**Theming in CSS with Sass**

**Theming** in CSS refers to the process of creating multiple visual styles or skins for a website. This allows users to choose a preferred appearance or accommodate different visual preferences. Sass, with its variables and mixins, is a powerful tool for implementing themes in CSS.

**Creating a Theme Switcher with Sass:**

1. **Define Theme Variables:** Create Sass variables to store the color palette, font styles, and other theme-related properties.
2. **Create Theme Mixins:** Define mixins that use the theme variables to apply styles to elements.
3. **Create a Theme Toggle Mechanism:** Use JavaScript or a CSS preprocessor feature (like Sass's @use rule) to toggle between different theme variables.

**Example Sass Code:**

SCSS

// Variables

$light-theme-background: #f0f0f0;

$light-theme-text: #333;

$dark-theme-background: #222;

$dark-theme-text: #fff;

// Mixins

@mixin theme-base($theme) {

background-color: $theme-background;

color: $theme-text;

}

// Theme Toggle (JavaScript)

function toggleTheme() {

const root = document.documentElement;

root.classList.toggle('dark-theme');

}

Use code [with caution.](/faq#coding)

**HTML:**

HTML

<body>

<button onclick="toggleTheme()">Toggle Theme</button>

<div class="content">

</div>

</body>

Use code [with caution.](/faq#coding)

**CSS:**

SCSS

:root {

--theme-background: $light-theme-background;

--theme-text: $light-theme-text;

}

.dark-theme {

--theme-background: $dark-theme-background;

--theme-text: $dark-theme-text;

}

body {

@include theme-base(var(--theme-background));

}

.content {

@include theme-base(var(--theme-text));

}

Use code [with caution.](/faq#coding)

**Explanation:**

* The Sass variables define the color palette for light and dark themes.
* The theme-base mixin applies the theme colors to elements using CSS variables.
* The JavaScript function toggles the dark-theme class on the html element, which changes the CSS variables and applies the corresponding theme.