

Here are more examples for the remaining advanced CSS topics:

5. ****CSS Preprocessors**** (Sass Example):

```
```scss
// styles.scss
$primary-color: #3498db;

.box {
 width: 100px;
 height: 100px;
 background-color: $primary-color;
}
```
```

Compile this Sass code into CSS using a Sass compiler.

6. ****CSS Custom Properties (Variables)****:

```
```html
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>CSS Custom Properties Example</title>
 <style>
 :root {
 --primary-color: #3498db; /* Define custom property */
 }

 .box {
 width: 100px;
 height: 100px;
 background-color: var(--primary-color); /* Use custom property */
 }
 </style>
</head>
<body>
 <div class="box"></div>
</body>
</html>
```
```

7. ****CSS Selectors****:

```
```html
<!DOCTYPE html>
```

```

<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>CSS Selectors Example</title>
 <style>
 /* Selecting elements with specific attributes */
 input[type="text"] {
 border: 1px solid #ccc;
 padding: 5px;
 }

 /* Selecting even child elements */
 ul li:nth-child(even) {
 background-color: #f2f2f2;
 }
 </style>
</head>
<body>
 <input type="text" placeholder="Enter text">

 Item 1
 Item 2
 Item 3
 Item 4

</body>
</html>
'''

```

#### 8. **\*\*CSS Architecture and Methodologies\*\*** (BEM Example):

```

'''html
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>BEM Example</title>
 <style>
 .block {
 /* Styles for the block */
 }

 .block__element {

```

```
 /* Styles for the block's element */
 }

 .block--modifier {
 /* Modifier styles for the block */
 }
</style>
</head>
<body>
 <div class="block">
 <div class="block__element"></div>
 </div>
</body>
</html>
````
```

These additional examples should deepen your understanding of the advanced CSS topics and help you explore them further.