

CSS Text Decoration

The `text-decoration` property in CSS is used to add decoration to text, such as underlines, overlines, line-throughs, or blinking text. It's a versatile property for styling links and other textual elements in a variety of ways.

Basic Syntax:

```
css code
selector {
  text-decoration: value;
}
```

Values for `text-decoration`:

1. **none**: Removes any text decoration.
2. **underline**: Adds an underline beneath the text.
3. **overline**: Adds a line above the text.
4. **line-through**: Adds a line through the text.
5. **blink**: (Deprecated) Makes the text blink. This feature is no longer supported in modern browsers.

Example 1: Basic Text Decoration

```
Css code
/* Underline */
.underline {
  text-decoration: underline;
}

/* Line-through */
.line-through {
  text-decoration: line-through;
}

/* Overline */
.overline {
  text-decoration: overline;
}

/* No decoration */
.no-decoration {
  text-decoration: none;
}
html code
<p class="underline">This text has an underline.</p>
<p class="line-through">This text has a line-through.</p>
<p class="overline">This text has an overline.</p>
<p class="no-decoration">This text has no decoration.</p>
```

Example 2: Text Decoration on Links

The most common use case for `text-decoration` is styling hyperlinks. By default, links are underlined, but you can modify this behavior.

```
Css code
/* Style for links */
a {
  text-decoration: none; /* Remove the underline */
  color: #007bff; /* Set a color */
}

/* Style for links on hover */
a:hover {
  text-decoration: underline; /* Add underline on hover */
  color: #0056b3; /* Darker color on hover */
}
Html code
<a href="https://www.example.com">Visit Example</a>
```

Example 3: Combining Multiple Text Decorations (using `text-decoration-line`)

In modern CSS (CSS3), you can combine multiple types of text decorations on a single element. This is done with the `text-decoration-line` property, which allows you to specify multiple lines of decoration.

Syntax for Multiple Decorations:

```
css code
text-decoration-line: value1 value2;
```

- `underline`, `overline`, and `line-through` can be combined together.

```
Css code
/* Combine underline, overline, and line-through */
.multi-decoration {
  text-decoration-line: underline overline line-through;
  text-decoration-color: red; /* Set decoration color */
}
Html code
<p class="multi-decoration">This text has multiple decorations.</p>
```

Example 4: Styling the Text Decoration Color and Style

In addition to `text-decoration-line`, you can control the **color**, **style**, and **thickness** of the decoration using the `text-decoration-color`, `text-decoration-style`, and `text-decoration-thickness` properties.

1. **`text-decoration-color`**: Specifies the color of the text decoration (like underline or line-through).

2. **text-decoration-style**: Defines the style of the decoration (solid, double, dotted, dashed, wavy).
3. **text-decoration-thickness**: Specifies the thickness of the decoration.

Example with Advanced Text Decorations:

Css code

```
/* Underline with a custom color and style */
.custom-underline {
  text-decoration-line: underline;
  text-decoration-color: #ff6347; /* Tomato red color */
  text-decoration-style: wavy; /* Wavy underline */
  text-decoration-thickness: 3px; /* 3px thick underline */
}
```

```
/* Dotted line-through with custom color */
.dotted-line-through {
  text-decoration-line: line-through;
  text-decoration-color: blue;
  text-decoration-style: dotted;
  text-decoration-thickness: 2px;
}
```

html code

```
<p class="custom-underline">This text has a custom wavy underline.</p>
<p class="dotted-line-through">This text has a dotted line-through.</p>
```

Explanation of Properties:

1. **text-decoration-line**: Defines which decorations should be applied to the text (e.g., underline, overline, line-through).
2. **text-decoration-color**: Specifies the color of the decoration. The default is usually the same as the text color.
3. **text-decoration-style**: Specifies the style of the decoration. It can be:
 - o solid (default)
 - o dotted
 - o dashed
 - o wavy
4. **text-decoration-thickness**: Specifies the thickness of the text decoration (e.g., underline). This is useful for creating thicker or thinner lines for the decorations.

Example 5: Removing Underlines for Links (with **text-decoration Shorthand**)

You can also use shorthand for **text-decoration** to set multiple properties in one declaration, including line style, color, and thickness. It combines properties into a single rule.

Css code

```
/* Shorthand for text-decoration */
a {
  text-decoration: underline solid #ff6347 2px;
}
```

Example: Creating a Hover Effect for Links

In this example, we will make the link **underlined** on hover and also change the **text decoration color**.

Css code

```
a {
  text-decoration: none; /* Remove the default underline */
  color: #007bff; /* Normal link color */
}

a:hover {
  text-decoration: underline; /* Add underline on hover */
  text-decoration-color: #ff6347; /* Change underline color to tomato */
  color: #0056b3; /* Darker link color on hover */
}
```

Html code

```
<a href="https://www.example.com">Hover over this link</a>
```

Summary of Properties:

- **text-decoration:** Used to add or remove decoration (underline, line-through, etc.).
- **text-decoration-line:** Specifies the type of text decoration (underline, overline, line-through).
- **text-decoration-color:** Sets the color of the decoration.
- **text-decoration-style:** Defines the style of the decoration (solid, dotted, dashed, wavy).
- **text-decoration-thickness:** Controls the thickness of the decoration.