

## A common project structure is:

```
project/  
├── index.html  
├── style.css  
└── script.js
```

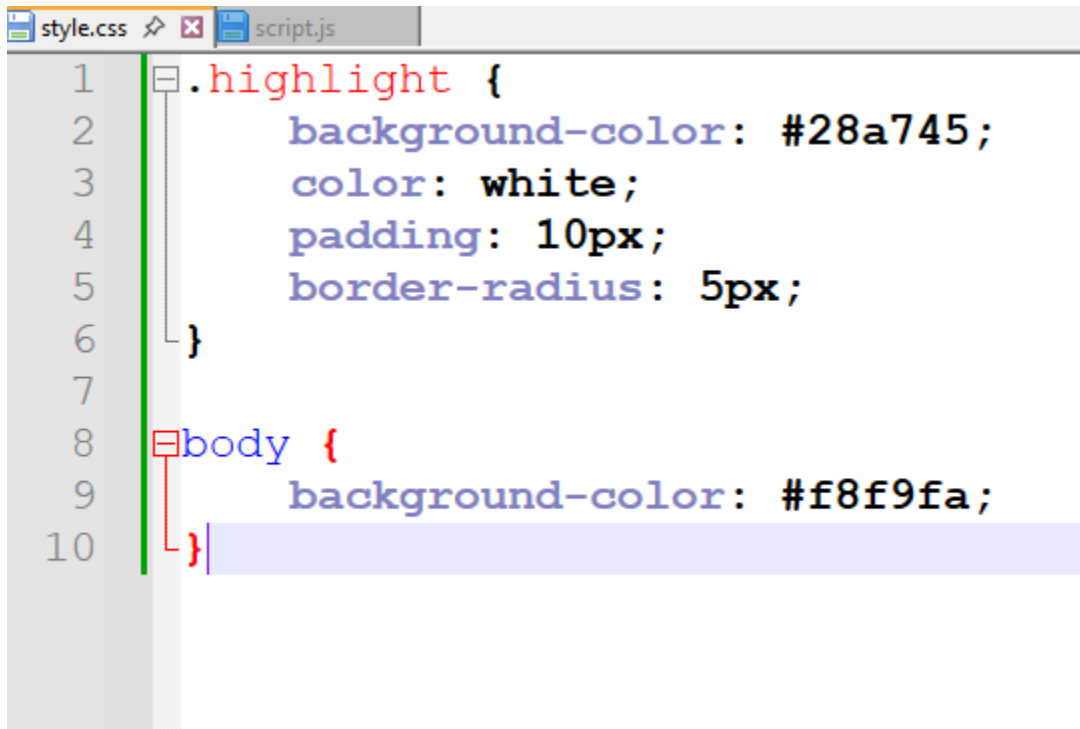
---

## 1. index.html

```
<!DOCTYPE html>  
<html lang="en">  
<head>  
  <meta charset="UTF-8">  
  <meta name="viewport" content="width=device-width, initial-scale=1.0">  
  <title>Bootstrap + CSS + JavaScript</title>  
  
  <!-- Bootstrap CSS -->  
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css" rel="stylesheet">  
  
  <!-- Custom CSS -->  
  <link rel="stylesheet" href="style.css">  
</head>  
<body>  
  
  <div class="container mt-5 text-center">  
    <h2>Bootstrap + Custom CSS + JavaScript</h2>  
  
    <p id="message">Hello World!</p>  
  
    <button class="btn btn-primary" onclick="changeText()">  
      Click Me  
    </button>  
  
  </div>  
  
  <!-- Custom JavaScript -->  
  <script src="script.js"></script>  
  
</body>  
</html>
```

---

## 2. create style.css file with following css code:-

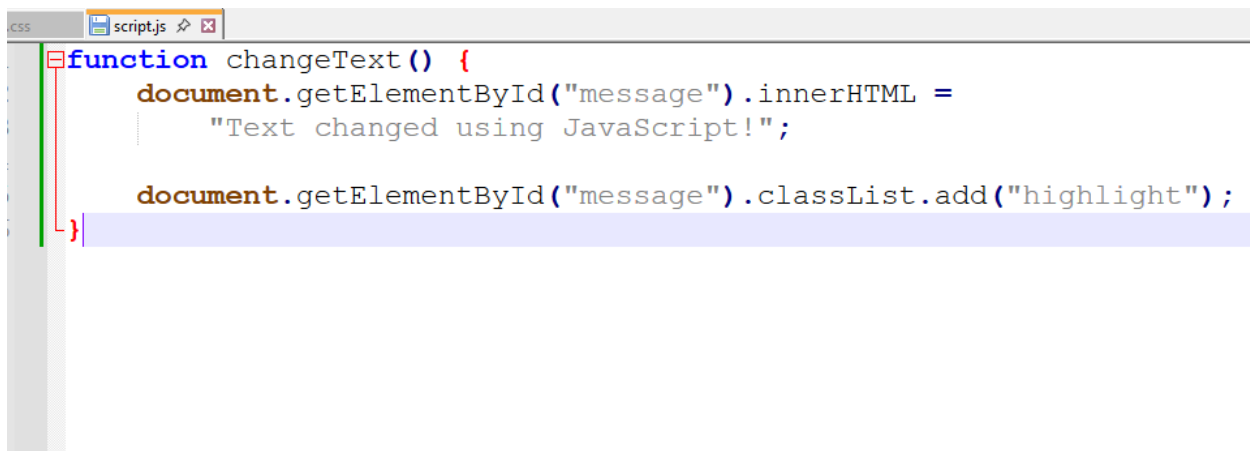


```
1  .highlight {
2      background-color: #28a745;
3      color: white;
4      padding: 10px;
5      border-radius: 5px;
6  }
7
8  body {
9      background-color: #f8f9fa;
10 }
```

### What this file does

- Creates a custom class called `.highlight`
- Changes the page background color

## 3. script.js



```
function changeText () {
    document.getElementById("message").innerHTML =
        "Text changed using JavaScript!";

    document.getElementById("message").classList.add("highlight");
}
```

## What this file does

When the button is clicked:

1. Finds the element with ID `message`
  2. Changes its text
  3. Applies the CSS class `highlight`
- 

## How they connect

### HTML loads CSS

```
<link rel="stylesheet" href="style.css">
```

### HTML loads JavaScript

```
<script src="script.js"></script>
```

### Button calls JavaScript

```
<button onclick="changeText()">
```

### JavaScript uses CSS class

```
document.getElementById("message").classList.add("highlight");
```

### CSS styles the element

```
.highlight {  
  background-color: #28a745;  
  color: white;  
}
```

## Flow:

```
index.html
  ↓
Loads style.css
  ↓
Loads script.js
  ↓
User clicks button
  ↓
changeText() runs
  ↓
CSS class added
  ↓
Page appearance changes
```

This separation (HTML for structure, CSS for styling, JS for behavior) is the standard approach used in most web applications.