## WEB-TECH LAB-4

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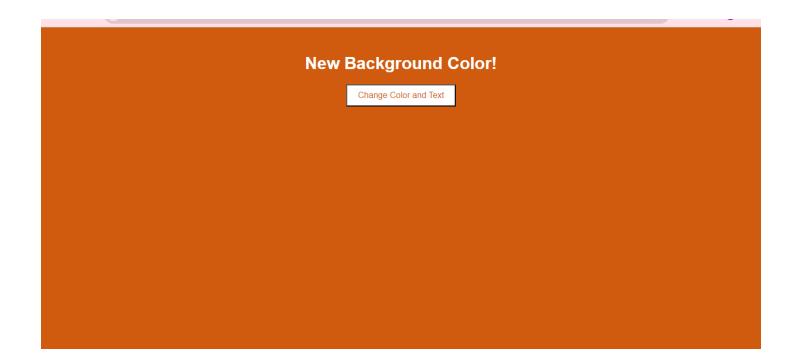
```
<!DOCTYPE html>
<html lang="en">
 <meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Change Background Color and Text</title>
<style>
  body {
     font-family: Arial, sans-serif;
    text-align: center;
     transition: background-color 0.5s ease;
  h1 {
     margin-top: 50px;
  button {
     padding: 10px 20px;
    font-size: 16px;
     cursor: pointer;
     transition: background-color 0.3s ease, color 0.3s ease;
 </style>
 <h1 id="heading">Welcome to My Page</h1>
 <button id="changeBtn">Change Color and Text</button>
<<script>
  document.getElementById('changeBtn').addEventListener('click', function() {
     var body = document.body;
     var heading = document.getElementById('heading');
```

```
// Generate random color
    var randomColor = '#' + Math.floor(Math.random()*16777215).toString(16);
    // Change background color
    body.style.backgroundColor = randomColor;
    // Change text
    if (heading.textContent === 'Welcome to My Page') {
      heading.textContent = 'New Background Color!';
      heading.textContent = 'Welcome to My Page';
    // Ensure contrast between text color and background color
    var textColor = getTextColor(randomColor);
    heading.style.color = textColor;
    this.style.backgroundColor = textColor;
    this.style.color = randomColor;
  // Function to determine text color based on background color
  function getTextColor(bgColor) {
    var hex = bgColor.replace('#', '');
    var r = parseInt(hex.substring(0,2),16);
    var g = parseInt(hex.substring(2,4),16);
    var b = parseInt(hex.substring(4,6),16);
    var brightness = ((r * 299) + (g * 587) + (b * 114)) / 1000;
    return (brightness > 125) ? '#000' : '#fff';
</script>
```

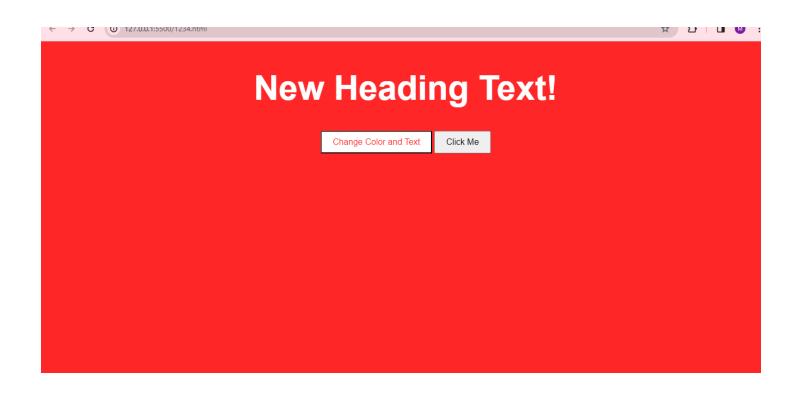
```
var textColor = getTextColor(randomColor);
         heading.style.color = textColor;
         this.style.backgroundColor = textColor;
         this.style.color = randomColor;
       });
       // Function to determine text color based on background color
       function getTextColor(bgColor) {
         var hex = bgColor.replace('#', '');
         var r = parseInt(hex.substring(0,2),16);
         var g = parseInt(hex.substring(2,4),16);
         var b = parseInt(hex.substring(4,6),16);
         var brightness = ((r * 299) + (g * 587) + (b * 114)) / 1000;
         return (brightness > 125) ? '#000' : '#fff';
     </script>
     </body>
67
```

## **Welcome to My Page**

Change Color and Text



2)



```
<!DOCTYPE html>
<html lang="en">
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Change Background Color and Text</title>
body {
    font-family: Arial, sans-serif;
    text-align: center;
    transition: background-color 0.5s ease;
    background-color: ■lightgreen; /* a. Make the background light green */
    margin-top: 50px;
    color: ■red; /* b. Add a line that makes the text red */
    font-size: 48pt; /* c. Change the fontSize to 48pt */
 button {
  padding: 10px 20px;
    font-size: 16px;
    cursor: pointer;
    transition: background-color 0.3s ease, color 0.3s ease;
<h1 id="heading">Welcome to My Page</h1>
<button id="changeBtn">Change Color and Text</button>
                                                                   Ln 72, Col 1 Spaces: 4 UTF-8 CRLF ( HTML  Port: 5500
```

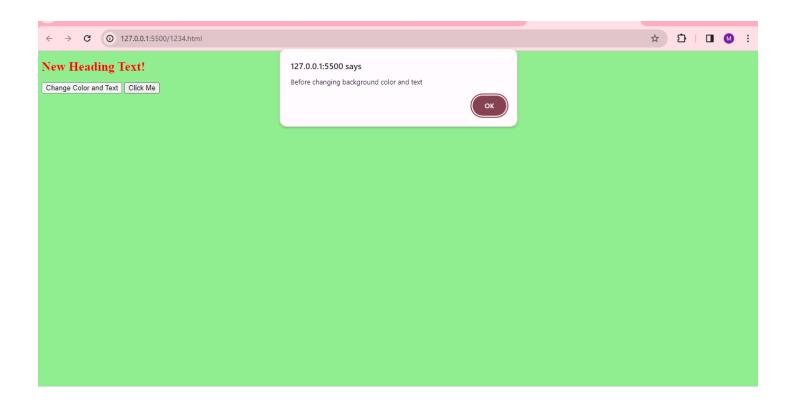
```
document.getElementById('changeBtn').addEventListener('click', function() {
  var body = document.body;
  var heading = document.getElementById('heading');
  var randomColor = '#' + Math.floor(Math.random()*16777215).toString(16);
  // Change background color
  body.style.backgroundColor = randomColor;
  if (heading.textContent === 'Welcome to My Page') {
   heading.textContent = 'New Heading Text!'; // d. Change the wording inside the <h1> tag
   heading.textContent = 'Welcome to My Page';
  var textColor = getTextColor(randomColor);
 heading.style.color = textColor;
  this.style.backgroundColor = textColor;
 this.style.color = randomColor;
// Function to determine text color based on background color
function getTextColor(bgColor) {
 var hex = bgColor.replace('#', '');
 var r = parseInt(hex.substring(0,2),16);
 var g = parseInt(hex.substring(2,4),16);
  var b = parseInt(hex.substring(4,6),16);
  var brightness = ((r * 299) + (g * 587) + (b * 114)) / 1000;
```

```
var hex = bgColor.replace('#', '');
var r = parseInt(hex.substring(0,2),16);
var g = parseInt(hex.substring(2,4),16);
var b = parseInt(hex.substring(4,6),16);
var brightness = ((r * 299) + (g * 587) + (b * 114)) / 1000;
return (brightness > 125) ? '#000' : '#fff';
}

c/script>

c/body>
c/html>

var hex = bgColor.replace('#', '');
var r = parseInt(hex.substring(2,4),16);
var b = parseInt(hex.substring(1,4),16);
var b = parseInt(hex.substring(1
```



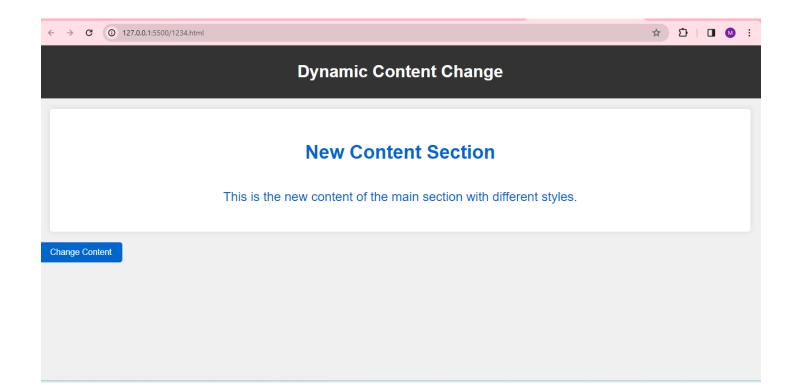
```
<!DOCTYPE html>
<html lang="en">
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Change Background Color and Text</title>
<<style>
   body.lightgreen {
      background-color: ■lightgreen; /* a. Make the background light green */
   h1 {
      color: □black;
      font-size: 24px;
  .red-text {
      color: ■red; /* b. Add a line that makes the text red */
  </head>
  <h1 id="heading">Welcome to My Page</h1>
  <button id="changeBtn">Change Color and Text</button>
<<script>
    alert("Before assigning class attribute");
   document.getElementById('changeBtn').addEventListener('click', function() {
      alert("Before changing background color and text");
      var body = document.body;
      var heading = document.getElementById('heading');
```

```
25 v <script>
       alert("Before assigning class attribute");
       document.getElementById('changeBtn').addEventListener('click', function() {
         alert("Before changing background color and text");
         var body = document.body;
         var heading = document.getElementById('heading');
         // Change background color
         body.classList.add('lightgreen');
         heading.classList.add('red-text');
         // Change text
         heading.textContent = 'New Heading Text!'; // d. Change the wording inside the <h1> tag
         alert("After changing background color and text");
       alert("After assigning class attribute");
     </script>
     <button>Click Me</button> <!-- e. Add <button>Click Me</button> after the closing </h1>. -->
     </body>
```

```
<!DOCTYPE html>
2 v <html lang="en">
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
     <title>Dynamic Content Change</title>
8 V body {
         font-family: Arial, sans-serif;
         margin: 0;
         padding: 0;
         background-color: ■#f0f0f0;
      header {
         background-color: □#333;
         color: □#fff;
         padding: 10px;
18
         text-align: center;
20 ~
      section {
         padding: 20px;
         margin: 20px;
         background-color: ■#fff;
         border-radius: 5px;
         box-shadow: 0 0 10px □rgba(0, 0, 0, 0.1);
       #content1 {
         font-size: 18px;
         line-height: 1.5;
       #content2 {
         font-size: 24px;
```

```
#content2 {
    font-size: 24px;
    line-height: 1.8;
    color: ■#0066cc;
    text-align: center;
  button {
    padding: 10px 20px;
    font-size: 16px;
    cursor: pointer;
    background-color: ■#0066cc;
    color: □#fff;
    border: none;
    border-radius: 5px;
    transition: background-color 0.3s ease, color 0.3s ease;
  button:hover {
    background-color: ■#004080;
</style>
<h1>Dynamic Content Change</h1>
  <section id="mainContent">
    <div id="content1">
      <h2>Main Content Section</h2>
```

```
// keader>
// section id="mainContent">
// section id="mainContent">
// section id="content">
// section id="content">
// section id="content">
// section content Section<///>
// section section content Section
// section /
// section /
// section /
// wain>
// section /
// div /
// div /
// wain>
// section /
// wain /
// replace content Btn">Change Content</button>
// wain /
// Replace content of main section
// mainContent = document.getElementById('mainContent');
// Replace content of main section
// mainContent.innerHTML = '
// keyNew Content Section
// section /
// section /
// section /
// replace content of main section
// section /
/
```



## Your Heading

## **Your Heading**

Your Heading

```
<!DOCTYPE html>
2 <html lang="en">
        <meta charset="UTF-8">
        <meta name="viewport" content="width=device-width, initial-scale=1.0">
        <title>Browser Versions</title>
            body {
                font-family: Arial, sans-serif;
                margin: 0;
                padding: 0;
            table {
                width: 100%;
                border-collapse: collapse;
            th,
            td {
                padding: 10px;
                text-align: center;
                border: 1px solid ■#ddd;
            img {
                width: 50px;
                height: 50px;
```

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