

## Working with mixins

Sass defines the concept of mixins. Mixins let you define common properties once, and then reuse them over and over again throughout your style sheet files. Mixins are defined by using the `@mixin` directive. Sass actually requires that you use the mixin directive. So you write `@mixin`, then you give it the name of the mixin, and then you define the properties inside the mixin class. When you want to go use the mixin, you need to use the `@include` directive.

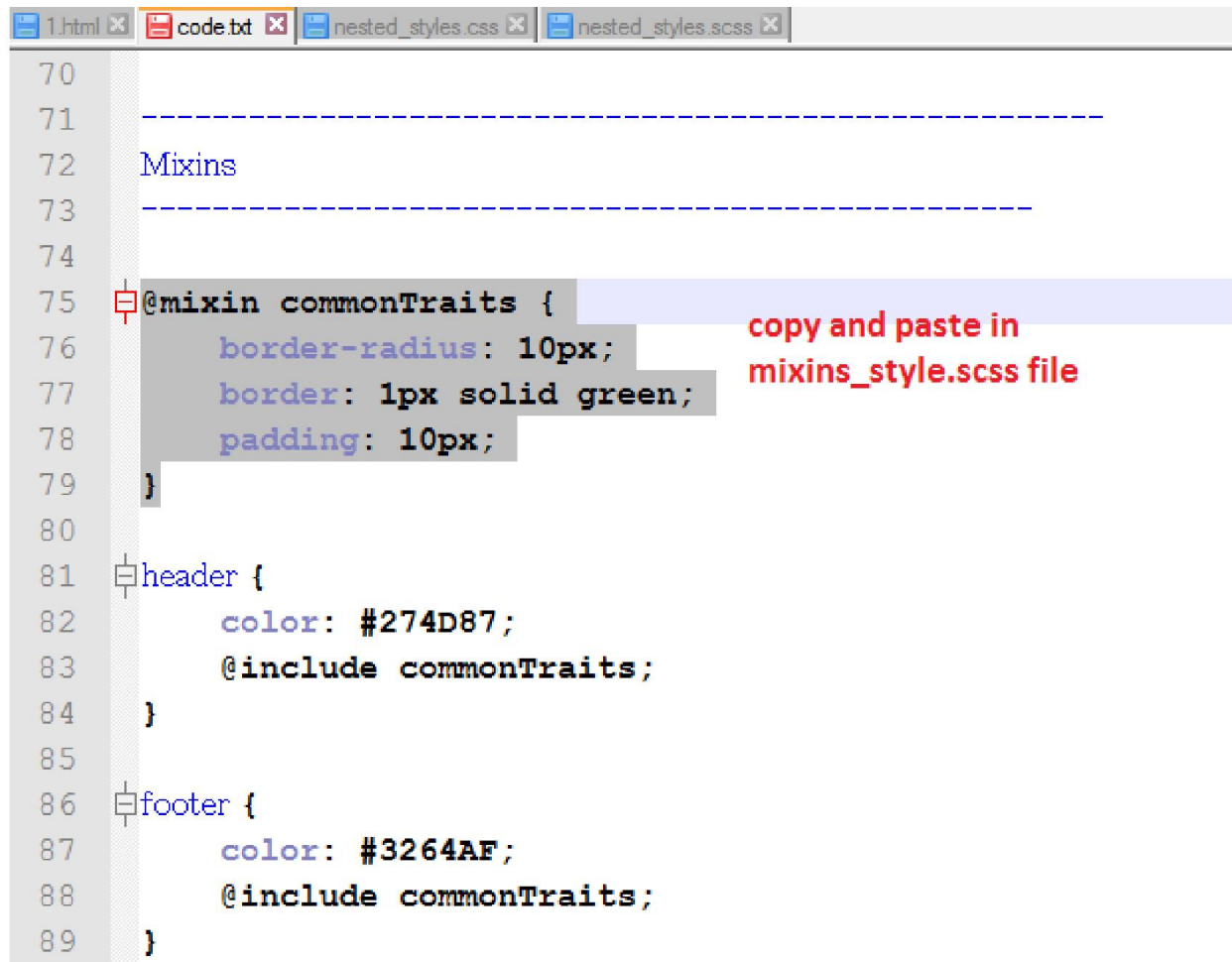
So, in this case, I have a style rule, which is including the `myMixin` directive. So let's jump over the code and see. Okay, so here in the snippets, I've scrolled down to the Sass Mixins example, and I've got my `SampleDoc`, and I'm going to open up `mixin_styles.scss`, and let's go ahead and copy some stuff. So I'll copy the common traits into the style sheet over here.

Let's start:-

1. Open `code.txt` file and copy code for mixins. Here I copy

```
-----  
Mixins  
-----
```

```
@mixin commonTraits {  
  border-radius: 10px;  
  border: 1px solid green;  
  padding: 10px;  
}
```

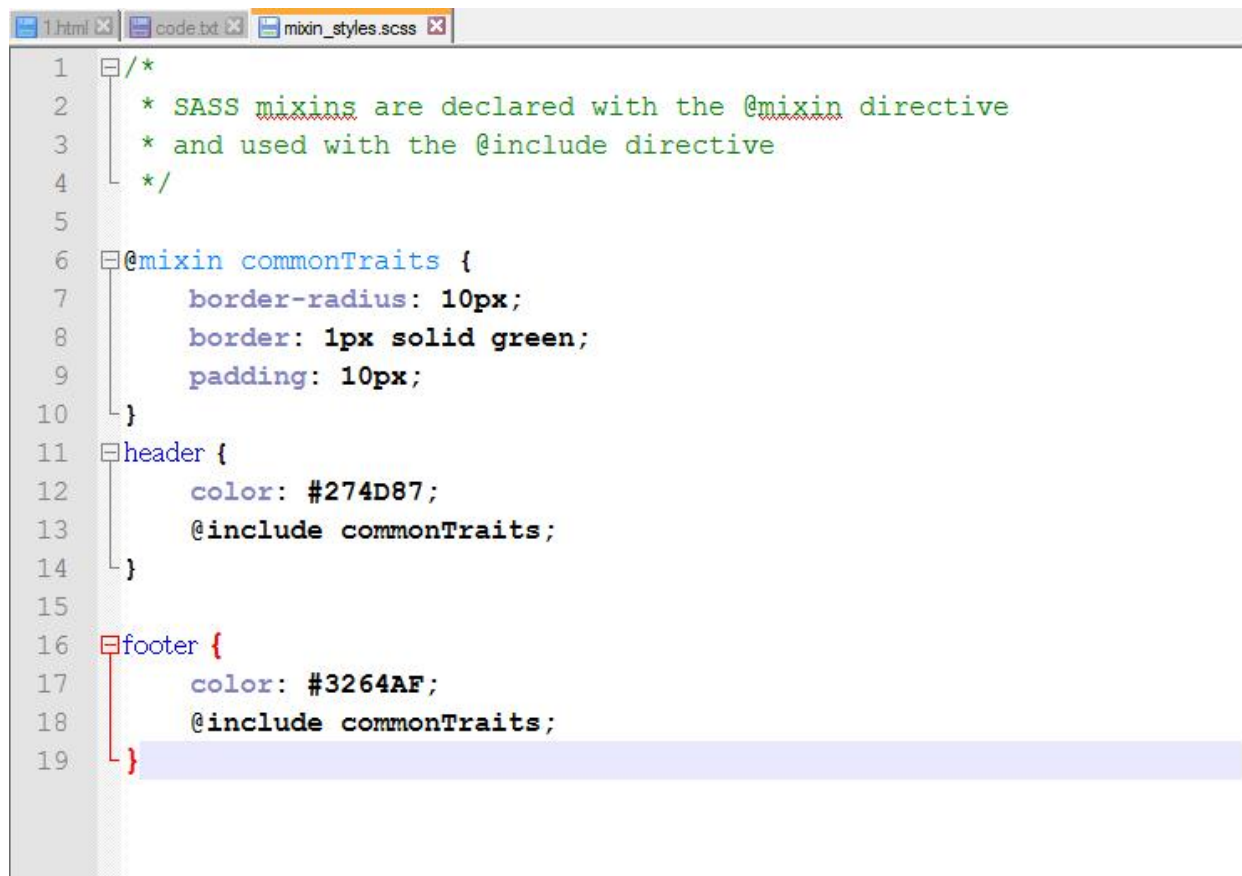


The screenshot shows a code editor with four tabs: '1.html', 'code.txt', 'nested\_styles.css', and 'nested\_styles.scss'. The 'code.txt' tab is active, displaying SCSS code. Line 72 is titled 'Mixins'. Lines 75-79 define a mixin named 'commonTraits' with properties: 'border-radius: 10px;', 'border: 1px solid green;', and 'padding: 10px;'. Lines 81-84 define a 'header' class using the 'commonTraits' mixin and setting 'color: #274D87;'. Lines 86-89 define a 'footer' class using the 'commonTraits' mixin and setting 'color: #3264AF;'. A red annotation 'copy and paste in mixins\_style.scss file' points to the mixin definition.

```
70
71 -----
72 Mixins
73 -----
74
75 @mixin commonTraits {
76     border-radius: 10px;
77     border: 1px solid green;
78     padding: 10px;
79 }
80
81 header {
82     color: #274D87;
83     @include commonTraits;
84 }
85
86 footer {
87     color: #3264AF;
88     @include commonTraits;
89 }
```

copy and paste in  
mixins\_style.scss file

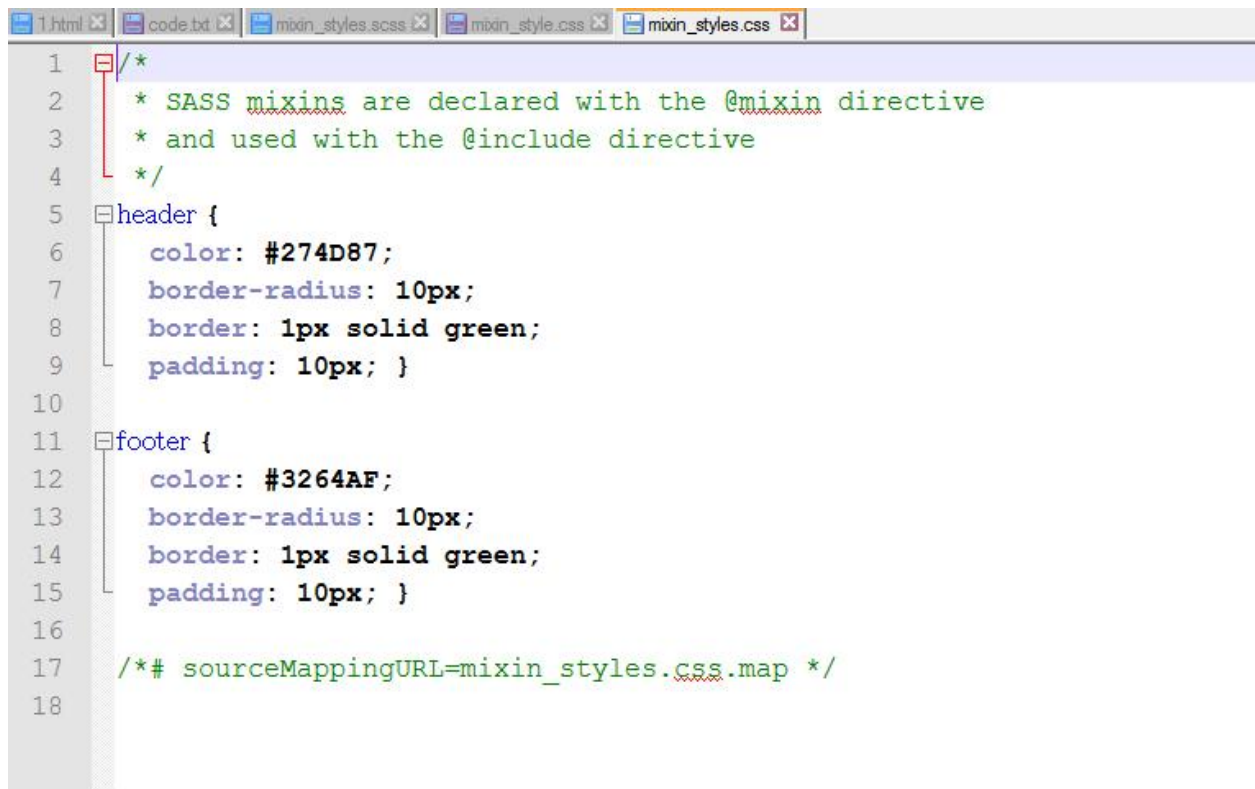
2. Open mixins\_styles.scss file and paste above code.

A screenshot of a code editor with three tabs: '1.html', 'code.txt', and 'mixin\_styles.scss'. The 'mixin\_styles.scss' tab is active, showing the following Sass code:

```
1  /*
2   * SASS mixins are declared with the @mixin directive
3   * and used with the @include directive
4   */
5
6  @mixin commonTraits {
7      border-radius: 10px;
8      border: 1px solid green;
9      padding: 10px;
10 }
11
12 header {
13     color: #274D87;
14     @include commonTraits;
15 }
16
17 footer {
18     color: #3264AF;
19     @include commonTraits;
```

The code is color-coded: comments are green, directives like @mixin and @include are blue, and property names and values are purple. The footer rule on line 19 is highlighted with a light blue background. The editor has a light gray background and a vertical line on the left for line numbers.

3. Now new mixins.css file is created in directory so, open it and see sass code converted in css.

A screenshot of a code editor with five tabs: '1.html', 'code.txt', 'mixin\_styles.scss', 'mixin\_style.css', and 'mixin\_styles.css'. The 'mixin\_styles.scss' tab is active, showing the following SASS code:

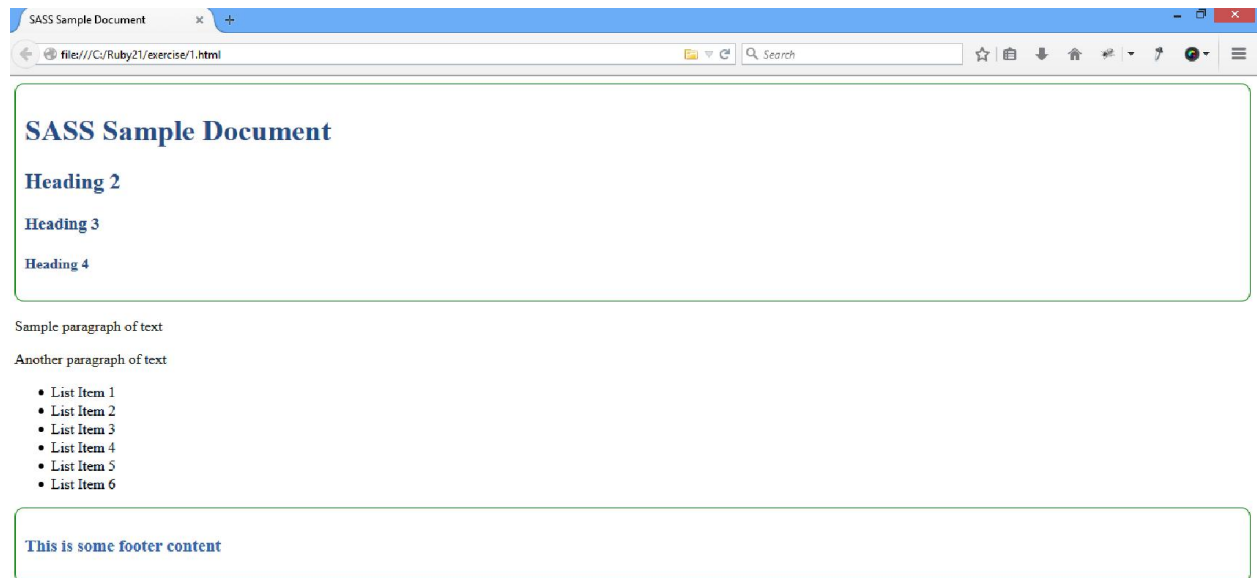
```
1  /*
2  * SASS mixins are declared with the @mixin directive
3  * and used with the @include directive
4  */
5  header {
6      color: #274D87;
7      border-radius: 10px;
8      border: 1px solid green;
9      padding: 10px; }
10
11 footer {
12     color: #3264AF;
13     border-radius: 10px;
14     border: 1px solid green;
15     padding: 10px; }
16
17 /*# sourceMappingURL=mixin_styles.css.map */
18
```

You can see that a properties that we declare in minix directive it is applied in header and footer class.

4. Now include mixin\_styles.css file in 1.html.

```
<link rel="stylesheet" href="mixin_styles.css" type="text/css">
```

5. Open 1.html file in browser.



Here, you can see that properties that we include using mixin directive are applied.

We gave font color blue to header and also border around header section and same thing for footer with different color with same border color.