



_nology

TALENT IN **TECH**NICOLOUR

Building Better HTML/CSS

Aims of the session

- What are CSS preprocessors?
- What are the benefits?
- What is SCSS & how do we use it?
 - Setup and syntax
- How can we better name classes?
- File structure

Why?

Consistent
Themes?

Naming
Conventions?

File
Structure?



SASS & BEM

Changing
Code?

SCSS - CSS Preprocessor

What is it?

- Variables
- Nested styles
- Imports/ Use



Variables



```
$primary-color: green;

body {
  color: $primary-color;
}
p {
  border: 1px solid $primary-color;
}
```



```
body {
  color: green;
}
p {
  border: 1px solid green;
}
```

Nesting




```
nav {  
  ul {  
    margin: 0;  
  
    li {  
      display: inline-block;  
    }  
  }  
}
```



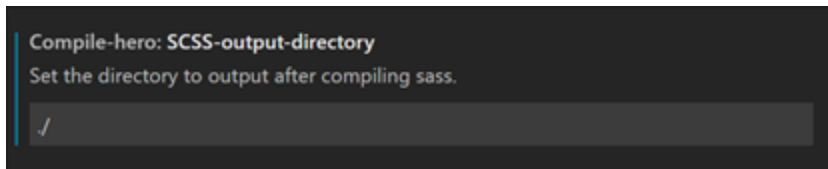
```
nav ul {  
  margin: 0;  
}  
nav ul li {  
  display: inline-block;  
}
```

Trying SCSS



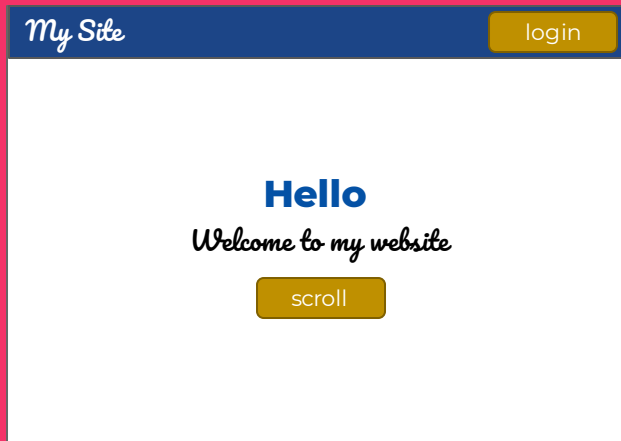
The screenshot shows the Visual Studio Code interface with the 'Sass/Less/Stylus/TypeScript/Javascript/Jade/Pug Compile Hero Pro' extension installed and enabled globally. The extension is by Eno Yao, has 4,955,308 installs, and a 4.5-star rating. The interface also shows a list of other extensions in the sidebar, including 'Sass', 'Sass/Less/Stylus/T...', 'Formatter Hero - B...', and 'Live Sass Compiler'.

Note: If .scss is compiling into 'dist'. Scroll to the bottom of settings and change the output



Code Along / Challenge

1. Let's code something with SCSS
2. Set variables for colors, fonts, and font sizes
3. Note: this is not a box. It should be an entire website



Modules



```
nav {  
  ul {  
    margin: 0;  
  
    li {  
      display: inline-block;  
    }  
  }  
}
```

'_nav.scss'



```
@use '_nav'  
  
* {  
  font-family: 'Arial';  
}
```

'styles.scss'

Meaningful SCSS modules

- `_variables.scss`
- `_typography.scss`



“One file to rule them all,
One file to find them,
One file to bring them all,
And in the SASS way, merge them”

import everything into `styles.scss`

<https://sass-guidelin.es/#the-7-1-pattern>

Block Element Modifier - B.E.M

Block

- Standalone entity that is meaningful on its own.

Element

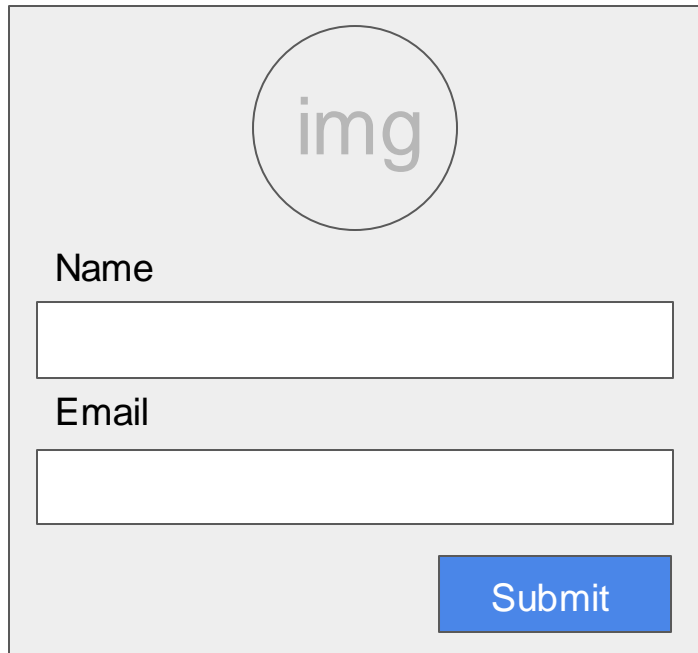
- A part of a block that has no standalone meaning and is semantically tied to its block.

Modifier

- A flag on a block or element. Use them to change appearance or behaviour.



Naming things



```
<form>
  
  <label for="name">Name</label>
  <input type="text" />
  <label for="email">Email</label>
  <input type="email"/>
  <button>Submit</button>
</form>
```

Naming things with BEM

Block

img Element

Name Element

Name

Email

Element Submit

Modifier

```
<form class="form">
```

```

```

```
<label class="form__label" >Name</label>
```

```
<input class="form__input" type="text" />
```

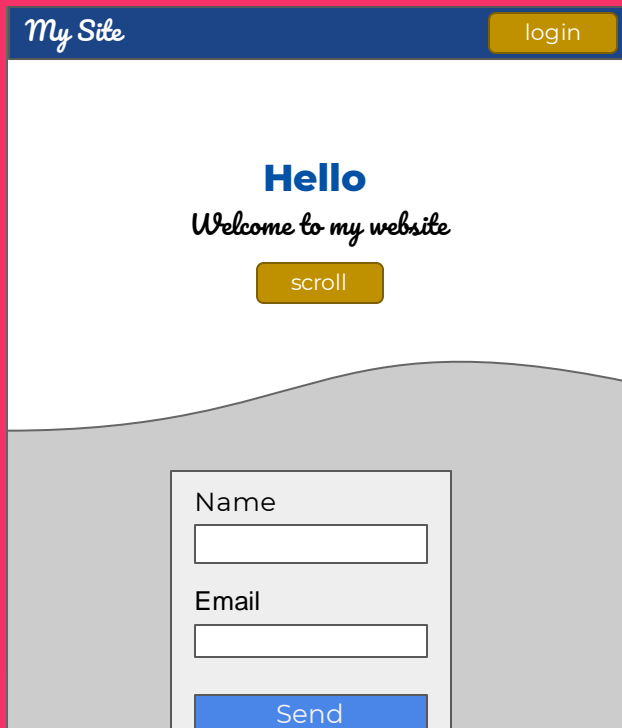
```
<label class="form__label" >Email</label>
```

```
<input class="form__input" type="email"/>
```

```
<button class="form__submit form__submit--active">Submit</button></form>
```

Code Along / Challenge

1. Build a contact form below the welcome message
2. Use BEM naming conventions and module/imports



Takeaway Challenge

A new thank you section below the contact form.

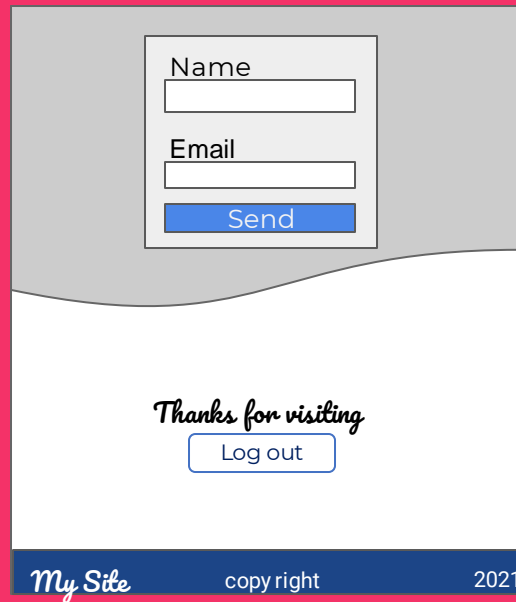
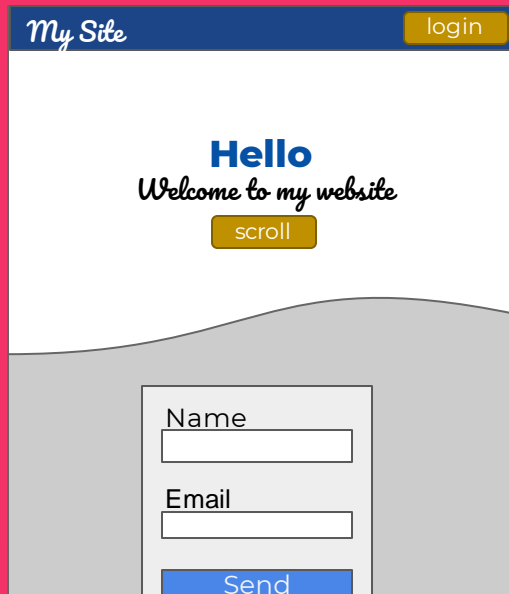
This should include:

- A thank you message
- A new button style

A footer that reuses the logo. It should also have a copyright and date.

This should match the wireframe to the side.

This should be implemented with Modules, Nesting and Variables with SCSS and be named using B.E.M conventions.



Additional resources

- [Sass: Sass Basics \(sass-lang.com\)](http://sass-lang.com)
- www.learnhowtoprogram.com/user-interfaces/building-layouts-preprocessors/7-1-sass-architecture
- <http://getbem.com/>
- www.youtube.com/watch?v=er1JEDuPbZQ