary">
    <h1>Your Personal Assistant</h1>
    <p>Get help with your daily life stuff.</p>

    <a href="#">Get help already</a>
  </section>
</main>
</body>
</html>

```

Apply now in main.scss:

SASS Variables:

```

$mycolor: #F94C66;

body{
  background-color:$mycolor;
}

```

You can create as many variables and pass to the properties.

SASS Maps: Helps in organising

We want to create different type of colors so how it works:

```

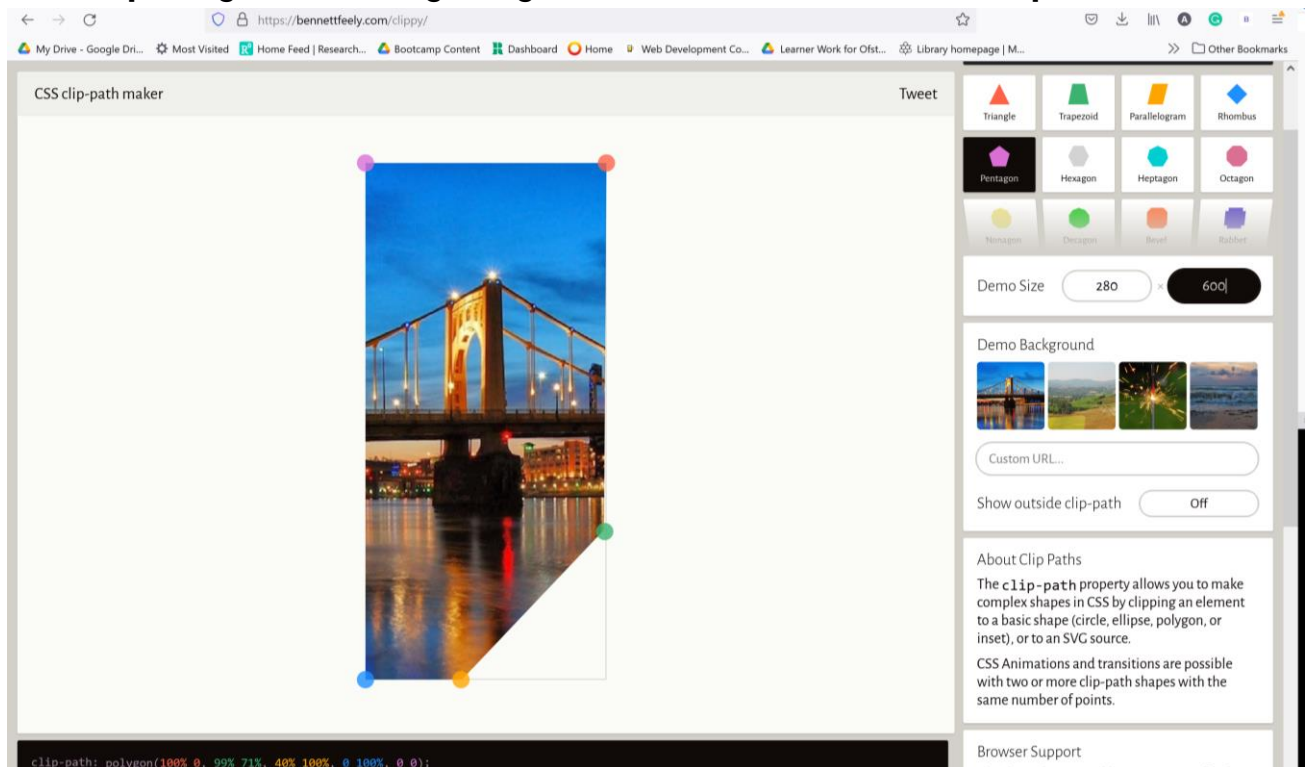
$colors:(
  primary: #F94C66,
  accent:#FFF6BB
);
body{
  background-color:map-get($colors,primary);
}

```

Now in order to make mobile app style we need to use some properties :**Clip path**
(Very handy)

Goto [https://bennettfeely.com/](https://bennettfeely.com/clippy/) and search Clippy

Choose pentagon and change height to 600 and then create the shape:



Now go to main.scss file:

Add these:

```
@import
url('https://fonts.googleapis.com/css2?family=Mochiy+Pop+P+One&family=Nunito&family=Poppins:wght@300;500&family=Roboto+Slab&family=Roboto:wght@300;700;900&display=swap');

body, html {
  height: 100%;
}

body {
  font-family: 'Poppins';
  margin: 0;

  #bg {
    clip-path: polygon(100% 0, 100% 82%, 45% 100%, 0 100%, 0 0);
```



```
background-color: color(primary);  
width: 100%;  
height: 100%;  
position: absolute;  
z-index: -1;  
  
}
```

Will do the rest on Wednesday