

<button> properties in CSS

Buttons in HTML (<button> or <input type="button">) can be extensively styled using CSS to create custom designs and behaviors. Below is a list of common CSS properties used to style buttons, along with examples of how they are applied.

Common CSS Properties for Buttons

width: Specifies the width of the button.

```
button {  
    width: 150px;  
}
```

1. **height:** Specifies the height of the button.

```
button {  
  
    height: 50px;  
}
```

2. **padding:** Adds space inside the button between the content (e.g., text or icon) and the button's edges.

```
button {  
  
    padding: 10px 20px; /* Vertical padding 10px, horizontal 20px */  
}
```

3. **margin:** Adds space around the button, outside its border.

```
button {  
  
    margin: 10px;  
}
```

4. **background-color:** Sets the background color of the button.

```
button {
```

```
background-color: #4CAF50; /* Green background */  
}
```

5. **color**: Changes the text (or icon) color inside the button.

```
button {  
  
color: white;  
}
```

6. **border**: Defines the border around the button. You can specify the width, style, and color of the border.

```
button {  
  
border: 2px solid #4CAF50; /* Green border */  
}
```

7. **border-radius**: Rounds the corners of the button.

```
button {  
  
border-radius: 5px;  
}
```

8. **font-size**: Sets the size of the button's text.

```
button {  
  
font-size: 16px;  
}
```

9. **font-family**: Specifies the font used inside the button.

```
button {  
  
font-family: 'Arial', sans-serif;  
}
```

10. **text-transform**: Controls the capitalization of the text inside the button.

```
button {
```

```
text-transform: uppercase; /* Makes all letters uppercase */
}
```

11. **cursor**: Defines the type of cursor displayed when the mouse is hovered over the button.

```
button {

cursor: pointer; /* Changes cursor to a hand icon */
}
```

12. **box-shadow**: Adds shadow effects around the button to create a 3D or raised effect.

```
css
Copy code
button {

box-shadow: 0 4px 6px rgba(0, 0, 0, 0.1); /* Subtle shadow */
}
```

13. **:hover**: Styles applied when the user hovers over the button.

```
button:hover {

background-color: #45a049; /* Darker green on hover */
}
```

14. **:active**: Styles applied when the button is being clicked.

```
css
Copy code
button:active {

background-color: #3e8e41; /* Darker green on click */
box-shadow: 0 2px #666;
transform: translateY(2px); /* Makes the button "press down" */
}
```

15. **:focus**: Styles applied when the button is focused (e.g., by keyboard navigation).

```
css
Copy code
button:focus {

outline: none; /* Removes the default outline */
}
```

```
        box-shadow: 0 0 3px 2px rgba(100, 150, 255, 0.5); /* Custom focus shadow */
    }
```

Advanced CSS Properties for Buttons

transition: Smoothly animates property changes (e.g., background color, box-shadow) when the user hovers or clicks the button.

```
button {
    transition: background-color 0.3s ease, box-shadow 0.3s ease;
}
```

background-image: Adds a background image or gradient to the button.

```
button {
    background-image: linear-gradient(to right, #4CAF50, #3e8e41);
}
```

display: Defines how the button is displayed. Often used to make buttons behave as inline or block elements.

```
button {
    display: inline-block;
}
```

text-shadow: Adds shadow to the button text for a subtle or dramatic effect.

```
button {
    text-shadow: 1px 1px 2px rgba(0, 0, 0, 0.3);
}
```

opacity: Sets the transparency of the button.

```
button {
    opacity: 0.8; /* 80% opacity */
}
```

```
}
```

Example Button Styles

Here's an example of a custom-styled button using some of the properties discussed:

```
button.custom-button {
    background-color: #4CAF50; /* Green background */
    color: white;             /* White text */
    padding: 12px 24px;      /* Padding inside the button */
    border: none;             /* No border */
    border-radius: 8px;       /* Rounded corners */
    font-size: 16px;         /* Text size */
    font-weight: bold;        /* Bold text */
    text-transform: uppercase; /* Uppercase text */
    cursor: pointer;          /* Pointer cursor on hover */
    transition: background-color 0.3s ease, transform 0.2s ease; /*
Smooth transition */
}

button.custom-button:hover {
    background-color: #45a049; /* Darker green on hover */
}

button.custom-button:active {
    transform: scale(0.98);    /* Slightly shrink on click */
}

button.custom-button:focus {
    outline: none; /* Remove focus outline */
    box-shadow: 0 0 5px 2px rgba(0, 0, 0, 0.2); /* Focus shadow */
}
```