

Web Developer

HTML Basics 3

2021



HTML Basics

HTML Quotation and Citation Elements

```
<!DOCTYPE html>
```

```
<html>
```

```
<body>
```

```
<p>Here is a quote from WWF's website:</p>
```

```
<blockquote cite="http://www.worldwildlife.org/who/index.html">
```

For 50 years, WWF has been protecting the future of nature.

The world's leading conservation organization,
WWF works in 100 countries and is supported by
1.2 million members in the United States and
close to 5 million globally.

```
</blockquote>
```

```
</body>
```

```
</html>
```



HTML <q> for Short Quotations

<!DOCTYPE html>

<html>

<body>

<p>Browsers usually insert quotation marks around the q element.</p>

<p>WWF's goal is to: <q>Build a future where people live in harmony with nature.</q></p>

</body>

</html>



HTML `<abbr>` for Abbreviations

```
<!DOCTYPE html>
```

```
<html>
```

```
<body>
```

```
<p>The <abbr title="World Health Organization">WHO</abbr> was founded in 1948.</p>
```

```
<p>Marking up abbreviations can give useful information to browsers, translation systems and search-engines.</p>
```

```
</body>
```

```
</html>
```



HTML <address> for Contact Information

```
<!DOCTYPE html>
<html>
<body>
```

<p>The HTML address element defines contact information (author/owner) of a document or article.</p>

```
<address>
```

Written by John Doe.

Visit us at:

Example.com

Box 564, Disneyland

USA

```
</address>
```

```
</body>
```

```
</html>
```



HTML `<cite>` for Work Title

```
<!DOCTYPE html>
```

```
<html>
```

```
<body>
```

```
<p>The HTML cite element defines the title of a work.</p>
```

```
<p>Browsers usually display cite elements in italic.</p>
```

```

```

```
<p><cite>The Scream</cite> by Edvard Munch. Painted in 1893.</p>
```

```
</body>
```

```
</html>
```




HTML <bdo> for Bi-Directional Override

```
<!DOCTYPE html>
```

```
<html>
```

```
<body>
```

<p>If your browser supports bi-directional override (bdo), the next line will be written from right to left (rtl):</p>

```
<bdo dir="rtl">This line will be written from right to left</bdo>
```

```
</body>
```

```
</html>
```



HTML Comment Tags

<!DOCTYPE html>

<html>

<body>

<!-- This is a comment -->

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

<!-- Comments are not displayed in the browser -->

<!-- Do not display this at the moment

 -->

</body>

</html>



HTML Colors



Color Names

```
<!DOCTYPE html>
```

```
<html>
```

```
<body>
```

```
<h1 style="background-color:Tomato;">Tomato</h1>
```

```
<h1 style="background-color:Orange;">Orange</h1>
```

```
<h1 style="background-color:DodgerBlue;">DodgerBlue</h1>
```

```
<h1 style="background-color:MediumSeaGreen;">MediumSeaGreen</h1>
```

```
<h1 style="background-color:Gray;">Gray</h1>
```

```
<h1 style="background-color:SlateBlue;">SlateBlue</h1>
```

```
<h1 style="background-color:Violet;">Violet</h1>
```

```
<h1 style="background-color:LightGray;">LightGray</h1>
```

```
</body>
```

```
</html>
```



Background Color

```
<!DOCTYPE html>
```

```
<html>
```

```
<body>
```

```
<h1 style="background-color:DodgerBlue;">Hello World</h1>
```

```
<p style="background-color:Tomato;">
```

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat.

Ut wisi enim ad minim veniam, quis nostrud exerci tation ullamcorper suscipit lobortis nisl ut aliquip ex ea commodo consequat.

```
</p>
```

```
</body>
```

```
</html>
```



Text Color

```
<!DOCTYPE html>
```

```
<html>
```

```
<body>
```

```
<h3 style="color:Tomato;">Hello World</h3>
```

```
<p style="color:DodgerBlue;">Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat.</p>
```

```
<p style="color:MediumSeaGreen;">Ut wisi enim ad minim veniam, quis nostrud exerci tation ullamcorper suscipit lobortis nisl ut aliquip ex ea commodo consequat.</p>
```

```
</body>
```

```
</html>
```



Border Color

```
<!DOCTYPE html>
```

```
<html>
```

```
<body>
```

```
<h1 style="border: 2px solid Tomato;">Hello World</h1>
```

```
<h1 style="border: 2px solid DodgerBlue;">Hello World</h1>
```

```
<h1 style="border: 2px solid Violet;">Hello World</h1>
```

```
</body>
```

```
</html>
```



Color Values

```
<!DOCTYPE html>  
<html>  
<body>
```

<p>Same as color name "Tomato":</p>

```
<h1 style="background-color:rgb(255, 99, 71);">rgb(255, 99, 71)</h1>  
<h1 style="background-color:#ff6347;">#ff6347</h1>  
<h1 style="background-color:hsl(9, 100%, 64%);">hsl(9, 100%, 64%)</h1>
```

<p>Same as color name "Tomato", but 50% transparent:</p>

```
<h1 style="background-color:rgba(255, 99, 71, 0.5);">rgba(255, 99, 71, 0.5)</h1>  
<h1 style="background-color:hsla(9, 100%, 64%, 0.5);">hsla(9, 100%, 64%, 0.5)</h1>
```

<p>In addition to the predefined color names, colors can be specified using RGB, HEX, HSL, or even transparent colors using RGBA or HSLA color values.</p>

```
</body>  
</html>
```




RGB Color Values

<!DOCTYPE html>

<html>

<body>

<h1 style="background-color:rgb(255, 0, 0);">rgb(255, 0, 0)</h1>

<h1 style="background-color:rgb(0, 0, 255);">rgb(0, 0, 255)</h1>

<h1 style="background-color:rgb(60, 179, 113);">rgb(60, 179, 113)</h1>

<h1 style="background-color:rgb(238, 130, 238);">rgb(238, 130, 238)</h1>

<h1 style="background-color:rgb(255, 165, 0);">rgb(255, 165, 0)</h1>

<h1 style="background-color:rgb(106, 90, 205);">rgb(106, 90, 205)</h1>

</body>

</html>



Shades of Gray

```
<!DOCTYPE html>
```

```
<html>
```

```
<body>
```

```
<h1 style="background-color:rgb(60, 60, 60);">rgb(60, 60, 60)</h1>
```

```
<h1 style="background-color:rgb(100, 100, 100);">rgb(100, 100, 100)</h1>
```

```
<h1 style="background-color:rgb(140, 140, 140);">rgb(140, 140, 140)</h1>
```

```
<h1 style="background-color:rgb(180, 180, 180);">rgb(180, 180, 180)</h1>
```

```
<h1 style="background-color:rgb(200, 200, 200);">rgb(200, 200, 200)</h1>
```

```
<h1 style="background-color:rgb(240, 240, 240);">rgb(240, 240, 240)</h1>
```

```
</body>
```

```
</html>
```



RGBA Color Values

```
<!DOCTYPE html>  
<html>  
<body>
```

```
<h1 style="background-color:rgba(255, 99, 71, 0);">rgba(255, 99, 71, 0)</h1>  
<h1 style="background-color:rgba(255, 99, 71, 0.2);">rgba(255, 99, 71, 0.2)</h1>  
<h1 style="background-color:rgba(255, 99, 71, 0.4);">rgba(255, 99, 71, 0.4)</h1>  
<h1 style="background-color:rgba(255, 99, 71, 0.6);">rgba(255, 99, 71, 0.6)</h1>  
<h1 style="background-color:rgba(255, 99, 71, 0.8);">rgba(255, 99, 71, 0.8)</h1>  
<h1 style="background-color:rgba(255, 99, 71, 1);">rgba(255, 99, 71, 1)</h1>
```

```
</body>  
</html>
```



HEX Color Values

<!DOCTYPE html>

<html>

<body>

<h1 style="background-color:#ff0000;">#ff0000</h1>

<h1 style="background-color:#0000ff;">#0000ff</h1>

<h1 style="background-color:#3cb371;">#3cb371</h1>

<h1 style="background-color:#ee82ee;">#ee82ee</h1>

<h1 style="background-color:#ffa500;">#ffa500</h1>

<h1 style="background-color:#6a5acd;">#6a5acd</h1>

</body>

</html>



Shades of Gray

```
<!DOCTYPE html>
```

```
<html>
```

```
<body>
```

```
<h1 style="background-color:#404040;">#404040</h1>
```

```
<h1 style="background-color:#686868;">#686868</h1>
```

```
<h1 style="background-color:#a0a0a0;">#a0a0a0</h1>
```

```
<h1 style="background-color:#bebebe;">#bebebe</h1>
```

```
<h1 style="background-color:#dcdcdc;">#dcdcdc</h1>
```

```
<h1 style="background-color:#f8f8f8;">#f8f8f8</h1>
```

```
</body>
```

```
</html>
```



HSL Color Values

<!DOCTYPE html>

<html>

<body>

<h1 style="background-color:hsl(0, 100%, 50%);">hsl(0, 100%, 50%)</h1>

<h1 style="background-color:hsl(240, 100%, 50%);">hsl(240, 100%, 50%)</h1>

<h1 style="background-color:hsl(147, 50%, 47%);">hsl(147, 50%, 47%)</h1>

<h1 style="background-color:hsl(300, 76%, 72%);">hsl(300, 76%, 72%)</h1>

<h1 style="background-color:hsl(39, 100%, 50%);">hsl(39, 100%, 50%)</h1>

<h1 style="background-color:hsl(248, 53%, 58%);">hsl(248, 53%, 58%)</h1>

</body>

</html>



Saturation

```
<!DOCTYPE html>  
<html>  
<body>
```

```
<h1 style="background-color:hsl(0, 100%, 50%);">hsl(0, 100%, 50%)</h1>  
<h1 style="background-color:hsl(0, 80%, 50%);">hsl(0, 80%, 50%)</h1>  
<h1 style="background-color:hsl(0, 60%, 50%);">hsl(0, 60%, 50%)</h1>  
<h1 style="background-color:hsl(0, 40%, 50%);">hsl(0, 40%, 50%)</h1>  
<h1 style="background-color:hsl(0, 20%, 50%);">hsl(0, 20%, 50%)</h1>  
<h1 style="background-color:hsl(0, 0%, 50%);">hsl(0, 0%, 50%)</h1>
```

<p>With HSL colors, less saturation mean less color. 0% is completely gray.</p>

```
</body>  
</html>
```



Lightness

```
<!DOCTYPE html>  
<html>  
<body>
```

```
<h1 style="background-color:hsl(0, 100%, 0%);">hsl(0, 100%, 0%)</h1>  
<h1 style="background-color:hsl(0, 100%, 25%);">hsl(0, 100%, 25%)</h1>  
<h1 style="background-color:hsl(0, 100%, 50%);">hsl(0, 100%, 50%)</h1>  
<h1 style="background-color:hsl(0, 100%, 75%);">hsl(0, 100%, 75%)</h1>  
<h1 style="background-color:hsl(0, 100%, 90%);">hsl(0, 100%, 90%)</h1>  
<h1 style="background-color:hsl(0, 100%, 100%);">hsl(0, 100%, 100%)</h1>
```

<p>With HSL colors, 0% lightness means black, and 100 lightness means white.</p>

```
</body>  
</html>
```



Shades of Gray

```
<!DOCTYPE html>
```

```
<html>
```

```
<body>
```

```
<h1 style="background-color:hsl(0, 0%, 20%);">hsl(0, 0%, 20%)</h1>
```

```
<h1 style="background-color:hsl(0, 0%, 30%);">hsl(0, 0%, 30%)</h1>
```

```
<h1 style="background-color:hsl(0, 0%, 40%);">hsl(0, 0%, 40%)</h1>
```

```
<h1 style="background-color:hsl(0, 0%, 60%);">hsl(0, 0%, 60%)</h1>
```

```
<h1 style="background-color:hsl(0, 0%, 70%);">hsl(0, 0%, 70%)</h1>
```

```
<h1 style="background-color:hsl(0, 0%, 90%);">hsl(0, 0%, 90%)</h1>
```

```
</body>
```

```
</html>
```



HSLA Color Values

<!DOCTYPE html>

<html>

<body>

<h1 style="background-color:hsla(9, 100%, 64%, 0);">hsla(9, 100%, 64%, 0)</h1>

<h1 style="background-color:hsla(9, 100%, 64%, 0.2);">hsla(9, 100%, 64%, 0.2)</h1>

<h1 style="background-color:hsla(9, 100%, 64%, 0.4);">hsla(9, 100%, 64%, 0.4)</h1>

<h1 style="background-color:hsla(9, 100%, 64%, 0.6);">hsla(9, 100%, 64%, 0.6)</h1>

<h1 style="background-color:hsla(9, 100%, 64%, 0.8);">hsla(9, 100%, 64%, 0.8)</h1>

<h1 style="background-color:hsla(9, 100%, 64%, 1);">hsla(9, 100%, 64%, 1)</h1>

</body>

</html>



HTML Styles - CSS



Using CSS

CSS can be added to HTML documents in 3 ways:

- **Inline** - by using the `style` attribute inside HTML elements
- **Internal** - by using a `<style>` element in the `<head>` section
- **External** - by using a `<link>` element to link to an external CSS file



Inline CSS

```
<!DOCTYPE html>
```

```
<html>
```

```
<body>
```

```
<h1 style="color:blue;">A Blue Heading</h1>
```

```
<p style="color:red;">A red paragraph.</p>
```

```
</body>
```

```
</html>
```



Internal CSS

```
<!DOCTYPE html>
<html>
<head>
<style>
  body {background-color: powderblue;}
  h1 {color: blue;}
  p {color: red;}
</style>
</head>
<body>
  <h1>This is a heading</h1>
  <p>This is a paragraph.</p>
</body>
</html>
```



External CSS

```
<!DOCTYPE html>
<html>
<head>
  <link rel="stylesheet" href="styles.css">
</head>
<body>

<h1>This is a heading</h1>
<p>This is a paragraph.</p>

</body>
</html>
```



"styles.css"

```
body {  
    background-color: powderblue;  
}  
  
h1 {  
    color: blue;  
}  
  
p {  
    color: red;  
}
```



CSS Colors, Fonts and Sizes

```
<style>
h1 {
  color: blue;
  font-family: verdana;
  font-size: 300%;
}
p {
  color: red;
  font-family: courier;
  font-size: 160%;
}
</style>
```



CSS Border, Padding

```
<!DOCTYPE html>
<html>
<head>
<style>
p {
  border: 2px solid powderblue;
  padding: 30px;
}
</style>
</head>
<body>

<h1>This is a heading</h1>

<p>This is a paragraph.</p>
<p>This is a paragraph.</p>
<p>This is a paragraph.</p>
</body>
</html>
```




CSS Border, Padding, Margin

```
<!DOCTYPE html>
<html>
<head>
<style>
p {
  border: 2px solid powderblue;
  padding: 30px;
  margin: 50px;
}
</style>
</head>
<body>

<h1>This is a heading</h1>

<p>This is a paragraph.</p>
<p>This is a paragraph.</p>
<p>This is a paragraph.</p>
</body>
</html>
```



Link to External CSS

```
<!DOCTYPE html>
<html>
<head>
  <link rel="stylesheet" href="https://www.w3schools.com/html/styles.css">
</head>
<body>

<h1>This is a heading</h1>
<p>This is a paragraph.</p>

</body>
</html>
```



HTML Links – Hyperlinks



HTML Links – Syntax

`<!DOCTYPE html>`

`<html>`

`<body>`

`<h1>HTML Links</h1>`

`<p> Visit visualstudio.com! </p>`

`</body>`

`</html>`



HTML Links - The target Attribute

```
<!DOCTYPE html>
```

```
<html>
```

```
<body>
```

```
<h2>The target Attribute</h2>
```

```
<a href=" https://code.visualstudio.com" target="_blank">Visit visualstudio.com!</a>
```

```
<p>If target="_blank", the link will open in a new browser window or tab.</p>
```

```
</body>
```

```
</html>
```



Absolute URLs vs. Relative URLs

<!DOCTYPE html>

<html>

<body>

<h2>Absolute URLs</h2>

<p> Google </p>

<h2>Relative URLs</h2>

<p> HTML Images </p>

<p> CSS Tutorial </p>

</body>

</html>



HTML Links - Use an Image as a Link

```
<!DOCTYPE html>
```

```
<html>
```

```
<body>
```

```
<h2>Image as a Link</h2>
```

```
<p>The image below is a link. Try to click on it.</p>
```

```
<a href="https://code.visualstudio.com">  </a>
```

```
</body>
```

```
</html>
```




Link to an Email Address

```
<!DOCTYPE html>  
<html>  
<body>
```

```
<h2>Link to an Email Address</h2>
```

<p>To create a link that opens in the user's email program (to let them send a new email), use `mailto:` inside the `href` attribute:</p>

```
<p><a href="mailto:someone@example.com">Send email</a></p>
```

```
</body>  
</html>
```



Button as a Link

```
<!DOCTYPE html>
```

```
<html>
```

```
<body>
```

```
<h2>Button as a Link</h2>
```

```
<p>Click the button to go to the HTML tutorial.</p>
```

```
<button onclick="document.location= 'default.asp'"> visual studio </button>
```

```
</body>
```

```
</html>
```



Link Titles

```
<!DOCTYPE html>  
<html lang="en-US">  
<body>
```

```
<h2>Link Titles</h2>
```

<p>The title attribute specifies extra information about an element. The information is most often shown as a tooltip text when the mouse moves over the element.</p>

```
<a href=" https://code.visualstudio.com " title="Go to visual studio section"> Visit our visual studio  
</a>
```

```
</body>  
</html>
```



Link Buttons

```
<!DOCTYPE html> <html> <head>
<style>
  a:link, a:visited {
    background-color: #f44336;
    color: white;
    padding: 15px 25px;
    text-align: center;
    text-decoration: none;
    display: inline-block;
  }
  a:hover, a:active {
    background-color: red;
  }
</style> </head> <body>
  <h2>Link Button</h2>
  <p>A link styled as a button:</p>
  <a href="default.asp" target="_blank">This is a link</a>
</body> </html>
```



HTML Links - Create Bookmarks

```
<!DOCTYPE html> <html> <body>
  <p><a href="#C4">Jump to Chapter 4</a></p>
  <p><a href="#C10">Jump to Chapter 10</a></p>
  <h2>Chapter 1</h2>
  <p>This chapter explains ba bla bla</p>
  <h2>Chapter 2</h2>
  <p>This chapter explains ba bla bla</p>
  <h2>Chapter 3</h2>
  <p>This chapter explains ba bla bla</p>
  <h2 id="C4">Chapter 4</h2>
  <h2>Chapter 9</h2>
  <p>This chapter explains ba bla bla</p>
  <h2 id="C10">Chapter 10</h2>
  <p>This chapter explains ba bla bla</p>
</body> </html>
```

