



# 10 Exciting CSS Learning Exercises

Practice Coding and learn more about applying CSS to your HTML code

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## Exercise 1: Basic Styling

Objective: Apply basic styling to an HTML document.

Steps:

1. Create an HTML file with a sample structure.
2. Link a CSS file to the HTML document.
3. Apply basic styling such as setting the background color, font size, and text color.

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HTML:

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <meta name="viewport" content="width=device-width,
initial-scale=1.0">

  <link rel="stylesheet" href="styles.css">

  <title>Exercise 1</title>

</head>

<body>

  <h1>Hello, CSS!</h1>

  <p>This is a sample paragraph.</p>

</body>

</html>
```

**CSS (styles.css):**

```
body {

  background-color: #f0f0f0;
```

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```
font-size: 16px;
color: #333;
}
```

```
h1 {
  color: #0066cc;
}
```

## Exercise 2: Box Model

Objective: Understand and apply the CSS box model.

Steps:

1. Create an HTML file with a container div and several child elements.
2. Apply borders, margins, and padding to different elements.
3. Observe how the box model affects the layout.

HTML:

```
<!-- Same as Exercise 1 -->
```

CSS (styles.css):

```
.container {
  border: 1px solid #999;
```

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```
padding: 20px;
}

.child {
margin: 10px;
padding: 15px;
border: 1px solid #ddd;
}
```

## Exercise 3: Flexbox

Objective: Learn and implement Flexbox layout.

Steps:

1. Create a container with several child elements.
2. Use Flexbox to arrange the child elements horizontally.
3. Experiment with Flexbox properties like justify-content and align-items.

HTML:

```
<!-- Same as Exercise 1 -->
```

CSS (styles.css):

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```
.container {  
  display: flex;  
  justify-content: space-between;  
}
```

```
.child {  
  flex: 1;  
}
```

## Exercise 4: Grid Layout

Objective: Learn and implement CSS Grid layout.

Steps:

1. Create a container with multiple child elements.
2. Apply CSS Grid to create a two-dimensional layout.
3. Experiment with properties like grid-template-columns and grid-gap.

HTML:

```
<!-- Same as Exercise 1 -->
```

CSS (styles.css):

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```
.container {  
  display: grid;  
  grid-template-columns: repeat(3, 1fr);  
  grid-gap: 20px;  
}
```

## Exercise 5: Responsive Design

Objective: Make your webpage responsive.

Steps:

1. Set up a simple webpage with a navigation bar and content.
2. Use media queries to adjust the layout for different screen sizes.
3. Test responsiveness by resizing the browser window.

HTML:

```
<!-- Same as Exercise 1 with added navigation bar -->
```

CSS (styles.css):

```
/* Same as Exercise 1 styles */
```

```
nav {  
  background-color: #333;  
  color: #fff;
```

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```
padding: 10px;
}

@media (max-width: 600px) {
  /* Adjust styles for small screens */
  nav {
    text-align: center;
  }
}
```

## Exercise 6: CSS Transitions and Animations

Objective: Implement CSS transitions and animations.

Steps:

1. Create an HTML element (e.g., a button).
2. Apply styles to make the element visually appealing.
3. Use CSS transitions to create smooth hover effects.
4. Implement a simple CSS animation (e.g., rotation) on click.

HTML:

```
<!-- Same as Exercise 1 with added button -->
```

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```
<button class="animated-button">Click me</button>
```

CSS (styles.css):

```
/* Same as Exercise 1 styles */
```

```
.animated-button {  
  background-color: #4CAF50;  
  color: #fff;  
  padding: 10px 20px;  
  border: none;  
  border-radius: 5px;  
  cursor: pointer;  
  transition: background-color 0.3s ease-in-out, transform 0.3s  
  ease-in-out;  
}
```

```
.animated-button:hover {  
  background-color: #45a049;  
}
```

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```
.animated-button:active {  
  transform: rotate(360deg);  
}
```

## Exercise 7: CSS Variables

Objective: Use CSS variables to create a theme.

Steps:

1. Define CSS variables for colors, fonts, etc.
2. Apply these variables throughout your stylesheet.
3. Experiment with changing the theme by modifying variable values.

HTML:

```
<!-- Same as Exercise 1 -->
```

CSS (styles.css):

```
:root {  
  --primary-color: #3498db;  
  --secondary-color: #2ecc71;  
}
```

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```
body {  
  background-color: var(--secondary-color);  
  color: #fff;  
}
```

```
h1 {  
  color: var(--primary-color);  
}
```

## Exercise 8: Pseudo-classes and Pseudo-elements

Objective: Use pseudo-classes and pseudo-elements for styling.

Steps:

1. Apply styles to different states of a button using pseudo-classes (e.g., `:hover`).
2. Use pseudo-elements (e.g., `::before` or `::after`) to add decorative elements to an existing element.

HTML:

```
<!-- Same as Exercise 1 with additional button -->
```

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```
<button class="styled-button">Hover me</button>
```

CSS (styles.css):

```
/* Same as Exercise 1 styles */
```

```
.styled-button {  
  background-color: #e74c3c;  
  color: #fff;  
  padding: 10px 20px;  
  border: none;  
  border-radius: 5px;  
  cursor: pointer;  
}
```

```
.styled-button:hover {  
  background-color: #c0392b;  
}
```

```
.styled-button::before {
```

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```
content: '\2022'; /* Unicode for a bullet point */
margin-right: 10px;
}
```

## Exercise 9: Form Styling

Objective: Style HTML forms.

Steps:

1. Create an HTML form with various input types (text, checkbox, radio, etc.).
2. Apply styles to improve the form's visual appearance.
3. Use pseudo-classes for styling different states of form elements.

HTML:

```
<!-- Same as Exercise 1 with added form -->
<form>
  <label for="username">Username:</label>
  <input type="text" id="username" name="username">
  <br>
  <label for="password">Password:</label>
  <input type="password" id="password" name="password">
  <br>
```

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```
<input type="checkbox" id="remember" name="remember">
<label for="remember">Remember me</label>
<br>
<input type="submit" value="Submit">
</form>
```

CSS (styles.css):

```
/* Same as Exercise 1 styles */
```

```
form {
  max-width: 400px;
  margin: 0 auto;
}
```

```
label {
  display: block;
  margin-bottom: 5px;
}
```

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```
input {  
  width: 100%;  
  padding: 8px;  
  margin-bottom: 10px;  
}
```

```
input[type="submit"] {  
  background-color: #2ecc71;  
  color: #fff;  
  cursor: pointer;  
}
```

```
input[type="submit"]:hover {  
  background-color: #27ae60;  
}
```

## Exercise 10: CSS Positioning

Objective: Practice different CSS positioning techniques.

Steps:

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1. Create an HTML layout with multiple elements.
2. Experiment with different positioning values such as relative, absolute, and fixed.
3. Use the z-index property to control the stacking order of elements.

HTML:

```
<!-- Same as Exercise 1 with additional positioned elements -->  
  
<div class="positioned-container">  
  <div class="positioned-box">Box 1</div>  
  <div class="positioned-box">Box 2</div>  
</div>
```

CSS (styles.css):

```
/* Same as Exercise 1 styles */  
  
.positioned-container {  
  position: relative;  
}  
  
.positioned-box {
```

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```
position: absolute;
top: 20px;
left: 20px;
width: 100px;
height: 100px;
background-color: #3498db;
color: #fff;
text-align: center;
line-height: 100px;
margin: 10px;
}
```

```
.positioned-box:nth-child(2) {
top: 70px;
left: 70px;
background-color: #e74c3c;
}
```

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These exercises cover a broad range of CSS concepts and should help you strengthen your skills.

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