HTML(5) Tutorial

<http://www.w3schools.com/html/default.asp>



With HTML you can create your own Web site.

This tutorial teaches you everything about HTML.

HTML is easy to learn - You will enjoy it.

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## Examples in Every Chapter

This HTML tutorial contains hundreds of HTML examples.

With our online HTML editor, you can edit the HTML, and click on a button to view the result.

### Example

<!DOCTYPE html>  
<html>  
<head>  
<title>Page Title</title>  
</head>  
<body>  
  
<h1>This is a Heading</h1>  
<p>This is a paragraph.</p>  
  
</body>  
</html>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_default)

|  |  |
| --- | --- |
| **Note** | Click on the "Try it Yourself" button to see how it works. |

[Start learning HTML now!](http://www.w3schools.com/html/html_intro.asp)

## HTML Examples

At the end of the HTML tutorial, you can find more than 200 examples.

With our online editor, you can edit and test each example yourself.

[Go to HTML Examples!](http://www.w3schools.com/html/html_examples.asp)

## HTML Quiz Test

Test your HTML skills at W3Schools!

[Start HTML Quiz!](http://www.w3schools.com/html/html_quiz.asp)

## HTML References

At W3Schools you will find complete references about tags, attributes, events, color names, entities, character-sets, URL encoding, language codes, HTTP messages, and more.

[HTML Tag Reference](http://www.w3schools.com/tags/default.asp)

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The [HTML Certificate](http://www.w3schools.com/cert/default.asp) documents your knowledge of HTML.

The [HTML5 Certificate](http://www.w3schools.com/cert/default.asp) documents your knowledge of advanced HTML5.

The [CSS Certificate](http://www.w3schools.com/cert/default.asp) documents your knowledge of advanced CSS.

The [JavaScript Certificate](http://www.w3schools.com/cert/default.asp) documents your knowledge of JavaScript and HTML DOM.

The [jQuery Certificate](http://www.w3schools.com/cert/default.asp) documents your knowledge of jQuery.

The [PHP Certificate](http://www.w3schools.com/cert/default.asp) documents your knowledge of PHP and SQL (MySQL).

The [XML Certificate](http://www.w3schools.com/cert/default.asp) documents your knowledge of XML, XML DOM and XSLT.

# HTML Introduction

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## What is HTML?

HTML is a **markup** language for **describing** web documents (web pages).

* HTML stands for **H**yper **T**ext **M**arkup **L**anguage
* A markup language is a set of **markup tags**
* HTML documents are described by **HTML tags**
* Each HTML tag **describes** different document content

## HTML Example

### A small HTML document:

<!DOCTYPE html>  
<html>  
<head>  
<title>Page Title</title>  
</head>  
<body>  
  
<h1>My First Heading</h1>  
<p>My first paragraph.</p>  
  
</body>  
</html>

[Try it yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_intro)

## Example Explained

* The **DOCTYPE** declaration defines the document type to be HTML
* The text between **<html>** and **</html>** describes an HTML document
* The text between **<head>** and **</head>** provides information about the document
* The text between **<title>** and **</title>** provides a title for the document
* The text between **<body>** and **</body>** describes the visible page content
* The text between **<h1>** and **</h1>** describes a heading
* The text between **<p>** and **</p>** describes a paragraph

Using this description, a web browser can display a document with a heading and a paragraph.

## HTML Tags

HTML tags are **keywords** (tag names) surrounded by **angle brackets**:

<tagname>content</tagname>

* HTML tags normally come **in pairs** like <p> and </p>
* The first tag in a pair is the **start tag,** the second tag is the **end tag**
* The end tag is written like the start tag, but with a **slash** before the tag name

|  |  |
| --- | --- |
| **Note** | The start tag is often called the **opening tag**. The end tag is often called the **closing tag**. |

## Web Browsers

The purpose of a web browser (Chrome, IE, Firefox, Safari) is to read HTML documents and display them.

The browser does not display the HTML tags, but uses them to determine how to display the document:



## HTML Page Structure

Below is a visualization of an HTML page structure:

<html>

<head>

<title>Page title</title>

</head>

<body>

<h1>This is a heading</h1>

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

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

</body>

</html>

|  |  |
| --- | --- |
| **Note** | Only the <body> area (the white area) is displayed by the browser. |

## The <!DOCTYPE> Declaration

The <!DOCTYPE> declaration helps the browser to display a web page correctly.

There are different document types on the web.

To display a document correctly, the browser must know both type and version.

The doctype declaration is not case sensitive. All cases are acceptable:

<!DOCTYPE html>  
  
<!DOCTYPE HTML>  
  
<!doctype html>  
  
<!Doctype Html>

## Common Declarations

### HTML5

<!DOCTYPE html>

### HTML 4.01

<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

### XHTML 1.0

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

|  |  |
| --- | --- |
| **Note** | All tutorials and examples at W3Schools use HTML5. |

## HTML Versions

Since the early days of the web, there have been many versions of HTML:

|  |  |
| --- | --- |
| **Version** | **Year** |
| HTML | 1991 |
| HTML 2.0 | 1995 |
| HTML 3.2 | 1997 |
| HTML 4.01 | 1999 |
| XHTML | 2000 |
| HTML5 | 2014 |

# HTML Editors

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[Next Chapter »](http://www.w3schools.com/html/html_basic.asp)

## Write HTML Using Notepad or TextEdit

HTML can be edited by using professional HTML editors like:

* Microsoft WebMatrix
* Sublime Text

However, for learning HTML we recommend a text editor like Notepad (PC) or TextEdit (Mac).

We believe using a simple text editor is a good way to learn HTML.

Follow the 4 steps below to create your first web page with Notepad.

## Step 1: Open Notepad

To open Notepad in Windows 7 or earlier:

Click **Start** (bottom left on your screen). Click **All Programs**. Click **Accessories**. Click **Notepad**.

To open Notepad in Windows 8 or later:

Open the **Start Screen** (the window symbol at the bottom left on your screen). Type **Notepad**.

## Step 2: Write Some HTML

Write or copy some HTML into Notepad.

<!DOCTYPE html>  
<html>  
<body>  
  
<h1>My First Heading</h1>  
  
<p>My first paragraph.</p>  
  
</body>  
</html>



## Step 3: Save the HTML Page

Save the file on your computer.

Select **File > Save as** in the Notepad menu.

Name the file "index.html" or any other name ending with html or htm.

UTF-8 is the preferred encoding for HTML files.

ANSI encoding covers US and Western European characters only.



|  |  |
| --- | --- |
| **Note** | You can use either .htm or .html as file extension. There is no difference, it is up to you. |

## Step 4: View HTML Page in Your Browser

Open the saved HTML file in your favorite browser. The result will look much like this:



|  |  |
| --- | --- |
| **Note** | To open a file in a browser, double click on the file, or right-click, and choose open with. |

# HTML Basic Examples

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[Next Chapter »](http://www.w3schools.com/html/html_elements.asp)

Don't worry if these examples use tags you have not learned.

You will learn about them in the next chapters.

## HTML Documents

All HTML documents must start with a type declaration: **<!DOCTYPE html>**.

The HTML document itself begins with **<html>** and ends with **</html>**.

The visible part of the HTML document is between **<body>** and **</body>**.

### Example

<!DOCTYPE html>  
<html>  
<body>  
  
<h1>My First Heading</h1>  
  
<p>My first paragraph.</p>  
  
</body>  
</html>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_basic_document)

## HTML Headings

HTML headings are defined with the **<h1>** to **<h6>** tags:

### Example

<h1>This is a heading</h1>  
<h2>This is a heading</h2>  
<h3>This is a heading</h3>

[Try it yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_basic_headings)

## HTML Paragraphs

HTML paragraphs are defined with the **<p>** tag:

### Example

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

[Try it yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_basic_paragraphs)

## HTML Links

HTML links are defined with the **<a>** tag:

### Example

<a href="http://www.w3schools.com">This is a link</a>

[Try it yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_basic_link)

The link's destination is specified in the **href attribute**.

Attributes are used to provide additional information about HTML elements.

## HTML Images

HTML images are defined with the **<img>** tag.

The source file (**src**), alternative text (**alt**), and size (**width** and **height**) are provided as **attributes**:

### Example

<img src="w3schools.jpg" alt="W3Schools.com" width="104" height="142">

[Try it yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_basic_img)

|  |  |
| --- | --- |
| **Note** | You will learn more about attributes in a later chapter. |

# HTML Attributes

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[Next Chapter »](http://www.w3schools.com/html/html_headings.asp)

Attributes provide additional information about HTML elements.

## HTML Attributes

* HTML elements can have **attributes**
* Attributes provide **additional information** about an element
* Attributes are always specified in **the start tag**
* Attributes come in name/value pairs like: **name="value"**

## The lang Attribute

The document language can be declared in the **<html>** tag.

The language is declared in the **lang** attribute.

Declaring a language is important for accessibility applications (screen readers) and search engines:

<!DOCTYPE html>  
<html lang="en-US">  
<body>  
  
<h1>My First Heading</h1>  
<p>My first paragraph.</p>  
  
</body>  
</html>

The first two letters specify the language (en). If there is a dialect, use two more letters (US).

## The title Attribute

HTML paragraphs are defined with the **<p>** tag.

In this example, the **<p>** element has a **title** attribute. The value of the attribute is "**About W3Schools**":

### Example

<p title="About W3Schools">  
W3Schools is a web developer's site.  
It provides tutorials and references covering  
many aspects of web programming,  
including HTML, CSS, JavaScript, XML, SQL, PHP, ASP, etc.  
</p>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_attributes_title)

|  |  |
| --- | --- |
| **Note** | When you move the mouse over the element, the title will be displayed as a tooltip. |

## The href Attribute

HTML links are defined with the **<a>** tag. The link address is specified in the **href** attribute:

### Example

<a href="http://www.w3schools.com">This is a link</a>

[Try it yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_attributes_link)

You will learn more about links and the <a> tag later in this tutorial.

## Size Attributes

HTML images are defined with the **<img>** tag.

The filename of the source (**src**), and the size of the image (**width** and **height**) are all provided as **attributes**:

### Example

<img src="w3schools.jpg" width="104" height="142">

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_attributes_img)

The image size is specified in pixels: width="104" means 104 screen pixels wide.

You will learn more about images and the <img> tag later in this tutorial.

## The alt Attribute

The **alt** attribute specifies an alternative text to be used, when an HTML element cannot be displayed.

The value of the attribute can be read by "screen readers". This way, someone "listening" to the webpage, i.e. a blind person, can "hear" the element.

### Example

<img src="w3schools.jpg" alt="W3Schools.com" width="104" height="142">

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_attributes_alt)

## We Suggest: Always Use Lowercase Attributes

The HTML5 standard does not require lower case attribute names.

The title attribute can be written with upper or lower case like **Title** and/or **TITLE**.

W3C **recommends** lowercase in HTML4, and **demands** lowercase for stricter document types like XHTML.

|  |  |
| --- | --- |
| **Note** | Lower case is the most common. Lower case is easier to type. At W3Schools we always use lower case attribute names. |

## We Suggest: Always Quote Attribute Values

The HTML5 standard does not require quotes around attribute values.

The **href** attribute, demonstrated above, can be written as:

### Example

<a href=http://www.w3schools.com>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_attributes_noquotes)

W3C **recommends** quotes in HTML4, and **demands** quotes for stricter document types like XHTML.

Sometimes it is **necessary** to use quotes. This will not display correctly, because it contains a space:

### Example

<p title=About W3Schools>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_attributes_error)

|  |  |
| --- | --- |
| **Note** | Using quotes are the most common. Omitting quotes can produce errors.  At W3Schools we always use quotes around attribute values. |

## Single or Double Quotes?

Double style quotes are the most common in HTML, but single style can also be used.

In some situations, when the attribute value itself contains double quotes, it is necessary to use single quotes:

<p title='John "ShotGun" Nelson'>

Or vice versa:

<p title="John 'ShotGun' Nelson">

## Chapter Summary

* All HTML elements can have **attributes**
* The HTML **title** attribute provides additional "tool-tip" information
* The HTML **href** attribute provides address information for links
* The HTML **width** and **height** attributes provide size information for images
* The HTML **alt** attribute provides text for screen readers
* At W3Schools we always use **lowercase** HTML attribute names
* At W3Schools we always **quote** attributes with double quotes

## Test Yourself with Exercises!

[Exercise 1 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_attributes1) [Exercise 2 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_attributes2) [Exercise 3 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_attributes3) [Exercise 4 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_attributes4) [Exercise 5 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_attributes5)

## HTML Attributes

Below is an alphabetical list of some attributes often used in HTML:

|  |  |
| --- | --- |
| **Attribute** | **Description** |
| alt | Specifies an alternative text for an image |
| disabled | Specifies that an input element should be disabled |
| href | Specifies the URL (web address) for a link |
| id | Specifies a unique id for an element |
| src | Specifies the URL (web address) for an image |
| style | Specifies an inline CSS style for an element |
| title | Specifies extra information about an element (displayed as a tool tip) |
| value | Specifies the value (text content) for an input element. |

A complete list of all attributes for each HTML element, is listed in our: [HTML Tag Reference](http://www.w3schools.com/tags/default.asp).

# HTML Headings

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[Next Chapter »](http://www.w3schools.com/html/html_paragraphs.asp)

Headings are important in HTML documents.

## HTML Headings

Headings are defined with the <h1> to <h6> tags.

<h1> defines the most important heading. <h6> defines the least important heading.

### Example

<h1>This is a heading</h1>  
<h2>This is a heading</h2>  
<h3>This is a heading</h3>

[Try it yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_headings)

**Note:** Browsers automatically add some empty space (a margin) before and after each heading.

## Headings Are Important

Use HTML headings for headings only. Don't use headings to make text **BIG** or **bold**.

Search engines use your headings to index the structure and content of your web pages.

Users skim your pages by its headings. It is important to use headings to show the document structure.

h1 headings should be main headings, followed by h2 headings, then the less important h3, and so on.

## HTML Horizontal Rules

The **<hr>** tag creates a horizontal line in an HTML page.

The hr element can be used to separate content:

### Example

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

[Try it yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_headings_hr)

## The HTML <head> Element

The HTML **<head>** element has nothing to do with HTML headings.

The HTML <head> element contains **meta data**. Meta data are not displayed.

The HTML <head> element is placed between the <html> tag and the <body> tag:

### Example

<!DOCTYPE html>  
<html>  
  
<head>  
  <title>My First HTML</title>  
  <meta charset="UTF-8">  
</head>  
  
<body>  
.  
.  
.

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_headings_head)

|  |  |
| --- | --- |
| **Note** | Meta data means data **about** data. HTML meta data is data **about** the HTML document. |

## The HTML <title> Element

The HTML **<title>** element is meta data. It defines the HTML document's title.

The title will not be displayed in the document, but might be displayed in the browser tab.

## The HTML <meta> Element

The HTML **<meta>** element is also meta data.

It can be used to define the character set, and other information about the HTML document.

## More Meta Elements

In the chapter about HTML styles you discover more meta elements:

The HTML **<style>** element is used to define internal CSS style sheets.

The HTML **<link>** element is used to define external CSS style sheets.

## HTML Tip - How to View HTML Source

Have you ever seen a Web page and wondered "Hey! How did they do that?"

To find out, right-click in the page and select "View Page Source" (in Chrome) or "View Source" (in IE), or similar in another browser. This will open a window containing the HTML code of the page.

## Test Yourself with Exercises!

[Exercise 1 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_headings1)   [Exercise 2 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_headings2)   [Exercise 3 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_headings3)   [Exercise 4 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_headings4)

## HTML Tag Reference

W3Schools' tag reference contains additional information about these tags and their attributes.

You will learn more about HTML tags and attributes in the next chapters of this tutorial.

|  |  |
| --- | --- |
| **Tag** | **Description** |
| [<html>](http://www.w3schools.com/tags/tag_html.asp) | Defines an HTML document |
| [<body>](http://www.w3schools.com/tags/tag_body.asp) | Defines the document's body |
| [<head>](http://www.w3schools.com/tags/tag_head.asp) | Defines the document's head element |
| [<h1> to <h6>](http://www.w3schools.com/tags/tag_hn.asp) | Defines HTML headings |
| [<hr>](http://www.w3schools.com/tags/tag_hr.asp) | Defines a horizontal line |

# HTML Paragraphs

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[Next Chapter »](http://www.w3schools.com/html/html_styles.asp)

HTML documents are divided into paragraphs.

## HTML Paragraphs

The HTML **<p>** element defines a **paragraph**.

### Example

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

[Try it yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_paragraphs1)

|  |  |
| --- | --- |
| **Note** | Browsers automatically add an empty line before and after a paragraph. |

## HTML Display

You cannot be sure how HTML will be displayed.

Large or small screens, and resized windows will create different results.

With HTML, you cannot change the output by adding extra spaces or extra lines in your HTML code.

The browser will remove extra spaces and extra lines when the page is displayed.

Any number of spaces, and any number of new lines, count as **only one space**.

### Example

<p>  
This paragraph  
contains a lot of lines  
in the source code,  
but the browser   
ignores it.  
</p>  
  
<p>  
This paragraph  
contains         a lot of spaces  
in the source         code,  
but the        browser   
ignores it.  
</p>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_paragraphs2)

## Don't Forget the End Tag

Most browsers will display HTML correctly even if you forget the end tag:

### Example

<p>This is a paragraph  
<p>This is another paragraph

[Try it yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_paragraphs0)

The example above will work in most browsers, but do not rely on it.

Forgetting the end tag can produce unexpected results or errors.

|  |  |
| --- | --- |
| **Note** | Stricter versions of HTML, like XHTML, do not allow you to skip the end tag. |

## HTML Line Breaks

The HTML **<br>** element defines a **line break**.

Use <br> if you want a line break (a new line) without starting a new paragraph:

### Example

<p>This is<br>a para<br>graph with line breaks</p>

[Try it yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_paragraphs)

The <br> element is an empty HTML element. It has no end tag.

## The Poem Problem

### Example

<p>This poem will display as one line:</p>  
<p>  
  My Bonnie lies over the ocean.  
  
  My Bonnie lies over the sea.  
  
  My Bonnie lies over the ocean.  
  
  Oh, bring back my Bonnie to me.  
</p>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_poem)

## The HTML <pre> Element

The HTML <pre> element defines preformatted text.

The text inside a <pre> element is displayed in a fixed-width font (usually Courier), and it preserves both spaces and line breaks:

### Example

<pre>  
  My Bonnie lies over the ocean.  
  
  My Bonnie lies over the sea.  
  
  My Bonnie lies over the ocean.  
  
  Oh, bring back my Bonnie to me.  
</pre>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_pre)

## Test Yourself with Exercises!

[Exercise 1 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_paragraphs1)    [Exercise 2 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_paragraphs2)    [Exercise 3 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_paragraphs3)    [Exercise 4 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_paragraphs4)

## HTML Tag Reference

W3Schools' tag reference contains additional information about HTML elements and their attributes.

|  |  |
| --- | --- |
| **Tag** | **Description** |
| [<p>](http://www.w3schools.com/tags/tag_p.asp) | Defines a paragraph |
| [<br>](http://www.w3schools.com/tags/tag_br.asp) | Inserts a single line break |
| [<pre>](http://www.w3schools.com/tags/tag_pre.asp) | Defines pre-formatted text |

# HTML Styles

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## I am Red

## I am Blue

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_styles_intro)

## HTML Styling

Every HTML element has a **default style** (background color is white and text color is black).

Changing the default style of an HTML element, can be done with the **style attribute**.

This example changes the default background color from white to lightgrey:

### Example

<body style="background-color:lightgrey">  
  
<h1>This is a heading</h1>  
<p>This is a paragraph.</p>  
  
</body>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_styles_background-color)

|  |  |
| --- | --- |
| **Note** | The bgcolor attribute, supported in older versions of HTML, is not valid in HTML5. |

## The HTML Style Attribute

The HTML style attribute has the following **syntax**:

style="property:value"

The ***property*** is a CSS property. The ***value*** is a CSS value.

|  |  |
| --- | --- |
| **Note** | You will learn more about CSS later in this tutorial. |

## HTML Text Color

The **color** property defines the text color to be used for an HTML element:

### Example

<h1 style="color:blue">This is a heading</h1>  
<p style="color:red">This is a paragraph.</p>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_styles_color)

## HTML Fonts

The **font-family** property defines the font to be used for an HTML element:

### Example

<h1 style="font-family:verdana">This is a heading</h1>  
<p style="font-family:courier">This is a paragraph.</p>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_styles_font-family)

|  |  |
| --- | --- |
| **Note** | The <font> tag, supported in older versions of HTML, is not valid in HTML5. |

## HTML Text Size

The **font-size** property defines the text size to be used for an HTML element:

### Example

<h1 style="font-size:300%">This is a heading</h1>  
<p style="font-size:160%">This is a paragraph.</p>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_styles_font-size)

## HTML Text Alignment

The **text-align** property defines the horizontal text alignment for an HTML element:

### Example

<h1 style="text-align:center">Centered Heading</h1>  
<p>This is a paragraph.</p>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_styles_text-align)

|  |  |
| --- | --- |
| **Note** | The <center> tag, supported in older versions of HTML, is not valid in HTML5. |

## Chapter Summary

* Use the **style** attribute for styling HTML elements
* Use **background-color** for background color
* Use **color** for text colors
* Use **font-family** for text fonts
* Use **font-size** for text sizes
* Use **text-align** for text alignment

## Test Yourself with Exercises!

[Exercise 1 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_styles1)  [Exercise 2 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_styles2)  [Exercise 3 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_styles3)  [Exercise 4 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_styles4)  [Exercise 5 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_styles5)  [Exercise 6 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_styles6)

# HTML Text Formatting Elements

[« Previous](http://www.w3schools.com/html/html_styles.asp)

[Next Chapter »](http://www.w3schools.com/html/html_quotation_elements.asp)

### Text Formatting

**This text is bold**  
  
*This text is italic*  
  
This is superscript

## HTML Formatting Elements

In the previous chapter, you learned about HTML **styling**, using the HTML **style attribute**.

HTML also defines special **elements**, for defining text with a special **meaning**.

HTML uses elements like <b> and <i> for formatting output, like **bold** or *italic* text.

Formatting elements were designed to display special **types of text**:

* Bold text
* Important text
* Italic text
* Emphasized text
* Marked text
* Small text
* Deleted text
* Inserted text
* Subscripts
* Superscripts

## HTML Bold and **Strong** Formatting

The HTML **<b>** element defines **bold** text, without any extra importance.

### Example

<p>This text is normal.</p>  
  
<p><b>This text is bold</b>.</p>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_formatting_b)

The HTML **<strong>** element defines **strong** text, with added semantic "strong" importance.

### Example

<p>This text is normal.</p>  
  
<p><strong>This text is strong</strong>.</p>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_formatting_strong)

## HTML *Italic* and Emphasized Formatting

The HTML **<i>** element defines italic text, without any extra importance.

### Example

<p>This text is normal.</p>  
  
<p><i>This text is italic</i>.</p>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_formatting_i)

The HTML **<em>** element defines emphasized text, with added semantic importance.

### Example

<p>This text is normal.</p>  
  
<p><em>This text is emphasized</em>.</p>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_formatting_em)

|  |  |
| --- | --- |
| **Note** | Browsers display <strong> as <b>, and <em> as <i>.  However, there is a difference in the meaning of these tags: <b> and <i> defines bold and italic text, but <strong> and <em> means that the text is "important". |

## HTML Small Formatting

The HTML **<small>** element defines **small** text:

### Example

<h2>HTML <small>Small</small> Formatting</h2>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_formatting_small)

## HTML Marked Formatting

The HTML **<mark>** element defines **marked** or highlighted text:

### Example

<h2>HTML <mark>Marked</mark> Formatting</h2>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_formatting_mark)

## HTML Formatting

The HTML **<del>** element defines **deleted** (removed) text.

### Example

<p>My favorite color is <del>blue</del> red.</p>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_formatting_del)

## HTML Inserted Formatting

The HTML **<ins>** element defines **inserted** (added) text.

### Example

<p>My favorite <ins>color</ins> is red.</p>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_formatting_ins)

## HTML Subscript Formatting

The HTML **<sub>** element defines **subscripted** text.

### Example

<p>This is <sub>subscripted</sub> text.</p>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_formatting_sub)

## HTML Superscript Formatting

The HTML **<sup>** element defines **superscripted** text.

### Example

<p>This is <sup>superscripted</sup> text.</p>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_formatting_sup)

## Test Yourself with Exercises!

[Exercise 1 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_formatting1)   [Exercise 2 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_formatting2)   [Exercise 3 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_formatting3)   [Exercise 4 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_formatting4)   [Exercise 5 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_formatting5)

## HTML Text Formatting Elements

|  |  |
| --- | --- |
| **Tag** | **Description** |
| [<b>](http://www.w3schools.com/tags/tag_b.asp) | Defines bold text |
| [<em>](http://www.w3schools.com/tags/tag_em.asp) | Defines emphasized text |
| [<i>](http://www.w3schools.com/tags/tag_i.asp) | Defines italic text |
| [<small>](http://www.w3schools.com/tags/tag_small.asp) | Defines smaller text |
| [<strong>](http://www.w3schools.com/tags/tag_strong.asp) | Defines important text |
| [<sub>](http://www.w3schools.com/tags/tag_sub.asp) | Defines subscripted text |
| [<sup>](http://www.w3schools.com/tags/tag_sup.asp) | Defines superscripted text |
| [<ins>](http://www.w3schools.com/tags/tag_ins.asp) | Defines inserted text |
| [<del>](http://www.w3schools.com/tags/tag_del.asp) | Defines deleted text |
| [<mark>](http://www.w3schools.com/tags/tag_mark.asp) | Defines marked/highlighted text |

# HTML Quotation and Citation Elements

[« Previous](http://www.w3schools.com/html/html_formatting.asp)

[Next Chapter »](http://www.w3schools.com/html/html_computercode_elements.asp)

### Quotation

Here is a quote from WWF's website:

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.

## HTML <q> for Short Quotations

The HTML **<q>** element defines a short quotation.

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

### Example

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

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_formatting_q)

## HTML <blockquote> for Long Quotations

The HTML **<blockquote>** element defines a quoted section.

Browsers usually indent <blockquote> elements.

### Example

<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>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_formatting_blockquote)

## HTML <abbr> for Abbreviations

The HTML **<abbr>** element defines an abbreviation or an acronym.

Marking abbreviations can give useful information to browsers, translation systems and search-engines.

### Example

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

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_formatting_abbr)

## HTML <address> for Contact Information

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

The <address> element is usually displayed in italic. Most browsers will add a line break before and after the element.

### Example

<address>  
Written by Jon Doe.<br>   
Visit us at:<br>  
Example.com<br>  
Box 564, Disneyland<br>  
USA  
</address>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_formatting_address)

## HTML <cite> for Work Title

The HTML **<cite>** element defines the title of a work.

Browsers usually display <cite> elements in italic.

### Example

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

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_formatting_cite)

## HTML <bdo> for Bi-Directional Override

The HTML **<bdo>** element defines bi-directional override.

The <bdo> element is used to override the current text direction:

### Example

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

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_formatting_bdo)

## Test Yourself with Exercises!

[Exercise 1 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_quotation_elements1)   [Exercise 2 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_quotation_elements2)   [Exercise 3 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_quotation_elements3)   [Exercise 4 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_quotation_elements4)

## HTML Quotation and Citation Elements

|  |  |
| --- | --- |
| **Tag** | **Description** |
| [<abbr>](http://www.w3schools.com/tags/tag_abbr.asp) | Defines an abbreviation or acronym |
| [<address>](http://www.w3schools.com/tags/tag_address.asp) | Defines contact information for the author/owner of a document |
| [<bdo>](http://www.w3schools.com/tags/tag_bdo.asp) | Defines the text direction |
| [<blockquote>](http://www.w3schools.com/tags/tag_blockquote.asp) | Defines a section that is quoted from another source |
| [<cite>](http://www.w3schools.com/tags/tag_cite.asp) | Defines the title of a work |
| [<q>](http://www.w3schools.com/tags/tag_q.asp) | Defines a short inline quotation |

# HTML Computer Code Elements

[« Previous](http://www.w3schools.com/html/html_quotation_elements.asp)

[Next Chapter »](http://www.w3schools.com/html/html_comments.asp)

### Computer Code

var person = {  
    firstName:"John",  
    lastName:"Doe",  
    age:50,  
    eyeColor:"blue"  
}

## HTML Computer Code Formatting

Normally, HTML uses **variable** letter size, and variable letter spacing.

This is not wanted when displaying examples of **computer code**.

The **<kbd>**, **<samp>**, and **<code>** elements all support **fixed** letter size and spacing.

## HTML Keyboard Formatting

The HTML **<kbd>** element defines **keyboard input**:

### Example

<p>To open a file, select:</p>  
  
<p><kbd>File | Open...</kbd></p>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_formatting_kbd)

## HTML Sample Formatting

The HTML **<samp>** element defines a **computer output**:

### Example

<samp>  
demo.example.com login: Apr 12 09:10:17  
Linux 2.6.10-grsec+gg3+e+fhs6b+nfs+gr0501+++p3+c4a+gr2b-reslog-v6.189  
</samp>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_formatting_samp)

## HTML Code Formatting

The HTML **<code>** element defines **programming code**:

### Example

<code>  
var person = { firstName:"John", lastName:"Doe", age:50, eyeColor:"blue" }  
</code>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_formatting_code)

The <code> element does **not** preserve extra **whitespace** and **line-breaks**:

### Example

<p>Coding Example:</p>  
  
<code>  
var person = {  
    firstName:"John",  
    lastName:"Doe",  
    age:50,  
    eyeColor:"blue"  
}  
</code>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_formatting_codelines)

To fix this, you must wrap the code in a <pre> element:

### Example

<p>Coding Example:</p>  
  
<code>  
<pre>  
var person = {  
    firstName:"John",  
    lastName:"Doe",  
    age:50,  
    eyeColor:"blue"  
}  
</pre>  
</code>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_formatting_codepre)

## HTML Variable Formatting

The HTML **<var>** element defines a **mathematical variable**:

### Example

<p>Einstein wrote:</p>  
  
<p><var>E = m c<sup>2</sup></var></p>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_formatting_var)

## Test Yourself with Exercises!

[Exercise 1 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_computercode_elements1)   [Exercise 2 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_computercode_elements2)   [Exercise 3 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_computercode_elements3)

## HTML Computer Code Elements

|  |  |
| --- | --- |
| **Tag** | **Description** |
| [<code>](http://www.w3schools.com/tags/tag_code.asp) | Defines programming code |
| [<kbd>](http://www.w3schools.com/tags/tag_kbd.asp) | Defines keyboard input |
| [<samp>](http://www.w3schools.com/tags/tag_samp.asp) | Defines computer output |
| [<var>](http://www.w3schools.com/tags/tag_var.asp) | Defines a mathematical variable |
| [<pre>](http://www.w3schools.com/tags/tag_pre.asp) | Defines preformatted text |

# HTML Comments

[« Previous](http://www.w3schools.com/html/html_computercode_elements.asp)

[Next Chapter »](http://www.w3schools.com/html/html_css.asp)

Comment tags <!-- and --> are used to insert comments in HTML.

## HTML Comment Tags

You can add comments to your HTML source by using the following syntax:

<!-- Write your comments here -->

|  |  |
| --- | --- |
| **Note** | **Note:** There is an exclamation point (!) in the opening tag, but not in the closing tag. |

Comments are not displayed by the browser, but they can help document your HTML.

With comments you can place notifications and reminders in your HTML:

### Example

<!-- This is a comment -->  
  
<p>This is a paragraph.</p>  
  
<!-- Remember to add more information here -->

[Try it yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_comment)

Comments are also great for debugging HTML, because you can comment out HTML lines of code, one at a time, to search for errors:

### Example

<!-- Do not display this at the moment  
<img border="0" src="pic\_mountain.jpg" alt="Mountain">  
-->

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_comment_out)

## Conditional Comments

You might stumble upon conditional comments in HTML:

<!--[if IE 8]>  
    .... some HTML here ....  
<![endif]-->

Conditional comments defines HTML tags to be executed by Internet Explorer only.

## Software Program Tags

HTML comments tags can also be generated by various HTML software programs.

For example <!--webbot bot--> tags wrapped inside HTML comments by FrontPage and Expression Web.

As a rule, let these tags stay, to help support the software that created them.

## Test Yourself with Exercises!

# HTML Styles - CSS

[« Previous](http://www.w3schools.com/html/html_comments.asp)

[Next Chapter »](http://www.w3schools.com/html/html_links.asp)

# CSS = Styles and Colors

Manipulate Text

Colors,  Boxes

### Example

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

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_css_internal)

## Styling HTML with CSS

CSS stands for **C**ascading **S**tyle **S**heets

Styling can be added to HTML elements in 3 ways:

* Inline - using a **style attribute** in HTML elements
* Internal - using a **<style> element** in the HTML <head> section
* External - using one or more **external CSS files**

The most common way to add styling, is to keep the styles in separate CSS files. But, in this tutorial, we use internal styling, because it is easier to demonstrate, and easier for you to try it yourself.

|  |  |
| --- | --- |
| **Note** | You can learn much more about CSS in our [CSS Tutorial](http://www.w3schools.com/css/default.asp). |

## CSS Syntax

CSS styling has the following syntax:

element { property:value; property:value }

The **element** is an HTML element name. The ***property*** is a CSS property. The ***value*** is a CSS value.

Multiple styles are separated with semicolon.

## Inline Styling (Inline CSS)

**Inline styling** is useful for applying a unique style to a single HTML element:

Inline styling uses the **style attribute**.

This inline styling changes the text color of a single heading:

### Example

<h1 style="color:blue">This is a Blue Heading</h1>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_css_inline)

## Internal Styling (Internal CSS)

An internal style sheet can be used to define a common style for all HTML elements on a page.

**Internal styling** is defined in the **<head>** section of an HTML page, using a **<style>** element:

### Example

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

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_css_internal)

## External Styling (External CSS)

External style sheet are ideal when the style is applied to many pages.

With external style sheets, you can change the look of an entire web site by changing one file.

**External styles** are defined in an external CSS file, and then linked to in the **<head>** section of an HTML page:

### Example

<!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>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_css_external)

## CSS Fonts

The CSS **color** property defines the text color to be used for the HTML element.

The CSS **font-family** property defines the font to be used for the HTML element.

The CSS **font-size** property defines the text size to be used for the HTML element.

### Example

<!DOCTYPE html>  
<html>  
<head>  
<style>  
h1 {  
    color:blue;  
    font-family:verdana;  
    font-size:300%;  
}  
p  {  
    color:red;  
    font-family:courier;  
    font-size:160%;  
}  
</style>  
</head>  
<body>  
  
<h1>This is a heading</h1>  
<p>This is a paragraph.</p>  
  
</body>  
</html>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_css_fonts)

## The CSS Box Model

Every HTML element has a box around it, even if you cannot see it.

The CSS **border** property defines a visible border around an HTML element:

### Example

p {  
    border:1px solid black;  
}

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_css_borders)

The CSS **padding** property defines a padding (space) inside the border:

### Example

p {  
    border:1px solid black;  
    padding:10px;  
}

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_css_padding)

The CSS **margin** property defines a margin (space) outside the border:

### Example

p {  
    border:1px solid black;  
    padding:10px;  
    margin:30px;  
}

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_css_margin)

|  |  |
| --- | --- |
| **Note** | The CSS examples above use px to define sizes in pixels. |

## The id Attribute

All the examples above use CSS to style HTML elements in a general way.

To define a special style for one special element, first add an id attribute to the element:

### Example

<p id="p01">I am different</p>

then define a different style for the (identified) element:

### Example

p#p01 {  
    color:blue;  
}

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_css_id)

## The class Attribute

To define a style for a special type (class) of elements, add a class attribute to the element:

### Example

<p class="error">I am different</p>

Now you can define a different style for all elements with the specified class:

### Example

p.error {  
    color:red;  
}

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_css_class)

|  |  |
| --- | --- |
| **Note** | Use **id** to address **single** elements. Use **class** to address **groups** of elements. |

## Deprecated Tags and Attributes in HTML5

In older HTML versions, several tags and attributes were used to style documents.

These tags and attributes are not supported in HTML5!

Avoid using the <font>, <center>, and <strike> elements.

Avoid using the color and bgcolor attributes.

## Chapter Summary

* Use the HTML **style** attribute for inline styling
* Use the HTML **<style>** element to define internal CSS
* Use the HTML **<link>** element to refer to an external CSS file
* Use the HTML **<head>** element to store <style> and <link> elements
* Use the CSS **color** property for text colors
* Use the CSS **font-family** property for text fonts
* Use the CSS **font-size** property for text sizes
* Use the CSS **border** property for visible element borders
* Use the CSS **padding** property for space inside the border
* Use the CSS **margin** property for space outside the border

## Test Yourself with Exercises!

[Exercise 1 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_css1)  [Exercise 2 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_css2)  [Exercise 3 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_css3)  [Exercise 4 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_css4)  [Exercise 5 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_css5)  [Exercise 6 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_css6)

## HTML Style Tags

|  |  |
| --- | --- |
| **Tag** | **Description** |
| [<style>](http://www.w3schools.com/tags/tag_style.asp) | Defines style information for a document |
| [<link>](http://www.w3schools.com/tags/tag_link.asp) | Defines a link between a document and an external resource |

# HTML Links

[« Previous](http://www.w3schools.com/html/html_css.asp)

[Next Chapter »](http://www.w3schools.com/html/html_images.asp)

Links are found in nearly all web pages. Links allow users to click their way from page to page.

## HTML Links - Hyperlinks

HTML links are hyperlinks.

A hyperlink is a text or an image you can click on, and jump to another document.

## HTML Links - Syntax

In HTML, links are defined with the **<a>** tag:

<a href="*url*">*link text*</a>

### Example

<a href="http://www.w3schools.com/html/">Visit our HTML tutorial</a>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_links_w3schools)

The **href** attribute specifies the destination address (http://www.w3schools.com/html/)

The **link text** is the visible part (Visit our HTML tutorial).

Clicking on the link text, will send you to the specified address.

|  |  |
| --- | --- |
| **Note** | The link text does not have to be text. It can be an HTML image or any other HTML element. |

|  |  |
| --- | --- |
| **Note** | Without a trailing slash on subfolder addresses, you might generate two requests to the server. Many servers will automatically add a trailing slash to the address, and then create a new request. |

## Local Links

The example above used an absolute URL (A full web address).

A local link (link to the same web site) is specified with a relative URL (without http://www....).

### Example

<a href="html\_images.asp">HTML Images</a>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_links)

## HTML Links - Colors

When you move the mouse over a link, two things will normally happen:

* The mouse arrow will turn into a little hand
* The color of the link element will change

By default, a link will appear like this (in all browsers):

* An unvisited link is underlined and blue
* A visited link is underlined and purple
* An active link is underlined and red

You can change the default colors, by using styles:

### Example

<style>  
a:link    {color:green; background-color:transparent; text-decoration:none}  
a:visited {color:pink; background-color:transparent; text-decoration:none}  
a:hover   {color:red; background-color:transparent; text-decoration:underline}  
a:active  {color:yellow; background-color:transparent; text-decoration:underline}  
</style>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_links_colors)

## HTML Links - The target Attribute

The **target** attribute specifies where to open the linked document.

This example will open the linked document in a new browser window or in a new tab:

### Example

<a href="http://www.w3schools.com/" target="\_blank">Visit W3Schools!</a>

[Try it yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_links_target)

|  |  |
| --- | --- |
| **Target Value** | **Description** |
| \_blank | Opens the linked document in a new window or tab |
| \_self | Opens the linked document in the same frame as it was clicked (this is default) |
| \_parent | Opens the linked document in the parent frame |
| \_top | Opens the linked document in the full body of the window |
| *framename* | Opens the linked document in a named frame |

If your webpage is locked in a frame, you can use target="\_top" to break out of the frame:

### Example

<a href="http://www.w3schools.com/html/" target="\_top">HTML5 tutorial!</a>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_links_target_top)

## HTML Links - Image as Link

It is common to use images as links:

### Example

<a href="default.asp">  
  <img src="smiley.gif" alt="HTML tutorial" style="width:42px;height:42px;border:0">  
</a>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_links_image)

|  |  |
| --- | --- |
| **Note** | border:0 is added to prevent IE9 (and earlier) from displaying a border around the image. |

## HTML Links - Create a Bookmark

HTML bookmarks are used to allow readers to jump to specific parts of a Web page.

Bookmarks are practical if your website has long pages.

To make a bookmark, you must first create the bookmark, and then add a link to it.

When the link is clicked, the page will scroll to the location with the bookmark.

## Example

First, create a bookmark with the id attribute:

<h2 id="tips">Useful Tips Section</h2>

Then, add a link to the bookmark ("Useful Tips Section"), from within the same page:

<a href="#tips">Visit the Useful Tips Section</a>

Or, add a link to the bookmark ("Useful Tips Section"), from another page:

### Example

<a href="html\_tips.htm#tips">Visit the Useful Tips Section</a>

[Try it yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_links_bookmark)

## Chapter Summary

* Use the HTML **<a>** element to define a link
* Use the HTML **href** attribute to define the link address
* Use the HTML **target** attribute to define where to open the linked document
* Use the HTML **<img>** element (inside <a>) to use an image as a link
* Use the HTML **id** attribute (id="value") to define bookmarks in a page
* Use the HTML **href** attribute (href="#value") to link to the bookmark

## Test Yourself with Exercises!

[Exercise 1 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_links1)  [Exercise 2 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_links2)  [Exercise 3 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_links3)  [Exercise 4 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_links4)  [Exercise 5 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_links5)

## HTML Link Tags

|  |  |
| --- | --- |
| **Tag** | **Description** |
| [<a>](http://www.w3schools.com/tags/tag_a.asp) | Defines a hyperlink |

# HTML Images

[« Previous](http://www.w3schools.com/html/html_links.asp)

[Next Chapter »](http://www.w3schools.com/html/html_tables.asp)

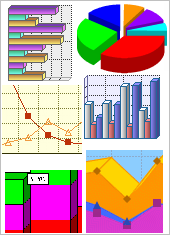
## JPG Images



## GIF Images



## PNG Images



### Example

<!DOCTYPE html>  
<html>  
<body>  
  
<h2>Spectacular Mountain</h2>  
<img src="pic\_mountain.jpg" alt="Mountain View" style="width:304px;height:228px;">  
  
</body>  
</html>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_images_mountain)

|  |  |
| --- | --- |
| **Note** | Always specify the width and height of an image. If width and height are not specified, the page will flicker while the image loads. |

## HTML Images Syntax

In HTML, images are defined with the **<img>** tag.

The <img> tag is empty, it contains attributes only, and does not have a closing tag.

The src attribute specifies the URL (web address) of the image:

<img src="*url*" alt="*some\_text*">

## The alt Attribute

The alt attribute specifies an alternate text for an image, if the image cannot be displayed.

The alt attribute provides alternative information for an image if a user for some reason cannot view it (because of slow connection, an error in the src attribute, or if the user uses a screen reader).

If a browser cannot find an image, it will display the alt text:

### Example

<img src="wrongname.gif" alt="HTML5 Icon" style="width:128px;height:128px;">

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_images_wrong)

The alt attribute is required. A web page will not validate correctly without it.

## HTML Screen Readers

A screen reader is a software program that can read what is displayed on a screen.

Screen readers are useful to people who are blind, visually impaired, or learning disabled.

|  |  |
| --- | --- |
| **Note** | Screen readers can read the **alt** attribute. |

## Image Size - Width and Height

You can use the **style** attribute to specify the width and height of an image.

The values are specified in pixels (use px after the value):

### Example

<img src="html5.gif" alt="HTML5 Icon" style="width:128px;height:128px;">

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_images_size)

Alternatively, you can use **width** and **height** attributes. Here, the values are specified in pixels by default:

### Example

<img src="html5.gif" alt="HTML5 Icon" width="128" height="128">

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_images_attributes)

## Width and Height or Style?

Both the width, height, and style attributes are valid in the latest HTML5 standard.

We suggest you use the style attribute. It prevents styles sheets from changing the original size of images:

### Example

<!DOCTYPE html>  
<html>  
<head>  
<style>  
img {   
    width:100%;   
}  
</style>  
</head>  
<body>  
  
<img src="html5.gif" alt="HTML5 Icon" style="width:128px;height:128px;">  
<img src="html5.gif" alt="HTML5 Icon" width="128" height="128">  
  
</body>  
</html>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_images_style)

## Images in Another Folder

If not specified, the browser expects to find the image in the same folder as the web page.

However, it is common to store images in a sub-folder. You must then include the folder name in the src attribute:

### Example

<img src="/images/html5.gif" alt="HTML5 Icon" style="width:128px;height:128px;">

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_images_folder)

## Images on Another Server

Some web sites store their images on image servers.

Actually, you can access images from any web address in the world:

### Example

<img src="http://www.w3schools.com/images/w3schools\_green.jpg" alt="W3Schools.com">

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_images_w3schools)

## Animated Images

The GIF standard allows animated images:

### Example

<img src="programming.gif" alt="Computer Man" style="width:48px;height:48px;">

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_images_hackman)

Note that the syntax of inserting animated images is no different from non-animated images.

## Using an Image as a Link

 To use an image as a link, simply nest the <img> tag inside the <a> tag:

### Example

<a href="default.asp">  
  <img src="smiley.gif" alt="HTML tutorial" style="width:42px;height:42px;border:0;">  
</a>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_images_link)

|  |  |
| --- | --- |
| **Note** | Add "border:0;" to prevent IE9 (and earlier) from displaying a border around the image. |

## Image Floating

Use the CSS float property to let the image float.

The image can float to the right or to the left of a text:

### Example

<p>  
<img src="smiley.gif" alt="Smiley face" style="float:right;width:42px;height:42px;">  
The image will float to the right of the text.  
</p>  
  
<p>  
<img src="smiley.gif" alt="Smiley face" style="float:left;width:42px;height:42px;">  
The image will float to the left of the text.  
</p>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_images_float)

## Image Maps

Use the <map> tag to define an image-map. An image-map is an image with clickable areas.

The name attribute of the <map> tag is associated with the <img>'s usemap attribute and creates a relationship between the image and the map.

The <map> tag contains a number of <area> tags, that defines the clickable areas in the image-map:

### Example

<img src="planets.gif" alt="Planets" usemap="#planetmap" style="width:145px;height:126px;">  
  
<map name="planetmap">  
  <area shape="rect" coords="0,0,82,126" alt="Sun" href="sun.htm">  
  <area shape="circle" coords="90,58,3" alt="Mercury" href="mercur.htm">  
  <area shape="circle" coords="124,58,8" alt="Venus" href="venus.htm">  
</map>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_images_map)

## Chapter Summary

* Use the HTML **<img>** element to define an image
* Use the HTML **src** attribute to define the URL of the image
* Use the HTML **alt** attribute to define an alternate text for an image, if it cannot be displayed
* Use the HTML **width** and **height** attributes to define the size of the image
* Use the CSS **width** and **height** properties to define the size of the image (alternatively)
* Use the CSS **float** property to let the image float
* Use the HTML **<map>** element to define an image-map
* Use the HTML **<area>** element to define the clickable areas in the image-map
* Use the HTML <img>'s element **usemap** attribute to point to an image-map

|  |  |
| --- | --- |
| **Note** | Loading images takes time. Large images can slow down your page. Use images carefully. |

## Test Yourself with Exercises!

[Exercise 1 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_images1)  [Exercise 2 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_images2)  [Exercise 3 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_images3)  [Exercise 4 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_images4)  [Exercise 5 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_images5)  [Exercise 6 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_images6)

## HTML Image Tags

|  |  |
| --- | --- |
| **Tag** | **Description** |
| [<img>](http://www.w3schools.com/tags/tag_img.asp) | Defines an image |
| [<map>](http://www.w3schools.com/tags/tag_map.asp) | Defines an image-map |
| [<area>](http://www.w3schools.com/tags/tag_area.asp) | Defines a clickable area inside an image-map |

# HTML Tables

[« Previous](http://www.w3schools.com/html/html_images.asp)

[Next Chapter »](http://www.w3schools.com/html/html_lists.asp)

## HTML Table Example

|  |  |  |  |
| --- | --- | --- | --- |
| **Number** | **First Name** | **Last Name** | **Points** |
| 1 | Eve | Jackson | 94 |
| 2 | John | Doe | 80 |
| 3 | Adam | Johnson | 67 |
| 4 | Jill | Smith | 50 |

## Defining HTML Tables

### Example

<table style="width:100%">  
  <tr>  
    <td>Jill</td>  
    <td>Smith</td>   
    <td>50</td>  
  </tr>  
  <tr>  
    <td>Eve</td>  
    <td>Jackson</td>   
    <td>94</td>  
  </tr>  
</table>

[Try it yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_table)

Example explained:

Tables are defined with the **<table>** tag.

Tables are divided into **table rows** with the **<tr>** tag.

Table rows are divided into **table data** with the **<td>** tag.

A table row can also be divided into **table headings** with the **<th>** tag.

|  |  |
| --- | --- |
| **Note** | Table data <td> are the data containers of the table. They can contain all sorts of HTML elements like text, images, lists, other tables, etc. |

## An HTML Table with a Border Attribute

If you do not specify a border for the table, it will be displayed without borders.

A border can be added using the border attribute:

### Example

<table border="1" style="width:100%">  
  <tr>  
    <td>Jill</td>  
    <td>Smith</td>   
    <td>50</td>  
  </tr>  
  <tr>  
    <td>Eve</td>  
    <td>Jackson</td>   
    <td>94</td>  
  </tr>  
</table>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_table_border_attribute)

|  |  |
| --- | --- |
| **Note** | The border attribute is on its way out of the HTML standard! It is better to use CSS. |

To add borders, use the **CSS border** property:

### Example

table, th, td {  
    border: 1px solid black;  
}

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_table_border)

Remember to define borders for both the table and the table cells.

## An HTML Table with Collapsed Borders

If you want the borders to collapse into one border, add **CSS border-collapse**:

### Example

table, th, td {  
    border: 1px solid black;  
    border-collapse: collapse;  
}

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_table_collapse)

## An HTML Table with Cell Padding

Cell padding specifies the space between the cell content and its borders.

If you do not specify a padding, the table cells will be displayed without padding.

To set the padding, use the **CSS padding** property:

### Example

table, th, td {  
    border: 1px solid black;  
    border-collapse: collapse;  
}  
th, td {  
    padding: 15px;  
}

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_table_cellpadding)

## HTML Table Headings

Table headings are defined with the **<th>** tag.

By default, all major browsers display table headings as bold and centered:

### Example

<table style="width:100%">  
  <tr>  
    <th>Firstname</th>  
    <th>Lastname</th>   
    <th>Points</th>  
  </tr>  
  <tr>  
    <td>Eve</td>  
    <td>Jackson</td>   
    <td>94</td>  
  </tr>  
</table>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_table_headings)

To left-align the table headings, use the **CSS text-align** property:

### Example

th {  
    text-align: left;  
}

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_table_headings_left)

## An HTML Table with Border Spacing

Border spacing specifies the space between the cells.

To set the border spacing for a table, use the **CSS border-spacing** property:

### Example

table {  
    border-spacing: 5px;  
}

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_table_cellspacing)

|  |  |
| --- | --- |
| **Note** | If the table has collapsed borders, border-spacing has no effect. |

## Table Cells that Span Many Columns

To make a cell span more than one column, use the **colspan** attribute:

### Example

<table style="width:100%">  
  <tr>  
    <th>Name</th>  
    <th colspan="2">Telephone</th>  
  </tr>  
  <tr>  
    <td>Bill Gates</td>  
    <td>555 77 854</td>  
    <td>555 77 855</td>  
  </tr>  
</table>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_table_colspan)

## Table Cells that Span Many Rows

To make a cell span more than one row, use the **rowspan** attribute:

### Example

<table style="width:100%">  
  <tr>  
    <th>Name:</th>  
    <td>Bill Gates</td>  
  </tr>  
  <tr>  
    <th rowspan="2">Telephone:</th>  
    <td>555 77 854</td>  
  </tr>  
  <tr>  
    <td>555 77 855</td>  
  </tr>  
</table>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_table_rowspan)

## An HTML Table With a Caption

To add a caption to a table, use the **<caption>** tag:

### Example

<table style="width:100%">  
  <caption>Monthly savings</caption>  
  <tr>  
    <th>Month</th>  
    <th>Savings</th>  
  </tr>  
  <tr>  
    <td>January</td>  
    <td>$100</td>  
  </tr>  
  <tr>  
    <td>February</td>  
    <td>$50</td>  
  </tr>  
</table>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_tables2)

|  |  |
| --- | --- |
| **Note** | The <caption> tag must be inserted immediately after the <table> tag. |

## A Special Style for One Table

To define a special style for a special table, add an **id attribute** to the table:

### Example

<table id="t01">  
  <tr>  
    <th>Firstname</th>  
    <th>Lastname</th>   
    <th>Points</th>  
  </tr>  
  <tr>  
    <td>Eve</td>  
    <td>Jackson</td>   
    <td>94</td>  
  </tr>  
</table>

### Now you can define a special style for this table:

table#t01 {  
    width: 100%;   
    background-color: #f1f1c1;  
}

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_table_id1)

### And add more styles:

table#t01 tr:nth-child(even) {  
    background-color: #eee;  
}  
table#t01 tr:nth-child(odd) {  
    background-color: #fff;  
}  
table#t01 th {  
    color: white;  
    background-color: black;  
}

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_table_id2)

## Chapter Summary

* Use the HTML **<table>** element to define a table
* Use the HTML **<tr>** element to define a table row
* Use the HTML **<td>** element to define a table data
* Use the HTML **<th>** element to define a table heading
* Use the HTML **<caption>** element to define a table caption
* Use the CSS **border** property to define a border
* Use the CSS **border-collapse** property to collapse cell borders
* Use the CSS **padding** property to add padding to cells
* Use the CSS **text-align** property to align cell text
* Use the CSS **border-spacing** property to set the spacing between cells
* Use the **colspan** attribute to make a cell span many columns
* Use the **rowspan** attribute to make a cell span many rows
* Use the **id** attribute to uniquely define one table

## Test Yourself with Exercises!

[Exercise 1 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_tables1)  [Exercise 2 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_tables2)  [Exercise 3 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_tables3)  [Exercise 4 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_tables4)  [Exercise 5 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_tables5)  [Exercise 6 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_tables6)

## HTML Table Tags

|  |  |
| --- | --- |
| **Tag** | **Description** |
| [<table>](http://www.w3schools.com/tags/tag_table.asp) | Defines a table |
| [<th>](http://www.w3schools.com/tags/tag_th.asp) | Defines a header cell in a table |
| [<tr>](http://www.w3schools.com/tags/tag_tr.asp) | Defines a row in a table |
| [<td>](http://www.w3schools.com/tags/tag_td.asp) | Defines a cell in a table |
| [<caption>](http://www.w3schools.com/tags/tag_caption.asp) | Defines a table caption |
| [<colgroup>](http://www.w3schools.com/tags/tag_colgroup.asp) | Specifies a group of one or more columns in a table for formatting |
| [<col>](http://www.w3schools.com/tags/tag_col.asp) | Specifies column properties for each column within a <colgroup> element |
| [<thead>](http://www.w3schools.com/tags/tag_thead.asp) | Groups the header content in a table |
| [<tbody>](http://www.w3schools.com/tags/tag_tbody.asp) | Groups the body content in a table |
| [<tfoot>](http://www.w3schools.com/tags/tag_tfoot.asp) | Groups the footer content in a table |

# HTML Lists

[« Previous](http://www.w3schools.com/html/html_tables.asp)

[Next Chapter »](http://www.w3schools.com/html/html_blocks.asp)

### Unordered lists and ordered lists are commonly used in HTML:

### Unordered List

* The first item
* The second item
* The third item
* The fourth item

### Ordered List

1. The first item
2. The second item
3. The third item
4. The fourth item

## Unordered HTML Lists

An unordered list starts with the **<ul>** tag. Each list item starts with the **<li>** tag.

The list items will be marked with bullets (small black circles):

### Example

<ul>  
  <li>Coffee</li>  
  <li>Tea</li>  
  <li>Milk</li>  
</ul>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_lists_unordered)

## Unordered HTML Lists - The Style Attribute

A **style** attribute can be added to an **unordered list**, to define the style of the marker:

|  |  |
| --- | --- |
| **Style** | **Description** |
| list-style-type:disc | The list items will be marked with bullets (default) |
| list-style-type:circle | The list items will be marked with circles |
| list-style-type:square | The list items will be marked with squares |
| list-style-type:none | The list items will not be marked |

### Disc:

<ul style="list-style-type:disc">  
  <li>Coffee</li>  
  <li>Tea</li>  
  <li>Milk</li>  
</ul>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_lists_unordered_disc)

### Circle:

<ul style="list-style-type:circle">  
  <li>Coffee</li>  
  <li>Tea</li>  
  <li>Milk</li>  
</ul>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_lists_unordered_circle)

### Square:

<ul style="list-style-type:square">  
  <li>Coffee</li>  
  <li>Tea</li>  
  <li>Milk</li>  
</ul>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_lists_unordered_square)

### None:

<ul style="list-style-type:none">  
  <li>Coffee</li>  
  <li>Tea</li>  
  <li>Milk</li>  
</ul>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_lists_unordered_none)

## Ordered HTML Lists

An ordered list starts with the **<ol>** tag. Each list item starts with the **<li>** tag.

The list items will be marked with numbers:

### Example

<ol>  
  <li>Coffee</li>  
  <li>Tea</li>  
  <li>Milk</li>  
</ol>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_lists_ordered)

## Ordered HTML Lists - The Type Attribute

A **type** attribute can be added to an **ordered list**, to define the type of the marker:

|  |  |
| --- | --- |
| **Type** | **Description** |
| type="1" | The list items will be numbered with numbers (default) |
| type="A" | The list items will be numbered with uppercase letters |
| type="a" | The list items will be numbered with lowercase letters |
| type="I" | The list items will be numbered with uppercase roman numbers |
| type="i" | The list items will be numbered with lowercase roman numbers |

### Numbers:

<ol type="1">  
  <li>Coffee</li>  
  <li>Tea</li>  
  <li>Milk</li>  
</ol>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_lists_ordered_numbers)

### Uppercase Letters:

<ol type="A">  
  <li>Coffee</li>  
  <li>Tea</li>  
  <li>Milk</li>  
</ol>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_lists_ordered_ucase)

### Lowercase Letters:

<ol type="a">  
  <li>Coffee</li>  
  <li>Tea</li>  
  <li>Milk</li>  
</ol>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_lists_ordered_lcase)

### Uppercase Roman Numbers:

<ol type="I">  
  <li>Coffee</li>  
  <li>Tea</li>  
  <li>Milk</li>  
</ol>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_lists_ordered_roman_ucase)

### Lowercase Roman Numbers:

<ol type="i">  
  <li>Coffee</li>  
  <li>Tea</li>  
  <li>Milk</li>  
</ol>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_lists_ordered_roman_lcase)

## HTML Description Lists

HTML also supports description lists.

A description list is a list of terms, with a description of each term.

The **<dl>** tag defines the description list, the **<dt>** tag defines the term (name), and the **<dd>** tag describes each term:

### Example

<dl>  
  <dt>Coffee</dt>  
  <dd>- black hot drink</dd>  
  <dt>Milk</dt>  
  <dd>- white cold drink</dd>  
</dl>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_lists_description)

## Nested HTML Lists

List can be nested (lists inside lists):

### Example

<ul>  
  <li>Coffee</li>  
  <li>Tea  
    <ul>  
      <li>Black tea</li>  
      <li>Green tea</li>  
    </ul>  
  </li>  
  <li>Milk</li>  
</ul>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_lists_nested)

|  |  |
| --- | --- |
| **Note** | List items can contain new list, and other HTML elements, like images and links, etc. |

## Horizontal Lists

HTML lists can be styled in many different ways with CSS.

One popular way, is to style a list to be displayed horizontally:

### Example

<!DOCTYPE html>  
<html>  
  
<head>  
<style>  
ul#menu li {  
    display:inline;  
}  
</style>  
</head>  
  
<body>  
  
<h2>Horizontal List</h2>  
  
<ul id="menu">  
  <li>HTML</li>  
  <li>CSS</li>  
  <li>JavaScript</li>  
  <li>PHP</li>  
</ul>   
  
</body>  
</html>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_lists_horizontal)

With a little extra style, you can make it look like a menu:

### Example

ul#menu {  
    padding: 0;  
}  
  
ul#menu li {  
    display: inline;  
}  
  
ul#menu li a {  
    background-color: black;  
    color: white;  
    padding: 10px 20px;  
    text-decoration: none;  
    border-radius: 4px 4px 0 0;  
}  
  
ul#menu li a:hover {  
    background-color: orange;  
}

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_lists_menu)

## Chapter Summary

* Use the HTML **<ul>** element to define an unordered list
* Use the HTML **style** attribute to define the bullet style
* Use the HTML **<ol>** element to define an ordered list
* Use the HTML **type** attribute to define the numbering type
* Use the HTML **<li>** element to define a list item
* Use the HTML **<dl>** element to define a description list
* Use the HTML **<dt>** element to define the description term
* Use the HTML **<dd>** element to define the description data
* Lists can be nested inside lists
* List items can contain other HTML elements
* Use the CSS property **display:inline** to display a list horizontally

## Test Yourself with Exercises!

[Exercise 1 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_lists1)  [Exercise 2 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_lists2)  [Exercise 3 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_lists3)  [Exercise 4 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_lists4)  [Exercise 5 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_lists5)  [Exercise 6 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_lists6)

## HTML List Tags

|  |  |
| --- | --- |
| **Tag** | **Description** |
| [<ul>](http://www.w3schools.com/tags/tag_ul.asp) | Defines an unordered list |
| [<ol>](http://www.w3schools.com/tags/tag_ol.asp) | Defines an ordered list |
| [<li>](http://www.w3schools.com/tags/tag_li.asp) | Defines a list item |
| [<dl>](http://www.w3schools.com/tags/tag_dl.asp) | Defines a description list |
| [<dt>](http://www.w3schools.com/tags/tag_dt.asp) | Defines the term in a description list |
| [<dd>](http://www.w3schools.com/tags/tag_dd.asp) | Defines the description in a description list |

# HTML Block and Inline Elements

[« Previous](http://www.w3schools.com/html/html_lists.asp)

[Next Chapter »](http://www.w3schools.com/html/html_classes.asp)

Every HTML element has a default display value depending on what type of element it is. The default display value for most elements is block or inline.

## Block-level Elements

A block-level element always starts on a new line and takes up the full width available (stretches out to the left and right as far as it can).

The <div> element is a block-level element.

Examples of block-level elements:

* <div>
* <h1> - <h6>
* <p>
* <form>

## Inline Elements

An inline element does not start on a new line and only takes up as much width as necessary.

This is an inline <span> element inside a paragraph.

Examples of inline elements:

* <span>
* <a>
* <img>

## The <div> Element

The <div> element is a **block-level element** that is often used as a container for other HTML elements.

The <div> element has no required attributes, but **style** and **class** are common.

When used together with CSS, the <div> element can be used to style blocks of content:

### Example

<div style="background-color:black; color:white; padding:20px;">  
  
<h2>London</h2>  
<p>London is the capital city of England. It is the most populous city in the United Kingdom, with a metropolitan area of over 13 million inhabitants.</p>  
  
</div>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_div_capitals)

## The <span> Element

The <span> element is an **inline element** that is often used as a container for some text.

The <span> element has no required attributes, but **style** and **class** are common.

When used together with CSS, the <span> element can be used to style parts of the text:

### Example

<h1>My <span style="color:red">Important</span> Heading</h1>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_span_red)

## HTML Grouping Tags

|  |  |
| --- | --- |
| **Tag** | **Description** |
| [<div>](http://www.w3schools.com/tags/tag_div.asp) | Defines a section in a document (block-level) |
| [<span>](http://www.w3schools.com/tags/tag_span.asp) | Defines a section in a document (inline) |

# HTML Classes

[« Previous](http://www.w3schools.com/html/html_blocks.asp)

[Next Chapter »](http://www.w3schools.com/html/html_layout.asp)

## Classing Block Elements

The HTML class attribute makes it possible to define equal styles for "equal" <div> elements:

## London

London is the capital city of England. It is the most populous city in the United Kingdom, with a metropolitan area of over 13 million inhabitants.

Standing on the River Thames, London has been a major settlement for two millennia, its history going back to its founding by the Romans, who named it Londinium.

## Paris

Paris is the capital and most populous city of France.

Situated on the Seine River, it is at the heart of the Île-de-France region, also known as the région parisienne.

Within its metropolitan area is one of the largest population centers in Europe, with over 12 million inhabitants.

## Tokyo

Tokyo is the capital of Japan, the center of the Greater Tokyo Area, and the most populous metropolitan area in the world.

It is the seat of the Japanese government and the Imperial Palace, and the home of the Japanese Imperial Family.

The Tokyo prefecture is part of the world's most populous metropolitan area with 38 million people and the world's largest urban economy.

### Example

<!DOCTYPE html>  
<html>  
<head>  
<style>  
div.cities {  
    background-color:black;  
    color:white;  
    margin:20px;  
    padding:20px;  
}   
</style>  
</head>  
<body>  
  
<div class="cities">  
<h2>London</h2>  
<p>London is the capital city of England. It is the most populous city in the United Kingdom, with a metropolitan area of over 13 million inhabitants.</p>  
</div>  
  
<div class="cities">  
<h2>Paris</h2>  
<p>Paris is the capital and most populous city of France.</p>  
</div>  
  
<div class="cities">  
<h2>Tokyo</h2>  
<p>Tokyo is the capital of Japan, the center of the Greater Tokyo Area,  
and the most populous metropolitan area in the world.</p>  
</div>  
  
</body>  
</html>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_classes_capitals)

## Classing Inline Elements

The HTML class attribute also makes it possible to define equal styles for "equal" <span> elements:

### Example

<!DOCTYPE html>  
<html>  
<head>  
<style>  
span.note {font-size:120%;color:red;}  
</style>  
</head>  
<body>  
  
<h1>My <span class="note">Important</span> Heading</h1>  
<p>This is some <span class="note">important</span> text.</p>  
  
</body>  
</html>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_classes_span)

## Test Yourself with Exercises!

[Exercise 1 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_classes1)  [Exercise 2 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_classes2)  [Exercise 3 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_classes3)

# HTML Layouts

[« Previous](http://www.w3schools.com/html/html_classes.asp)

[Next Chapter »](http://www.w3schools.com/html/html_responsive.asp)

Websites often display content in multiple columns (like a magazine or newspaper).

# City Gallery

London  
Paris  
Tokyo

# London

London is the capital city of England. It is the most populous city in the United Kingdom, with a metropolitan area of over 13 million inhabitants.

Standing on the River Thames, London has been a major settlement for two millennia, its history going back to its founding by the Romans, who named it Londinium.

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## HTML Layout Using <div> Elements

|  |  |
| --- | --- |
| **Note** | The <div> element is often used as a layout tool, because it can easily be positioned with CSS. |

This example uses 4 <div> elements to create a multiple column layout:

### Example

<body>  
  
<div id="header">  
<h1>City Gallery</h1>  
</div>  
  
<div id="nav">  
London<br>  
Paris<br>  
Tokyo<br>  
</div>  
  
<div id="section">  
<h1>London</h1>  
<p>  
London is the capital city of England. It is the most populous city in the United Kingdom,  
with a metropolitan area of over 13 million inhabitants.  
</p>  
<p>  
Standing on the River Thames, London has been a major settlement for two millennia,  
its history going back to its founding by the Romans, who named it Londinium.  
</p>  
</div>  
  
<div id="footer">  
Copyright © W3Schools.com  
</div>  
  
</body>

[Try it yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_layout_divs)

### The CSS:

<style>  
#header {  
    background-color:black;  
    color:white;  
    text-align:center;  
    padding:5px;  
}  
#nav {  
    line-height:30px;  
    background-color:#eeeeee;  
    height:300px;  
    width:100px;  
    float:left;  
    padding:5px;   
}  
#section {  
    width:350px;  
    float:left;  
    padding:10px;   
}  
#footer {  
    background-color:black;  
    color:white;  
    clear:both;  
    text-align:center;  
    padding:5px;   
}  
</style>

## Website Layout Using HTML5

HTML5 offers new semantic elements that define different parts of a web page:

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| HTML5 Semantic Elements | |  |  | | --- | --- | | header | Defines a header for a document or a section | | nav | Defines a container for navigation links | | section | Defines a section in a document | | article | Defines an independent self-contained article | | aside | Defines content aside from the content (like a sidebar) | | footer | Defines a footer for a document or a section | | details | Defines additional details | | summary | Defines a heading for the details element | |

This example uses <header>, <nav>, <section>, and <footer> to create a multiple column layout:

### Example

<body>  
  
<header>  
<h1>City Gallery</h1>  
</header>  
  
<nav>  
London<br>  
Paris<br>  
Tokyo<br>  
</nav>  
  
<section>  
<h1>London</h1>  
<p>  
London is the capital city of England. It is the most populous city in the United Kingdom,  
with a metropolitan area of over 13 million inhabitants.  
</p>  
<p>  
Standing on the River Thames, London has been a major settlement for two millennia,  
its history going back to its founding by the Romans, who named it Londinium.  
</p>  
</section>  
  
<footer>  
Copyright © W3Schools.com  
</footer>  
  
</body>

[Try it yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_layout_semantic)

### The CSS

<style>  
header {  
    background-color:black;  
    color:white;  
    text-align:center;  
    padding:5px;   
}  
nav {  
    line-height:30px;  
    background-color:#eeeeee;  
    height:300px;  
    width:100px;  
    float:left;  
    padding:5px;   
}  
section {  
    width:350px;  
    float:left;  
    padding:10px;   
}  
footer {  
    background-color:black;  
    color:white;  
    clear:both;  
    text-align:center;  
    padding:5px;   
}

## HTML Layout Using Tables

|  |  |
| --- | --- |
| **Note** | The <table> element was not designed to be a layout tool. The purpose of the <table> element is to display tabular data. |

Layout can be achieved using the <table> element, because table elements can be styled with CSS:

### Example

<body>  
  
<table class="lamp">  
<tr>  
  <th>  
    <img src="/images/lamp.jpg" alt="Note" style="height:32px;width:32px">  
  </th>  
  <td>  
    The table element was not designed to be a layout tool.  
  </td>  
</tr>  
</table>  
  
</body>

[Try it yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_layout_tables)

### The CSS

<style>  
table.lamp {  
    width:100%;  
    border:1px solid #d4d4d4;  
}  
table.lamp th, td {  
    padding:10px;  
}  
table.lamp th {  
    width:40px;  
}  
</style>

# HTML Responsive Web Design

[« Previous](http://www.w3schools.com/html/html_layout.asp)

[Next Chapter »](http://www.w3schools.com/html/html_iframe.asp)

Your web page should look good, and be easy to use, regardless of the device.

## What is Responsive Web Design?

Responsive Web Design makes your web page look good on all devices (desktops, tablets, and phones).

Responsive Web Design is about using CSS and HTML to resize, hide, shrink, enlarge, or move the content to make it look good on any screen:

## Create Your Own Responsive Design

One way to create a responsive design, is to create it yourself:

### Example

<!DOCTYPE html>  
<html lang="en-us">  
<head>  
<style>  
.city {  
    float: left;  
    margin: 5px;  
    padding: 15px;  
    width: 300px;  
    height: 300px;  
    border: 1px solid black;  
}   
</style>  
</head>  
<body>  
  
<h1>Responsive Web Design Demo</h1>  
  
<div class="city">  
  <h2>London</h2>  
  <p>London is the capital city of England.</p>  
  <p>It is the most populous city in the United Kingdom,  
  with a metropolitan area of over 13 million inhabitants.</p>  
</div>  
  
<div class="city">  
  <h2>Paris</h2>  
  <p>Paris is the capital of France.</p>   
  <p>The Paris area is one of the largest population centers in Europe,  
  with more than 12 million inhabitants.</p>  
</div>  
  
<div class="city">  
  <h2>Tokyo</h2>  
  <p>Tokyo is the capital of Japan.</p>  
  <p>It is the center of the Greater Tokyo Area,  
  and the most populous metropolitan area in the world.</p>  
</div>  
  
</body>  
</html>

[Try it yourself »](http://www.w3schools.com/html/tryrwd_simple.htm)

## Using W3.CSS

Another way to create a responsive design, is to use a responsive style sheet, like [W3.CSS](http://www.w3schools.com/w3css/default.asp)

W3.CSS makes it easy to develop sites that look nice at any size; desktop, laptop, tablet, or phone:

# W3.CSS Demo

Resize this responsive page!

## London

London is the capital city of England.

It is the most populous city in the United Kingdom, with a metropolitan area of over 13 million inhabitants.

## Paris

Paris is the capital of France.

The Paris area is one of the largest population centers in Europe, with more than 12 million inhabitants.

## Tokyo

Tokyo is the capital of Japan.

It is the center of the Greater Tokyo Area, and the most populous metropolitan area in the world.

### Example

<!DOCTYPE html>  
<html>  
<meta name="viewport" content="width=device-width, initial-scale=1">  
<link rel="stylesheet" href="http://www.w3schools.com/lib/w3.css">  
<body>  
  
<div class="w3-container w3-orange">  
  <h1>W3.CSS Demo</h1>   
  <p>Resize this responsive page!</p>   
</div>  
  
<div class="w3-row-padding">  
  
<div class="w3-third">  
  <h2>London</h2>  
  <p>London is the capital city of England.</p>  
  <p>It is the most populous city in the United Kingdom,  
  with a metropolitan area of over 13 million inhabitants.</p>  
</div>  
  
<div class="w3-third">  
  <h2>Paris</h2>  
  <p>Paris is the capital of France.</p>   
  <p>The Paris area is one of the largest population centers in Europe,  
  with more than 12 million inhabitants.</p>  
</div>  
  
<div class="w3-third">  
  <h2>Tokyo</h2>  
  <p>Tokyo is the capital of Japan.</p>  
  <p>It is the center of the Greater Tokyo Area,  
  and the most populous metropolitan area in the world.</p>  
</div>  
  
</div>  
  
</body>  
</html>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_w3css)

To learn more about W3.CSS, read our [W3.CSS Tutorial](http://www.w3schools.com/w3css/default.asp).

# HTML Iframes

[« Previous](http://www.w3schools.com/html/html_responsive.asp)

[Next Chapter »](http://www.w3schools.com/html/html_colornames.asp)

An iframe is used to display a web page within a web page.

## Iframe Syntax

The syntax for adding an iframe is:

<iframe src="URL"></iframe>

The **src** attribute specifies the URL (web address) of the iframe page.

## Iframe - Set Height and Width

Use the **height** and **width** attributes to specify the size.

The attribute values are specified in pixels by default, but they can also be in percent (like "80%").

### Example

<iframe src="demo\_iframe.htm" width="200" height="200"></iframe>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_iframe_height_width)

## Iframe - Remove the Border

By default, an iframe has a black border around it.

To remove the border, add the style attribute and use the CSS border property:

### Example

<iframe src="demo\_iframe.htm" style="border:none"></iframe>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_iframe_frameborder)

With CSS, you can also change the size, style and color of the iframe's border:

### Example

<iframe src="demo\_iframe.htm" style="border:5px dotted red"></iframe>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_iframe_border2)

## Use iframe as a Target for a Link

An iframe can be used as the target frame for a link.

The **target** attribute of the link must refer to the **name** attribute of the iframe:

### Example

<iframe src="demo\_iframe.htm" name="iframe\_a"></iframe>  
<p><a href="http://www.w3schools.com" target="iframe\_a">W3Schools.com</a></p>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_iframe_target)

## HTML iframe Tag

|  |  |
| --- | --- |
| **Tag** | **Description** |
| [<iframe>](http://www.w3schools.com/tags/tag_iframe.asp) | Defines an inline frame |

## Test Yourself with Exercises!

[Exercise 1 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_iframe1)   [Exercise 2 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_iframe2)   [Exercise 3 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_iframe3)   [Exercise 4 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_iframe4)

# HTML Color Names

[« Previous](http://www.w3schools.com/html/html_iframe.asp)

[Next Chapter »](http://www.w3schools.com/html/html_colorvalues.asp)

## Color Names Supported by All Browsers

All modern browsers support the following 140 color names (click on a color name, or a hex value, to view the color as the background-color along with different text colors):

[Click here to see the 140 colors sorted by HEX Value](http://www.w3schools.com/html/html_colorvalues.asp)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Color Name** | **HEX** | **Color** | **Shades** | **Mix** |
| [AliceBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=AliceBlue) | [#F0F8FF](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=F0F8FF) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=F0F8FF) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=F0F8FF&colortop=FFFFFF) |
| [AntiqueWhite](http://www.w3schools.com/tags/ref_color_tryit.asp?color=AntiqueWhite) | [#FAEBD7](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FAEBD7) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FAEBD7) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FAEBD7&colortop=FFFFFF) |
| [Aqua](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Aqua) | [#00FFFF](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=00FFFF) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=00FFFF) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=00FFFF&colortop=FFFFFF) |
| [Aquamarine](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Aquamarine) | [#7FFFD4](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=7FFFD4) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=7FFFD4) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=7FFFD4&colortop=FFFFFF) |
| [Azure](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Azure) | [#F0FFFF](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=F0FFFF) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=F0FFFF) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=F0FFFF&colortop=FFFFFF) |
| [Beige](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Beige) | [#F5F5DC](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=F5F5DC) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=F5F5DC) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=F5F5DC&colortop=FFFFFF) |
| [Bisque](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Bisque) | [#FFE4C4](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFE4C4) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFE4C4) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFE4C4&colortop=FFFFFF) |
| [Black](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Black) | [#000000](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=000000) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=000000) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=000000&colortop=FFFFFF) |
| [BlanchedAlmond](http://www.w3schools.com/tags/ref_color_tryit.asp?color=BlanchedAlmond) | [#FFEBCD](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFEBCD) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFEBCD) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFEBCD&colortop=FFFFFF) |
| [Blue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Blue) | [#0000FF](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=0000FF) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=0000FF) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=0000FF&colortop=FFFFFF) |
| [BlueViolet](http://www.w3schools.com/tags/ref_color_tryit.asp?color=BlueViolet) | [#8A2BE2](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=8A2BE2) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=8A2BE2) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=8A2BE2&colortop=FFFFFF) |
| [Brown](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Brown) | [#A52A2A](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=A52A2A) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=A52A2A) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=A52A2A&colortop=FFFFFF) |
| [BurlyWood](http://www.w3schools.com/tags/ref_color_tryit.asp?color=BurlyWood) | [#DEB887](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=DEB887) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=DEB887) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=DEB887&colortop=FFFFFF) |
| [CadetBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=CadetBlue) | [#5F9EA0](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=5F9EA0) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=5F9EA0) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=5F9EA0&colortop=FFFFFF) |
| [Chartreuse](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Chartreuse) | [#7FFF00](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=7FFF00) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=7FFF00) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=7FFF00&colortop=FFFFFF) |
| [Chocolate](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Chocolate) | [#D2691E](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=D2691E) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=D2691E) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=D2691E&colortop=FFFFFF) |
| [Coral](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Coral) | [#FF7F50](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FF7F50) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FF7F50) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FF7F50&colortop=FFFFFF) |
| [CornflowerBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=CornflowerBlue) | [#6495ED](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=6495ED) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=6495ED) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=6495ED&colortop=FFFFFF) |
| [Cornsilk](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Cornsilk) | [#FFF8DC](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFF8DC) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFF8DC) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFF8DC&colortop=FFFFFF) |
| [Crimson](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Crimson) | [#DC143C](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=DC143C) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=DC143C) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=DC143C&colortop=FFFFFF) |
| [Cyan](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Cyan) | [#00FFFF](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=00FFFF) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=00FFFF) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=00FFFF&colortop=FFFFFF) |
| [DarkBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkBlue) | [#00008B](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=00008B) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=00008B) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=00008B&colortop=FFFFFF) |
| [DarkCyan](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkCyan) | [#008B8B](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=008B8B) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=008B8B) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=008B8B&colortop=FFFFFF) |
| [DarkGoldenRod](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkGoldenRod) | [#B8860B](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=B8860B) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=B8860B) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=B8860B&colortop=FFFFFF) |
| [DarkGray](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkGray) | [#A9A9A9](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=A9A9A9) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=A9A9A9) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=A9A9A9&colortop=FFFFFF) |
| [DarkGreen](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkGreen) | [#006400](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=006400) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=006400) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=006400&colortop=FFFFFF) |
| [DarkKhaki](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkKhaki) | [#BDB76B](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=BDB76B) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=BDB76B) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=BDB76B&colortop=FFFFFF) |
| [DarkMagenta](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkMagenta) | [#8B008B](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=8B008B) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=8B008B) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=8B008B&colortop=FFFFFF) |
| [DarkOliveGreen](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkOliveGreen) | [#556B2F](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=556B2F) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=556B2F) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=556B2F&colortop=FFFFFF) |
| [DarkOrange](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkOrange) | [#FF8C00](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FF8C00) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FF8C00) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FF8C00&colortop=FFFFFF) |
| [DarkOrchid](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkOrchid) | [#9932CC](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=9932CC) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=9932CC) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=9932CC&colortop=FFFFFF) |
| [DarkRed](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkRed) | [#8B0000](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=8B0000) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=8B0000) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=8B0000&colortop=FFFFFF) |
| [DarkSalmon](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkSalmon) | [#E9967A](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=E9967A) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=E9967A) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=E9967A&colortop=FFFFFF) |
| [DarkSeaGreen](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkSeaGreen) | [#8FBC8F](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=8FBC8F) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=8FBC8F) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=8FBC8F&colortop=FFFFFF) |
| [DarkSlateBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkSlateBlue) | [#483D8B](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=483D8B) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=483D8B) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=483D8B&colortop=FFFFFF) |
| [DarkSlateGray](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkSlateGray) | [#2F4F4F](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=2F4F4F) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=2F4F4F) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=2F4F4F&colortop=FFFFFF) |
| [DarkTurquoise](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkTurquoise) | [#00CED1](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=00CED1) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=00CED1) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=00CED1&colortop=FFFFFF) |
| [DarkViolet](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkViolet) | [#9400D3](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=9400D3) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=9400D3) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=9400D3&colortop=FFFFFF) |
| [DeepPink](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DeepPink) | [#FF1493](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FF1493) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FF1493) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FF1493&colortop=FFFFFF) |
| [DeepSkyBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DeepSkyBlue) | [#00BFFF](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=00BFFF) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=00BFFF) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=00BFFF&colortop=FFFFFF) |
| [DimGray](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DimGray) | [#696969](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=696969) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=696969) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=696969&colortop=FFFFFF) |
| [DodgerBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DodgerBlue) | [#1E90FF](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=1E90FF) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=1E90FF) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=1E90FF&colortop=FFFFFF) |
| [FireBrick](http://www.w3schools.com/tags/ref_color_tryit.asp?color=FireBrick) | [#B22222](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=B22222) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=B22222) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=B22222&colortop=FFFFFF) |
| [FloralWhite](http://www.w3schools.com/tags/ref_color_tryit.asp?color=FloralWhite) | [#FFFAF0](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFFAF0) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFFAF0) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFFAF0&colortop=FFFFFF) |
| [ForestGreen](http://www.w3schools.com/tags/ref_color_tryit.asp?color=ForestGreen) | [#228B22](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=228B22) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=228B22) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=228B22&colortop=FFFFFF) |
| [Fuchsia](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Fuchsia) | [#FF00FF](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FF00FF) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FF00FF) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FF00FF&colortop=FFFFFF) |
| [Gainsboro](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Gainsboro) | [#DCDCDC](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=DCDCDC) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=DCDCDC) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=DCDCDC&colortop=FFFFFF) |
| [GhostWhite](http://www.w3schools.com/tags/ref_color_tryit.asp?color=GhostWhite) | [#F8F8FF](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=F8F8FF) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=F8F8FF) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=F8F8FF&colortop=FFFFFF) |
| [Gold](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Gold) | [#FFD700](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFD700) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFD700) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFD700&colortop=FFFFFF) |
| [GoldenRod](http://www.w3schools.com/tags/ref_color_tryit.asp?color=GoldenRod) | [#DAA520](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=DAA520) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=DAA520) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=DAA520&colortop=FFFFFF) |
| [Gray](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Gray) | [#808080](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=808080) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=808080) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=808080&colortop=FFFFFF) |
| [Green](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Green) | [#008000](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=008000) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=008000) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=008000&colortop=FFFFFF) |
| [GreenYellow](http://www.w3schools.com/tags/ref_color_tryit.asp?color=GreenYellow) | [#ADFF2F](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=ADFF2F) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=ADFF2F) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=ADFF2F&colortop=FFFFFF) |
| [HoneyDew](http://www.w3schools.com/tags/ref_color_tryit.asp?color=HoneyDew) | [#F0FFF0](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=F0FFF0) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=F0FFF0) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=F0FFF0&colortop=FFFFFF) |
| [HotPink](http://www.w3schools.com/tags/ref_color_tryit.asp?color=HotPink) | [#FF69B4](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FF69B4) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FF69B4) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FF69B4&colortop=FFFFFF) |
| [IndianRed](http://www.w3schools.com/tags/ref_color_tryit.asp?color=IndianRed) | [#CD5C5C](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=CD5C5C) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=CD5C5C) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=CD5C5C&colortop=FFFFFF) |
| [Indigo](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Indigo) | [#4B0082](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=4B0082) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=4B0082) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=4B0082&colortop=FFFFFF) |
| [Ivory](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Ivory) | [#FFFFF0](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFFFF0) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFFFF0) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFFFF0&colortop=FFFFFF) |
| [Khaki](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Khaki) | [#F0E68C](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=F0E68C) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=F0E68C) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=F0E68C&colortop=FFFFFF) |
| [Lavender](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Lavender) | [#E6E6FA](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=E6E6FA) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=E6E6FA) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=E6E6FA&colortop=FFFFFF) |
| [LavenderBlush](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LavenderBlush) | [#FFF0F5](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFF0F5) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFF0F5) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFF0F5&colortop=FFFFFF) |
| [LawnGreen](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LawnGreen) | [#7CFC00](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=7CFC00) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=7CFC00) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=7CFC00&colortop=FFFFFF) |
| [LemonChiffon](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LemonChiffon) | [#FFFACD](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFFACD) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFFACD) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFFACD&colortop=FFFFFF) |
| [LightBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LightBlue) | [#ADD8E6](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=ADD8E6) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=ADD8E6) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=ADD8E6&colortop=FFFFFF) |
| [LightCoral](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LightCoral) | [#F08080](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=F08080) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=F08080) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=F08080&colortop=FFFFFF) |
| [LightCyan](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LightCyan) | [#E0FFFF](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=E0FFFF) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=E0FFFF) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=E0FFFF&colortop=FFFFFF) |
| [LightGoldenRodYellow](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LightGoldenRodYellow) | [#FAFAD2](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FAFAD2) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FAFAD2) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FAFAD2&colortop=FFFFFF) |
| [LightGray](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LightGray) | [#D3D3D3](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=D3D3D3) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=D3D3D3) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=D3D3D3&colortop=FFFFFF) |
| [LightGreen](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LightGreen) | [#90EE90](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=90EE90) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=90EE90) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=90EE90&colortop=FFFFFF) |
| [LightPink](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LightPink) | [#FFB6C1](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFB6C1) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFB6C1) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFB6C1&colortop=FFFFFF) |
| [LightSalmon](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LightSalmon) | [#FFA07A](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFA07A) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFA07A) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFA07A&colortop=FFFFFF) |
| [LightSeaGreen](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LightSeaGreen) | [#20B2AA](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=20B2AA) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=20B2AA) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=20B2AA&colortop=FFFFFF) |
| [LightSkyBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LightSkyBlue) | [#87CEFA](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=87CEFA) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=87CEFA) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=87CEFA&colortop=FFFFFF) |
| [LightSlateGray](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LightSlateGray) | [#778899](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=778899) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=778899) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=778899&colortop=FFFFFF) |
| [LightSteelBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LightSteelBlue) | [#B0C4DE](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=B0C4DE) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=B0C4DE) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=B0C4DE&colortop=FFFFFF) |
| [LightYellow](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LightYellow) | [#FFFFE0](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFFFE0) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFFFE0) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFFFE0&colortop=FFFFFF) |
| [Lime](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Lime) | [#00FF00](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=00FF00) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=00FF00) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=00FF00&colortop=FFFFFF) |
| [LimeGreen](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LimeGreen) | [#32CD32](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=32CD32) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=32CD32) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=32CD32&colortop=FFFFFF) |
| [Linen](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Linen) | [#FAF0E6](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FAF0E6) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FAF0E6) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FAF0E6&colortop=FFFFFF) |
| [Magenta](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Magenta) | [#FF00FF](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FF00FF) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FF00FF) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FF00FF&colortop=FFFFFF) |
| [Maroon](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Maroon) | [#800000](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=800000) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=800000) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=800000&colortop=FFFFFF) |
| [MediumAquaMarine](http://www.w3schools.com/tags/ref_color_tryit.asp?color=MediumAquaMarine) | [#66CDAA](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=66CDAA) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=66CDAA) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=66CDAA&colortop=FFFFFF) |
| [MediumBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=MediumBlue) | [#0000CD](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=0000CD) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=0000CD) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=0000CD&colortop=FFFFFF) |
| [MediumOrchid](http://www.w3schools.com/tags/ref_color_tryit.asp?color=MediumOrchid) | [#BA55D3](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=BA55D3) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=BA55D3) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=BA55D3&colortop=FFFFFF) |
| [MediumPurple](http://www.w3schools.com/tags/ref_color_tryit.asp?color=MediumPurple) | [#9370DB](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=9370DB) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=9370DB) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=9370DB&colortop=FFFFFF) |
| [MediumSeaGreen](http://www.w3schools.com/tags/ref_color_tryit.asp?color=MediumSeaGreen) | [#3CB371](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=3CB371) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=3CB371) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=3CB371&colortop=FFFFFF) |
| [MediumSlateBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=MediumSlateBlue) | [#7B68EE](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=7B68EE) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=7B68EE) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=7B68EE&colortop=FFFFFF) |
| [MediumSpringGreen](http://www.w3schools.com/tags/ref_color_tryit.asp?color=MediumSpringGreen) | [#00FA9A](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=00FA9A) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=00FA9A) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=00FA9A&colortop=FFFFFF) |
| [MediumTurquoise](http://www.w3schools.com/tags/ref_color_tryit.asp?color=MediumTurquoise) | [#48D1CC](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=48D1CC) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=48D1CC) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=48D1CC&colortop=FFFFFF) |
| [MediumVioletRed](http://www.w3schools.com/tags/ref_color_tryit.asp?color=MediumVioletRed) | [#C71585](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=C71585) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=C71585) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=C71585&colortop=FFFFFF) |
| [MidnightBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=MidnightBlue) | [#191970](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=191970) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=191970) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=191970&colortop=FFFFFF) |
| [MintCream](http://www.w3schools.com/tags/ref_color_tryit.asp?color=MintCream) | [#F5FFFA](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=F5FFFA) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=F5FFFA) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=F5FFFA&colortop=FFFFFF) |
| [MistyRose](http://www.w3schools.com/tags/ref_color_tryit.asp?color=MistyRose) | [#FFE4E1](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFE4E1) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFE4E1) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFE4E1&colortop=FFFFFF) |
| [Moccasin](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Moccasin) | [#FFE4B5](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFE4B5) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFE4B5) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFE4B5&colortop=FFFFFF) |
| [NavajoWhite](http://www.w3schools.com/tags/ref_color_tryit.asp?color=NavajoWhite) | [#FFDEAD](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFDEAD) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFDEAD) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFDEAD&colortop=FFFFFF) |
| [Navy](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Navy) | [#000080](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=000080) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=000080) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=000080&colortop=FFFFFF) |
| [OldLace](http://www.w3schools.com/tags/ref_color_tryit.asp?color=OldLace) | [#FDF5E6](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FDF5E6) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FDF5E6) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FDF5E6&colortop=FFFFFF) |
| [Olive](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Olive) | [#808000](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=808000) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=808000) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=808000&colortop=FFFFFF) |
| [OliveDrab](http://www.w3schools.com/tags/ref_color_tryit.asp?color=OliveDrab) | [#6B8E23](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=6B8E23) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=6B8E23) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=6B8E23&colortop=FFFFFF) |
| [Orange](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Orange) | [#FFA500](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFA500) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFA500) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFA500&colortop=FFFFFF) |
| [OrangeRed](http://www.w3schools.com/tags/ref_color_tryit.asp?color=OrangeRed) | [#FF4500](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FF4500) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FF4500) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FF4500&colortop=FFFFFF) |
| [Orchid](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Orchid) | [#DA70D6](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=DA70D6) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=DA70D6) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=DA70D6&colortop=FFFFFF) |
| [PaleGoldenRod](http://www.w3schools.com/tags/ref_color_tryit.asp?color=PaleGoldenRod) | [#EEE8AA](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=EEE8AA) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=EEE8AA) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=EEE8AA&colortop=FFFFFF) |
| [PaleGreen](http://www.w3schools.com/tags/ref_color_tryit.asp?color=PaleGreen) | [#98FB98](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=98FB98) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=98FB98) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=98FB98&colortop=FFFFFF) |
| [PaleTurquoise](http://www.w3schools.com/tags/ref_color_tryit.asp?color=PaleTurquoise) | [#AFEEEE](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=AFEEEE) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=AFEEEE) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=AFEEEE&colortop=FFFFFF) |
| [PaleVioletRed](http://www.w3schools.com/tags/ref_color_tryit.asp?color=PaleVioletRed) | [#DB7093](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=DB7093) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=DB7093) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=DB7093&colortop=FFFFFF) |
| [PapayaWhip](http://www.w3schools.com/tags/ref_color_tryit.asp?color=PapayaWhip) | [#FFEFD5](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFEFD5) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFEFD5) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFEFD5&colortop=FFFFFF) |
| [PeachPuff](http://www.w3schools.com/tags/ref_color_tryit.asp?color=PeachPuff) | [#FFDAB9](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFDAB9) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFDAB9) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFDAB9&colortop=FFFFFF) |
| [Peru](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Peru) | [#CD853F](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=CD853F) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=CD853F) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=CD853F&colortop=FFFFFF) |
| [Pink](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Pink) | [#FFC0CB](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFC0CB) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFC0CB) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFC0CB&colortop=FFFFFF) |
| [Plum](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Plum) | [#DDA0DD](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=DDA0DD) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=DDA0DD) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=DDA0DD&colortop=FFFFFF) |
| [PowderBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=PowderBlue) | [#B0E0E6](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=B0E0E6) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=B0E0E6) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=B0E0E6&colortop=FFFFFF) |
| [Purple](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Purple) | [#800080](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=800080) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=800080) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=800080&colortop=FFFFFF) |
| [RebeccaPurple](http://www.w3schools.com/tags/ref_color_tryit.asp?color=RebeccaPurple) | [#663399](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=663399) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=663399) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=663399&colortop=FFFFFF) |
| [Red](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Red) | [#FF0000](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FF0000) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FF0000) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FF0000&colortop=FFFFFF) |
| [RosyBrown](http://www.w3schools.com/tags/ref_color_tryit.asp?color=RosyBrown) | [#BC8F8F](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=BC8F8F) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=BC8F8F) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=BC8F8F&colortop=FFFFFF) |
| [RoyalBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=RoyalBlue) | [#4169E1](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=4169E1) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=4169E1) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=4169E1&colortop=FFFFFF) |
| [SaddleBrown](http://www.w3schools.com/tags/ref_color_tryit.asp?color=SaddleBrown) | [#8B4513](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=8B4513) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=8B4513) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=8B4513&colortop=FFFFFF) |
| [Salmon](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Salmon) | [#FA8072](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FA8072) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FA8072) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FA8072&colortop=FFFFFF) |
| [SandyBrown](http://www.w3schools.com/tags/ref_color_tryit.asp?color=SandyBrown) | [#F4A460](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=F4A460) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=F4A460) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=F4A460&colortop=FFFFFF) |
| [SeaGreen](http://www.w3schools.com/tags/ref_color_tryit.asp?color=SeaGreen) | [#2E8B57](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=2E8B57) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=2E8B57) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=2E8B57&colortop=FFFFFF) |
| [SeaShell](http://www.w3schools.com/tags/ref_color_tryit.asp?color=SeaShell) | [#FFF5EE](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFF5EE) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFF5EE) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFF5EE&colortop=FFFFFF) |
| [Sienna](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Sienna) | [#A0522D](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=A0522D) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=A0522D) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=A0522D&colortop=FFFFFF) |
| [Silver](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Silver) | [#C0C0C0](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=C0C0C0) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=C0C0C0) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=C0C0C0&colortop=FFFFFF) |
| [SkyBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=SkyBlue) | [#87CEEB](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=87CEEB) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=87CEEB) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=87CEEB&colortop=FFFFFF) |
| [SlateBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=SlateBlue) | [#6A5ACD](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=6A5ACD) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=6A5ACD) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=6A5ACD&colortop=FFFFFF) |
| [SlateGray](http://www.w3schools.com/tags/ref_color_tryit.asp?color=SlateGray) | [#708090](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=708090) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=708090) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=708090&colortop=FFFFFF) |
| [Snow](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Snow) | [#FFFAFA](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFFAFA) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFFAFA) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFFAFA&colortop=FFFFFF) |
| [SpringGreen](http://www.w3schools.com/tags/ref_color_tryit.asp?color=SpringGreen) | [#00FF7F](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=00FF7F) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=00FF7F) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=00FF7F&colortop=FFFFFF) |
| [SteelBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=SteelBlue) | [#4682B4](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=4682B4) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=4682B4) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=4682B4&colortop=FFFFFF) |
| [Tan](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Tan) | [#D2B48C](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=D2B48C) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=D2B48C) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=D2B48C&colortop=FFFFFF) |
| [Teal](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Teal) | [#008080](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=008080) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=008080) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=008080&colortop=FFFFFF) |
| [Thistle](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Thistle) | [#D8BFD8](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=D8BFD8) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=D8BFD8) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=D8BFD8&colortop=FFFFFF) |
| [Tomato](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Tomato) | [#FF6347](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FF6347) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FF6347) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FF6347&colortop=FFFFFF) |
| [Turquoise](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Turquoise) | [#40E0D0](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=40E0D0) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=40E0D0) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=40E0D0&colortop=FFFFFF) |
| [Violet](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Violet) | [#EE82EE](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=EE82EE) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=EE82EE) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=EE82EE&colortop=FFFFFF) |
| [Wheat](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Wheat) | [#F5DEB3](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=F5DEB3) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=F5DEB3) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=F5DEB3&colortop=FFFFFF) |
| [White](http://www.w3schools.com/tags/ref_color_tryit.asp?color=White) | [#FFFFFF](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFFFFF) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFFFFF) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFFFFF&colortop=FFFFFF) |
| [WhiteSmoke](http://www.w3schools.com/tags/ref_color_tryit.asp?color=WhiteSmoke) | [#F5F5F5](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=F5F5F5) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=F5F5F5) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=F5F5F5&colortop=FFFFFF) |
| [Yellow](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Yellow) | [#FFFF00](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFFF00) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFFF00) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFFF00&colortop=FFFFFF) |
| [YellowGreen](http://www.w3schools.com/tags/ref_color_tryit.asp?color=YellowGreen) | [#9ACD32](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=9ACD32) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=9ACD32) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=9ACD32&colortop=FFFFFF) |

# HTML Color Values

[« Previous](http://www.w3schools.com/html/html_colornames.asp)

[Next Chapter »](http://www.w3schools.com/html/html_colorgroups.asp)

Colors are displayed combining RED, GREEN, and BLUE light.

## HTML Colors

Colors in HTML can be specified by the following methods:

* Hexadecimal colors
* RGB colors
* Color names

## Hexadecimal Colors

Hexadecimal color values are supported in all major browsers.

A hexadecimal color is specified with: #RRGGBB, where the RR (red), GG (green) and BB (blue) hexadecimal integers specify the components of the color. All values must be between 00 and FF.

For example, the #0000FF value is rendered as blue, because the blue component is set to its highest value (FF) and the others are set to the lowest value (00).

## RGB Colors

RGB color values are supported in all major browsers.

An RGB color value is specified with: rgb(red, green, blue). Each parameter (red, green, and blue) defines the intensity of the color and can be an integer between 0 and 255.

For example, the rgb(0,0,255) value is rendered as blue, because the blue parameter is set to its highest value (255) and the others are set to 0.

## Color Names

All major browsers also support [140 standard color names](http://www.w3schools.com/html/html_colornames.asp).

## Examples

### Example

|  |  |  |  |
| --- | --- | --- | --- |
| **Color** | **Color HEX** | **Color RGB** | **Color Name** |
|  | #FF0000 | rgb(255,0,0) | Red |
|  | #00FF00 | rgb(0,255,0) | Green |
|  | #0000FF | rgb(0,0,255) | Blue |

[Try it yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_colorhex)

Shades of grey are often defined using equal values for all the 3 light sources:

### Example

|  |  |  |  |
| --- | --- | --- | --- |
| **Color** | **Color HEX** | **Color RGB** | **Color Name** |
|  | #000000 | rgb(0,0,0) | Black |
|  | #808080 | rgb(128,128,128) | Gray |
|  | #FFFFFF | rgb(255,255,255) | White |

[Try it yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_colorgrey)

## Colors Sorted by HEX Value

[Click here to see the colors sorted by name](http://www.w3schools.com/html/html_colornames.asp)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Color Name** | **HEX** | **Color** | **Shades** | **Mix** |
| [Black](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Black) | [#000000](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=000000) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=000000) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=000000&colortop=FFFFFF) |
| [Navy](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Navy) | [#000080](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=000080) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=000080) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=000080&colortop=FFFFFF) |
| [DarkBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkBlue) | [#00008B](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=00008B) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=00008B) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=00008B&colortop=FFFFFF) |
| [MediumBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=MediumBlue) | [#0000CD](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=0000CD) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=0000CD) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=0000CD&colortop=FFFFFF) |
| [Blue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Blue) | [#0000FF](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=0000FF) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=0000FF) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=0000FF&colortop=FFFFFF) |
| [DarkGreen](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkGreen) | [#006400](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=006400) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=006400) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=006400&colortop=FFFFFF) |
| [Green](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Green) | [#008000](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=008000) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=008000) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=008000&colortop=FFFFFF) |
| [Teal](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Teal) | [#008080](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=008080) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=008080) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=008080&colortop=FFFFFF) |
| [DarkCyan](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkCyan) | [#008B8B](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=008B8B) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=008B8B) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=008B8B&colortop=FFFFFF) |
| [DeepSkyBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DeepSkyBlue) | [#00BFFF](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=00BFFF) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=00BFFF) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=00BFFF&colortop=FFFFFF) |
| [DarkTurquoise](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkTurquoise) | [#00CED1](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=00CED1) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=00CED1) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=00CED1&colortop=FFFFFF) |
| [MediumSpringGreen](http://www.w3schools.com/tags/ref_color_tryit.asp?color=MediumSpringGreen) | [#00FA9A](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=00FA9A) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=00FA9A) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=00FA9A&colortop=FFFFFF) |
| [Lime](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Lime) | [#00FF00](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=00FF00) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=00FF00) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=00FF00&colortop=FFFFFF) |
| [SpringGreen](http://www.w3schools.com/tags/ref_color_tryit.asp?color=SpringGreen) | [#00FF7F](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=00FF7F) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=00FF7F) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=00FF7F&colortop=FFFFFF) |
| [Aqua](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Aqua) | [#00FFFF](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=00FFFF) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=00FFFF) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=00FFFF&colortop=FFFFFF) |
| [Cyan](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Cyan) | [#00FFFF](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=00FFFF) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=00FFFF) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=00FFFF&colortop=FFFFFF) |
| [MidnightBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=MidnightBlue) | [#191970](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=191970) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=191970) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=191970&colortop=FFFFFF) |
| [DodgerBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DodgerBlue) | [#1E90FF](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=1E90FF) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=1E90FF) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=1E90FF&colortop=FFFFFF) |
| [LightSeaGreen](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LightSeaGreen) | [#20B2AA](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=20B2AA) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=20B2AA) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=20B2AA&colortop=FFFFFF) |
| [ForestGreen](http://www.w3schools.com/tags/ref_color_tryit.asp?color=ForestGreen) | [#228B22](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=228B22) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=228B22) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=228B22&colortop=FFFFFF) |
| [SeaGreen](http://www.w3schools.com/tags/ref_color_tryit.asp?color=SeaGreen) | [#2E8B57](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=2E8B57) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=2E8B57) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=2E8B57&colortop=FFFFFF) |
| [DarkSlateGray](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkSlateGray) | [#2F4F4F](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=2F4F4F) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=2F4F4F) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=2F4F4F&colortop=FFFFFF) |
| [LimeGreen](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LimeGreen) | [#32CD32](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=32CD32) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=32CD32) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=32CD32&colortop=FFFFFF) |
| [MediumSeaGreen](http://www.w3schools.com/tags/ref_color_tryit.asp?color=MediumSeaGreen) | [#3CB371](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=3CB371) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=3CB371) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=3CB371&colortop=FFFFFF) |
| [Turquoise](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Turquoise) | [#40E0D0](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=40E0D0) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=40E0D0) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=40E0D0&colortop=FFFFFF) |
| [RoyalBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=RoyalBlue) | [#4169E1](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=4169E1) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=4169E1) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=4169E1&colortop=FFFFFF) |
| [SteelBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=SteelBlue) | [#4682B4](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=4682B4) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=4682B4) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=4682B4&colortop=FFFFFF) |
| [DarkSlateBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkSlateBlue) | [#483D8B](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=483D8B) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=483D8B) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=483D8B&colortop=FFFFFF) |
| [MediumTurquoise](http://www.w3schools.com/tags/ref_color_tryit.asp?color=MediumTurquoise) | [#48D1CC](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=48D1CC) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=48D1CC) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=48D1CC&colortop=FFFFFF) |
| [Indigo](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Indigo) | [#4B0082](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=4B0082) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=4B0082) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=4B0082&colortop=FFFFFF) |
| [DarkOliveGreen](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkOliveGreen) | [#556B2F](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=556B2F) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=556B2F) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=556B2F&colortop=FFFFFF) |
| [CadetBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=CadetBlue) | [#5F9EA0](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=5F9EA0) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=5F9EA0) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=5F9EA0&colortop=FFFFFF) |
| [CornflowerBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=CornflowerBlue) | [#6495ED](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=6495ED) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=6495ED) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=6495ED&colortop=FFFFFF) |
| [RebeccaPurple](http://www.w3schools.com/tags/ref_color_tryit.asp?color=RebeccaPurple) | [#663399](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=663399) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=663399) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=663399&colortop=FFFFFF) |
| [MediumAquaMarine](http://www.w3schools.com/tags/ref_color_tryit.asp?color=MediumAquaMarine) | [#66CDAA](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=66CDAA) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=66CDAA) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=66CDAA&colortop=FFFFFF) |
| [DimGray](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DimGray) | [#696969](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=696969) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=696969) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=696969&colortop=FFFFFF) |
| [SlateBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=SlateBlue) | [#6A5ACD](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=6A5ACD) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=6A5ACD) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=6A5ACD&colortop=FFFFFF) |
| [OliveDrab](http://www.w3schools.com/tags/ref_color_tryit.asp?color=OliveDrab) | [#6B8E23](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=6B8E23) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=6B8E23) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=6B8E23&colortop=FFFFFF) |
| [SlateGray](http://www.w3schools.com/tags/ref_color_tryit.asp?color=SlateGray) | [#708090](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=708090) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=708090) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=708090&colortop=FFFFFF) |
| [LightSlateGray](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LightSlateGray) | [#778899](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=778899) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=778899) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=778899&colortop=FFFFFF) |
| [MediumSlateBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=MediumSlateBlue) | [#7B68EE](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=7B68EE) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=7B68EE) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=7B68EE&colortop=FFFFFF) |
| [LawnGreen](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LawnGreen) | [#7CFC00](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=7CFC00) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=7CFC00) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=7CFC00&colortop=FFFFFF) |
| [Chartreuse](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Chartreuse) | [#7FFF00](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=7FFF00) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=7FFF00) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=7FFF00&colortop=FFFFFF) |
| [Aquamarine](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Aquamarine) | [#7FFFD4](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=7FFFD4) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=7FFFD4) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=7FFFD4&colortop=FFFFFF) |
| [Maroon](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Maroon) | [#800000](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=800000) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=800000) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=800000&colortop=FFFFFF) |
| [Purple](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Purple) | [#800080](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=800080) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=800080) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=800080&colortop=FFFFFF) |
| [Olive](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Olive) | [#808000](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=808000) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=808000) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=808000&colortop=FFFFFF) |
| [Gray](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Gray) | [#808080](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=808080) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=808080) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=808080&colortop=FFFFFF) |
| [SkyBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=SkyBlue) | [#87CEEB](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=87CEEB) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=87CEEB) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=87CEEB&colortop=FFFFFF) |
| [LightSkyBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LightSkyBlue) | [#87CEFA](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=87CEFA) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=87CEFA) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=87CEFA&colortop=FFFFFF) |
| [BlueViolet](http://www.w3schools.com/tags/ref_color_tryit.asp?color=BlueViolet) | [#8A2BE2](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=8A2BE2) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=8A2BE2) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=8A2BE2&colortop=FFFFFF) |
| [DarkRed](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkRed) | [#8B0000](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=8B0000) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=8B0000) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=8B0000&colortop=FFFFFF) |
| [DarkMagenta](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkMagenta) | [#8B008B](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=8B008B) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=8B008B) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=8B008B&colortop=FFFFFF) |
| [SaddleBrown](http://www.w3schools.com/tags/ref_color_tryit.asp?color=SaddleBrown) | [#8B4513](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=8B4513) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=8B4513) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=8B4513&colortop=FFFFFF) |
| [DarkSeaGreen](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkSeaGreen) | [#8FBC8F](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=8FBC8F) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=8FBC8F) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=8FBC8F&colortop=FFFFFF) |
| [LightGreen](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LightGreen) | [#90EE90](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=90EE90) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=90EE90) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=90EE90&colortop=FFFFFF) |
| [MediumPurple](http://www.w3schools.com/tags/ref_color_tryit.asp?color=MediumPurple) | [#9370DB](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=9370DB) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=9370DB) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=9370DB&colortop=FFFFFF) |
| [DarkViolet](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkViolet) | [#9400D3](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=9400D3) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=9400D3) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=9400D3&colortop=FFFFFF) |
| [PaleGreen](http://www.w3schools.com/tags/ref_color_tryit.asp?color=PaleGreen) | [#98FB98](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=98FB98) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=98FB98) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=98FB98&colortop=FFFFFF) |
| [DarkOrchid](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkOrchid) | [#9932CC](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=9932CC) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=9932CC) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=9932CC&colortop=FFFFFF) |
| [YellowGreen](http://www.w3schools.com/tags/ref_color_tryit.asp?color=YellowGreen) | [#9ACD32](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=9ACD32) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=9ACD32) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=9ACD32&colortop=FFFFFF) |
| [Sienna](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Sienna) | [#A0522D](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=A0522D) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=A0522D) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=A0522D&colortop=FFFFFF) |
| [Brown](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Brown) | [#A52A2A](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=A52A2A) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=A52A2A) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=A52A2A&colortop=FFFFFF) |
| [DarkGray](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkGray) | [#A9A9A9](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=A9A9A9) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=A9A9A9) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=A9A9A9&colortop=FFFFFF) |
| [LightBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LightBlue) | [#ADD8E6](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=ADD8E6) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=ADD8E6) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=ADD8E6&colortop=FFFFFF) |
| [GreenYellow](http://www.w3schools.com/tags/ref_color_tryit.asp?color=GreenYellow) | [#ADFF2F](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=ADFF2F) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=ADFF2F) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=ADFF2F&colortop=FFFFFF) |
| [PaleTurquoise](http://www.w3schools.com/tags/ref_color_tryit.asp?color=PaleTurquoise) | [#AFEEEE](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=AFEEEE) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=AFEEEE) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=AFEEEE&colortop=FFFFFF) |
| [LightSteelBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LightSteelBlue) | [#B0C4DE](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=B0C4DE) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=B0C4DE) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=B0C4DE&colortop=FFFFFF) |
| [PowderBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=PowderBlue) | [#B0E0E6](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=B0E0E6) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=B0E0E6) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=B0E0E6&colortop=FFFFFF) |
| [FireBrick](http://www.w3schools.com/tags/ref_color_tryit.asp?color=FireBrick) | [#B22222](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=B22222) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=B22222) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=B22222&colortop=FFFFFF) |
| [DarkGoldenRod](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkGoldenRod) | [#B8860B](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=B8860B) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=B8860B) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=B8860B&colortop=FFFFFF) |
| [MediumOrchid](http://www.w3schools.com/tags/ref_color_tryit.asp?color=MediumOrchid) | [#BA55D3](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=BA55D3) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=BA55D3) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=BA55D3&colortop=FFFFFF) |
| [RosyBrown](http://www.w3schools.com/tags/ref_color_tryit.asp?color=RosyBrown) | [#BC8F8F](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=BC8F8F) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=BC8F8F) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=BC8F8F&colortop=FFFFFF) |
| [DarkKhaki](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkKhaki) | [#BDB76B](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=BDB76B) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=BDB76B) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=BDB76B&colortop=FFFFFF) |
| [Silver](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Silver) | [#C0C0C0](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=C0C0C0) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=C0C0C0) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=C0C0C0&colortop=FFFFFF) |
| [MediumVioletRed](http://www.w3schools.com/tags/ref_color_tryit.asp?color=MediumVioletRed) | [#C71585](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=C71585) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=C71585) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=C71585&colortop=FFFFFF) |
| [IndianRed](http://www.w3schools.com/tags/ref_color_tryit.asp?color=IndianRed) | [#CD5C5C](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=CD5C5C) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=CD5C5C) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=CD5C5C&colortop=FFFFFF) |
| [Peru](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Peru) | [#CD853F](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=CD853F) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=CD853F) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=CD853F&colortop=FFFFFF) |
| [Chocolate](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Chocolate) | [#D2691E](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=D2691E) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=D2691E) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=D2691E&colortop=FFFFFF) |
| [Tan](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Tan) | [#D2B48C](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=D2B48C) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=D2B48C) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=D2B48C&colortop=FFFFFF) |
| [LightGray](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LightGray) | [#D3D3D3](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=D3D3D3) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=D3D3D3) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=D3D3D3&colortop=FFFFFF) |
| [Thistle](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Thistle) | [#D8BFD8](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=D8BFD8) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=D8BFD8) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=D8BFD8&colortop=FFFFFF) |
| [Orchid](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Orchid) | [#DA70D6](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=DA70D6) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=DA70D6) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=DA70D6&colortop=FFFFFF) |
| [GoldenRod](http://www.w3schools.com/tags/ref_color_tryit.asp?color=GoldenRod) | [#DAA520](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=DAA520) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=DAA520) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=DAA520&colortop=FFFFFF) |
| [PaleVioletRed](http://www.w3schools.com/tags/ref_color_tryit.asp?color=PaleVioletRed) | [#DB7093](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=DB7093) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=DB7093) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=DB7093&colortop=FFFFFF) |
| [Crimson](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Crimson) | [#DC143C](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=DC143C) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=DC143C) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=DC143C&colortop=FFFFFF) |
| [Gainsboro](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Gainsboro) | [#DCDCDC](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=DCDCDC) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=DCDCDC) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=DCDCDC&colortop=FFFFFF) |
| [Plum](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Plum) | [#DDA0DD](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=DDA0DD) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=DDA0DD) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=DDA0DD&colortop=FFFFFF) |
| [BurlyWood](http://www.w3schools.com/tags/ref_color_tryit.asp?color=BurlyWood) | [#DEB887](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=DEB887) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=DEB887) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=DEB887&colortop=FFFFFF) |
| [LightCyan](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LightCyan) | [#E0FFFF](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=E0FFFF) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=E0FFFF) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=E0FFFF&colortop=FFFFFF) |
| [Lavender](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Lavender) | [#E6E6FA](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=E6E6FA) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=E6E6FA) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=E6E6FA&colortop=FFFFFF) |
| [DarkSalmon](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkSalmon) | [#E9967A](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=E9967A) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=E9967A) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=E9967A&colortop=FFFFFF) |
| [Violet](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Violet) | [#EE82EE](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=EE82EE) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=EE82EE) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=EE82EE&colortop=FFFFFF) |
| [PaleGoldenRod](http://www.w3schools.com/tags/ref_color_tryit.asp?color=PaleGoldenRod) | [#EEE8AA](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=EEE8AA) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=EEE8AA) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=EEE8AA&colortop=FFFFFF) |
| [LightCoral](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LightCoral) | [#F08080](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=F08080) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=F08080) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=F08080&colortop=FFFFFF) |
| [Khaki](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Khaki) | [#F0E68C](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=F0E68C) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=F0E68C) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=F0E68C&colortop=FFFFFF) |
| [AliceBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=AliceBlue) | [#F0F8FF](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=F0F8FF) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=F0F8FF) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=F0F8FF&colortop=FFFFFF) |
| [HoneyDew](http://www.w3schools.com/tags/ref_color_tryit.asp?color=HoneyDew) | [#F0FFF0](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=F0FFF0) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=F0FFF0) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=F0FFF0&colortop=FFFFFF) |
| [Azure](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Azure) | [#F0FFFF](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=F0FFFF) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=F0FFFF) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=F0FFFF&colortop=FFFFFF) |
| [SandyBrown](http://www.w3schools.com/tags/ref_color_tryit.asp?color=SandyBrown) | [#F4A460](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=F4A460) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=F4A460) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=F4A460&colortop=FFFFFF) |
| [Wheat](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Wheat) | [#F5DEB3](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=F5DEB3) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=F5DEB3) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=F5DEB3&colortop=FFFFFF) |
| [Beige](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Beige) | [#F5F5DC](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=F5F5DC) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=F5F5DC) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=F5F5DC&colortop=FFFFFF) |
| [WhiteSmoke](http://www.w3schools.com/tags/ref_color_tryit.asp?color=WhiteSmoke) | [#F5F5F5](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=F5F5F5) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=F5F5F5) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=F5F5F5&colortop=FFFFFF) |
| [MintCream](http://www.w3schools.com/tags/ref_color_tryit.asp?color=MintCream) | [#F5FFFA](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=F5FFFA) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=F5FFFA) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=F5FFFA&colortop=FFFFFF) |
| [GhostWhite](http://www.w3schools.com/tags/ref_color_tryit.asp?color=GhostWhite) | [#F8F8FF](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=F8F8FF) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=F8F8FF) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=F8F8FF&colortop=FFFFFF) |
| [Salmon](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Salmon) | [#FA8072](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FA8072) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FA8072) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FA8072&colortop=FFFFFF) |
| [AntiqueWhite](http://www.w3schools.com/tags/ref_color_tryit.asp?color=AntiqueWhite) | [#FAEBD7](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FAEBD7) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FAEBD7) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FAEBD7&colortop=FFFFFF) |
| [Linen](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Linen) | [#FAF0E6](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FAF0E6) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FAF0E6) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FAF0E6&colortop=FFFFFF) |
| [LightGoldenRodYellow](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LightGoldenRodYellow) | [#FAFAD2](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FAFAD2) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FAFAD2) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FAFAD2&colortop=FFFFFF) |
| [OldLace](http://www.w3schools.com/tags/ref_color_tryit.asp?color=OldLace) | [#FDF5E6](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FDF5E6) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FDF5E6) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FDF5E6&colortop=FFFFFF) |
| [Red](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Red) | [#FF0000](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FF0000) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FF0000) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FF0000&colortop=FFFFFF) |
| [Fuchsia](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Fuchsia) | [#FF00FF](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FF00FF) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FF00FF) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FF00FF&colortop=FFFFFF) |
| [Magenta](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Magenta) | [#FF00FF](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FF00FF) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FF00FF) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FF00FF&colortop=FFFFFF) |
| [DeepPink](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DeepPink) | [#FF1493](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FF1493) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FF1493) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FF1493&colortop=FFFFFF) |
| [OrangeRed](http://www.w3schools.com/tags/ref_color_tryit.asp?color=OrangeRed) | [#FF4500](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FF4500) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FF4500) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FF4500&colortop=FFFFFF) |
| [Tomato](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Tomato) | [#FF6347](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FF6347) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FF6347) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FF6347&colortop=FFFFFF) |
| [HotPink](http://www.w3schools.com/tags/ref_color_tryit.asp?color=HotPink) | [#FF69B4](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FF69B4) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FF69B4) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FF69B4&colortop=FFFFFF) |
| [Coral](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Coral) | [#FF7F50](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FF7F50) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FF7F50) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FF7F50&colortop=FFFFFF) |
| [DarkOrange](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkOrange) | [#FF8C00](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FF8C00) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FF8C00) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FF8C00&colortop=FFFFFF) |
| [LightSalmon](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LightSalmon) | [#FFA07A](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFA07A) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFA07A) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFA07A&colortop=FFFFFF) |
| [Orange](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Orange) | [#FFA500](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFA500) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFA500) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFA500&colortop=FFFFFF) |
| [LightPink](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LightPink) | [#FFB6C1](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFB6C1) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFB6C1) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFB6C1&colortop=FFFFFF) |
| [Pink](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Pink) | [#FFC0CB](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFC0CB) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFC0CB) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFC0CB&colortop=FFFFFF) |
| [Gold](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Gold) | [#FFD700](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFD700) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFD700) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFD700&colortop=FFFFFF) |
| [PeachPuff](http://www.w3schools.com/tags/ref_color_tryit.asp?color=PeachPuff) | [#FFDAB9](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFDAB9) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFDAB9) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFDAB9&colortop=FFFFFF) |
| [NavajoWhite](http://www.w3schools.com/tags/ref_color_tryit.asp?color=NavajoWhite) | [#FFDEAD](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFDEAD) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFDEAD) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFDEAD&colortop=FFFFFF) |
| [Moccasin](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Moccasin) | [#FFE4B5](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFE4B5) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFE4B5) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFE4B5&colortop=FFFFFF) |
| [Bisque](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Bisque) | [#FFE4C4](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFE4C4) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFE4C4) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFE4C4&colortop=FFFFFF) |
| [MistyRose](http://www.w3schools.com/tags/ref_color_tryit.asp?color=MistyRose) | [#FFE4E1](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFE4E1) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFE4E1) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFE4E1&colortop=FFFFFF) |
| [BlanchedAlmond](http://www.w3schools.com/tags/ref_color_tryit.asp?color=BlanchedAlmond) | [#FFEBCD](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFEBCD) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFEBCD) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFEBCD&colortop=FFFFFF) |
| [PapayaWhip](http://www.w3schools.com/tags/ref_color_tryit.asp?color=PapayaWhip) | [#FFEFD5](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFEFD5) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFEFD5) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFEFD5&colortop=FFFFFF) |
| [LavenderBlush](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LavenderBlush) | [#FFF0F5](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFF0F5) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFF0F5) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFF0F5&colortop=FFFFFF) |
| [SeaShell](http://www.w3schools.com/tags/ref_color_tryit.asp?color=SeaShell) | [#FFF5EE](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFF5EE) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFF5EE) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFF5EE&colortop=FFFFFF) |
| [Cornsilk](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Cornsilk) | [#FFF8DC](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFF8DC) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFF8DC) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFF8DC&colortop=FFFFFF) |
| [LemonChiffon](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LemonChiffon) | [#FFFACD](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFFACD) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFFACD) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFFACD&colortop=FFFFFF) |
| [FloralWhite](http://www.w3schools.com/tags/ref_color_tryit.asp?color=FloralWhite) | [#FFFAF0](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFFAF0) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFFAF0) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFFAF0&colortop=FFFFFF) |
| [Snow](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Snow) | [#FFFAFA](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFFAFA) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFFAFA) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFFAFA&colortop=FFFFFF) |
| [Yellow](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Yellow) | [#FFFF00](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFFF00) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFFF00) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFFF00&colortop=FFFFFF) |
| [LightYellow](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LightYellow) | [#FFFFE0](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFFFE0) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFFFE0) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFFFE0&colortop=FFFFFF) |
| [Ivory](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Ivory) | [#FFFFF0](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFFFF0) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFFFF0) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFFFF0&colortop=FFFFFF) |
| [White](http://www.w3schools.com/tags/ref_color_tryit.asp?color=White) | [#FFFFFF](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFFFFF) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFFFFF) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFFFFF&colortop=FFFFFF) |

# HTML Color Groups

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[Next Chapter »](http://www.w3schools.com/html/html_colors.asp)

## Color Names Sorted by Color Groups

All modern browsers support the following 140 color names (click on a color name, or a hex value, to view the color as the background-color along with different text colors):

[Click here to see the 140 colors sorted by Name](http://www.w3schools.com/html/html_colornames.asp)

[Click here to see the 140 colors sorted by HEX Value](http://www.w3schools.com/html/html_colorvalues.asp)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Pink Colors | | | | |  |  |  |  |
| **Color Name** | **HEX** | **Color** | **Shades** | **Mix** |  |  |  |  |
| [Pink](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Pink) | [#FFC0CB](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFC0CB) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFC0CB) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFC0CB&colortop=FFFFFF) |  |  |  |  |
| [LightPink](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LightPink) | [#FFB6C1](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFB6C1) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFB6C1) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFB6C1&colortop=FFFFFF) |  |  |  |  |
| [HotPink](http://www.w3schools.com/tags/ref_color_tryit.asp?color=HotPink) | [#FF69B4](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FF69B4) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FF69B4) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FF69B4&colortop=FFFFFF) |  |  |  |  |
| [DeepPink](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DeepPink) | [#FF1493](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FF1493) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FF1493) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FF1493&colortop=FFFFFF) |  |  |  |  |
| [PaleVioletRed](http://www.w3schools.com/tags/ref_color_tryit.asp?color=PaleVioletRed) | [#DB7093](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=DB7093) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=DB7093) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=DB7093&colortop=FFFFFF) |  |  |  |  |
| [MediumVioletRed](http://www.w3schools.com/tags/ref_color_tryit.asp?color=MediumVioletRed) | [#C71585](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=C71585) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=C71585) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=C71585&colortop=FFFFFF) |  |  |  |  |
| Purple Colors | | | | |  |  |  |  |
| **Color Name** | **HEX** | **Color** | **Shades** | **Mix** |  |  |  |  |
| [Lavender](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Lavender) | [#E6E6FA](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=E6E6FA) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=E6E6FA) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=E6E6FA&colortop=FFFFFF) |  |  |  |  |
| [Thistle](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Thistle) | [#D8BFD8](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=D8BFD8) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=D8BFD8) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=D8BFD8&colortop=FFFFFF) |  |  |  |  |
| [Plum](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Plum) | [#DDA0DD](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=DDA0DD) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=DDA0DD) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=DDA0DD&colortop=FFFFFF) |  |  |  |  |
| [Orchid](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Orchid) | [#DA70D6](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=DA70D6) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=DA70D6) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=DA70D6&colortop=FFFFFF) |  |  |  |  |
| [Violet](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Violet) | [#EE82EE](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=EE82EE) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=EE82EE) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=EE82EE&colortop=FFFFFF) |  |  |  |  |
| [Fuchsia](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Fuchsia) | [#FF00FF](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FF00FF) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FF00FF) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FF00FF&colortop=FFFFFF) |  |  |  |  |
| [Magenta](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Magenta) | [#FF00FF](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FF00FF) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FF00FF) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FF00FF&colortop=FFFFFF) |  |  |  |  |
| [MediumOrchid](http://www.w3schools.com/tags/ref_color_tryit.asp?color=MediumOrchid) | [#BA55D3](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=BA55D3) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=BA55D3) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=BA55D3&colortop=FFFFFF) |  |  |  |  |
| [DarkOrchid](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkOrchid) | [#9932CC](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=9932CC) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=9932CC) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=9932CC&colortop=FFFFFF) |  |  |  |  |
| [DarkViolet](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkViolet) | [#9400D3](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=9400D3) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=9400D3) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=9400D3&colortop=FFFFFF) |  |  |  |  |
| [BlueViolet](http://www.w3schools.com/tags/ref_color_tryit.asp?color=BlueViolet) | [#8A2BE2](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=8A2BE2) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=8A2BE2) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=8A2BE2&colortop=FFFFFF) |  |  |  |  |
| [DarkMagenta](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkMagenta) | [#8B008B](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=8B008B) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=8B008B) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=8B008B&colortop=FFFFFF) |  |  |  |  |
| [Purple](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Purple) | [#800080](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=800080) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=800080) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=800080&colortop=FFFFFF) |  |  |  |  |
| [MediumPurple](http://www.w3schools.com/tags/ref_color_tryit.asp?color=MediumPurple) | [#9370DB](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=9370DB) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=9370DB) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=9370DB&colortop=FFFFFF) |  |  |  |  |
| [MediumSlateBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=MediumSlateBlue) | [#7B68EE](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=7B68EE) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=7B68EE) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=7B68EE&colortop=FFFFFF) |  |  |  |  |
| [SlateBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=SlateBlue) | [#6A5ACD](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=6A5ACD) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=6A5ACD) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=6A5ACD&colortop=FFFFFF) |  |  |  |  |
| [DarkSlateBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkSlateBlue) | [#483D8B](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=483D8B) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=483D8B) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=483D8B&colortop=FFFFFF) |  |  |  |  |
| [RebeccaPurple](http://www.w3schools.com/tags/ref_color_tryit.asp?color=RebeccaPurple) | [#663399](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=663399) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=663399) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=663399&colortop=FFFFFF) |  |  |  |  |
| [Indigo](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Indigo) | [#4B0082](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=4B0082) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=4B0082) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=4B0082&colortop=FFFFFF) |  |  |  |  |
| Red Colors | | | | |  |  |  |  |
| **Color Name** | **HEX** | **Color** | **Shades** | **Mix** |  |  |  |  |
| [LightSalmon](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LightSalmon) | [#FFA07A](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFA07A) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFA07A) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFA07A&colortop=FFFFFF) |  |  |  |  |
| [Salmon](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Salmon) | [#FA8072](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FA8072) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FA8072) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FA8072&colortop=FFFFFF) |  |  |  |  |
| [DarkSalmon](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkSalmon) | [#E9967A](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=E9967A) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=E9967A) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=E9967A&colortop=FFFFFF) |  |  |  |  |
| [LightCoral](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LightCoral) | [#F08080](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=F08080) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=F08080) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=F08080&colortop=FFFFFF) |  |  |  |  |
| [IndianRed](http://www.w3schools.com/tags/ref_color_tryit.asp?color=IndianRed) | [#CD5C5C](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=CD5C5C) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=CD5C5C) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=CD5C5C&colortop=FFFFFF) |  |  |  |  |
| [Crimson](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Crimson) | [#DC143C](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=DC143C) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=DC143C) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=DC143C&colortop=FFFFFF) |  |  |  |  |
| [Red](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Red) | [#FF0000](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FF0000) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FF0000) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FF0000&colortop=FFFFFF) |  |  |  |  |
| [FireBrick](http://www.w3schools.com/tags/ref_color_tryit.asp?color=FireBrick) | [#B22222](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=B22222) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=B22222) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=B22222&colortop=FFFFFF) |  |  |  |  |
| [DarkRed](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkRed) | [#8B0000](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=8B0000) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=8B0000) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=8B0000&colortop=FFFFFF) |  |  |  |  |
| Orange Colors | | | | |  |  |  |  |
| **Color Name** | **HEX** | **Color** | **Shades** | **Mix** |  |  |  |  |
| [Orange](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Orange) | [#FFA500](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFA500) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFA500) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFA500&colortop=FFFFFF) |  |  |  |  |
| [DarkOrange](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkOrange) | [#FF8C00](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FF8C00) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FF8C00) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FF8C00&colortop=FFFFFF) |  |  |  |  |
| [Coral](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Coral) | [#FF7F50](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FF7F50) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FF7F50) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FF7F50&colortop=FFFFFF) |  |  |  |  |
| [Tomato](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Tomato) | [#FF6347](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FF6347) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FF6347) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FF6347&colortop=FFFFFF) |  |  |  |  |
| [OrangeRed](http://www.w3schools.com/tags/ref_color_tryit.asp?color=OrangeRed) | [#FF4500](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FF4500) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FF4500) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FF4500&colortop=FFFFFF) |  |  |  |  |
| Yellow Colors | | | | |  |  |  |  |
| **Color Name** | **HEX** | **Color** | **Shades** | **Mix** |  |  |  |  |
| [Gold](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Gold) | [#FFD700](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFD700) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFD700) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFD700&colortop=FFFFFF) |  |  |  |  |
| [Yellow](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Yellow) | [#FFFF00](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFFF00) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFFF00) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFFF00&colortop=FFFFFF) |  |  |  |  |
| [LightYellow](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LightYellow) | [#FFFFE0](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFFFE0) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFFFE0) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFFFE0&colortop=FFFFFF) |  |  |  |  |
| [LemonChiffon](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LemonChiffon) | [#FFFACD](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFFACD) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFFACD) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFFACD&colortop=FFFFFF) |  |  |  |  |
| [LightGoldenRodYellow](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LightGoldenRodYellow) | [#FAFAD2](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FAFAD2) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FAFAD2) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FAFAD2&colortop=FFFFFF) |  |  |  |  |
| [PapayaWhip](http://www.w3schools.com/tags/ref_color_tryit.asp?color=PapayaWhip) | [#FFEFD5](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFEFD5) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFEFD5) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFEFD5&colortop=FFFFFF) |  |  |  |  |
| [Moccasin](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Moccasin) | [#FFE4B5](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFE4B5) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFE4B5) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFE4B5&colortop=FFFFFF) |  |  |  |  |
| [PeachPuff](http://www.w3schools.com/tags/ref_color_tryit.asp?color=PeachPuff) | [#FFDAB9](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFDAB9) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFDAB9) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFDAB9&colortop=FFFFFF) |  |  |  |  |
| [PaleGoldenRod](http://www.w3schools.com/tags/ref_color_tryit.asp?color=PaleGoldenRod) | [#EEE8AA](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=EEE8AA) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=EEE8AA) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=EEE8AA&colortop=FFFFFF) |  |  |  |  |
| [Khaki](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Khaki) | [#F0E68C](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=F0E68C) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=F0E68C) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=F0E68C&colortop=FFFFFF) |  |  |  |  |
| [DarkKhaki](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkKhaki) | [#BDB76B](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=BDB76B) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=BDB76B) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=BDB76B&colortop=FFFFFF) |  |  |  |  |
| Green Colors | | | | |  |  |  |  |
| **Color Name** | **HEX** | **Color** | **Shades** | **Mix** |  |  |  |  |
| [GreenYellow](http://www.w3schools.com/tags/ref_color_tryit.asp?color=GreenYellow) | [#ADFF2F](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=ADFF2F) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=ADFF2F) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=ADFF2F&colortop=FFFFFF) |  |  |  |  |
| [Chartreuse](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Chartreuse) | [#7FFF00](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=7FFF00) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=7FFF00) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=7FFF00&colortop=FFFFFF) |  |  |  |  |
| [LawnGreen](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LawnGreen) | [#7CFC00](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=7CFC00) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=7CFC00) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=7CFC00&colortop=FFFFFF) |  |  |  |  |
| [Lime](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Lime) | [#00FF00](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=00FF00) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=00FF00) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=00FF00&colortop=FFFFFF) |  |  |  |  |
| [LimeGreen](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LimeGreen) | [#32CD32](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=32CD32) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=32CD32) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=32CD32&colortop=FFFFFF) |  |  |  |  |
| [PaleGreen](http://www.w3schools.com/tags/ref_color_tryit.asp?color=PaleGreen) | [#98FB98](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=98FB98) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=98FB98) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=98FB98&colortop=FFFFFF) |  |  |  |  |
| [LightGreen](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LightGreen) | [#90EE90](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=90EE90) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=90EE90) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=90EE90&colortop=FFFFFF) |  |  |  |  |
| [MediumSpringGreen](http://www.w3schools.com/tags/ref_color_tryit.asp?color=MediumSpringGreen) | [#00FA9A](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=00FA9A) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=00FA9A) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=00FA9A&colortop=FFFFFF) |  |  |  |  |
| [SpringGreen](http://www.w3schools.com/tags/ref_color_tryit.asp?color=SpringGreen) | [#00FF7F](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=00FF7F) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=00FF7F) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=00FF7F&colortop=FFFFFF) |  |  |  |  |
| [MediumSeaGreen](http://www.w3schools.com/tags/ref_color_tryit.asp?color=MediumSeaGreen) | [#3CB371](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=3CB371) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=3CB371) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=3CB371&colortop=FFFFFF) |  |  |  |  |
| [SeaGreen](http://www.w3schools.com/tags/ref_color_tryit.asp?color=SeaGreen) | [#2E8B57](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=2E8B57) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=2E8B57) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=2E8B57&colortop=FFFFFF) |  |  |  |  |
| [ForestGreen](http://www.w3schools.com/tags/ref_color_tryit.asp?color=ForestGreen) | [#228B22](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=228B22) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=228B22) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=228B22&colortop=FFFFFF) |  |  |  |  |
| [Green](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Green) | [#008000](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=008000) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=008000) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=008000&colortop=FFFFFF) |  |  |  |  |
| [DarkGreen](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkGreen) | [#006400](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=006400) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=006400) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=006400&colortop=FFFFFF) |  |  |  |  |
| [YellowGreen](http://www.w3schools.com/tags/ref_color_tryit.asp?color=YellowGreen) | [#9ACD32](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=9ACD32) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=9ACD32) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=9ACD32&colortop=FFFFFF) |  |  |  |  |
| [OliveDrab](http://www.w3schools.com/tags/ref_color_tryit.asp?color=OliveDrab) | [#6B8E23](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=6B8E23) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=6B8E23) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=6B8E23&colortop=FFFFFF) |  |  |  |  |
| [DarkOliveGreen](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkOliveGreen) | [#556B2F](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=556B2F) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=556B2F) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=556B2F&colortop=FFFFFF) |  |  |  |  |
| [MediumAquaMarine](http://www.w3schools.com/tags/ref_color_tryit.asp?color=MediumAquaMarine) | [#66CDAA](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=66CDAA) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=66CDAA) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=66CDAA&colortop=FFFFFF) |  |  |  |  |
| [DarkSeaGreen](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkSeaGreen) | [#8FBC8F](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=8FBC8F) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=8FBC8F) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=8FBC8F&colortop=FFFFFF) |  |  |  |  |
| [LightSeaGreen](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LightSeaGreen) | [#20B2AA](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=20B2AA) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=20B2AA) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=20B2AA&colortop=FFFFFF) |  |  |  |  |
| [DarkCyan](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkCyan) | [#008B8B](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=008B8B) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=008B8B) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=008B8B&colortop=FFFFFF) |  |  |  |  |
| [Teal](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Teal) | [#008080](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=008080) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=008080) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=008080&colortop=FFFFFF) |  |  |  |  |
| Cyan Colors | | | | |  |  |  |  |
| **Color Name** | **HEX** | **Color** | **Shades** | **Mix** |  |  |  |  |
| [Aqua](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Aqua) | [#00FFFF](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=00FFFF) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=00FFFF) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=00FFFF&colortop=FFFFFF) |  |  |  |  |
| [Cyan](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Cyan) | [#00FFFF](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=00FFFF) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=00FFFF) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=00FFFF&colortop=FFFFFF) |  |  |  |  |
| [LightCyan](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LightCyan) | [#E0FFFF](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=E0FFFF) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=E0FFFF) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=E0FFFF&colortop=FFFFFF) |  |  |  |  |
| [PaleTurquoise](http://www.w3schools.com/tags/ref_color_tryit.asp?color=PaleTurquoise) | [#AFEEEE](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=AFEEEE) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=AFEEEE) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=AFEEEE&colortop=FFFFFF) |  |  |  |  |
| [Aquamarine](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Aquamarine) | [#7FFFD4](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=7FFFD4) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=7FFFD4) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=7FFFD4&colortop=FFFFFF) |  |  |  |  |
| [Turquoise](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Turquoise) | [#40E0D0](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=40E0D0) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=40E0D0) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=40E0D0&colortop=FFFFFF) |  |  |  |  |
| [MediumTurquoise](http://www.w3schools.com/tags/ref_color_tryit.asp?color=MediumTurquoise) | [#48D1CC](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=48D1CC) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=48D1CC) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=48D1CC&colortop=FFFFFF) |  |  |  |  |
| [DarkTurquoise](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkTurquoise) | [#00CED1](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=00CED1) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=00CED1) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=00CED1&colortop=FFFFFF) |  |  |  |  |
| Blue Colors | | | | |  |  |  |  |
| **Color Name** | **HEX** | **Color** | **Shades** | **Mix** |  |  |  |  |
| [CadetBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=CadetBlue) | [#5F9EA0](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=5F9EA0) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=5F9EA0) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=5F9EA0&colortop=FFFFFF) |  |  |  |  |
| [SteelBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=SteelBlue) | [#4682B4](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=4682B4) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=4682B4) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=4682B4&colortop=FFFFFF) |  |  |  |  |
| [LightSteelBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LightSteelBlue) | [#B0C4DE](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=B0C4DE) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=B0C4DE) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=B0C4DE&colortop=FFFFFF) |  |  |  |  |
| [LightBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LightBlue) | [#ADD8E6](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=ADD8E6) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=ADD8E6) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=ADD8E6&colortop=FFFFFF) |  |  |  |  |
| [PowderBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=PowderBlue) | [#B0E0E6](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=B0E0E6) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=B0E0E6) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=B0E0E6&colortop=FFFFFF) |  |  |  |  |
| [LightSkyBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LightSkyBlue) | [#87CEFA](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=87CEFA) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=87CEFA) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=87CEFA&colortop=FFFFFF) |  |  |  |  |
| [SkyBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=SkyBlue) | [#87CEEB](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=87CEEB) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=87CEEB) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=87CEEB&colortop=FFFFFF) |  |  |  |  |
| [CornflowerBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=CornflowerBlue) | [#6495ED](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=6495ED) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=6495ED) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=6495ED&colortop=FFFFFF) |  |  |  |  |
| [DeepSkyBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DeepSkyBlue) | [#00BFFF](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=00BFFF) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=00BFFF) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=00BFFF&colortop=FFFFFF) |  |  |  |  |
| [DodgerBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DodgerBlue) | [#1E90FF](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=1E90FF) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=1E90FF) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=1E90FF&colortop=FFFFFF) |  |  |  |  |
| [RoyalBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=RoyalBlue) | [#4169E1](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=4169E1) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=4169E1) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=4169E1&colortop=FFFFFF) |  |  |  |  |
| [Blue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Blue) | [#0000FF](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=0000FF) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=0000FF) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=0000FF&colortop=FFFFFF) |  |  |  |  |
| [MediumBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=MediumBlue) | [#0000CD](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=0000CD) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=0000CD) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=0000CD&colortop=FFFFFF) |  |  |  |  |
| [DarkBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkBlue) | [#00008B](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=00008B) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=00008B) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=00008B&colortop=FFFFFF) |  |  |  |  |
| [Navy](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Navy) | [#000080](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=000080) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=000080) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=000080&colortop=FFFFFF) |  |  |  |  |
| [MidnightBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=MidnightBlue) | [#191970](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=191970) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=191970) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=191970&colortop=FFFFFF) |  |  |  |  |
| Brown Colors | | | | |  |  |  |  |
| **Color Name** | **HEX** | **Color** | **Shades** | **Mix** |  |  |  |  |
| [Cornsilk](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Cornsilk) | [#FFF8DC](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFF8DC) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFF8DC) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFF8DC&colortop=FFFFFF) |  |  |  |  |
| [BlanchedAlmond](http://www.w3schools.com/tags/ref_color_tryit.asp?color=BlanchedAlmond) | [#FFEBCD](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFEBCD) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFEBCD) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFEBCD&colortop=FFFFFF) |  |  |  |  |
| [Bisque](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Bisque) | [#FFE4C4](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFE4C4) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFE4C4) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFE4C4&colortop=FFFFFF) |  |  |  |  |
| [NavajoWhite](http://www.w3schools.com/tags/ref_color_tryit.asp?color=NavajoWhite) | [#FFDEAD](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFDEAD) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFDEAD) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFDEAD&colortop=FFFFFF) |  |  |  |  |
| [Wheat](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Wheat) | [#F5DEB3](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=F5DEB3) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=F5DEB3) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=F5DEB3&colortop=FFFFFF) |  |  |  |  |
| [BurlyWood](http://www.w3schools.com/tags/ref_color_tryit.asp?color=BurlyWood) | [#DEB887](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=DEB887) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=DEB887) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=DEB887&colortop=FFFFFF) |  |  |  |  |
| [Tan](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Tan) | [#D2B48C](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=D2B48C) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=D2B48C) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=D2B48C&colortop=FFFFFF) |  |  |  |  |
| [RosyBrown](http://www.w3schools.com/tags/ref_color_tryit.asp?color=RosyBrown) | [#BC8F8F](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=BC8F8F) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=BC8F8F) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=BC8F8F&colortop=FFFFFF) |  |  |  |  |
| [SandyBrown](http://www.w3schools.com/tags/ref_color_tryit.asp?color=SandyBrown) | [#F4A460](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=F4A460) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=F4A460) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=F4A460&colortop=FFFFFF) |  |  |  |  |
| [GoldenRod](http://www.w3schools.com/tags/ref_color_tryit.asp?color=GoldenRod) | [#DAA520](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=DAA520) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=DAA520) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=DAA520&colortop=FFFFFF) |  |  |  |  |
| [DarkGoldenRod](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkGoldenRod) | [#B8860B](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=B8860B) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=B8860B) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=B8860B&colortop=FFFFFF) |  |  |  |  |
| [Peru](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Peru) | [#CD853F](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=CD853F) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=CD853F) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=CD853F&colortop=FFFFFF) |  |  |  |  |
| [Chocolate](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Chocolate) | [#D2691E](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=D2691E) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=D2691E) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=D2691E&colortop=FFFFFF) |  |  |  |  |
| [Olive](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Olive) | [#808000](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=808000) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=808000) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=808000&colortop=FFFFFF) |  |  |  |  |
| [SaddleBrown](http://www.w3schools.com/tags/ref_color_tryit.asp?color=SaddleBrown) | [#8B4513](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=8B4513) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=8B4513) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=8B4513&colortop=FFFFFF) |  |  |  |  |
| [Sienna](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Sienna) | [#A0522D](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=A0522D) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=A0522D) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=A0522D&colortop=FFFFFF) |  |  |  |  |
| [Brown](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Brown) | [#A52A2A](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=A52A2A) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=A52A2A) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=A52A2A&colortop=FFFFFF) |  |  |  |  |
| [Maroon](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Maroon) | [#800000](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=800000) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=800000) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=800000&colortop=FFFFFF) |  |  |  |  |
| White Colors | | | | |  |  |  |  |
| **Color Name** | **HEX** | **Color** | **Shades** | **Mix** |  |  |  |  |
| [White](http://www.w3schools.com/tags/ref_color_tryit.asp?color=White) | [#FFFFFF](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFFFFF) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFFFFF) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFFFFF&colortop=FFFFFF) |  |  |  |  |
| [Snow](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Snow) | [#FFFAFA](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFFAFA) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFFAFA) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFFAFA&colortop=FFFFFF) |  |  |  |  |
| [HoneyDew](http://www.w3schools.com/tags/ref_color_tryit.asp?color=HoneyDew) | [#F0FFF0](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=F0FFF0) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=F0FFF0) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=F0FFF0&colortop=FFFFFF) |  |  |  |  |
| [MintCream](http://www.w3schools.com/tags/ref_color_tryit.asp?color=MintCream) | [#F5FFFA](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=F5FFFA) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=F5FFFA) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=F5FFFA&colortop=FFFFFF) |  |  |  |  |
| [Azure](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Azure) | [#F0FFFF](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=F0FFFF) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=F0FFFF) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=F0FFFF&colortop=FFFFFF) |  |  |  |  |
| [AliceBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=AliceBlue) | [#F0F8FF](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=F0F8FF) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=F0F8FF) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=F0F8FF&colortop=FFFFFF) |  |  |  |  |
| [GhostWhite](http://www.w3schools.com/tags/ref_color_tryit.asp?color=GhostWhite) | [#F8F8FF](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=F8F8FF) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=F8F8FF) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=F8F8FF&colortop=FFFFFF) |  |  |  |  |
| [WhiteSmoke](http://www.w3schools.com/tags/ref_color_tryit.asp?color=WhiteSmoke) | [#F5F5F5](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=F5F5F5) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=F5F5F5) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=F5F5F5&colortop=FFFFFF) |  |  |  |  |
| [SeaShell](http://www.w3schools.com/tags/ref_color_tryit.asp?color=SeaShell) | [#FFF5EE](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFF5EE) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFF5EE) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFF5EE&colortop=FFFFFF) |  |  |  |  |
| [Beige](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Beige) | [#F5F5DC](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=F5F5DC) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=F5F5DC) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=F5F5DC&colortop=FFFFFF) |  |  |  |  |
| [OldLace](http://www.w3schools.com/tags/ref_color_tryit.asp?color=OldLace) | [#FDF5E6](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FDF5E6) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FDF5E6) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FDF5E6&colortop=FFFFFF) |  |  |  |  |
| [FloralWhite](http://www.w3schools.com/tags/ref_color_tryit.asp?color=FloralWhite) | [#FFFAF0](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFFAF0) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFFAF0) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFFAF0&colortop=FFFFFF) |  |  |  |  |
| [Ivory](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Ivory) | [#FFFFF0](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFFFF0) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFFFF0) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFFFF0&colortop=FFFFFF) |  |  |  |  |
| [AntiqueWhite](http://www.w3schools.com/tags/ref_color_tryit.asp?color=AntiqueWhite) | [#FAEBD7](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FAEBD7) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FAEBD7) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FAEBD7&colortop=FFFFFF) |  |  |  |  |
| [Linen](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Linen) | [#FAF0E6](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FAF0E6) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FAF0E6) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FAF0E6&colortop=FFFFFF) |  |  |  |  |
| [LavenderBlush](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LavenderBlush) | [#FFF0F5](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFF0F5) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFF0F5) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFF0F5&colortop=FFFFFF) |  |  |  |  |
| [MistyRose](http://www.w3schools.com/tags/ref_color_tryit.asp?color=MistyRose) | [#FFE4E1](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFE4E1) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFE4E1) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFE4E1&colortop=FFFFFF) |  |  |  |  |
| Grey Colors | | | | |  |  |  |  |
| **Color Name** | **HEX** | **Color** | **Shades** | **Mix** |  |  |  |  |
| [Gainsboro](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Gainsboro) | [#DCDCDC](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=DCDCDC) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=DCDCDC) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=DCDCDC&colortop=FFFFFF) |  |  |  |  |
| [LightGray](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LightGray) | [#D3D3D3](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=D3D3D3) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=D3D3D3) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=D3D3D3&colortop=FFFFFF) |  |  |  |  |
| [Silver](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Silver) | [#C0C0C0](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=C0C0C0) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=C0C0C0) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=C0C0C0&colortop=FFFFFF) |  |  |  |  |
| [DarkGray](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkGray) | [#A9A9A9](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=A9A9A9) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=A9A9A9) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=A9A9A9&colortop=FFFFFF) |  |  |  |  |
| [DimGray](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DimGray) | [#696969](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=696969) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=696969) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=696969&colortop=FFFFFF) |  |  |  |  |
| [Gray](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Gray) | [#808080](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=808080) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=808080) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=808080&colortop=FFFFFF) |  |  |  |  |
| [LightSlateGray](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LightSlateGray) | [#778899](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=778899) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=778899) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=778899&colortop=FFFFFF) |  |  |  |  |
| [SlateGray](http://www.w3schools.com/tags/ref_color_tryit.asp?color=SlateGray) | [#708090](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=708090) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=708090) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=708090&colortop=FFFFFF) |  |  |  |  |
| [DarkSlateGray](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkSlateGray) | [#2F4F4F](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=2F4F4F) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=2F4F4F) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=2F4F4F&colortop=FFFFFF) |  |  |  |  |
| [Black](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Black) | [#000000](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=000000) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=000000) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=000000&colortop=FFFFFF) |  |  |  |  |

# HTML Color Shades

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[Next Chapter »](http://www.w3schools.com/html/html_scripts.asp)

## Shades of Gray

Gray colors are displayed using an equal amount of power to all of the light sources.

To make it easy for you to select a gray color we have compiled a table of gray shades for you:

|  |  |  |
| --- | --- | --- |
| **Gray Shades** | **HEX** | **RGB** |
|  | #000000 | rgb(0,0,0) |
|  | #080808 | rgb(8,8,8) |
|  | #101010 | rgb(16,16,16) |
|  | #181818 | rgb(24,24,24) |
|  | #202020 | rgb(32,32,32) |
|  | #282828 | rgb(40,40,40) |
|  | #303030 | rgb(48,48,48) |
|  | #383838 | rgb(56,56,56) |
|  | #404040 | rgb(64,64,64) |
|  | #484848 | rgb(72,72,72) |
|  | #505050 | rgb(80,80,80) |
|  | #585858 | rgb(88,88,88) |
|  | #606060 | rgb(96,96,96) |
|  | #686868 | rgb(104,104,104) |
|  | #707070 | rgb(112,112,112) |
|  | #787878 | rgb(120,120,120) |
|  | #808080 | rgb(128,128,128) |
|  | #888888 | rgb(136,136,136) |
|  | #909090 | rgb(144,144,144) |
|  | #989898 | rgb(152,152,152) |
|  | #A0A0A0 | rgb(160,160,160) |
|  | #A8A8A8 | rgb(168,168,168) |
|  | #B0B0B0 | rgb(176,176,176) |
|  | #B8B8B8 | rgb(184,184,184) |
|  | #C0C0C0 | rgb(192,192,192) |
|  | #C8C8C8 | rgb(200,200,200) |
|  | #D0D0D0 | rgb(208,208,208) |
|  | #D8D8D8 | rgb(216,216,216) |
|  | #E0E0E0 | rgb(224,224,224) |
|  | #E8E8E8 | rgb(232,232,232) |
|  | #F0F0F0 | rgb(240,240,240) |
|  | #F8F8F8 | rgb(248,248,248) |
|  | #FFFFFF | rgb(255,255,255) |

## 16 Million Different Colors

The combination of Red, Green and Blue values from 0 to 255 gives a total of more than 16 million different colors to play with (256 x 256 x 256).

Most modern monitors are capable of displaying at least 16384 different colors.

If you look at the color table below, you will see the result of varying the red light from 0 to 255, while keeping the green and blue light at zero.

To see a full list of color mixes when the red light varies from 0 to 255, click on one of the HEX or RGB values below.

|  |  |  |
| --- | --- | --- |
| **Red Light** | **HEX** | **RGB** |
|  | [#000000](http://www.w3schools.com/html/html_colorsmore.asp?color=0) | [rgb(0,0,0)](http://www.w3schools.com/html/html_colorsmore.asp?color=0) |
|  | [#080000](http://www.w3schools.com/html/html_colorsmore.asp?color=8) | [rgb(8,0,0)](http://www.w3schools.com/html/html_colorsmore.asp?color=8) |
|  | [#100000](http://www.w3schools.com/html/html_colorsmore.asp?color=16) | [rgb(16,0,0)](http://www.w3schools.com/html/html_colorsmore.asp?color=16) |
|  | [#180000](http://www.w3schools.com/html/html_colorsmore.asp?color=24) | [rgb(24,0,0)](http://www.w3schools.com/html/html_colorsmore.asp?color=24) |
|  | [#200000](http://www.w3schools.com/html/html_colorsmore.asp?color=32) | [rgb(32,0,0)](http://www.w3schools.com/html/html_colorsmore.asp?color=32) |
|  | [#280000](http://www.w3schools.com/html/html_colorsmore.asp?color=40) | [rgb(40,0,0)](http://www.w3schools.com/html/html_colorsmore.asp?color=40) |
|  | [#300000](http://www.w3schools.com/html/html_colorsmore.asp?color=48) | [rgb(48,0,0)](http://www.w3schools.com/html/html_colorsmore.asp?color=48) |
|  | [#380000](http://www.w3schools.com/html/html_colorsmore.asp?color=56) | [rgb(56,0,0)](http://www.w3schools.com/html/html_colorsmore.asp?color=56) |
|  | [#400000](http://www.w3schools.com/html/html_colorsmore.asp?color=64) | [rgb(64,0,0)](http://www.w3schools.com/html/html_colorsmore.asp?color=64) |
|  | [#480000](http://www.w3schools.com/html/html_colorsmore.asp?color=72) | [rgb(72,0,0)](http://www.w3schools.com/html/html_colorsmore.asp?color=72) |
|  | [#500000](http://www.w3schools.com/html/html_colorsmore.asp?color=80) | [rgb(80,0,0)](http://www.w3schools.com/html/html_colorsmore.asp?color=80) |
|  | [#580000](http://www.w3schools.com/html/html_colorsmore.asp?color=88) | [rgb(88,0,0)](http://www.w3schools.com/html/html_colorsmore.asp?color=88) |
|  | [#600000](http://www.w3schools.com/html/html_colorsmore.asp?color=96) | [rgb(96,0,0)](http://www.w3schools.com/html/html_colorsmore.asp?color=96) |
|  | [#680000](http://www.w3schools.com/html/html_colorsmore.asp?color=104) | [rgb(104,0,0)](http://www.w3schools.com/html/html_colorsmore.asp?color=104) |
|  | [#700000](http://www.w3schools.com/html/html_colorsmore.asp?color=112) | [rgb(112,0,0)](http://www.w3schools.com/html/html_colorsmore.asp?color=112) |
|  | [#780000](http://www.w3schools.com/html/html_colorsmore.asp?color=120) | [rgb(120,0,0)](http://www.w3schools.com/html/html_colorsmore.asp?color=120) |
|  | [#800000](http://www.w3schools.com/html/html_colorsmore.asp?color=128) | [rgb(128,0,0)](http://www.w3schools.com/html/html_colorsmore.asp?color=128) |
|  | [#880000](http://www.w3schools.com/html/html_colorsmore.asp?color=136) | [rgb(136,0,0)](http://www.w3schools.com/html/html_colorsmore.asp?color=136) |
|  | [#900000](http://www.w3schools.com/html/html_colorsmore.asp?color=144) | [rgb(144,0,0)](http://www.w3schools.com/html/html_colorsmore.asp?color=144) |
|  | [#980000](http://www.w3schools.com/html/html_colorsmore.asp?color=152) | [rgb(152,0,0)](http://www.w3schools.com/html/html_colorsmore.asp?color=152) |
|  | [#A00000](http://www.w3schools.com/html/html_colorsmore.asp?color=160) | [rgb(160,0,0)](http://www.w3schools.com/html/html_colorsmore.asp?color=160) |
|  | [#A80000](http://www.w3schools.com/html/html_colorsmore.asp?color=168) | [rgb(168,0,0)](http://www.w3schools.com/html/html_colorsmore.asp?color=168) |
|  | [#B00000](http://www.w3schools.com/html/html_colorsmore.asp?color=176) | [rgb(176,0,0)](http://www.w3schools.com/html/html_colorsmore.asp?color=176) |
|  | [#B80000](http://www.w3schools.com/html/html_colorsmore.asp?color=184) | [rgb(184,0,0)](http://www.w3schools.com/html/html_colorsmore.asp?color=184) |
|  | [#C00000](http://www.w3schools.com/html/html_colorsmore.asp?color=192) | [rgb(192,0,0)](http://www.w3schools.com/html/html_colorsmore.asp?color=192) |
|  | [#C80000](http://www.w3schools.com/html/html_colorsmore.asp?color=200) | [rgb(200,0,0)](http://www.w3schools.com/html/html_colorsmore.asp?color=200) |
|  | [#D00000](http://www.w3schools.com/html/html_colorsmore.asp?color=208) | [rgb(208,0,0)](http://www.w3schools.com/html/html_colorsmore.asp?color=208) |
|  | [#D80000](http://www.w3schools.com/html/html_colorsmore.asp?color=216) | [rgb(216,0,0)](http://www.w3schools.com/html/html_colorsmore.asp?color=216) |
|  | [#E00000](http://www.w3schools.com/html/html_colorsmore.asp?color=224) | [rgb(224,0,0)](http://www.w3schools.com/html/html_colorsmore.asp?color=224) |
|  | [#E80000](http://www.w3schools.com/html/html_colorsmore.asp?color=232) | [rgb(232,0,0)](http://www.w3schools.com/html/html_colorsmore.asp?color=232) |
|  | [#F00000](http://www.w3schools.com/html/html_colorsmore.asp?color=240) | [rgb(240,0,0)](http://www.w3schools.com/html/html_colorsmore.asp?color=240) |
|  | [#F80000](http://www.w3schools.com/html/html_colorsmore.asp?color=248) | [rgb(248,0,0)](http://www.w3schools.com/html/html_colorsmore.asp?color=248) |
|  | [#FF0000](http://www.w3schools.com/html/html_colorsmore.asp?color=255) | [rgb(255,0,0)](http://www.w3schools.com/html/html_colorsmore.asp?color=255) |

## Web Safe Colors?

Some years ago, when computers supported maximum 256 different colors, a list of 216 "Web Safe Colors" was suggested as a Web standard, reserving 40 fixed system colors.

This is not important now, since most computers can display millions of different colors, but the choice is left to you.

The 216 cross-browser color palette was created to ensure that all computers would display the colors correctly when running a 256 color palette:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 000000 | 000033 | 000066 | 000099 | 0000CC | 0000FF |
| 003300 | 003333 | 003366 | 003399 | 0033CC | 0033FF |
| 006600 | 006633 | 006666 | 006699 | 0066CC | 0066FF |
| 009900 | 009933 | 009966 | 009999 | 0099CC | 0099FF |
| 00CC00 | 00CC33 | 00CC66 | 00CC99 | 00CCCC | 00CCFF |
| 00FF00 | 00FF33 | 00FF66 | 00FF99 | 00FFCC | 00FFFF |
| 330000 | 330033 | 330066 | 330099 | 3300CC | 3300FF |
| 333300 | 333333 | 333366 | 333399 | 3333CC | 3333FF |
| 336600 | 336633 | 336666 | 336699 | 3366CC | 3366FF |
| 339900 | 339933 | 339966 | 339999 | 3399CC | 3399FF |
| 33CC00 | 33CC33 | 33CC66 | 33CC99 | 33CCCC | 33CCFF |
| 33FF00 | 33FF33 | 33FF66 | 33FF99 | 33FFCC | 33FFFF |
| 660000 | 660033 | 660066 | 660099 | 6600CC | 6600FF |
| 663300 | 663333 | 663366 | 663399 | 6633CC | 6633FF |
| 666600 | 666633 | 666666 | 666699 | 6666CC | 6666FF |
| 669900 | 669933 | 669966 | 669999 | 6699CC | 6699FF |
| 66CC00 | 66CC33 | 66CC66 | 66CC99 | 66CCCC | 66CCFF |
| 66FF00 | 66FF33 | 66FF66 | 66FF99 | 66FFCC | 66FFFF |
| 990000 | 990033 | 990066 | 990099 | 9900CC | 9900FF |
| 993300 | 993333 | 993366 | 993399 | 9933CC | 9933FF |
| 996600 | 996633 | 996666 | 996699 | 9966CC | 9966FF |
| 999900 | 999933 | 999966 | 999999 | 9999CC | 9999FF |
| 99CC00 | 99CC33 | 99CC66 | 99CC99 | 99CCCC | 99CCFF |
| 99FF00 | 99FF33 | 99FF66 | 99FF99 | 99FFCC | 99FFFF |
| CC0000 | CC0033 | CC0066 | CC0099 | CC00CC | CC00FF |
| CC3300 | CC3333 | CC3366 | CC3399 | CC33CC | CC33FF |
| CC6600 | CC6633 | CC6666 | CC6699 | CC66CC | CC66FF |
| CC9900 | CC9933 | CC9966 | CC9999 | CC99CC | CC99FF |
| CCCC00 | CCCC33 | CCCC66 | CCCC99 | CCCCCC | CCCCFF |
| CCFF00 | CCFF33 | CCFF66 | CCFF99 | CCFFCC | CCFFFF |
| FF0000 | FF0033 | FF0066 | FF0099 | FF00CC | FF00FF |
| FF3300 | FF3333 | FF3366 | FF3399 | FF33CC | FF33FF |
| FF6600 | FF6633 | FF6666 | FF6699 | FF66CC | FF66FF |
| FF9900 | FF9933 | FF9966 | FF9999 | FF99CC | FF99FF |
| FFCC00 | FFCC33 | FFCC66 | FFCC99 | FFCCCC | FFCCFF |
| FFFF00 | FFFF33 | FFFF66 | FFFF99 | FFFFCC | FFFFFF |

# HTML Scripts

[« Previous](http://www.w3schools.com/html/html_colors.asp)

[Next Chapter »](http://www.w3schools.com/html/html_head.asp)

JavaScripts make HTML pages more dynamic and interactive.

Examples

## Try it Yourself - Examples

[Insert a script](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_script)  
How to insert a script into an HTML document.

[Use of the <noscript> tag](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_noscript)  
How to handle browsers that do not support scripting, or have scripting disabled.

## The HTML <script> Tag

The <script> tag is used to define a client-side script, such as a JavaScript.

The <script> element either contains scripting statements or it points to an external script file through the src attribute.

Common uses for JavaScript are image manipulation, form validation, and dynamic changes of content.

The script below writes Hello JavaScript! into an HTML element with id="demo":

### Example

<script>  
document.getElementById("demo").innerHTML = "Hello JavaScript!";  
</script>

[Try it yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_script)

|  |  |
| --- | --- |
| **Note** | To learn all about JavaScript, visit our [JavaScript Tutorial](http://www.w3schools.com/js/default.asp)! |

## The HTML <noscript> Tag

The <noscript> tag is used to provide an alternate content for users that have disabled scripts in their browser or have a browser that doesn't support client-side scripting.

The <noscript> element can contain all the elements that you can find inside the <body> element of a normal HTML page.

The content inside the <noscript> element will only be displayed if scripts are not supported, or are disabled in the user's browser:

### Example

<script>  
document.getElementById("demo").innerHTML = "Hello JavaScript!";  
</script>  
  
<noscript>Sorry, your browser does not support JavaScript!</noscript>

[Try it yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_noscript)

## A Taste of JavaScript (From Our JavaScript Tutorial)

Here are some examples of what JavaScript can do:

### JavaScript can change HTML content:

document.getElementById("demo").innerHTML = "Hello JavaScript!";

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_script_html)

### JavaScript can change HTML styles:

document.getElementById("demo").style.fontSize = "25px";

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_script_styles)

### JavaScript can change HTML attributes:

document.getElementById("image").src = "picture.gif";

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_script_attribute)

## HTML Script Tags

|  |  |
| --- | --- |
| **Tag** | **Description** |
| [<script>](http://www.w3schools.com/tags/tag_script.asp) | Defines a client-side script |
| [<noscript>](http://www.w3schools.com/tags/tag_noscript.asp) | Defines an alternate content for users that do not support client-side scripts |

## Test Yourself with Exercises!

[Exercise 1 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_scripts1) [Exercise 2 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_scripts2) [Exercise 3 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_scripts3) [Exercise 4 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_scripts4)

# HTML Head

[« Previous](http://www.w3schools.com/html/html_scripts.asp)

[Next Chapter »](http://www.w3schools.com/html/html_entities.asp)

## The HTML <head> Element

The <head> element is a container for metadata (data about data).

HTML metadata is data about the HTML document. Metadata is not displayed.

Metadata typically define document title, styles, links, scripts, and other meta information.

The following tags describe metadata: <title>, <style>, <meta>, <link>, <script>, and <base>.

## Omitting <html> and <body>?

In the HTML5 standard, the <html> tag, the <body> tag, and the <head> tag can be omitted.

The following code will validate as HTML5:

### Example

<!DOCTYPE html>  
<title>Page Title</title>  
  
<h1>This is a heading</h1>  
<p>This is a paragraph.</p>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_head_none)

|  |  |
| --- | --- |
| **Note** | W3Schools does not recommend omitting the <html> and <body> tags. |

The <html> element is the document root. It is the recommended place for specifying the page language:

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

Declaring a language is important for accessibility applications (screen readers) and search engines.

Omitting <html> and <body> can crash badly-written DOM/XML software.

Finally, omitting <body> can produce errors in older browsers (IE9).

## Omitting <head>

In the HTML5 standard, the <head> tag can also be omitted.

By default, browsers will add all elements before <body>, to a default <head> element.

You can reduce the complexity of HTML, by omitting the <head> tag:

### Example

<!DOCTYPE html>  
<html>  
<title>Page Title</title>  
<body>  
  
<h1>This is a heading</h1>  
<p>This is a paragraph.</p>  
  
</body>  
</html>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_head_no_head)

|  |  |
| --- | --- |
| **Note** | Omitting tags is unfamiliar to web developers. It needs time to be established as a guideline. |

## The HTML <title> Element

The <title> element defines the title of the document.

The <title> element is required in all HTML/XHTML documents.

The <title> element:

* defines a title in the browser tab
* provides a title for the page when it is added to favorites
* displays a title for the page in search engine results

A simplified HTML document:

### Example

<!DOCTYPE html>  
<html>  
<title>Page Title</title>  
  
<body>  
The content of the document......  
</body>  
  
</html>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_head_title)

## The HTML <style> Element

The <style> element is used to define style information for an HTML document.

Inside the <style> element you specify how HTML elements should render in a browser:

### Example

<style>  
body {background-color:yellow;}  
p {color:blue;}  
</style>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_head_style)

## The HTML <link> Element

The <link> element defines the page relationship to an external resource.

The <link> element is most often used to link to style sheets:

### Example

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

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_head_link)

## The HTML <meta> Element

The <meta> element is used to specify page description, keywords, author, and other metadata.

Metadata is used by browsers (how to display content), by search engines (keywords), and other web services.

Define keywords for search engines:

<meta name="keywords" content="HTML, CSS, XML, XHTML, JavaScript">

Define a description of your web page:

<meta name="description" content="Free Web tutorials on HTML and CSS">

Define the character set used:

<meta charset="UTF-8">

Define the author of a page:

<meta name="author" content="Hege Refsnes">

Refresh document every 30 seconds:

<meta http-equiv="refresh" content="30">

Example of <meta> tags:

### Example

<meta name="description" content="Free Web tutorials">  
<meta name="keywords" content="HTML,CSS,XML,JavaScript">  
<meta name="author" content="Hege Refsnes">  
<meta charset="UTF-8">

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_head_meta)

## The HTML <script> Element

The <script> element is used to define client-side JavaScripts.

The script below writes Hello JavaScript! into an HTML element with id="demo":

### Example

<script>  
function myFunction {  
    document.getElementById("demo").innerHTML = "Hello JavaScript!";  
}  
</script>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_head_script)

|  |  |
| --- | --- |
| **Note** | To learn all about JavaScript, visit our [JavaScript Tutorial](http://www.w3schools.com/js/default.asp)! |

## The HTML <base> Element

The <base> element specifies the base URL and base target for all relative URLs in a page:

### Example

<base href="http://www.w3schools.com/images/" target="\_blank">

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_head_base)

## HTML head Elements

|  |  |
| --- | --- |
| **Tag** | **Description** |
| [<head>](http://www.w3schools.com/tags/tag_head.asp) | Defines information about the document |
| [<title>](http://www.w3schools.com/tags/tag_title.asp) | Defines the title of a document |
| [<base>](http://www.w3schools.com/tags/tag_base.asp) | Defines a default address or a default target for all links on a page |
| [<link>](http://www.w3schools.com/tags/tag_link.asp) | Defines the relationship between a document and an external resource |
| [<meta>](http://www.w3schools.com/tags/tag_meta.asp) | Defines metadata about an HTML document |
| [<script>](http://www.w3schools.com/tags/tag_script.asp) | Defines a client-side script |
| [<style>](http://www.w3schools.com/tags/tag_style.asp) | Defines style information for a document |

# HTML Entities

[« Previous](http://www.w3schools.com/html/html_head.asp)

[Next Chapter »](http://www.w3schools.com/html/html_symbols.asp)

Reserved characters in HTML must be replaced with character entities.

Characters, not present on your keyboard, can also be replaced by entities.

## HTML Entities

Some characters are reserved in HTML.

If you use the less than (<) or greater than (>) signs in your text, the browser might mix them with tags.

Character entities are used to display reserved characters in HTML.

A character entity looks like this:

&*entity\_name*;

OR

&#*entity\_number*;

To display a less than sign we must write: **&lt;** or **&#60;**

|  |  |
| --- | --- |
| **Note** | The advantage of using an entity name, instead of a number, is that the name is easier to remember. The disadvantage is that browsers may not support all entity names, but the support for numbers is good. |

## Non-breaking Space

A common character entity used in HTML is the non-breaking space (&nbsp;).

Remember that browsers will always truncate spaces in HTML pages. If you write 10 spaces in your text, the browser will remove 9 of them. To add real spaces to your text, you can use the **&nbsp;** character entity.

## Some Other Useful HTML Character Entities

|  |  |  |  |
| --- | --- | --- | --- |
| **Result** | **Description** | **Entity Name** | **Entity Number** |
|  | non-breaking space | &nbsp; | &#160; |
| < | less than | &lt; | &#60; |
| > | greater than | &gt; | &#62; |
| & | ampersand | &amp; | &#38; |
| ¢ | cent | &cent; | &#162; |
| £ | pound | &pound; | &#163; |
| ¥ | yen | &yen; | &#165; |
| € | euro | &euro; | &#8364; |
| © | copyright | &copy; | &#169; |
| ® | registered trademark | &reg; | &#174; |

|  |  |
| --- | --- |
| **Note** | Entity names are case sensitive. |

## Combining Diacritical Marks

A diacritical mark is a "glyph" added to a letter.

Some diacritical marks, like grave (  ̀) and acute (  ́) are called accents.

Diacritical marks can appear both above and below a letter, inside a letter, and between two letters.

Diacritical marks can be used in combination with alphanumeric characters, to produce a character that is not present in the character set (encoding) used in the page.

Here are some examples:

|  |  |  |  |
| --- | --- | --- | --- |
| **Mark** | **Character** | **Construct** | **Result** |
| ̀ | a | a&#768; | à |
| ́ | a | a&#769; | á |
| ̂ | a | a&#770; | â |
| ̃ | a | a&#771; | ã |
| ̀ | O | O&#768; | Ò |
| ́ | O | O&#769; | Ó |
| ̂ | O | O&#770; | Ô |
| ̃ | O | O&#771; | Õ |

You will see more HTML symbols in the next chapter of this tutorial.

# HTML Symbols

[« Previous](http://www.w3schools.com/html/html_entities.asp)

[Next Chapter »](http://www.w3schools.com/html/html_charset.asp)

## HTML Symbol Entities

HTML entities were described in the previous chapter.

Many mathematical, technical, and currency symbols, are not present on a normal keyboard.

To add these symbols to an HTML page, you can use an HTML entity name.

If no entity name exists, you can use an entity number; a decimal (or hexadecimal) reference.

|  |  |
| --- | --- |
| **Note** | If you use an HTML entity name or a hexadecimal number, the character will always display correctly. This is independent of what character set (encoding) your page uses! |

### Example

<p>I will display &euro;</p>  
<p>I will display &#8364;</p>  
<p>I will display &#x20AC;</p>

### Will display as:

I will display €  
I will display €  
I will display €

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_utf_euro)

## Some Mathematical Symbols Supported by HTML

|  |  |  |  |
| --- | --- | --- | --- |
| **Char** | **Number** | **Entity** | **Description** |
| ∀ | &#8704; | &forall; | FOR ALL |
| ∂ | &#8706; | &part; | PARTIAL DIFFERENTIAL |
| ∃ | &#8707; | &exist; | THERE EXISTS |
| ∅ | &#8709; | &empty; | EMPTY SETS |
| ∇ | &#8711; | &nabla; | NABLA |
| ∈ | &#8712; | &isin; | ELEMENT OF |
| ∉ | &#8713; | &notin; | NOT AN ELEMENT OF |
| ∋ | &#8715; | &ni; | CONTAINS AS MEMBER |
| ∏ | &#8719; | &prod; | N-ARY PRODUCT |
| ∑ | &#8721; | &sum; | N-ARY SUMMATION |

[Full Math Reference](http://www.w3schools.com/charsets/ref_utf_math.asp)

## Some Greek Letters Supported by HTML

|  |  |  |  |
| --- | --- | --- | --- |
| **Char** | **Number** | **Entity** | **Description** |
| Α | &#913; | &Alpha; | GREEK CAPITAL LETTER ALPHA |
| Β | &#914; | &Beta; | GREEK CAPITAL LETTER BETA |
| Γ | &#915; | &Gamma; | GREEK CAPITAL LETTER GAMMA |
| Δ | &#916; | &Delta; | GREEK CAPITAL LETTER DELTA |
| Ε | &#917; | &Epsilon; | GREEK CAPITAL LETTER EPSILON |
| Ζ | &#918; | &Zeta; | GREEK CAPITAL LETTER ZETA |

[Full Greek Reference](http://www.w3schools.com/charsets/ref_utf_greek.asp)

## Some Other Entities Supported by HTML

|  |  |  |  |
| --- | --- | --- | --- |
| **Char** | **Number** | **Entity** | **Description** |
| © | &#169; | &copy; | COPYRIGHT SIGN |
| ® | &#174; | &reg; | REGISTERED SIGN |
| € | &#8364; | &euro; | EURO SIGN |
| ™ | &#8482; | &trade; | TRADEMARK |
| ← | &#8592; | &larr; | LEFTWARDS ARROW |
| ↑ | &#8593; | &uarr; | UPWARDS ARROW |
| → | &#8594; | &rarr; | RIGHTWARDS ARROW |
| ↓ | &#8595; | &darr; | DOWNWARDS ARROW |
| ♠ | &#9824; | &spades; | BLACK SPADE SUIT |
| ♣ | &#9827; | &clubs; | BLACK CLUB SUIT |
| ♥ | &#9829; | &hearts; | BLACK HEART SUIT |
| ♦ | &#9830; | &diams; | BLACK DIAMOND SUIT |

[Full Currency Reference](http://www.w3schools.com/charsets/ref_utf_currency.asp)

[Full Arrows Reference](http://www.w3schools.com/charsets/ref_utf_arrows.asp)

[Full Symbols Reference](http://www.w3schools.com/charsets/ref_utf_symbols.asp)

# HTML Encoding (Character Sets)

[« Previous](http://www.w3schools.com/html/html_symbols.asp)

[Next Chapter »](http://www.w3schools.com/html/html_urlencode.asp)

To display an HTML page correctly, a web browser must know the character set (character encoding) to use.

## What is Character Encoding?

ASCII was the first **character encoding standard** (also called character set). It defines 127 different alphanumeric characters that could be used on the internet.

ASCII supported numbers (0-9), English letters (A-Z), and some special characters like ! $ + - ( ) @ < > .

ANSI (Windows-1252) was the original Windows character set. It supported 256 different character codes.

ISO-8859-1 was the default character set for HTML 4. It also supported 256 different character codes.

Because ANSI and ISO were limited, the default character encoding was changed to UTF-8 in HTML5.

UTF-8 (Unicode) covers almost all of the characters and symbols in the world.

|  |  |
| --- | --- |
| **Note** | All HTML 4 processors also support UTF-8. |

## The HTML charset Attribute

To display an HTML page correctly, a web browser must know the character set used in the page.

This is specified in the <meta> tag:

### For HTML4:

<meta http-equiv="Content-Type" content="text/html;charset=ISO-8859-1">

### For HTML5:

<meta charset="UTF-8">

|  |  |
| --- | --- |
| **Note** | If a browser detects ISO-8859-1 in a web page, it defaults to ANSI, because ANSI is identical to ISO-8859-1 except that ANSI has 32 extra characters. |

## Differences Between Character Sets

The following table displays the differences between the character sets described above:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Numb** | **ASCII** | **ANSI** | **8859** | **UTF-8** | **Description** |
| 32 |  |  |  |  | space |
| 33 | ! | ! | ! | ! | exclamation mark |
| 34 | " | " | " | " | quotation mark |
| 35 | # | # | # | # | number sign |
| 36 | $ | $ | $ | $ | dollar sign |
| 37 | % | % | % | % | percent sign |
| 38 | & | & | & | & | ampersand |
| 39 | ' | ' | ' | ' | apostrophe |
| 40 | ( | ( | ( | ( | left parenthesis |
| 41 | ) | ) | ) | ) | right parenthesis |
| 42 | \* | \* | \* | \* | asterisk |
| 43 | + | + | + | + | plus sign |
| 44 | , | , | , | , | comma |
| 45 | - | - | - | - | hyphen-minus |
| 46 | . | . | . | . | full stop |
| 47 | / | / | / | / | solidus |
| 48 | 0 | 0 | 0 | 0 | digit zero |
| 49 | 1 | 1 | 1 | 1 | digit one |
| 50 | 2 | 2 | 2 | 2 | digit two |
| 51 | 3 | 3 | 3 | 3 | digit three |
| 52 | 4 | 4 | 4 | 4 | digit four |
| 53 | 5 | 5 | 5 | 5 | digit five |
| 54 | 6 | 6 | 6 | 6 | digit six |
| 55 | 7 | 7 | 7 | 7 | digit seven |
| 56 | 8 | 8 | 8 | 8 | digit eight |
| 57 | 9 | 9 | 9 | 9 | digit nine |
| 58 | : | : | : | : | colon |
| 59 | ; | ; | ; | ; | semicolon |
| 60 | < | < | < | < | less-than sign |
| 61 | = | = | = | = | equals sign |
| 62 | > | > | > | > | greater-than sign |
| 63 | ? | ? | ? | ? | question mark |
| 64 | @ | @ | @ | @ | commercial at |
| 65 | A | A | A | A | Latin capital letter A |
| 66 | B | B | B | B | Latin capital letter B |
| 67 | C | C | C | C | Latin capital letter C |
| 68 | D | D | D | D | Latin capital letter D |
| 69 | E | E | E | E | Latin capital letter E |
| 70 | F | F | F | F | Latin capital letter F |
| 71 | G | G | G | G | Latin capital letter G |
| 72 | H | H | H | H | Latin capital letter H |
| 73 | I | I | I | I | Latin capital letter I |
| 74 | J | J | J | J | Latin capital letter J |
| 75 | K | K | K | K | Latin capital letter K |
| 76 | L | L | L | L | Latin capital letter L |
| 77 | M | M | M | M | Latin capital letter M |
| 78 | N | N | N | N | Latin capital letter N |
| 79 | O | O | O | O | Latin capital letter O |
| 80 | P | P | P | P | Latin capital letter P |
| 81 | Q | Q | Q | Q | Latin capital letter Q |
| 82 | R | R | R | R | Latin capital letter R |
| 83 | S | S | S | S | Latin capital letter S |
| 84 | T | T | T | T | Latin capital letter T |
| 85 | U | U | U | U | Latin capital letter U |
| 86 | V | V | V | V | Latin capital letter V |
| 87 | W | W | W | W | Latin capital letter W |
| 88 | X | X | X | X | Latin capital letter X |
| 89 | Y | Y | Y | Y | Latin capital letter Y |
| 90 | Z | Z | Z | Z | Latin capital letter Z |
| 91 | [ | [ | [ | [ | left square bracket |
| 92 | \ | \ | \ | \ | reverse solidus |
| 93 | ] | ] | ] | ] | right square bracket |
| 94 | ^ | ^ | ^ | ^ | circumflex accent |
| 95 | \_ | \_ | \_ | \_ | low line |
| 96 | ` | ` | ` | ` | grave accent |
| 97 | a | a | a | a | Latin small letter a |
| 98 | b | b | b | b | Latin small letter b |
| 99 | c | c | c | c | Latin small letter c |
| 100 | d | d | d | d | Latin small letter d |
| 101 | e | e | e | e | Latin small letter e |
| 102 | f | f | f | f | Latin small letter f |
| 103 | g | g | g | g | Latin small letter g |
| 104 | h | h | h | h | Latin small letter h |
| 105 | i | i | i | i | Latin small letter i |
| 106 | j | j | j | j | Latin small letter j |
| 107 | k | k | k | k | Latin small letter k |
| 108 | l | l | l | l | Latin small letter l |
| 109 | m | m | m | m | Latin small letter m |
| 110 | n | n | n | n | Latin small letter n |
| 111 | o | o | o | o | Latin small letter o |
| 112 | p | p | p | p | Latin small letter p |
| 113 | q | q | q | q | Latin small letter q |
| 114 | r | r | r | r | Latin small letter r |
| 115 | s | s | s | s | Latin small letter s |
| 116 | t | t | t | t | Latin small letter t |
| 117 | u | u | u | u | Latin small letter u |
| 118 | v | v | v | v | Latin small letter v |
| 119 | w | w | w | w | Latin small letter w |
| 120 | x | x | x | x | Latin small letter x |
| 121 | y | y | y | y | Latin small letter y |
| 122 | z | z | z | z | Latin small letter z |
| 123 | { | { | { | { | left curly bracket |
| 124 | | | | | | | | | vertical line |
| 125 | } | } | } | } | right curly bracket |
| 126 | ~ | ~ | ~ | ~ | tilde |
| 127 | DEL |  |  |  |  |
| 128 |  | € |  |  | euro sign |
| 129 |  |  |  |  | NOT USED |
| 130 |  | ‚ |  |  | single low-9 quotation mark |
| 131 |  | ƒ |  |  | Latin small letter f with hook |
| 132 |  | „ |  |  | double low-9 quotation mark |
| 133 |  | … |  |  | horizontal ellipsis |
| 134 |  | † |  |  | dagger |
| 135 |  | ‡ |  |  | double dagger |
| 136 |  | ˆ |  |  | modifier letter circumflex accent |
| 137 |  | ‰ |  |  | per mille sign |
| 138 |  | Š |  |  | Latin capital letter S with caron |
| 139 |  | ‹ |  |  | single left-pointing angle quotation mark |
| 140 |  | Œ |  |  | Latin capital ligature OE |
| 141 |  |  |  |  | NOT USED |
| 142 |  | Ž |  |  | Latin capital letter Z with caron |
| 143 |  |  |  |  | NOT USED |
| 144 |  |  |  |  | NOT USED |
| 145 |  | ‘ |  |  | left single quotation mark |
| 146 |  | ’ |  |  | right single quotation mark |
| 147 |  | “ |  |  | left double quotation mark |
| 148 |  | ” |  |  | right double quotation mark |
| 149 |  | • |  |  | bullet |
| 150 |  | – |  |  | en dash |
| 151 |  | — |  |  | em dash |
| 152 |  | ˜ |  |  | small tilde |
| 153 |  | ™ |  |  | trade mark sign |
| 154 |  | š |  |  | Latin small letter s with caron |
| 155 |  | › |  |  | single right-pointing angle quotation mark |
| 156 |  | œ |  |  | Latin small ligature oe |
| 157 |  |  |  |  | NOT USED |
| 158 |  | ž |  |  | Latin small letter z with caron |
| 159 |  | Ÿ |  |  | Latin capital letter Y with diaeresis |
| 160 |  |  |  |  | no-break space |
| 161 |  | ¡ | ¡ | ¡ | inverted exclamation mark |
| 162 |  | ¢ | ¢ | ¢ | cent sign |
| 163 |  | £ | £ | £ | pound sign |
| 164 |  | ¤ | ¤ | ¤ | currency sign |
| 165 |  | ¥ | ¥ | ¥ | yen sign |
| 166 |  | ¦ | ¦ | ¦ | broken bar |
| 167 |  | § | § | § | section sign |
| 168 |  | ¨ | ¨ | ¨ | diaeresis |
| 169 |  | © | © | © | copyright sign |
| 170 |  | ª | ª | ª | feminine ordinal indicator |
| 171 |  | « | « | « | left-pointing double angle quotation mark |
| 172 |  | ¬ | ¬ | ¬ | not sign |
| 173 |  | ­ | ­ | ­ | soft hyphen |
| 174 |  | ® | ® | ® | registered sign |
| 175 |  | ¯ | ¯ | ¯ | macron |
| 176 |  | ° | ° | ° | degree sign |
| 177 |  | ± | ± | ± | plus-minus sign |
| 178 |  | ² | ² | ² | superscript two |
| 179 |  | ³ | ³ | ³ | superscript three |
| 180 |  | ´ | ´ | ´ | acute accent |
| 181 |  | µ | µ | µ | micro sign |
| 182 |  | ¶ | ¶ | ¶ | pilcrow sign |
| 183 |  | · | · | · | middle dot |
| 184 |  | ¸ | ¸ | ¸ | cedilla |
| 185 |  | ¹ | ¹ | ¹ | superscript one |
| 186 |  | º | º | º | masculine ordinal indicator |
| 187 |  | » | » | » | right-pointing double angle quotation mark |
| 188 |  | ¼ | ¼ | ¼ | vulgar fraction one quarter |
| 189 |  | ½ | ½ | ½ | vulgar fraction one half |
| 190 |  | ¾ | ¾ | ¾ | vulgar fraction three quarters |
| 191 |  | ¿ | ¿ | ¿ | inverted question mark |
| 192 |  | À | À | À | Latin capital letter A with grave |
| 193 |  | Á | Á | Á | Latin capital letter A with acute |
| 194 |  | Â | Â | Â | Latin capital letter A with circumflex |
| 195 |  | Ã | Ã | Ã | Latin capital letter A with tilde |
| 196 |  | Ä | Ä | Ä | Latin capital letter A with diaeresis |
| 197 |  | Å | Å | Å | Latin capital letter A with ring above |
| 198 |  | Æ | Æ | Æ | Latin capital letter AE |
| 199 |  | Ç | Ç | Ç | Latin capital letter C with cedilla |
| 200 |  | È | È | È | Latin capital letter E with grave |
| 201 |  | É | É | É | Latin capital letter E with acute |
| 202 |  | Ê | Ê | Ê | Latin capital letter E with circumflex |
| 203 |  | Ë | Ë | Ë | Latin capital letter E with diaeresis |
| 204 |  | Ì | Ì | Ì | Latin capital letter I with grave |
| 205 |  | Í | Í | Í | Latin capital letter I with acute |
| 206 |  | Î | Î | Î | Latin capital letter I with circumflex |
| 207 |  | Ï | Ï | Ï | Latin capital letter I with diaeresis |
| 208 |  | Ð | Ð | Ð | Latin capital letter Eth |
| 209 |  | Ñ | Ñ | Ñ | Latin capital letter N with tilde |
| 210 |  | Ò | Ò | Ò | Latin capital letter O with grave |
| 211 |  | Ó | Ó | Ó | Latin capital letter O with acute |
| 212 |  | Ô | Ô | Ô | Latin capital letter O with circumflex |
| 213 |  | Õ | Õ | Õ | Latin capital letter O with tilde |
| 214 |  | Ö | Ö | Ö | Latin capital letter O with diaeresis |
| 215 |  | × | × | × | multiplication sign |
| 216 |  | Ø | Ø | Ø | Latin capital letter O with stroke |
| 217 |  | Ù | Ù | Ù | Latin capital letter U with grave |
| 218 |  | Ú | Ú | Ú | Latin capital letter U with acute |
| 219 |  | Û | Û | Û | Latin capital letter U with circumflex |
| 220 |  | Ü | Ü | Ü | Latin capital letter U with diaeresis |
| 221 |  | Ý | Ý | Ý | Latin capital letter Y with acute |
| 222 |  | Þ | Þ | Þ | Latin capital letter Thorn |
| 223 |  | ß | ß | ß | Latin small letter sharp s |
| 224 |  | à | à | à | Latin small letter a with grave |
| 225 |  | á | á | á | Latin small letter a with acute |
| 226 |  | â | â | â | Latin small letter a with circumflex |
| 227 |  | ã | ã | ã | Latin small letter a with tilde |
| 228 |  | ä | ä | ä | Latin small letter a with diaeresis |
| 229 |  | å | å | å | Latin small letter a with ring above |
| 230 |  | æ | æ | æ | Latin small letter ae |
| 231 |  | ç | ç | ç | Latin small letter c with cedilla |
| 232 |  | è | è | è | Latin small letter e with grave |
| 233 |  | é | é | é | Latin small letter e with acute |
| 234 |  | ê | ê | ê | Latin small letter e with circumflex |
| 235 |  | ë | ë | ë | Latin small letter e with diaeresis |
| 236 |  | ì | ì | ì | Latin small letter i with grave |
| 237 |  | í | í | í | Latin small letter i with acute |
| 238 |  | î | î | î | Latin small letter i with circumflex |
| 239 |  | ï | ï | ï | Latin small letter i with diaeresis |
| 240 |  | ð | ð | ð | Latin small letter eth |
| 241 |  | ñ | ñ | ñ | Latin small letter n with tilde |
| 242 |  | ò | ò | ò | Latin small letter o with grave |
| 243 |  | ó | ó | ó | Latin small letter o with acute |
| 244 |  | ô | ô | ô | Latin small letter o with circumflex |
| 245 |  | õ | õ | õ | Latin small letter o with tilde |
| 246 |  | ö | ö | ö | Latin small letter o with diaeresis |
| 247 |  | ÷ | ÷ | ÷ | division sign |
| 248 |  | ø | ø | ø | Latin small letter o with stroke |
| 249 |  | ù | ù | ù | Latin small letter u with grave |
| 250 |  | ú | ú | ú | Latin small letter u with acute |
| 251 |  | û | û | û | Latin small letter with circumflex |
| 252 |  | ü | ü | ü | Latin small letter u with diaeresis |
| 253 |  | ý | ý | ý | Latin small letter y with acute |
| 254 |  | þ | þ | þ | Latin small letter thorn |
| 255 |  | ÿ | ÿ | ÿ | Latin small letter y with diaeresis |

## The ASCII Character Set

ASCII uses the values from 0 to 31 (and 127) for control characters.

ASCII uses the values from 32 to 126 for letters, digits, and symbols.

ASCII does not use the values from 128 to 255.

## The ANSI Character Set (Windows-1252)

ANSI is identical to ASCII for the values from 0 to 127.

ANSI has a proprietary set of characters for the values from 128 to 159.

ANSI is identical to UTF-8 for the values from 160 to 255.

## The ISO-8859-1 Character Set

8859-1 is identical to ASCII for the values from 0 to 127.

8859-1 does not use the values from 128 to 159.

8859-1 is identical to UTF-8 for the values from 160 to 255.

## The UTF-8 Character Set

UTF-8 is identical to ASCII for the values from 0 to 127.

UTF-8 does not use the values from 128 to 159.

UTF-8 is identical to both ANSI and 8859-1 for the values from 160 to 255.

UTF-8 continues from the value 256 with more than 10 000 different characters.

For a closer look, study our [Complete HTML Character Set Reference](http://www.w3schools.com/charsets/default.asp).

# HTML Uniform Resource Locators

[« Previous](http://www.w3schools.com/html/html_charset.asp)

[Next Chapter »](http://www.w3schools.com/html/html_xhtml.asp)

A URL is another word for a web address.

A URL can be composed of words (w3schools.com), or an Internet Protocol (IP) address (192.68.20.50).

Most people enter the name when surfing, because names are easier to remember than numbers.

## URL - Uniform Resource Locator

Web browsers request pages from web servers by using a URL.

When you click on a link in an HTML page, an underlying <a> tag points to an address on the web.

A Uniform Resource Locator (URL) is used to address a document (or other data) on the web.

A web address, like <http://www.w3schools.com/html/default.asp> follows these syntax rules:

scheme://host.domain:port/path/filename

Explanation:

* **scheme** - defines the **type** of Internet service (most common is **http**)
* **host** - defines the **domain host** (default host for http is **www**)
* **domain** - defines the Internet **domain name** (w3schools.com)
* **port** - defines the **port number** at the host (default for http is **80**)
* **path** - defines a **path** at the server (If omitted: the root directory of the site)
* **filename** - defines the name of a document or resource

## Common URL Schemes

The table below lists some common schemes:

|  |  |  |
| --- | --- | --- |
| **Scheme** | **Short for** | **Used for** |
| http | HyperText Transfer Protocol | Common web pages. Not encrypted |
| https | Secure HyperText Transfer Protocol | Secure web pages. Encrypted |
| ftp | File Transfer Protocol | Downloading or uploading files |
| file |  | A file on your computer |

## URL Encoding

URLs can only be sent over the Internet using the [ASCII character-set](http://www.w3schools.com/charsets/ref_html_ascii.asp).

Since URLs often contain characters outside the ASCII set, the URL has to be converted into ASCII.

URL encoding converts characters into a format that can be transmitted over the Internet.

URL encoding replaces non ASCII characters with a "%" followed by hexadecimal digits.

URLs cannot contain spaces. URL encoding normally replaces a space with a plus (+) sign, or %20.

## Try It Yourself

Haut du formulaire



Bas du formulaire

Haut du formulaire

Bas du formulaire

If you click "Submit", the browser will URL encode the input before it is sent to the server.

A page at the server will display the received input.

Try some other input and click Submit again.

## ASCII Encoding Examples

Your browser will encode input, according to the character-set used in your page.

The default character-set in HTML5 is UTF-8.

|  |  |  |
| --- | --- | --- |
| **Character** | **From Windows-1252** | **From UTF-8** |
| € | %80 | %E2%82%AC |
| £ | %A3 | %C2%A3 |
| © | %A9 | %C2%A9 |
| ® | %AE | %C2%AE |
| À | %C0 | %C3%80 |
| Á | %C1 | %C3%81 |
| Â | %C2 | %C3%82 |
| Ã | %C3 | %C3%83 |
| Ä | %C4 | %C3%84 |
| Å | %C5 | %C3%85 |

For a complete reference of all URL encodings, visit our [URL Encoding Reference](http://www.w3schools.com/tags/ref_urlencode.asp).

# HTML and XHTML

[« Previous](http://www.w3schools.com/html/html_urlencode.asp)

[Next Chapter »](http://www.w3schools.com/html/html_forms.asp)

XHTML is HTML written as XML.

## What Is XHTML?

* XHTML stands for E**X**tensible **H**yper**T**ext **M**arkup **L**anguage
* XHTML is almost identical to HTML
* XHTML is stricter than HTML
* XHTML is HTML defined as an XML application
* XHTML is supported by all major browsers

## Why XHTML?

Many pages on the internet contain "bad" HTML.

This HTML code works fine in most browsers (even if it does not follow the HTML rules):

<html>  
<head>  
  <title>This is bad HTML</title>  
  
<body>  
  <h1>Bad HTML  
  <p>This is a paragraph  
</body>

Today's market consists of different browser technologies. Some browsers run on computers, and some browsers run on mobile phones or other small devices. Smaller devices often lack the resources or power to interpret "bad" markup.

XML is a markup language where documents must be marked up correctly (be "well-formed").

If you want to study XML, please read our [XML tutorial](http://www.w3schools.com/xml/default.asp).

By combining the strengths of HTML and XML, XHTML was developed.

XHTML is HTML redesigned as XML.

## The Most Important Differences from HTML:

### Document Structure

* XHTML DOCTYPE is **mandatory**
* The xmlns attribute in <html> is **mandatory**
* <html>, <head>, <title>, and <body> are **mandatory**

### XHTML Elements

* XHTML elements must be **properly nested**
* XHTML elements must always be **closed**
* XHTML elements must be in **lowercase**
* XHTML documents must have **one root element**

### XHTML Attributes

* Attribute names must be in **lower case**
* Attribute values must be **quoted**
* Attribute minimization is **forbidden**

## <!DOCTYPE ....> Is Mandatory

An XHTML document must have an XHTML DOCTYPE declaration.

A complete list of all the [XHTML Doctypes](http://www.w3schools.com/tags/tag_doctype.asp) is found in our HTML Tags Reference.

The <html>, <head>, <title>, and <body> elements must also be present, and the xmlns attribute in <html> must specify the xml namespace for the document.

This example shows an XHTML document with a minimum of required tags:

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"  
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">  
  
<html xmlns="http://www.w3.org/1999/xhtml">  
  
<head>  
  <title>Title of document</title>  
</head>  
  
<body>  
  some content   
</body>  
  
</html>

## XHTML Elements Must Be Properly Nested

In HTML, some elements can be improperly nested within each other, like this:

<b><i>This text is bold and italic</b></i>

In XHTML, all elements must be properly nested within each other, like this:

<b><i>This text is bold and italic</i></b>

## XHTML Elements Must Always Be Closed

This is wrong:

<p>This is a paragraph  
<p>This is another paragraph

This is correct:

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

## Empty Elements Must Also Be Closed

This is wrong:

A break: <br>  
A horizontal rule: <hr>  
An image: <img src="happy.gif" alt="Happy face">

This is correct:

A break: <br />  
A horizontal rule: <hr />  
An image: <img src="happy.gif" alt="Happy face" />

## XHTML Elements Must Be In Lower Case

This is wrong:

<BODY>  
<P>This is a paragraph</P>  
</BODY>

This is correct:

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

## XHTML Attribute Names Must Be In Lower Case

This is wrong:

<table WIDTH="100%">

This is correct:

<table width="100%">

## Attribute Values Must Be Quoted

This is wrong:

<table width=100%>

This is correct:

<table width="100%">

## Attribute Minimization Is Forbidden

Wrong:

<input type="checkbox" name="vehicle" value="car" checked />

Correct:

<input type="checkbox" name="vehicle" value="car" checked="checked" />

Wrong:

<input type="text" name="lastname" disabled />

Correct:

<input type="text" name="lastname" disabled="disabled" />

## How to Convert from HTML to XHTML

1. Add an XHTML <!DOCTYPE> to the first line of every page
2. Add an xmlns attribute to the html element of every page
3. Change all element names to lowercase
4. Close all empty elements
5. Change all attribute names to lowercase
6. Quote all attribute values

## Validate XHTML With The W3C Validator

Haut du formulaire

Put your web address in the box below:



Bas du formulaire

Haut du formulaire

Bas du formulaire

# HTML Forms

[« Previous](http://www.w3schools.com/html/html_xhtml.asp)

[Next Chapter »](http://www.w3schools.com/html/html_form_elements.asp)

## The <form> Element

HTML forms are used to collect user input.

The **<form>** element defines an HTML form:

<form>  
.  
*form elements*  
.  
</form>

HTML forms contain **form elements**.

Form elements are different types of input elements, checkboxes, radio buttons, submit buttons, and more.

## The <input> Element

The **<input>** element is the most important **form element**.

The <input> element has many variations, depending on the **type** attribute.

Here are the types used in this chapter:

|  |  |
| --- | --- |
| **Type** | **Description** |
| text | Defines normal text input |
| radio | Defines radio button input (for selecting one of many choices) |
| submit | Defines a submit button (for submitting the form) |

|  |  |
| --- | --- |
| **Note** | You will learn a lot more about input types later in this tutorial. |

## Text Input

**<input type="text">** defines a one-line input field for **text input**:

### Example

<form>  
  First name:<br>  
  <input type="text" name="firstname">  
  <br>  
  Last name:<br>  
  <input type="text" name="lastname">  
</form>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_form_text)

This is how it will look like in a browser:

First name:  
  
Last name:  


**Note:** The form itself is not visible. Also note that the default width of a text field is 20 characters.

## Radio Button Input

**<input type="radio">** defines a **radio button**.

Radio buttons let a user select ONE of a limited number of choices:

### Example

<form>  
  <input type="radio" name="sex" value="male" checked>Male  
  <br>  
  <input type="radio" name="sex" value="female">Female  
</form>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_form_radio)

This is how the HTML code above will be displayed in a browser:

Male   
Female

## The Submit Button

**<input type="submit">** defines a button for **submitting** a form to a **form-handler**.

The form-handler is typically a server page with a script for processing input data.

The form-handler is specified in the form's **action** attribute:

### Example

<form action="action\_page.php">  
  First name:<br>  
  <input type="text" name="firstname" value="Mickey">  
  <br>  
  Last name:<br>  
  <input type="text" name="lastname" value="Mouse">  
  <br><br>  
  <input type="submit" value="Submit">  
</form>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_form_submit)

This is how the HTML code above will be displayed in a browser:

Haut du formulaire

First name:  
  
Last name:  


Bas du formulaire

Haut du formulaire

Bas du formulaire

## The Action Attribute

The **action attribute** defines the action to be performed when the form is submitted.

The common way to submit a form to a server, is by using a submit button.

Normally, the form is submitted to a web page on a web server.

In the example above, a server-side script is specified to handle the submitted form:

<form **action="action\_page.php**">

If the action attribute is omitted, the action is set to the current page.

## The Method Attribute

The **method attribute** specifies the HTTP method (**GET** or **POST**) to be used when submitting the forms:

<form action="action\_page.php" **method="get"**>

or:

<form action="action\_page.php" **method="post"**>

## When to Use GET?

You can use GET (the default method):

If the form submission is passive (like a search engine query), and without sensitive information.

When you use GET, the form data will be visible in the page address:

action\_page.php?firstname=Mickey&lastname=Mouse

|  |  |
| --- | --- |
| **Note** | GET is best suited to short amounts of data. Size limitations are set in your browser. |

## When to Use POST?

You should use POST:

If the form is updating data, or includes sensitive information (password).

POST offers better security because the submitted data is not visible in the page address.

## The Name Attribute

To be submitted correctly, each input field must have a name attribute.

This example will only submit the "Last name" input field:

### Example

<form action="action\_page.php">  
  First name:<br>  
  <input type="text" value="Mickey">  
  <br>  
  Last name:<br>  
  <input type="text" name="lastname" value="Mouse">  
  <br><br>  
  <input type="submit" value="Submit">  
</form>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_form_submit_id)

## Grouping Form Data with <fieldset>

The **<fieldset>** element groups related data in a form.

The **<legend>** element defines a caption for the <fieldset> element.

### Example

<form action="action\_page.php">  
  <fieldset>  
    <legend>Personal information:</legend>  
    First name:<br>  
    <input type="text" name="firstname" value="Mickey">  
    <br>  
    Last name:<br>  
    <input type="text" name="lastname" value="Mouse">  
    <br><br>  
    <input type="submit" value="Submit">  
  </fieldset>  
</form>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_form_legend)

This is how the HTML code above will be displayed in a browser:

Haut du formulaire

Personal information: First name:  
  
Last name:  


Bas du formulaire

Haut du formulaire

Bas du formulaire

## HTML Form Attributes

An HTML <form> element, with all possible attributes set, will look like this:

<form action="action\_page.php" method="GET" target="\_blank" accept-charset="UTF-8"  
enctype="application/x-www-form-urlencoded" autocomplete="off" novalidate>  
.  
*form elements*  
.  
</form>

## Test Yourself with Exercises!

[Exercise 1 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_forms1)   [Exercise 2 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_forms2)   [Exercise 3 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_forms3)   [Exercise 4 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_forms4)

Here is the list of <form> attributes:

|  |  |
| --- | --- |
| **Attribute** | **Description** |
| accept-charset | Specifies the charset used in the submitted form (default: the page charset). |
| action | Specifies an address (url) where to submit the form (default: the submitting page). |
| autocomplete | Specifies if the browser should autocomplete the form (default: on). |
| enctype | Specifies the encoding of the submitted data (default: is url-encoded). |
| method | Specifies the HTTP method used when submitting the form (default: GET). |
| name | Specifies a name used to identify the form (for DOM usage: document.forms.name). |
| novalidate | Specifies that the browser should not validate the form. |
| target | Specifies the target of the address in the action attribute (default: \_self). |

|  |  |
| --- | --- |
| **Note** | You will learn more about attributes in the next chapters. |

## More Examples

[Send e-mail from a form](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_form_mail)  
How to send e-mail from a form.

# HTML Form Elements

[« Previous](http://www.w3schools.com/html/html_forms.asp)

[Next Chapter »](http://www.w3schools.com/html/html_form_input_types.asp)

This chapter describes all HTML form elements.

## The <input> Element

The most important form element is the **<input>** element.

The <input> element can vary in many ways, depending on the **type** attribute.

|  |  |
| --- | --- |
| **Note** | All HTML input types are covered in the next chapter. |

## The <select> Element (Drop-Down List)

The **<select>** element defines a **drop-down** list:

### Example

<select name="cars">  
  <option value="volvo">Volvo</option>  
  <option value="saab">Saab</option>  
  <option value="fiat">Fiat</option>  
  <option value="audi">Audi</option>  
</select>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_elem_select)

The **<option>** elements defines the options to select.

The list will normally show the first item as selected.

You can add a selected attribute to define a predefined option.

### Example

<option value="fiat" selected>Fiat</option>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_elem_select_pre)

## The <textarea> Element

The **<textarea>** element defines a multi-line input field (**a text area**):

### Example

<textarea name="message" rows="10" cols="30">  
The cat was playing in the garden.  
</textarea>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_elem_textarea)

This is how the HTML code above will be displayed in a browser:



## The <button> Element

The **<button>** element defines a clickable **button**:

### Example

<button type="button" onclick="alert('Hello World!')">Click Me!</button>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_elem_button)

This is how the HTML code above will be displayed in a browser:

## HTML5 Form Elements

HTML5 added the following form elements:

* <datalist>
* <keygen>
* <output>

|  |  |
| --- | --- |
| **Note** | By default, browsers do not display unknown elements. New elements will not destroy your page. |

## HTML5 <datalist> Element

The **<datalist>** element specifies a list of pre-defined options for an <input> element.

Users will see a drop-down list of pre-defined options as they input data.

The **list** attribute of the <input> element, must refer to the **id** attribute of the <datalist> element.

OperaSafariChromeFirefoxInternet Explorer

### Example

An <input> element with pre-defined values in a <datalist>:

<form action="action\_page.php">  
  <input list="browsers">  
  <datalist id="browsers">  
    <option value="Internet Explorer">  
    <option value="Firefox">  
    <option value="Chrome">  
    <option value="Opera">  
    <option value="Safari">  
  </datalist>   
</form>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_elem_datalist)

## HTML5 <keygen> Element

The purpose of the **<keygen>** element is to provide a secure way to authenticate users.

The <keygen> element specifies a key-pair generator field in a form.

When the form is submitted, two keys are generated, one private and one public.

The private key is stored locally, and the public key is sent to the server.

The public key could be used to generate a client certificate to authenticate the user in the future.

OperaSafariChromeFirefoxInternet Explorer

### Example

A form with a keygen field:

<form action="action\_page.php">  
  Username: <input type="text" name="user">  
  Encryption: <keygen name="security">  
  <input type="submit">  
</form>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_elem_keygen)

## HTML5 <output> Element

The <output> element represents the result of a calculation (like one performed by a script).

OperaSafariChromeFirefoxInternet Explorer

### Example

Perform a calculation and show the result in an <output> element:

<form action="action\_page.asp"  
  oninput="x.value=parseInt(a.value)+parseInt(b.value)">  
  0  
  <input type="range"  id="a" name="a" value="50">  
  100 +  
  <input type="number" id="b" name="b" value="50">  
  =  
  <output name="x" for="a b"></output>  
  <br><br>  
  <input type="submit">  
</form>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_elem_output)

## Test Yourself with Exercises!

[Exercise 1 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_form_elements1)   [Exercise 2 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_form_elements2)   [Exercise 3 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_form_elements3)

## HTML Form Elements

= new in HTML5.

|  |  |
| --- | --- |
| **Tag** | **Description** |
| [<form>](http://www.w3schools.com/tags/tag_form.asp) | Defines an HTML form for user input |
| [<input>](http://www.w3schools.com/tags/tag_input.asp) | Defines an input control |
| [<textarea>](http://www.w3schools.com/tags/tag_textarea.asp) | Defines a multiline input control (text area) |
| [<label>](http://www.w3schools.com/tags/tag_label.asp) | Defines a label for an <input> element |
| [<fieldset>](http://www.w3schools.com/tags/tag_fieldset.asp) | Groups related elements in a form |
| [<legend>](http://www.w3schools.com/tags/tag_legend.asp) | Defines a caption for a <fieldset> element |
| [<select>](http://www.w3schools.com/tags/tag_select.asp) | Defines a drop-down list |
| [<optgroup>](http://www.w3schools.com/tags/tag_optgroup.asp) | Defines a group of related options in a drop-down list |
| [<option>](http://www.w3schools.com/tags/tag_option.asp) | Defines an option in a drop-down list |
| [<button>](http://www.w3schools.com/tags/tag_button.asp) | Defines a clickable button |
| [<datalist>](http://www.w3schools.com/tags/tag_datalist.asp) | Specifies a list of pre-defined options for input controls |
| [<keygen>](http://www.w3schools.com/tags/tag_keygen.asp) | Defines a key-pair generator field (for forms) |
| [<output>](http://www.w3schools.com/tags/tag_output.asp) | Defines the result of a calculation |

# HTML Input Types

[« Previous](http://www.w3schools.com/html/html_form_elements.asp)

[Next Chapter »](http://www.w3schools.com/html/html_form_attributes.asp)

## Input Types

This chapter describes the input types of the <input> element.

## Input Type: text

**<input type="text">** defines a one-line input field for **text input**:

### Example

<form>  
First name:<br>  
<input type="text" name="firstname">  
<br>  
Last name:<br>  
<input type="text" name="lastname">  
</form>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_input_text)

This is how the HTML code above will be displayed in a browser:

First name:  
  
Last name:  


## Input Type: password

**<input type="password">** defines a **password field**:

### Example

<form>  
User name:<br>  
<input type="text" name="username">  
<br>  
User password:<br>  
<input type="password" name="psw">  
</form>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_input_password)

This is how the HTML code above will be displayed in a browser:

User name:  
  
User password:  


|  |  |
| --- | --- |
| **Note** | The characters in a password field are masked (shown as asterisks or circles). |

## Input Type: submit

**<input type="submit">** defines a button for **submitting** form input to a **form-handler**.

The form-handler is typically a server page with a script for processing input data.

The form-handler is specified in the form's action attribute:

### Example

<form action="action\_page.php">  
First name:<br>  
<input type="text" name="firstname" value="Mickey">  
<br>  
Last name:<br>  
<input type="text" name="lastname" value="Mouse">  
<br><br>  
<input type="submit" value="Submit">  
</form>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_input_submit)

This is how the HTML code above will be displayed in a browser:

Haut du formulaire

First name:  
  
Last name:  


Bas du formulaire

Haut du formulaire

Bas du formulaire

If you omit the submit button's value attribute, the button will get a default text:

### Example

<form action="action\_page.php">  
First name:<br>  
<input type="text" name="firstname" value="Mickey">  
<br>  
Last name:<br>  
<input type="text" name="lastname" value="Mouse">  
<br><br>  
<input type="submit">  
</form>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_input_submit_nn)

## Input Type: radio

**<input type="radio">** defines a **radio button**.

Radio buttons let a user select ONLY ONE of a limited number of choices:

### Example

<form>  
<input type="radio" name="sex" value="male" checked> Male  
<br>  
<input type="radio" name="sex" value="female"> Female  
</form>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_input_radio)

This is how the HTML code above will be displayed in a browser:

Male   
Female

## Input Type: checkbox

**<input type="checkbox">** defines a **checkbox**.

Checkboxes let a user select ZERO or MORE options of a limited number of choices.

### Example

<form>  
<input type="checkbox" name="vehicle1" value="Bike"> I have a bike  
<br>  
<input type="checkbox" name="vehicle2" value="Car"> I have a car   
</form>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_input_checkbox)

This is how the HTML code above will be displayed in a browser:

I have a bike   
I have a car

## Input Type: button

**<input type="button">** defines a **button**:

### Example

<input type="button" onclick="alert('Hello World!')" value="Click Me!">

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_input_button)

This is how the HTML code above will be displayed in a browser:

## HTML5 Input Types

HTML5 added several new input types:

* color
* date
* datetime
* datetime-local
* email
* month
* number
* range
* search
* tel
* time
* url
* week

|  |  |
| --- | --- |
| **Note** | Input types, not supported by old web browsers, will behave as input type text. |

## Input Type: number

The **<input type="number">** is used for input fields that should contain a numeric value.

You can set restrictions on the numbers.

Depending on browser support, the restrictions can apply to the input field.

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### Example

<form>  
  Quantity (between 1 and 5):  
  <input type="number" name="quantity" min="1" max="5">  
</form>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_input_number)

## Input Restrictions

Here is a list of some common input restrictions (some are new in HTML5):

|  |  |
| --- | --- |
| **Attribute** | **Description** |
| disabled | Specifies that an input field should be disabled |
| max | Specifies the maximum value for an input field |
| maxlength | Specifies the maximum number of character for an input field |
| min | Specifies the minimum value for an input field |
| pattern | Specifies a regular expression to check the input value against |
| readonly | Specifies that an input field is read only (cannot be changed) |
| required | Specifies that an input field is required (must be filled out) |
| size | Specifies the width (in characters) of an input field |
| step | Specifies the legal number intervals for an input field |
| value | Specifies the default value for an input field |

You will learn more about input restrictions in the next chapter.

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### Example

<form>  
  Quantity:  
  <input type="number" name="points" min="0" max="100" step="10" value="30">  
</form>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_input_number_step)

## Input Type: date

The **<input type="date">** is used for input fields that should contain a date.

Depending on browser support, a date picker can show up in the input field.

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### Example

<form>  
  Birthday:  
  <input type="date" name="bday">  
</form>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_input_date)

You can add restrictions to the input:

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### Example

<form>  
  Enter a date before 1980-01-01:  
  <input type="date" name="bday" max="1979-12-31"><br>  
  Enter a date after 2000-01-01:  
  <input type="date" name="bday" min="2000-01-02"><br>  
</form>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_input_date_max_min)

## Input Type: color

The **<input type="color">** is used for input fields that should contain a color.

Depending on browser support, a color picker can show up in the input field.

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### Example

<form>  
  Select your favorite color:  
  <input type="color" name="favcolor">  
</form>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_input_color)

## Input Type: range

The **<input type="range">** is used for input fields that should contain a value within a range.

Depending on browser support, the input field can be displayed as a slider control.

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### Example

<form>  
  <input type="range" name="points" min="0" max="10">  
</form>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_input_range)

You can use the following attributes to specify restrictions: min, max, step, value.

## Input Type: month

The **<input type="month">** allows the user to select a month and year.

Depending on browser support, a date picker can show up in the input field.

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### Example

<form>  
  Birthday (month and year):  
  <input type="month" name="bdaymonth">  
</form>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_input_month)

## Input Type: week

The **<input type="week">** allows the user to select a week and year.

Depending on browser support, a date picker can show up in the input field.

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### Example

<form>  
  Select a week:  
  <input type="week" name="week\_year">  
</form>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_input_week)

## Input Type: time

The **<input type="time">** allows the user to select a time (no time zone).

Depending on browser support, a time picker can show up in the input field.

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### Example

<form>  
  Select a time:  
  <input type="time" name="usr\_time">  
</form>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_input_time)

## Input Type: datetime

The **<input type="datetime">** allows the user to select a date and time (with time zone).

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### Example

<form>  
  Birthday (date and time):  
  <input type="datetime" name="bdaytime">  
</form>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_input_datetime)

|  |  |
| --- | --- |
| **Note** | The input type datetime is removed from the HTML standard. Use datetime-local instead. |

## Input Type: datetime-local

The **<input type="datetime-local">** allows the user to select a date and time (no time zone).

Depending on browser support, a date picker can show up in the input field.

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### Example

<form>  
  Birthday (date and time):  
  <input type="datetime-local" name="bdaytime">  
</form>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_input_datetime-local)

## Input Type: email

The **<input type="email">** is used for input fields that should contain an e-mail address.

Depending on browser support, the e-mail address can be automatically validated when submitted.

Some smartphones recognize the email type, and adds ".com" to the keyboard to match email input.

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### Example

<form>  
  E-mail:  
  <input type="email" name="email">  
</form>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_input_email)

## Input Type: search

The **<input type="search">** is used for search fields (a search field behaves like a regular text field).

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### Example

<form>  
  Search Google:  
  <input type="search" name="googlesearch">  
</form>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_input_search)

## Input Type: tel

The **<input type="tel">** is used for input fields that should contain a telephone number.

The tel type is currently supported only in Safari 8.

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### Example

<form>  
  Telephone:  
  <input type="tel" name="usrtel">  
</form>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_input_tel)

## Input Type: url

The **<input type="url">** is used for input fields that should contain a URL address.

Depending on browser support, the url field can be automatically validated when submitted.

Some smartphones recognize the url type, and adds ".com" to the keyboard to match url input.

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### Example

<form>  
  Add your homepage:  
  <input type="url" name="homepage">  
</form>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_input_url)

## Test Yourself with Exercises!

[Exercise 1 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_form_input_types1)    [Exercise 2 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_form_input_types2)    [Exercise 3 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_form_input_types3)    [Exercise 4 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_form_input_types4)    [Exercise 5 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_form_input_types5)

# HTML Input Attributes

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[Next Chapter »](http://www.w3schools.com/html/html5_intro.asp)

## The value Attribute

The **value** attribute specifies the initial value for an input field:

### Example

<form action="">  
First name:<br>  
<input type="text" name="firstname" value="John">  
<br>  
Last name:<br>  
<input type="text" name="lastname">  
</form>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_input_attributes_value)

## The readonly Attribute

The **readonly** attribute specifies that the input field is read only (cannot be changed):

### Example

<form action="">  
First name:<br>  
<input type="text" name="firstname" value="John" readonly>  
<br>  
Last name:<br>  
<input type="text" name="lastname">  
</form>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_input_attributes_readonly)

The readonly attribute does not need a value. It is the same as writing readonly="readonly".

## The disabled Attribute

The **disabled** attribute specifies that the input field is disabled.

A disabled element is un-usable and un-clickable.

Disabled elements will not be submitted.

### Example

<form action="">  
First name:<br>  
<input type="text" name="firstname" value="John" disabled>  
<br>  
Last name:<br>  
<input type="text" name="lastname">  
</form>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_input_attributes_disabled)

The disabled attribute does not need a value. It is the same as writing disabled="disabled".

## The size Attribute

The **size** attribute specifies the size (in characters) for the input field:

### Example

<form action="">  
First name:<br>  
<input type="text" name="firstname" value="John" size="40">  
<br>  
Last name:<br>  
<input type="text" name="lastname">  
</form>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_input_attributes_size)

## The maxlength Attribute

The **maxlength** attribute specifies the maximum allowed length for the input field:

### Example

<form action="">  
First name:<br>  
<input type="text" name="firstname" maxlength="10">  
<br>  
Last name:<br>  
<input type="text" name="lastname">  
</form>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_input_attributes_maxlength)

With a maxlength attribute, the input control will not accept more than the allowed number of characters.

The attribute does not provide any feedback. If you want to alert the user, you must write JavaScript code.

|  |  |
| --- | --- |
| **Note** | Input restrictions are not foolproof. JavaScript provides many ways to add illegal input. To safely restrict input, restrictions must be checked by the receiver (the server) as well. |

## HTML5 Attributes

HTML5 added the following attributes for <input>:

* autocomplete
* autofocus
* form
* formaction
* formenctype
* formmethod
* formnovalidate
* formtarget
* height and width
* list
* min and max
* multiple
* pattern (regexp)
* placeholder
* required
* step

and the following attributes for <form>:

* autocomplete
* novalidate

## The autocomplete Attribute

The autocomplete attribute specifies whether a form or input field should have autocomplete on or off.

When autocomplete is on, the browser automatically complete values based on values that the user has entered before.

**Tip:** It is possible to have autocomplete "on" for the form, and "off" for specific input fields, or vice versa.

The autocomplete attribute works with <form> and the following <input> types: text, search, url, tel, email, password, datepickers, range, and color.

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### Example

An HTML form with autocomplete on (and off for one input field):

<form action="action\_page.php" autocomplete="on">  
  First name:<input type="text" name="fname"><br>  
  Last name: <input type="text" name="lname"><br>  
  E-mail: <input type="email" name="email" autocomplete="off"><br>  
  <input type="submit">  
</form>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml5_input_autocomplete)

**Tip:** In some browsers you may need to activate the autocomplete function for this to work.

## The novalidate Attribute

The novalidate attribute is a <form> attribute.

When present, novalidate specifies that form data should not be validated when submitted.

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### Example

Indicates that the form is not to be validated on submit:

<form action="action\_page.php" novalidate>  
  E-mail: <input type="email" name="user\_email">  
  <input type="submit">  
</form>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml5_form_novalidate)

## The autofocus Attribute

The autofocus attribute is a boolean attribute.

When present, it specifies that an <input> element should automatically get focus when the page loads.

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### Example

Let the "First name" input field automatically get focus when the page loads:

First name:<input type="text" name="fname" autofocus>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml5_input_autofocus)

## The form Attribute

The form attribute specifies one or more forms an <input> element belongs to.

**Tip:** To refer to more than one form, use a space-separated list of form ids.

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### Example

An input field located outside the HTML form (but still a part of the form):

<form action="action\_page.php" id="form1">  
  First name: <input type="text" name="fname"><br>  
  <input type="submit" value="Submit">  
</form>  
  
Last name: <input type="text" name="lname" form="form1">

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml5_input_form)

## The formaction Attribute

The formaction attribute specifies the URL of a file that will process the input control when the form is submitted.

The formaction attribute overrides the action attribute of the <form> element.

The formaction attribute is used with type="submit" and type="image".

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### Example

An HTML form with two submit buttons, with different actions:

<form action="action\_page.php">  
  First name: <input type="text" name="fname"><br>  
  Last name: <input type="text" name="lname"><br>  
  <input type="submit" value="Submit"><br>  
  <input type="submit" formaction="demo\_admin.asp"  
  value="Submit as admin">  
</form>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml5_input_formaction)

## The formenctype Attribute

The formenctype attribute specifies how the form-data should be encoded when submitting it to the server (only for forms with method="post").

The formenctype attribute overrides the enctype attribute of the <form> element.

The formenctype attribute is used with type="submit" and type="image".

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### Example

Send form-data that is default encoded (the first submit button), and encoded as "multipart/form-data" (the second submit button):

<form action="demo\_post\_enctype.asp" method="post">  
  First name: <input type="text" name="fname"><br>  
  <input type="submit" value="Submit">  
  <input type="submit" formenctype="multipart/form-data"  
  value="Submit as Multipart/form-data">  
</form>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml5_input_formenctype)

## The formmethod Attribute

The formmethod attribute defines the HTTP method for sending form-data to the action URL.

The formmethod attribute overrides the method attribute of the <form> element.

The formmethod attribute can be used with type="submit" and type="image".

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### Example

The second submit button overrides the HTTP method of the form:

<form action="action\_page.php" method="get">  
  First name: <input type="text" name="fname"><br>  
  Last name: <input type="text" name="lname"><br>  
  <input type="submit" value="Submit">  
  <input type="submit" formmethod="post" formaction="demo\_post.asp"  
  value="Submit using POST">  
</form>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml5_input_formmethod)

## The formnovalidate Attribute

The novalidate attribute is a boolean attribute.

When present, it specifies that the <input> element should not be validated when submitted.

The formnovalidate attribute overrides the novalidate attribute of the <form> element.

The formnovalidate attribute can be used with type="submit".

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### Example

A form with two submit buttons (with and without validation):

<form action="action\_page.php">  
  E-mail: <input type="email" name="userid"><br>  
  <input type="submit" value="Submit"><br>  
  <input type="submit" formnovalidate value="Submit without validation">  
</form>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml5_input_formnovalidate)

## The formtarget Attribute

The formtarget attribute specifies a name or a keyword that indicates where to display the response that is received after submitting the form.

The formtarget attribute overrides the target attribute of the <form> element.

The formtarget attribute can be used with type="submit" and type="image".

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### Example

A form with two submit buttons, with different target windows:

<form action="action\_page.php">  
  First name: <input type="text" name="fname"><br>  
  Last name: <input type="text" name="lname"><br>  
  <input type="submit" value="Submit as normal">  
  <input type="submit" formtarget="\_blank"  
  value="Submit to a new window">  
</form>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml5_input_formtarget)

## The height and width Attributes

The height and width attributes specify the height and width of an <input> element.

The height and width attributes are only used with <input type="image">.

|  |  |
| --- | --- |
| **Note** | Always specify the size of images. If the browser does not know the size, the page will flicker while images load. |

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### Example

Define an image as the submit button, with height and width attributes:

<input type="image" src="img\_submit.gif" alt="Submit" width="48" height="48">

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml5_input_height_width)

## The list Attribute

The list attribute refers to a <datalist> element that contains pre-defined options for an <input> element.

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### Example

An <input> element with pre-defined values in a <datalist>:

<input list="browsers">  
  
<datalist id="browsers">  
  <option value="Internet Explorer">  
  <option value="Firefox">  
  <option value="Chrome">  
  <option value="Opera">  
  <option value="Safari">  
</datalist>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml5_datalist)

## The min and max Attributes

The min and max attributes specify the minimum and maximum value for an <input> element.

The min and max attributes work with the following input types: number, range, date, datetime, datetime-local, month, time and week.

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### Example

<input> elements with min and max values:

Enter a date before 1980-01-01:  
<input type="date" name="bday" max="1979-12-31">  
  
Enter a date after 2000-01-01:  
<input type="date" name="bday" min="2000-01-02">  
  
Quantity (between 1 and 5):  
<input type="number" name="quantity" min="1" max="5">

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml5_input_max_min)

## The multiple Attribute

The multiple attribute is a boolean attribute.

When present, it specifies that the user is allowed to enter more than one value in the <input> element.

The multiple attribute works with the following input types: email, and file.

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### Example

A file upload field that accepts multiple values:

Select images: <input type="file" name="img" multiple>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml5_input_multiple)

## The pattern Attribute

The pattern attribute specifies a regular expression that the <input> element's value is checked against.

The pattern attribute works with the following input types: text, search, url, tel, email, and password.

**Tip:** Use the global [title](http://www.w3schools.com/tags/att_global_title.asp) attribute to describe the pattern to help the user.

**Tip:** Learn more about [regular expressions](http://www.w3schools.com/js/js_regexp.asp) in our JavaScript tutorial.

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### Example

An input field that can contain only three letters (no numbers or special characters):

Country code: <input type="text" name="country\_code" pattern="[A-Za-z]{3}" title="Three letter country code">

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml5_input_pattern)

## The placeholder Attribute

The placeholder attribute specifies a hint that describes the expected value of an input field (a sample value or a short description of the format).

The hint is displayed in the input field before the user enters a value.

The placeholder attribute works with the following input types: text, search, url, tel, email, and password.

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### Example

An input field with a placeholder text:

<input type="text" name="fname" placeholder="First name">

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml5_input_placeholder)

## The required Attribute

The required attribute is a boolean attribute.

When present, it specifies that an input field must be filled out before submitting the form.

The required attribute works with the following input types: text, search, url, tel, email, password, date pickers, number, checkbox, radio, and file.

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### Example

A required input field:

Username: <input type="text" name="usrname" required>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml5_input_required)

## The step Attribute

The step attribute specifies the legal number intervals for an <input> element.

Example: if step="3", legal numbers could be -3, 0, 3, 6, etc.

**Tip:** The step attribute can be used together with the max and min attributes to create a range of legal values.

The step attribute works with the following input types: number, range, date, datetime, datetime-local, month, time and week.

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### Example

An input field with a specified legal number intervals:

<input type="number" name="points" step="3">

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml5_input_step)

## Test Yourself with Exercises!

[Exercise 1 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_form_attributes1)    [Exercise 2 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_form_attributes2)    [Exercise 3 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_form_attributes3)    [Exercise 4 »](http://www.w3schools.com/html/exercise.asp?filename=exercise_form_attributes4)

# HTML5 Introduction

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## What is New in HTML5?

The DOCTYPE declaration for HTML5 is very simple:

<!DOCTYPE html>

The character encoding (charset) declaration is also very simple:

<meta charset="UTF-8">

### HTML5 Example:

<!DOCTYPE html>  
<html>  
<head>  
<meta charset="UTF-8">  
<title>Title of the document</title>  
</head>  
  
<body>  
Content of the document......  
</body>  
  
</html>

|  |  |
| --- | --- |
| **Note** | The default character encoding in HTML5 is UTF-8. |

## New HTML5 Elements

The most interesting new elements are:

New **semantic** elements like <header>, <footer>, <article>, and <section>.

New form **control attributes** like number, date, time, calendar, and range.

New **graphic** elements: <svg> and <canvas>.

New **multimedia** elements: <audio> and <video>.

|  |  |
| --- | --- |
| **Note** | In the chapter [HTML5 Support](http://www.w3schools.com/html/html5_browsers.asp), you will learn how to "teach" old browsers to handle HTML5 semantic. |

## New HTML5 API's (Application Programming Interfaces)

The most interesting new API's are:

* HTML Geolocation
* HTML Drag and Drop
* HTML Local Storage
* HTML Application Cache
* HTML Web Workers
* HTML SSE

|  |  |
| --- | --- |
| **Note** | Local storage is a powerful replacement for cookies. |

## Elements Removed in HTML5

The following HTML4 elements have been removed from HTML5:

|  |  |
| --- | --- |
| **Element** | **Use instead** |
| <acronym> | <abbr> |
| <applet> | <object> |
| <basefont> | CSS |
| <big> | CSS |
| <center> | CSS |
| <dir> | <ul> |
| <font> | CSS |
| <frame> |  |
| <frameset> |  |
| <noframes> |  |
| <strike> | CSS |
| <tt> | CSS |

|  |  |
| --- | --- |
| **Note** | In the chapter [HTML5 Migration](http://www.w3schools.com/html/html5_migration.asp), you will learn how to easily migrate from HTML4 to HTML5. |

## HTML History

Since the early days of the web, there have been many versions of HTML:

|  |  |
| --- | --- |
| **Version** | **Year** |
| Tim Berners-Lee invented www | 1989 |
| Tim Berners-Lee invented HTML | 1991 |
| Dave Raggett drafted HTML+ | 1993 |
| HTML Working Group defined HTML 2.0 | 1995 |
| W3C Recommended HTML 3.2 | 1997 |
| W3C Recommended HTML 4.01 | 1999 |
| W3C Recommended XHTML 1.0 | 2000 |
| HTML5 WHATWG First Public Draft | 2008 |
| HTML5 WHATWG Living Standard | 2012 |
| HTML5 W3C Final Recommendation | 2014 |

Tim Berners-Lee invented the "World Wide Web" in 1989, and the Internet took off in the 1990s.

From 1991 to 1998, HTML developed from version 1 to version 4.

In 2000, the World Wide Web Consortium (W3C) recommended XHTML 1.0.

The XHTML syntax was strict, and the developers were forced to write valid and "well-formed" code.

In 2004, WHATWG (Web Hypertext Application Technology Working Group) was formed in response to slow W3C development, and W3C's decision to close down the development of HTML, in favor of XHTML.

WHATWG wanted to develop HTML, consistent with how the web was used, while being backward compatible with older versions of HTML.

In the period 2004-2006, the WHATWG initiative gained support by the major browser vendors.

In 2006, W3C announced that they would support WHATWG.

In 2008, the first HTML5 public draft was released.

In 2012, WHATWG and W3C decided on a separation:

**WHATWG will develop HTML as a "Living Standard"**.

A living standard is never fully complete, but always updated and improved. New features can be added, but old functionality can not be removed.

The [WHATWG Living Standard](http://whatwg.org/html/) was published in 2012, and is continuously updated.

**W3C will develop a definitive HTML5 and XHTML5 standard**, as a "snapshot" of WHATWG.

The [W3C HTML5 recommendation](http://www.w3.org/TR/html/) was released 28 October 2014.

# HTML5 Browser Support

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You can teach older browsers to handle HTML5 correctly.

## HTML5 Browser Support

HTML5 is supported in all modern browsers.

In addition, all browsers, old and new, automatically handle unrecognized elements as inline elements.

Because of this, you can "teach" older browsers to handle "unknown" HTML elements.

|  |  |
| --- | --- |
| **Note** | You can even teach IE6 (Windows XP 2001) how to handle unknown HTML elements. |

## Define HTML5 Elements as Block Elements

HTML5 defines eight new **semantic** HTML elements. All these are **block-level** elements.

To secure correct behavior in older browsers, you can set the CSS **display** property to **block**:

header, section, footer, aside, nav, main, article, figure {  
    display: block;   
}

## Adding New Elements to HTML

You can also add any new element to HTML with a browser trick.

This example adds a new element called **<myHero>** to HTML, and defines a display style for it:

### Example

<!DOCTYPE html>  
<html>  
<head>  
  <title>Creating an HTML Element</title>  
  <script>document.createElement("myHero")</script>  
  <style>  
  myHero {  
      display: block;  
      background-color: #ddd;  
      padding: 50px;  
      font-size: 30px;  
  }   
  </style>   
</head>  
<body>  
  
<h1>My First Heading</h1>  
  
<p>My first paragraph.</p>  
  
<myHero>My First Hero</myHero>  
  
</body>  
</html>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml5_browsers_myhero)

The JavaScript statement **document.createElement("myHero")** is added, only to satisfy IE.

## Problem With Internet Explorer

You could use the solution described above, for all new HTML5 elements, but:

|  |  |
| --- | --- |
| **Note** | Internet Explorer 8 and earlier, does not allow styling of unknown elements. |

Thankfully, Sjoerd Visscher created the "HTML5 Enabling JavaScript", "**the shiv**":

<!--[if lt IE 9]>  
  <script src="http://html5shiv.googlecode.com/svn/trunk/html5.js"></script>  
<![endif]-->

The code above is a comment, but versions previous to IE9 will read it (and understand it).

## The Complete Shiv Solution

### Example

<!DOCTYPE html>  
<html>  
<head>  
  <title>Styling HTML5</title>  
  <!--[if lt IE 9]>  
  <script src="http://html5shiv.googlecode.com/svn/trunk/html5.js"></script>  
  <![endif]-->  
</head>  
<body>  
  
<h1>My First Article</h1>  
  
<article>  
London is the capital city of England. It is the most populous city in the United Kingdom, with a metropolitan area of over 13 million inhabitants.  
</article>  
  
</body>  
</html>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml5_browsers_theshiv)

The link to the shiv code must be placed in the <head> element, because Internet Explorer needs to know about all new elements before reading them.

## An HTML5 Skeleton

### Example

<!DOCTYPE html>  
<html lang="en">  
<head>  
<title>HTML5 Skeleton</title>  
<meta charset="utf-8">  
  
<!--[if lt IE 9]>  
<script src="http://html5shiv.googlecode.com/svn/trunk/html5.js">  
</script>  
<![endif]-->  
  
<style>  
body {font-family: Verdana, sans-serif; font-size:0.8em;}  
header,nav, section,article,footer  
{border:1px solid grey; margin:5px; padding:8px;}  
nav ul {margin:0; padding:0;}  
nav ul li {display:inline; margin:5px;}  
</style>  
</head>  
<body>  
  
<header>  
  <h1>HTML5 SKeleton</h1>  
</header>  
  
<nav>  
<ul>  
  <li><a href="html5\_semantic\_elements.asp">HTML5 Semantic</a></li>  
  <li><a href="html5\_geolocation.asp">HTML5 Geolocation</a></li>  
  <li><a href="html5\_canvas.asp">HTML5 Graphics</a></li>  
</ul>  
</nav>  
  
<section>  
  
<h1>Famous Cities</h1>  
  
<article>  
<h2>London</h2>  
<p>London is the capital city of England. It is the most populous city in the United Kingdom,  
with a metropolitan area of over 13 million inhabitants.</p>  
</article>  
  
<article>  
<h2>Paris</h2>  
<p>Paris is the capital and most populous city of France.</p>  
</article>  
  
<article>  
<h2>Tokyo</h2>  
<p>Tokyo is the capital of Japan, the center of the Greater Tokyo Area,  
and the most populous metropolitan area in the world.</p>  
</article>  
  
</section>  
  
<footer>  
<p>&copy; 2014 W3Schools. All rights reserved.</p>  
</footer>  
  
</body>  
</html>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml5_html5_skeleton)

# HTML5 New Elements

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## New Elements in HTML5

Below is a list of the new HTML5 elements, and a description of what they are used for.

## New Semantic/Structural Elements

HTML5 offers new elements for better document structure:

|  |  |
| --- | --- |
| **Tag** | **Description** |
| <article> | Defines an article in the document |
| <aside> | Defines content aside from the page content |
| <bdi> | Defines a part of text that might be formatted in a different direction from other text |
| <details> | Defines additional details that the user can view or hide |
| <dialog> | Defines a dialog box or window |
| <figcaption> | Defines a caption for a <figure> element |
| <figure> | Defines self-contained content, like illustrations, diagrams, photos, code listings, etc. |
| <footer> | Defines a footer for the document or a section |
| <header> | Defines a header for the document or a section |
| <main> | Defines the main content of a document |
| <mark> | Defines marked or highlighted text |
| <menuitem> | Defines a command/menu item that the user can invoke from a popup menu |
| <meter> | Defines a scalar measurement within a known range (a gauge) |
| <nav> | Defines navigation links in the document |
| <progress> | Defines the progress of a task |
| <rp> | Defines what to show in browsers that do not support ruby annotations |
| <rt> | Defines an explanation/pronunciation of characters (for East Asian typography) |
| <ruby> | Defines a ruby annotation (for East Asian typography) |
| <section> | Defines a section in the document |
| <summary> | Defines a visible heading for a <details> element |
| <time> | Defines a date/time |
| <wbr> | Defines a possible line-break |

Read more about [HTML5 Semantics](http://www.w3schools.com/html/html5_semantic_elements.asp).

## New Form Elements

|  |  |
| --- | --- |
| **Tag** | **Description** |
| <datalist> | Defines pre-defined options for input controls |
| <keygen> | Defines a key-pair generator field (for forms) |
| <output> | Defines the result of a calculation |

Read all about old and new form elements in [HTML Form Elements](http://www.w3schools.com/html/html_form_elements.asp).

## New Input Types

|  |  |
| --- | --- |
| **New Input Types** | **New Input Attributes** |
| * color * date * datetime * datetime-local * email * month * number * range * search * tel * time * url * week | * autocomplete * autofocus * form * formaction * formenctype * formmethod * formnovalidate * formtarget * height and width * list * min and max * multiple * pattern (regexp) * placeholder * required * step |

Learn all about old and new input types in [HTML Input Types](http://www.w3schools.com/html/html_form_input_types.asp).

Learn all about input attributes in [HTML Input Attributes](http://www.w3schools.com/html/html_form_attributes.asp).

## HTML5 - New Attribute Syntax

HTML5 allows four different syntaxes for attributes.

This example demonstrates the different syntaxes used in an <input> tag:

|  |  |
| --- | --- |
| **Type** | **Example** |
| Empty | <input type="text" value="John" **disabled**> |
| Unquoted | <input type="text" **value=John**> |
| Double-quoted | <input type="text" **value="John Doe"**> |
| Single-quoted | <input type="text" **value='John Doe'**> |

In HTML5, all four syntaxes may be used, depending on what is needed for the attribute.

## HTML5 Graphics

|  |  |
| --- | --- |
| **Tag** | **Description** |
| <canvas> | Defines graphic drawing using JavaScript |
| <svg> | Defines graphic drawing using SVG |

Read more about [HTML5 Canvas](http://www.w3schools.com/html/html5_canvas.asp).

Read more about [HTML5 SVG](http://www.w3schools.com/html/html5_svg.asp).

## New Media Elements

|  |  |
| --- | --- |
| **Tag** | **Description** |
| <audio> | Defines sound or music content |
| <embed> | Defines containers for external applications (like plug-ins) |
| <source> | Defines sources for <video> and <audio> |
| <track> | Defines tracks for <video> and <audio> |
| <video> | Defines video or movie content |

Read more about [HTML5 Video](http://www.w3schools.com/html/html5_video.asp).

Read more about [HTML5 Audio](http://www.w3schools.com/html/html5_audio.asp).

# HTML5 Semantic Elements

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Semantics is the study of the meanings of words and phrases in language.

Semantic elements are elements with a meaning.

## What are Semantic Elements?

A semantic element clearly describes its meaning to both the browser and the developer.

Examples of **non-semantic** elements: <div> and <span> - Tells nothing about its content.

Examples of **semantic** elements: <form>, <table>, and <img> - Clearly defines its content.

## Browser Support

Internet ExplorerFirefoxOperaGoogle ChromeSafari

HTML5 semantic elements are supported in all modern browsers.

In addition, you can "teach" older browsers how to handle "unknown elements".

Read about it in [HTML5 Browser Support](http://www.w3schools.com/html/html5_browsers.asp).

## New Semantic Elements in HTML5

Many web sites contain HTML code like: <div id="nav"> <div class="header"> <div id="footer">  
to indicate navigation, header, and footer.

HTML5 offers new semantic elements to define different parts of a web page:

* <article>
* <aside>
* <details>
* <figcaption>
* <figure>
* <footer>
* <header>
* <main>
* <mark>
* <nav>
* <section>
* <summary>
* <time>



## HTML5 <section> Element

The <section> element defines a section in a document.

According to W3C's HTML5 documentation: "A section is a thematic grouping of content, typically with a heading."

A Web site's home page could be split into sections for introduction, content, and contact information.

### Example

<section>  
  <h1>WWF</h1>  
  <p>The World Wide Fund for Nature (WWF) is....</p>  
</section>

[Try it yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml5_section)

## HTML5 <article> Element

The <article> element specifies independent, self-contained content.

An article should make sense on its own, and it should be possible to read it independently from the rest of the web site.

Examples of where an <article> element can be used:

* Forum post
* Blog post
* Newspaper article

### Example

<article>  
  <h1>What Does WWF Do?</h1>  
  <p>WWF's mission is to stop the degradation of our planet's natural environment,  
  and build a future in which humans live in harmony with nature.</p>  
</article>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml5_article)

## Nesting Semantic Elements

In the HTML5 standard, the <article> element defines a complete, self-contained block of related elements.

The <section> element is defined as a block of related elements.

Can we use the definitions to decide how to nest elements? No, we cannot!

On the Internet, you will find HTML pages with <section> elements containing <article> elements, and <article> elements containing <sections> elements.

You will also find pages with <section> elements containing <section> elements, and <article> elements containing <article> elements.

|  |  |
| --- | --- |
| **Note** | Newspaper: The sports **articles** in the sports **section**, have a technical **section** in each **article**. |

## HTML5 <header> Element

The <header> element specifies a header for a document or section.

The <header> element should be used as a container for introductory content.

You can have several <header> elements in one document.

The following example defines a header for an article:

### Example

<article>  
  <header>  
    <h1>What Does WWF Do?</h1>  
    <p>WWF's mission:</p>  
  </header>  
  <p>WWF's mission is to stop the degradation of our planet's natural environment,  
  and build a future in which humans live in harmony with nature.</p>  
</article>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml5_header)

## HTML5 <footer> Element

The <footer> element specifies a footer for a document or section.

A <footer> element should contain information about its containing element.

A footer typically contains the author of the document, copyright information, links to terms of use, contact information, etc.

You can have several <footer> elements in one document.

### Example

<footer>  
  <p>Posted by: Hege Refsnes</p>  
  <p>Contact information: <a href="mailto:someone@example.com">  
  someone@example.com</a>.</p>  
</footer>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml5_footer)

## HTML5 <nav> Element

The <nav> element defines a set of navigation links.

The <nav> element is intended for large blocks of navigation links. However, not all links in a document should be inside a <nav> element!

### Example

<nav>  
  <a href="/html/">HTML</a> |  
  <a href="/css/">CSS</a> |  
  <a href="/js/">JavaScript</a> |  
  <a href="/jquery/">jQuery</a>  
</nav>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml5_nav)

## HTML5 <aside> Element

The <aside> element defines some content aside from the content it is placed in (like a sidebar).

The aside content should be related to the surrounding content.

### Example

<p>My family and I visited The Epcot center this summer.</p>  
  
<aside>  
  <h4>Epcot Center</h4>  
  <p>The Epcot Center is a theme park in Disney World, Florida.</p>  
</aside>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml5_aside)

## HTML5 <figure> and <figcaption> Elements

In books and newspapers, it is common to have captions with images.

The purpose of a caption is to add a visual explanation to an image.

With HTML5, images and captions can be grouped together in **<figure>** elements:

### Example

<figure>  
  <img src="pic\_mountain.jpg" alt="The Pulpit Rock" width="304" height="228">  
  <figcaption>Fig1. - The Pulpit Rock, Norway.</figcaption>  
</figure>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml5_figcaption)

The **<img>** element defines the image, the **<figcaption>** element defines the caption.

## Why Semantic HTML5 Elements?

With HTML4, developers used their own favorite attribute names to style page elements:

header, top, bottom, footer, menu, navigation, main, container, content, article, sidebar, topnav, ...

This made it impossible for search engines to identify the correct web page content.

With HTML5 elements like: <header> <footer> <nav> <section> <article>, this will become easier.

According to the W3C, a Semantic Web:

"Allows data to be shared and reused across applications, enterprises, and communities."

## Semantic Elements in HTML5

Below is an alphabetical list of the new semantic elements in HTML5.

The links go to our complete [HTML5 Reference](http://www.w3schools.com/tags/default.asp).

|  |  |
| --- | --- |
| **Tag** | **Description** |
| [<article>](http://www.w3schools.com/tags/tag_article.asp) | Defines an article |
| [<aside>](http://www.w3schools.com/tags/tag_aside.asp) | Defines content aside from the page content |
| [<details>](http://www.w3schools.com/tags/tag_details.asp) | Defines additional details that the user can view or hide |
| [<figcaption>](http://www.w3schools.com/tags/tag_figcaption.asp) | Defines a caption for a <figure> element |
| [<figure>](http://www.w3schools.com/tags/tag_figure.asp) | Specifies self-contained content, like illustrations, diagrams, photos, code listings, etc. |
| [<footer>](http://www.w3schools.com/tags/tag_footer.asp) | Defines a footer for a document or section |
| [<header>](http://www.w3schools.com/tags/tag_header.asp) | Specifies a header for a document or section |
| [<main>](http://www.w3schools.com/tags/tag_main.asp) | Specifies the main content of a document |
| [<mark>](http://www.w3schools.com/tags/tag_mark.asp) | Defines marked/highlighted text |
| [<nav>](http://www.w3schools.com/tags/tag_nav.asp) | Defines navigation links |
| [<section>](http://www.w3schools.com/tags/tag_section.asp) | Defines a section in a document |
| [<summary>](http://www.w3schools.com/tags/tag_summary.asp) | Defines a visible heading for a <details> element |
| [<time>](http://www.w3schools.com/tags/tag_time.asp) | Defines a date/time |

# HTML5 Migration

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[Next Chapter »](http://www.w3schools.com/html/html5_syntax.asp)

## Migration from HTML4 to HTML5

This chapter is entirely about how to **migrate** from a typical **HTML4** page to a typical **HTML5** page.

This chapter demonstrates how to convert an HTML4 page into an HTML5 page, without destroying anything of the original content or structure.

|  |  |
| --- | --- |
| **Note** | You can migrate to HTML5 from HTML4 or XHTML, using the same recipe.. |

|  |  |
| --- | --- |
| **Typical HTML4** | **Typical HTML5** |
| <div id="header"> | <header> |
| <div id="menu"> | <nav> |
| <div id="content"> | <section> |
| <div id="post"> | <article> |
| <div id="footer"> | <footer> |

## A Typical HTML4 Page

### Example

<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">  
<html lang="en">  
<head>  
<meta http-equiv="Content-Type" content="text/html;charset=utf-8">  
<title>HTML4</title>  
<style>  
  body {font-family:Verdana,sans-serif;font-size:0.8em;}  
  div#header,div#footer,div#content,div#post   
  {border:1px solid grey;margin:5px;margin-bottom:15px;padding:8px;background-color:white;}  
  div#header,div#footer {color:white;background-color:#444;margin-bottom:5px;}  
  div#content {background-color:#ddd;}  
  div#menu ul {margin:0;padding:0;}  
  div#menu ul li {display:inline; margin:5px;}  
</style>  
</head>  
<body>  
  
<div id="header">  
  <h1>Monday Times</h1>  
</div>  
  
<div id="menu">  
  <ul>  
    <li>News</li>  
    <li>Sports</li>  
    <li>Weather</li>  
  </ul>  
</div>  
  
<div id="content">  
<h2>News Section</h2>  
  
<div id="post">  
  <h2>News Article</h2>  
  <p>Ipsum lurum hurum turum ipsum lurum hurum turum ipsum lurum hurum turum ipsum   
  lurum hurum turum.</p>  
  <p>Ipsum lurum hurum turum ipsum lurum hurum turum ipsum lurum hurum turum ipsum   
  lurum hurum turum.</p>  
</div>  
  
<div id="post">  
  <h2>News Article</h2>  
  <p>Ipsum lurum hurum turum ipsum lurum hurum turum ipsum lurum hurum turum ipsum   
  lurum hurum turum.</p>  
  <p>Ipsum lurum hurum turum ipsum lurum hurum turum ipsum lurum hurum turum ipsum   
  lurum hurum turum.</p>  
</div>  
  
</div>  
  
<div id="footer">  
  <p>&amp;copy; 2014 Monday Times. All rights reserved.</p>  
</div>  
  
</body>  
</html>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_html4_skeleton)

## Change to HTML5 Doctype

Change the **doctype**, from the HTML4 doctype:

<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

to the HTML5 doctype:

### Example

<!DOCTYPE html>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_html5_skeleton_1)

## Change to HTML5 Encoding

Change the **encoding** information, from HTML4:

<meta http-equiv="Content-Type" content="text/html;charset=utf-8">

to HTML5:

### Example

<meta charset="utf-8">

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_html5_skeleton_2)

## Add The Shiv

HTML5 semantic elements are supported in all modern browsers.

In addition, you can "teach" older browsers how to handle "unknown elements".

Add **the shiv** for Internet Explorer support:

### Example

<!--[if lt IE 9]>  
  <script src="http://html5shiv.googlecode.com/svn/trunk/html5.js"></script>  
<![endif]-->

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_html5_skeleton_3)

|  |  |
| --- | --- |
| **Note** | Read about **the shiv** in [HTML5 Browser Support](http://www.w3schools.com/html/html5_browsers.asp). |

## Add CSS for HTML5 Semantic Elements

Look at your existing CSS styles:

div#header,div#footer,div#content,div#post {  
    border:1px solid grey;margin:5px;margin-bottom:15px;padding:8px;background-color:white;  
}  
div#header,div#footer {  
    color:white;background-color:#444;margin-bottom:5px;  
}  
div#content {  
    background-color:#ddd;  
}  
div#menu ul {  
    margin:0;padding:0;  
}  
div#menu ul li {  
    display:inline; margin:5px;  
}

Duplicate with equal CSS styles for HTML5 semantic elements:

### Example

header,footer,section,article {  
    border:1px solid grey;margin:5px;margin-bottom:15px;padding:8px;background-color:white;  
}  
header,footer {  
    color:white;background-color:#444;margin-bottom:5px;  
}  
section {  
    background-color:#ddd;  
}  
nav ul  {  
    margin:0;padding:0;  
}  
nav ul li {  
    display:inline; margin:5px;  
}

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_html5_skeleton_4)

## Change to HTML5 <header> and <footer>

Change the <div> elements with **id="header"** and **id="footer"**:

<div id="header">  
  <h1>Monday Times</h1>  
</div>  
.  
.  
.  
<div id="footer">  
  <p>&amp;copy; 2014 W3Schools. All rights reserved.</p>  
</div>

to HTML5 semantic **<header>** and **<footer>** elements:

### Example

<header>  
  <h1>Monday Times</h1>  
</header>  
.  
.  
.  
<footer>  
  <p>&copy; 2014 W3Schools. All rights reserved.</p>  
</footer>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_html5_skeleton_5)

## Change to HTML5 <nav>

Change the <div> element with **id="menu"**:

<div id="menu">  
  <ul>  
    <li>News</li>  
    <li>Sports</li>  
    <li>Weather</li>  
  </ul>  
</div>

to an HTML5 semantic **<nav>** element:

### Example

<nav>  
  <ul>  
    <li>News</li>  
    <li>Sports</li>  
    <li>Weather</li>  
  </ul>  
</nav>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_html5_skeleton_6)

## Change to HTML5 <section>

Change the <div> element with **id="content"**:

<div id="content">  
.  
.  
.  
</div>

to an HTML5 semantic **<section>** element:

### Example

<section>  
.  
.  
.  
</section>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_html5_skeleton_7)

## Change to HTML5 <article>

Change all <div> element with **class="post"**:

<div class="post">  
  <h2>News Article</h2>  
  <p>Ipsum lurum hurum turum ipsum lurum hurum turum ipsum lurum hurum turum ipsum   
  lurum hurum turum.</p>  
</div>

to HTML5 semantic **<article>** elements:

### Example

<article>  
  <h2>News Article</h2>  
  <p>Ipsum lurum hurum turum ipsum lurum hurum turum ipsum lurum hurum turum ipsum   
  lurum hurum turum.</p>  
</article>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_html5_skeleton_8)

Remove these "no longer needed" <style> elements:

### Example

div#header,div#footer,div#content,div#post {  
    border:1px solid grey;margin:5px;margin-bottom:15px;padding:8px;background-color:white;  
}  
div#header,div#footer {  
    color:white;background-color:#444;margin-bottom:5px;  
}  
div#content {  
    background-color:#ddd;  
}  
div#menu ul {  
    margin:0;padding:0;  
}  
div#menu ul li {  
    display:inline; margin:5px;  
}

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_html5_skeleton_9)

## A Typical HTML5 Page

Finally you can remove the <head> tags. They are not needed in HTML5:

### Example

<!DOCTYPE html>  
<html lang="en">  
<title>HTML5</title>  
<meta charset="utf-8">  
  
<!--[if lt IE 9]>  
<script src="http://html5shiv.googlecode.com/svn/trunk/html5.js">  
</script>  
<![endif]-->  
  
<style>  
body {  
    font-family:Verdana,sans-serif;font-size:0.8em;  
}  
header,footer,section,article {  
    border:1px solid grey;  
    margin:5px;margin-bottom:15px;padding:8px;  
    background-color:white;  
}  
header,footer {  
    color:white;background-color:#444;margin-bottom:5px;  
}  
section {  
    background-color:#ddd;  
}  
nav ul {  
    margin:0;padding:0;  
}  
nav ul li {  
    display:inline; margin:5px;  
}  
</style>  
<body>  
  
<header>  
  <h1>Monday Times</h1>  
</header>  
  
<nav>  
  <ul>  
    <li>News</li>  
    <li>Sports</li>  
    <li>Weather</li>  
  </ul>  
</nav>  
  
<section>  
<h2>News Section</h2>  
  
<article>  
  <h2>News Article</h2>  
  <p>Ipsum lurum hurum turum ipsum lurum hurum turum ipsum lurum hurum turum ipsum   
  lurum hurum turum.</p>  
  <p>Ipsum lurum hurum turum ipsum lurum hurum turum ipsum lurum hurum turum ipsum   
  lurum hurum turum.</p>  
  <p>Ipsum lurum hurum turum ipsum lurum hurum turum ipsum lurum hurum turum ipsum   
  lurum hurum turum.</p>  
</article>  
  
<article>  
<h2>News Article</h2>  
  <p>Ipsum lurum hurum turum ipsum lurum hurum turum ipsum lurum hurum turum ipsum   
  lurum hurum turum.</p>  
  <p>Ipsum lurum hurum turum ipsum lurum hurum turum ipsum lurum hurum turum ipsum   
  lurum hurum turum.</p>  
  <p>Ipsum lurum hurum turum ipsum lurum hurum turum ipsum lurum hurum turum ipsum   
  lurum hurum turum.</p>  
</article>  
  
</section>  
  
<footer>  
  <p>&amp;copy; 2014 Monday Times. All rights reserved.</p>  
</footer>  
  
</body>  
</html>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_html5_skeleton)

## The Difference Between <article> <section> and <div>

There is a confusing (lack of) difference in the HTML5 standard, between <article> <section> and <div>.

In the HTML5 standard, the <section> element is defined as a block of related elements.

The <article> element is defined as a complete, self-contained block of related elements.

The <div> element is defined as a block of children elements.

How to interpret that?

In the example above, we have used <section> as a container for related <articles>.

But, we could have used <article> as a container for articles as well.

Here are some different examples:

### <article> in <article>:

<article>  
  
<h2>Famous Cities</h2>  
  
<article>  
<h2>London</h2>  
<p>London is the capital city of England. It is the most populous city in the United Kingdom,  
with a metropolitan area of over 13 million inhabitants.</p>  
</article>  
  
<article>  
<h2>Paris</h2>  
<p>Paris is the capital and most populous city of France.</p>  
</article>  
  
<article>  
<h2>Tokyo</h2>  
<p>Tokyo is the capital of Japan, the center of the Greater Tokyo Area,  
and the most populous metropolitan area in the world.</p>  
</article>  
  
</article>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml5_html5_skeleton_2)

### <div> in <article>:

<article>  
  
<h2>Famous Cities</h2>  
  
<div class="city">  
<h2>London</h2>  
<p>London is the capital city of England. It is the most populous city in the United Kingdom,  
with a metropolitan area of over 13 million inhabitants.</p>  
</div>  
  
<div class="city">  
<h2>Paris</h2>  
<p>Paris is the capital and most populous city of France.</p>  
</div>  
  
<div class="city">  
<h2>Tokyo</h2>  
<p>Tokyo is the capital of Japan, the center of the Greater Tokyo Area,  
and the most populous metropolitan area in the world.</p>  
</div>  
  
</article>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml5_html5_skeleton_3)

### <div> in <section> in <article>:

<article>  
  
<section>  
<h2>Famous Cities</h2>  
  
<div class="city">  
<h2>London</h2>  
<p>London is the capital city of England. It is the most populous city in the United Kingdom,  
with a metropolitan area of over 13 million inhabitants.</p>  
</div>  
  
<div class="city">  
<h2>Paris</h2>  
<p>Paris is the capital and most populous city of France.</p>  
</div>  
  
<div class="city">  
<h2>Tokyo</h2>  
<p>Tokyo is the capital of Japan, the center of the Greater Tokyo Area,  
and the most populous metropolitan area in the world.</p>  
</div>  
</section>  
  
<section>  
<h2>Famous Countries</h2>  
  
<div class="country">  
<h2>England</h2>  
<p>London is the capital city of England. It is the most populous city in the United Kingdom,  
with a metropolitan area of over 13 million inhabitants.</p>  
</div>  
  
<div class="country">  
<h2>France</h2>  
<p>Paris is the capital and most populous city of France.</p>  
</div>  
  
<div class="country">  
<h2>Japan</h2>  
<p>Tokyo is the capital of Japan, the center of the Greater Tokyo Area,  
and the most populous metropolitan area in the world.</p>  
</div>  
</section>  
  
</article>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml5_html5_skeleton_4)

# HTML(5) Style Guide and Coding Conventions

[« Previous](http://www.w3schools.com/html/html5_migration.asp)

[Next Chapter »](http://www.w3schools.com/html/html5_canvas.asp)

## HTML Coding Conventions

Web developers are often uncertain about the coding style and syntax to use in HTML.

Between 2000 and 2010, many web developers converted from HTML to XHTML.

With XHTML, developers were forced to write valid and "well-formed" code.

HTML5 is a bit more sloppy when it comes to code validation.

With HTML5, you must create your own **Best Practice, Style Guide and Coding Conventions**.

## Be Smart and Future Proof

A consequent use of style, makes it easier for others to understand and use your HTML.

In the future, programs like XML readers, may want to read your HTML.

Using a well-formed "close to XHTML" syntax, can be smart.

|  |  |
| --- | --- |
| **Note** | Always keep your style smart, tidy, clean, and well-formed. |

## Use Correct Document Type

Always declare the document type as the first line in your document:

<!DOCTYPE html>

If you want consistency with lower case tags, you can use:

<!doctype html>

## Use Lower Case Element Names

HTML5 allows mixing uppercase and lowercase letters in element names.

We recommend using lowercase element names:

* Mixing uppercase and lowercase names is bad
* Developers are used to using lowercase names (as in XHTML)
* Lowercase look cleaner
* Lowercase are easier to write

### Bad:

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

### Very Bad:

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

### Good:

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

## Close All HTML Elements

In HTML5, you don't have to close all elements (for example the <p> element).

We recommend closing all HTML elements:

Looking bad:

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

Looking good:

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

## Close Empty HTML Elements

In HTML5, it is optional to close empty elements.

This is allowed:

<meta charset="utf-8">

This is also allowed:

<meta charset="utf-8" />

The slash (/) is required in XHTML and XML.

If you expect XML software to access your page, it might be a good idea to keep it.

## Use Lower Case Attribute Names

HTML5 allows mixing uppercase and lowercase letters in attribute names.

We recommend using lowercase attribute names:

* Mixing uppercase and lowercase names is bad
* Developers are used to using lowercase names (as in XHTML)
* Lowercase look cleaner
* Lowercase are easier to write

Looking bad:

<div CLASS="menu">

Looking good:

<div class="menu">

## Quote Attribute Values

HTML5 allows attribute values without quotes.

We recommend quoting attribute values:

* You have to use quotes if the value contains spaces
* Mixing styles is never good
* Quoted values are easier to read

This will not work, because the value contains spaces:

<table class=table striped>

This will work:

<table class="table striped">

## Image Attributes

Always use the **alt** attribute with images. It is important when the image cannot be viewed.

<img src="html5.gif" **alt="HTML5"** style="width:128px;height:128px">

Always define image size. It reduces flickering because the browser can reserve space for images before they are loaded.

<img src="html5.gif" alt="HTML5" **style="width:128px;height:128px**">

## Spaces and Equal Signs

Spaces around equal signs is legal:

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

But space-less is easier to read, and groups entities better together:

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

## Avoid Long Code Lines

When using an HTML editor, it is inconvenient to scroll right and left to read the HTML code.

Try to avoid code lines longer than 80 characters.

## Blank Lines and Indentation

Do not add blank lines without a reason.

For readability, add blank lines to separate large or logical code blocks.

For readability, add 2 spaces of indentation. Do not use TAB.

Do not use unnecessary blank lines and indentation. It is not necessary to use blank lines between short and related items. It is not necessary to indent every element:

### Unnecessary:

<body>  
  
  <h1>Famous Cities</h1>  
  
  <h2>Tokyo</h2>  
  
  <p>  
    Tokyo is the capital of Japan, the center of the Greater Tokyo Area,  
    and the most populous metropolitan area in the world.  
    It is the seat of the Japanese government and the Imperial Palace,  
    and the home of the Japanese Imperial Family.  
  </p>  
  
</body>

### Better:

<body>  
  
<h1>Famous Cities</h1>  
  
<h2>Tokyo</h2>  
<p>Tokyo is the capital of Japan, the center of the Greater Tokyo Area,  
and the most populous metropolitan area in the world.  
It is the seat of the Japanese government and the Imperial Palace,  
and the home of the Japanese Imperial Family.</p>  
  
</body>

### Table Example:

<table>  
  <tr>  
    <th>Name</th>  
    <th>Description</th>  
  </tr>  
  <tr>  
    <td>A</td>  
    <td>Description of A</td>  
  </tr>  
  <tr>  
    <td>B</td>  
    <td>Description of B</td>  
  </tr>  
</table>

### List Example:

<ol>  
  <li>London</li>  
  <li>Paris</li>  
  <li>Tokyo</li>  
</ol>

## Omitting <html> and <body>?

In the HTML5 standard, the <html> tag and the <body> tag can be omitted.

The following code will validate as HTML5:

### Example

<!DOCTYPE html>  
<head>  
  <title>Page Title</title>  
</head>  
  
<h1>This is a heading</h1>  
<p>This is a paragraph.</p>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_syntax_nobody)

**We do not recommend omitting the <html> and <body> tags.**

The <html> element is the document root. It is the recommended place for specifying the page language:

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

Declaring a language is important for accessibility applications (screen readers) and search engines.

Omitting <html> or <body> can crash DOM and XML software.

Omitting <body> can produce errors in older browsers (IE9).

## Omitting <head>?

In the HTML5 standard, the <head> tag can also be omitted.

By default, browsers will add all elements before <body>, to a default <head> element.

You can reduce the complexity of HTML, by omitting the <head> tag:

### Example

<!DOCTYPE html>  
<html>  
<title>Page Title</title>  
  
<body>  
  <h1>This is a heading</h1>  
  <p>This is a paragraph.</p>  
</body>  
  
</html>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_syntax_nohead)

|  |  |
| --- | --- |
| **Note** | Omitting tags is unfamiliar to web developers. It needs time to be established as a guideline. |

## Meta Data

The <title> element is required in HTML5. Make the title as meaningful as possible:

<title>HTML5 Syntax and Coding Style</title>

To ensure proper interpretation, and correct search engine indexing, both the language and the character encoding should be defined as early as possible in a document:

<!DOCTYPE html>  
<html lang="en-US">  
<head>  
  <meta charset="UTF-8">  
  <title>HTML5 Syntax and Coding Style</title>  
</head>

## HTML Comments

Short comments should be written on one line, with a space after <!-- and a space before -->:

<!-- This is a comment -->

Long comments, spanning many lines, should be written with <!-- and --> on separate lines:

<!--   
  This is a long comment example. This is a long comment example. This is a long comment example.  
  This is a long comment example. This is a long comment example. This is a long comment example.  
-->

Long comments are easier to observe, if they are indented 2 spaces.

## Style Sheets

Use simple syntax for linking style sheets (the type attribute is not necessary):

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

Short rules can be written compressed, on one line, like this:

p.into {font-family: Verdana; font-size: 16em;}

Long rules should be written over multiple lines:

body {  
  background-color: lightgrey;  
  font-family: "Arial Black", Helvetica, sans-serif;  
  font-size: 16em;  
  color: black;  
}

* Place the opening bracket on the same line as the selector.
* Use one space before the opening bracket.
* Use 2 spaces of indentation.
* Use colon plus one space between each property and its value.
* Use space after each comma or semicolon.
* Use semicolon after each property-value pair, including the last.
* Only use quotes around values if the value contains spaces.
* Place the closing bracket on a new line, without leading spaces.
* Avoid lines over 80 characters.

|  |  |
| --- | --- |
| **Note** | Adding a space after a comma, or a semicolon, is a general rule in all types of writing. |

## Loading JavaScript in HTML

Use simple syntax for loading external scripts (the type attribute is not necessary):

<script src="myscript.js">

## Accessing HTML Elements with JavaScript

A consequence of using "untidy" HTML styles, might result in JavaScript errors.

These two JavaScript statements will produce different results:

### Example

var obj = getElementById("Demo")  
  
var obj = getElementById("demo")

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_syntax_javascript)

If possible, use the same naming convention (as JavaScript) in HTML.

[Visit the JavaScript Style Guide](http://www.w3schools.com/js/js_conventions.asp).

## Use Lower Case File Names

Most web servers (Apache, Unix) are case sensitive about file names:

london.jpg cannot be accessed as London.jpg.

Other web servers (Microsoft, IIS) are not case sensitive:

london.jpg can be accessed as London.jpg or london.jpg.

If you use a mix of upper and lower case, you have to be extremely consistent.

If you move from a case insensitive, to a case sensitive server, even small errors will break your web.

To avoid these problems, always use lower case file names (if possible).

## File Extensions

HTML files should have a **.html** extension (or **.htm**).

CSS files should have a **.css** extension.

JavaScript files should have a **.js** extension.

## Differences Between .htm and .html

There is no difference between the .htm and .html extensions. Both will be treated as HTML by any web browser or web server.

The differences are cultural:

.htm "smells" of early DOS systems where the system limited the extensions to 3 characters.

.html "smells" of Unix operating systems that did not have this limitation.

## Technically Differences

When a URL does not specify a filename (like http://www.w3schools.com/css/), the server returns a default filename. Common default filenames are index.html, index.htm, default.html, and default.htm.

If your server is configured only with "index.html" as default filename, your file must be named "index.html", not "index.htm."

However, servers can be configured with more than one default filename, and normally you can set up as many default filenames as needed.

Anyway, the full extension for HTML files is .html, and there's no reason it should not be used.

# HTML5 Canvas

[« Previous](http://www.w3schools.com/html/html5_syntax.asp)

[Next Chapter »](http://www.w3schools.com/html/html5_svg.asp)

The HTML <canvas> element is used to draw graphics on a web page.

The graphic to the left is created with <canvas>. It shows four elements: a red rectangle, a gradient rectangle, a multicolor rectangle, and a multicolor text.

## What is HTML Canvas?

The HTML <canvas> element is used to draw graphics, on the fly, via scripting (usually JavaScript).

The <canvas> element is only a container for graphics. You must use a script to actually draw the graphics.

Canvas has several methods for drawing paths, boxes, circles, text, and adding images.

## Browser Support

The numbers in the table specify the first browser version that fully supports the <canvas> element.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |
| <canvas> | 4.0 | 9.0 | 2.0 | 3.1 | 9.0 |

## Canvas Examples

A canvas is a rectangular area on an HTML page. By default, a canvas has no border and no content.

The markup looks like this:

<canvas id="myCanvas" width="200" height="100"></canvas>

**Note:** Always specify an id attribute (to be referred to in a script), and a width and height attribute to define the size of the canvas.

To add a border, use the style attribute:

### Basic Canvas Example

<canvas id="myCanvas" width="200" height="100" style="border:1px solid #000000;">  
</canvas>

[Try it yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml5_canvas_empty)

### Drawing with JavaScript

var c = document.getElementById("myCanvas");  
var ctx = c.getContext("2d");  
ctx.fillStyle = "#FF0000";  
ctx.fillRect(0,0,150,75);

[Try it yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml5_canvas_first)

### Draw a Line

var c = document.getElementById("myCanvas");  
var ctx = c.getContext("2d");  
ctx.moveTo(0,0);  
ctx.lineTo(200,100);  
ctx.stroke();

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml5_canvas_tut_path)

### Draw a Circle

var c = document.getElementById("myCanvas");  
var ctx = c.getContext("2d");  
ctx.beginPath();  
ctx.arc(95,50,40,0,2\*Math.PI);  
ctx.stroke();

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml5_canvas_tut_path2)

### Draw a Text

var c = document.getElementById("myCanvas");  
var ctx = c.getContext("2d");  
ctx.font = "30px Arial";  
ctx.fillText("Hello World",10,50);

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml5_canvas_tut_text)

### Stroke Text

var c = document.getElementById("myCanvas");  
var ctx = c.getContext("2d");  
ctx.font = "30px Arial";  
ctx.strokeText("Hello World",10,50);

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml5_canvas_tut_text2)

### Draw Linear Gradient

var c = document.getElementById("myCanvas");  
var ctx = c.getContext("2d");  
  
// Create gradient  
var grd = ctx.createLinearGradient(0,0,200,0);  
grd.addColorStop(0,"red");  
grd.addColorStop(1,"white");  
  
// Fill with gradient  
ctx.fillStyle = grd;  
ctx.fillRect(10,10,150,80);

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml5_canvas_tut_grad)

### Draw Circular Gradient

var c = document.getElementById("myCanvas");  
var ctx = c.getContext("2d");  
  
// Create gradient  
var grd = ctx.createRadialGradient(75,50,5,90,60,100);  
grd.addColorStop(0,"red");  
grd.addColorStop(1,"white");  
  
// Fill with gradient  
ctx.fillStyle = grd;  
ctx.fillRect(10,10,150,80);

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml5_canvas_tut_grad2)

### Draw Image

var c = document.getElementById("myCanvas");  
var ctx = c.getContext("2d");  
var img = document.getElementById("scream");  
ctx.drawImage(img,10,10);

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml5_canvas_tut_img)

## HTML Canvas Tutorial

To learn all about HTML <canvas>, [Visit our full HTML Canvas Tutorial](http://www.w3schools.com/canvas/default.asp).

# HTML5 SVG

[« Previous](http://www.w3schools.com/html/html5_canvas.asp)

[Next Chapter »](http://www.w3schools.com/html/html_media.asp)

## What is SVG?

* SVG stands for Scalable Vector Graphics
* SVG is used to define graphics for the Web
* SVG is a W3C recommendation

## The HTML <svg> Element

The HTML <svg> element (introduced in HTML5) is a container for SVG graphics.

SVG has several methods for drawing paths, boxes, circles, text, and graphic images.

## Browser Support

The numbers in the table specify the first browser version that fully supports the <svg> element.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |
| <svg> | 4.0 | 9.0 | 3.0 | 3.2 | 10.1 |

## SVG Circle

### Example

<!DOCTYPE html>  
<html>  
<body>  
  
<svg width="100" height="100">  
  <circle cx="50" cy="50" r="40" stroke="green" stroke-width="4" fill="yellow" />  
</svg>  
  
</body>  
</html>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_svg_circle)

## SVG Rectangle

### Example

<svg width="400" height="100">  
  <rect width="400" height="100" style="fill:rgb(0,0,255);stroke-width:10;stroke:rgb(0,0,0)" />  
</svg>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_svg_rect)

## SVG Rounded Rectangle

Sorry, your browser does not support inline SVG.

### Example

<svg width="400" height="180">  
  <rect x="50" y="20" rx="20" ry="20" width="150" height="150"  
  style="fill:red;stroke:black;stroke-width:5;opacity:0.5" />  
</svg>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_svg_rect_round)

## SVG Star

Sorry, your browser does not support inline SVG.

### Example

<svg width="300" height="200">  
  <polygon points="100,10 40,198 190,78 10,78 160,198"  
  style="fill:lime;stroke:purple;stroke-width:5;fill-rule:evenodd;" />  
</svg>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_svg_star)

## SVG Logo

SVG Sorry, your browser does not support inline SVG.

### Example

<svg height="130" width="500">  
  <defs>  
    <linearGradient id="grad1" x1="0%" y1="0%" x2="100%" y2="0%">  
      <stop offset="0%" style="stop-color:rgb(255,255,0);stop-opacity:1" />  
      <stop offset="100%" style="stop-color:rgb(255,0,0);stop-opacity:1" />  
    </linearGradient>  
  </defs>  
  <ellipse cx="100" cy="70" rx="85" ry="55" fill="url(#grad1)" />  
  <text fill="#ffffff" font-size="45" font-family="Verdana" x="50" y="86">SVG</text>  
  Sorry, your browser does not support inline SVG.  
</svg>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_svg_logo)

## Differences Between SVG and Canvas

SVG is a language for describing 2D graphics in XML.

Canvas draws 2D graphics, on the fly (with a JavaScript).

SVG is XML based, which means that every element is available within the SVG DOM. You can attach JavaScript event handlers for an element.

In SVG, each drawn shape is remembered as an object. If attributes of an SVG object are changed, the browser can automatically re-render the shape.

Canvas is rendered pixel by pixel. In canvas, once the graphic is drawn, it is forgotten by the browser. If its position should be changed, the entire scene needs to be redrawn, including any objects that might have been covered by the graphic.

## Comparison of Canvas and SVG

The table below shows some important differences between Canvas and SVG:

|  |  |
| --- | --- |
| **Canvas** | **SVG** |
| * Resolution dependent * No support for event handlers * Poor text rendering capabilities * You can save the resulting image as .png or .jpg * Well suited for graphic-intensive games | * Resolution independent * Support for event handlers * Best suited for applications with large rendering areas (Google Maps) * Slow rendering if complex (anything that uses the DOM a lot will be slow) * Not suited for game applications |

To learn more about SVG, please read our [SVG Tutorial](http://www.w3schools.com/svg/default.asp).

# HTML Multimedia

[« Previous](http://www.w3schools.com/html/html5_svg.asp)

[Next Chapter »](http://www.w3schools.com/html/html5_video.asp)

Multimedia on the web, is sound, music, videos, movies, and animations.

## What is Multimedia?

Multimedia comes in many different formats. It can be almost anything you can hear or see.

Examples: Pictures, music, sound, videos, records, films, animations, and more.

Web pages often contain multimedia elements of different types and formats.

In this chapter you will learn about the different multimedia formats.

## Browser Support

The first web browsers had support for text only, limited to a single font in a single color.

Later came browsers with support for colors and fonts, and even support for pictures!

The support for sounds, animations, and videos is handled differently by various browsers. Different types and formats are supported, and some formats require extra helper programs (plug-ins) to work.

Hopefully this will become history. HTML5 multimedia promises an easier future for multimedia.

## Multimedia Formats

Multimedia elements (like sounds or videos) are stored in media files.

The most common way to discover the type of a file, is to look at the file extension. When a browser sees the file extension .htm or .html, it will treat the file as an HTML file. The .xml extension indicates an XML file, and the .css extension indicates a style sheet file. Pictures are recognized by extensions like .gif, .png and .jpg.

Multimedia files also have their own formats and different extensions like: .swf, .wav, .mp3, .mp4, .mpg, .wmv, and .avi.

## Common Video Formats

|  |  |
| --- | --- |
| Videoformats | MP4 is the new and upcoming format for internet video.  MP4 is recommended by YouTube.  MP4 is supported by Flash Players.  MP4 is supported by HTML5. |

|  |  |  |
| --- | --- | --- |
| **Format** | **File** | **Description** |
| MPEG | .mpg .mpeg | MPEG. Developed by the Moving Pictures Expert Group. The first popular video format on the web. Used to be supported by all browsers, but it is not supported in HTML5 (See MP4). |
| AVI | .avi | AVI (Audio Video Interleave). Developed by Microsoft. Commonly used in video cameras and TV hardware. Plays well on Windows computers, but not in web browsers. |
| WMV | .wmv | WMV (Windows Media Video). Developed by Microsoft. Commonly used in video cameras and TV hardware. Plays well on Windows computers, but not in web browsers. |
| QuickTime | .mov | QuickTime. Developed by Apple. Commonly used in video cameras and TV hardware. Plays well on Apple computers, but not in web browsers. (See MP4) |
| RealVideo | .rm .ram | RealVideo. Developed by Real Media to allow video streaming with low bandwidths. It is still used for online video and Internet TV, but does not play in web browsers. |
| Flash | .swf .flv | Flash. Developed by Macromedia. Often requires an extra component (plug-in) to play in web browsers. |
| Ogg | .ogg | Theora Ogg. Developed by the Xiph.Org Foundation. Supported by HTML5. |
| WebM | .webm | WebM. Developed by the web giants, Mozilla, Opera, Adobe, and Google. Supported by HTML5. |
| MPEG-4 or MP4 | .mp4 | MP4. Developed by the Moving Pictures Expert Group. Based on QuickTime. Commonly used in newer video cameras and TV hardware. Supported by all HTML5 browsers. Recommended by YouTube. |

|  |  |
| --- | --- |
| **Note** | Only MP4, WebM, and Ogg video are supported by the newest HTML5 standard. |

## Sound Formats

MP3 is the newest format for compressed recorded music. The term MP3 has become synonymous with digital music.

If your website is about recorded music, MP3 is the choice.

|  |  |  |
| --- | --- | --- |
| **Format** | **File** | **Description** |
| MIDI | .mid .midi | MIDI (Musical Instrument Digital Interface). Main format for all electronic music devices like synthesizers and PC sound cards. MIDI files do not contain sound, but digital notes that can be played by electronics. Plays well on all computers and music hardware, but not in web browsers. |
| RealAudio | .rm .ram | RealAudio. Developed by Real Media to allow streaming of audio with low bandwidths. Does not play in web browsers. |
| WMA | .wma | WMA (Windows Media Audio). Developed by Microsoft. Commonly used in music players. Plays well on Windows computers, but not in web browsers. |
| AAC | .aac | AAC (Advanced Audio Coding). Developed by Apple as the default format for iTunes. Plays well on Apple computers, but not in web browsers. |
| WAV | .wav | WAV. Developed by IBM and Microsoft. Plays well on Windows, Macintosh, and Linux operating systems. Supported by HTML5. |
| Ogg | .ogg | Ogg. Developed by the Xiph.Org Foundation. Supported by HTML5. |
| MP3 | .mp3 | MP3 files are actually the sound part of MPEG files. MP3 is the most popular format for music players. Combines good compression (small files) with high quality. Supported by all browsers. |
| MP4 | .mp4 | MP4 is a video format, but can also be used for audio. MP4 video is the upcoming video format on the internet. This leads to automatic support for MP4 audio by all browsers. |

|  |  |
| --- | --- |
| **Note** | Only MP3, WAV, and Ogg audio are supported by the newest HTML5 standard. |

# HTML5 Video

[« Previous](http://www.w3schools.com/html/html_media.asp)

[Next Chapter »](http://www.w3schools.com/html/html5_audio.asp)

### HTML Video Example. Courtesy of [Big Buck Bunny](http://www.bigbuckbunny.org/).

Your browser does not support HTML5 video.

[Try it yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml5_video)

## Playing Videos in HTML

Before HTML5, there was no standard for showing videos on a web page.

Before HTML5, videos could only be played with a plug-in (like flash).

The HTML5 <video> element specifies a standard way to embed a video in a web page.

## Browser Support

The numbers in the table specify the first browser version that fully supports the <video> element.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |
| <video> | 4.0 | 9.0 | 3.5 | 4.0 | 10.5 |

## The HTML <video> Element

To show a video in HTML, use the **<video>** element:

### Example

<video width="320" height="240" controls>  
  <source src="movie.mp4" type="video/mp4">  
  <source src="movie.ogg" type="video/ogg">  
Your browser does not support the video tag.  
</video>

[Try it yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml5_video_all)

## How it Works

The **controls** attribute adds video controls, like play, pause, and volume.

It is a good idea to always include **width** and **height** attributes.

If height and width are not set, the browser does not know the size of the video. The effect will be that the page will change (or flicker) while the video loads.

Text between the <video> and </video> tags will only display in browsers that do not support the <video> element.

Multiple **<source>** elements can link to different video files. The browser will use the first recognized format.

## HTML <video> Autoplay

To start a video automatically use the **autoplay** attribute:

### Example

<video width="320" height="240" autoplay>  
  <source src="movie.mp4" type="video/mp4">  
  <source src="movie.ogg" type="video/ogg">  
Your browser does not support the video tag.  
</video>

[Try it yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml5_video_autoplay)

|  |  |
| --- | --- |
| **Note** | The autoplay attribute does not work in Safari and Opera, or in mobile devices like iPad and iPhone. |

## HTML Video - Browser Support

Currently, there are 3 supported video formats for the <video> element: MP4, WebM, and Ogg:

|  |  |  |  |
| --- | --- | --- | --- |
| **Browser** | **MP4** | **WebM** | **Ogg** |
| Internet Explorer | YES | NO | NO |
| Chrome | YES | YES | YES |
| Firefox | YES | YES | YES |
| Safari | YES | NO | NO |
| Opera | YES (from Opera 25) | YES | YES |

## HTML Video - Media Types

|  |  |
| --- | --- |
| **File Format** | **Media Type** |
| MP4 | video/mp4 |
| WebM | video/webm |
| Ogg | video/ogg |

## HTML Video - Methods, Properties, and Events

HTML5 defines DOM methods, properties, and events for the <video> element.

This allows you to load, play, and pause videos, as well as setting duration and volume.

There are also DOM events that can notify you when a video begins to play, is paused, etc.

### Example: Using JavaScript

Your browser does not support HTML5 video.

Video courtesy of [Big Buck Bunny](http://www.bigbuckbunny.org/).

[Try it yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml5_video_js_prop)

For a full DOM reference, go to our [HTML5 Audio/Video DOM Reference](http://www.w3schools.com/tags/ref_av_dom.asp).

## HTML5 Video Tags

|  |  |
| --- | --- |
| **Tag** | **Description** |
| [<video>](http://www.w3schools.com/tags/tag_video.asp) | Defines a video or movie |
| [<source>](http://www.w3schools.com/tags/tag_source.asp) | Defines multiple media resources for media elements, such as <video> and <audio> |
| [<track>](http://www.w3schools.com/tags/tag_track.asp) | Defines text tracks in media players |

# HTML5 Audio

[« Previous](http://www.w3schools.com/html/html5_video.asp)

[Next Chapter »](http://www.w3schools.com/html/html_object.asp)

HTML5 provides a standard for playing audio files.

## Audio on the Web

Before HTML5, there was no standard for playing audio files on a web page.

Before HTML5, audio files could only be played with a plug-in (like flash).

The HTML5 <audio> element specifies a standard way to embed audio in a web page.

## Browser Support

The numbers in the table specify the first browser version that fully supports the <audio> element.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |
| <audio> | 4.0 | 9.0 | 3.5 | 4.0 | 10.5 |

## The HTML <audio> Element

To play an audio file in HTML, use the **<audio>** element:

### Example

<audio controls>  
  <source src="horse.ogg" type="audio/ogg">  
  <source src="horse.mp3" type="audio/mpeg">  
Your browser does not support the audio element.  
</audio>

[Try it yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml5_audio_all)

## HTML Audio - How It Works

The **controls** attribute adds audio controls, like play, pause, and volume.

Text between the <audio> and </audio> tags will display in browsers that do not support the <audio> element.

Multiple **<source>** elements can link to different audio files. The browser will use the first recognized format.

## HTML Audio - Browser Support

Currently, there are 3 supported file formats for the <audio> element: MP3, Wav, and Ogg:

|  |  |  |  |
| --- | --- | --- | --- |
| **Browser** | **MP3** | **Wav** | **Ogg** |
| Internet Explorer | YES | NO | NO |
| Chrome | YES | YES | YES |
| Firefox | YES | YES | YES |
| Safari | YES | YES | NO |
| Opera | YES | YES | YES |

## HTML Audio - Media Types

|  |  |
| --- | --- |
| **File Format** | **Media Type** |
| MP3 | audio/mpeg |
| Ogg | audio/ogg |
| Wav | audio/wav |

## HTML Audio - Methods, Properties, and Events

HTML5 defines DOM methods, properties, and events for the <audio> element.

This allows you to load, play, and pause audios, as well as set duration and volume.

There are also DOM events that can notify you when an audio begins to play, is paused, etc.

For a full DOM reference, go to our [HTML5 Audio/Video DOM Reference](http://www.w3schools.com/tags/ref_av_dom.asp).

## HTML5 Audio Tags

|  |  |
| --- | --- |
| **Tag** | **Description** |
| [<audio>](http://www.w3schools.com/tags/tag_audio.asp) | Defines sound content |
| [<source>](http://www.w3schools.com/tags/tag_source.asp) | Defines multiple media resources for media elements, such as <video> and <audio> |

# HTML Plug-ins

[« Previous](http://www.w3schools.com/html/html5_audio.asp)

[Next Chapter »](http://www.w3schools.com/html/html_youtube.asp)

The purpose of a plug-in, is to extend the functionality of the HTML browser.

## HTML Helpers (Plug-ins)

Helper applications are computer programs that extend the standard functionality of a web browser.

Helper applications are also called plug-ins.

Examples of well-known plug-ins are Java applets.

Plug-ins can be added to web pages with the <object> tag or the <embed> tag.

Plug-ins can be used for many purposes: display maps, scan for viruses, verify your bank id, etc.

|  |  |
| --- | --- |
| **Note** | To display video and audio: Use the <video> and <audio> tags. |

## The <object> Element

The <object> element is supported by all browsers.

The <object> element defines an embedded object within an HTML document.

It is used to embed plug-ins (like Java applets, PDF readers, Flash Players) in web pages.

### Example

<object width="400" height="50" data="bookmark.swf"></object>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_object_plugin)

The <object> element can also be used to include HTML in HTML:

### Example

<object width="100%" height="500px" data="snippet.html"></object>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_object_html)

Or images if you like:

### Example

<object data="audi.jpeg"></object>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_object_image)

## The <embed> Element

The <embed> element is supported in all major browsers.

The <embed> element also defines an embedded object within an HTML document.

Web browsers have supported the <embed> element for a long time. However, it has not been a part of the HTML specification before HTML5. The element will validate in an HTML5 page, but not in an HTML 4 page.

### Example

<embed width="400" height="50" src="bookmark.swf">

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_embed_plugin)

|  |  |
| --- | --- |
| **Note** | Note that the <embed> element does not have a closing tag. It can not contain alternative text. |

The <embed> element can also be used to include HTML in HTML:

### Example

<embed width="100%" height="500px" src="snippet.html">

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_embed_html)

Or images if you like:

### Example

<embed src="audi.jpeg">

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_embed_image)

# HTML5 Geolocation

[« Previous](http://www.w3schools.com/html/html_youtube.asp)

[Next Chapter »](http://www.w3schools.com/html/html5_draganddrop.asp)

HTML Geolocation is used to locate a user's position.

## Locate the User's Position

The HTML Geolocation API is used to get the geographical position of a user.

Since this can compromise user privacy, the position is not available unless the user approves it.

## Browser Support

The numbers in the table specify the first browser version that fully supports Geolocation.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **API** |  |  |  |  |  |
| Geolocation | 5.0 | 9.0 | 3.5 | 5.0 | 16.0 |

**Note:** Geolocation is much more accurate for devices with GPS, like iPhone.

## Using HTML Geolocation

Use the getCurrentPosition() method to get the user's position.

The example below is a simple Geolocation example returning the latitude and longitude of the user's position:

### Example

<script>  
var x = document.getElementById("demo");  
function getLocation() {  
    if (navigator.geolocation) {  
        navigator.geolocation.getCurrentPosition(showPosition);  
    } else {  
        x.innerHTML = "Geolocation is not supported by this browser.";  
    }  
}  
function showPosition(position) {  
    x.innerHTML = "Latitude: " + position.coords.latitude +   
    "<br>Longitude: " + position.coords.longitude;   
}  
</script>

[Try it yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml5_geolocation)

Example explained:

* Check if Geolocation is supported
* If supported, run the getCurrentPosition() method. If not, display a message to the user
* If the getCurrentPosition() method is successful, it returns a coordinates object to the function specified in the parameter ( showPosition )
* The showPosition() function gets the displays the Latitude and Longitude

The example above is a very basic Geolocation script, with no error handling.

## Handling Errors and Rejections

The second parameter of the getCurrentPosition() method is used to handle errors. It specifies a function to run if it fails to get the user's location:

### Example

function showError(error) {  
    switch(error.code) {  
        case error.PERMISSION\_DENIED:  
            x.innerHTML = "User denied the request for Geolocation."  
            break;  
        case error.POSITION\_UNAVAILABLE:  
            x.innerHTML = "Location information is unavailable."  
            break;  
        case error.TIMEOUT:  
            x.innerHTML = "The request to get user location timed out."  
            break;  
        case error.UNKNOWN\_ERROR:  
            x.innerHTML = "An unknown error occurred."  
            break;  
    }  
}

[Try it yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml5_geolocation_error)

Error Codes:

* Permission denied - The user did not allow Geolocation
* Position unavailable - It is not possible to get the current location
* Timeout - The operation timed out

## Displaying the Result in a Map

To display the result in a map, you need access to a map service that can use latitude and longitude, like Google Maps:

### Example

function showPosition(position) {  
    var latlon = position.coords.latitude + "," + position.coords.longitude;  
  
    var img\_url = "http://maps.googleapis.com/maps/api/staticmap?center=  
    "+latlon+"&zoom=14&size=400x300&sensor=false";  
  
    document.getElementById("mapholder").innerHTML = "<img src='"+img\_url+"'>";  
}

[Try it yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml5_geolocation_map)

In the example above we use the returned latitude and longitude data to show the location in a Google map (using a static image).

[Google Map Script](http://www.w3schools.com/html/tryit.asp?filename=tryhtml5_geolocation_map_script)  
How to use a script to show an interactive map with a marker, zoom and drag options.

## Location-specific Information

This page demonstrated how to show a user's position on a map. However, Geolocation is also very useful for location-specific information.

Examples:

* Up-to-date local information
* Showing Points-of-interest near the user
* Turn-by-turn navigation (GPS)

## The getCurrentPosition() Method - Return Data

The getCurrentPosition() method returns an object if it is successful. The latitude, longitude and accuracy properties are always returned. The other properties below are returned if available.

|  |  |
| --- | --- |
| **Property** | **Description** |
| coords.latitude | The latitude as a decimal number |
| coords.longitude | The longitude as a decimal number |
| coords.accuracy | The accuracy of position |
| coords.altitude | The altitude in meters above the mean sea level |
| coords.altitudeAccuracy | The altitude accuracy of position |
| coords.heading | The heading as degrees clockwise from North |
| coords.speed | The speed in meters per second |
| timestamp | The date/time of the response |

## Geolocation object - Other interesting Methods

watchPosition() - Returns the current position of the user and continues to return updated position as the user moves (like the GPS in a car).

clearWatch() - Stops the watchPosition() method.

The example below shows the watchPosition() method. You need an accurate GPS device to test this (like iPhone):

### Example

<script>  
var x = document.getElementById("demo");  
function getLocation() {  
    if (navigator.geolocation) {  
        navigator.geolocation.watchPosition(showPosition);  
    } else {  
        x.innerHTML = "Geolocation is not supported by this browser.";  
    }  
}  
function showPosition(position) {  
    x.innerHTML = "Latitude: " + position.coords.latitude +   
    "<br>Longitude: " + position.coords.longitude;   
}  
</script>

[Try it yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml5_geolocation_watchposition)

# HTML5 Drag and Drop

[« Previous](http://www.w3schools.com/html/html5_geolocation.asp)

[Next Chapter »](http://www.w3schools.com/html/html5_webstorage.asp)

Drag and drop is a part of the HTML5 standard.

W3Schools

Drag the W3Schools image into the rectangle.

## Drag and Drop

Drag and drop is a very common feature. It is when you "grab" an object and drag it to a different location.

In HTML5, drag and drop is part of the standard, and any element can be draggable.

## Browser Support

The numbers in the table specify the first browser version that fully supports Drag and Drop.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **API** |  |  |  |  |  |
| Drag and Drop | 4.0 | 9.0 | 3.5 | 6.0 | 12.0 |

## HTML Drag and Drop Example

The example below is a simple drag and drop example:

### Example

<!DOCTYPE HTML>  
<html>  
<head>  
<script>  
function allowDrop(ev) {  
    ev.preventDefault();  
}  
  
function drag(ev) {  
    ev.dataTransfer.setData("text", ev.target.id);  
}  
  
function drop(ev) {  
    ev.preventDefault();  
    var data = ev.dataTransfer.getData("text");  
    ev.target.appendChild(document.getElementById(data));  
}  
</script>  
</head>  
<body>  
  
<div id="div1" ondrop="drop(event)" ondragover="allowDrop(event)"></div>  
  
<img id="drag1" src="img\_logo.gif" draggable="true"  
ondragstart="drag(event)" width="336" height="69">  
  
</body>  
</html>

[Try it yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml5_draganddrop)

It might seem complicated, but lets go through all the different parts of a drag and drop event.

## Make an Element Draggable

First of all: To make an element draggable, set the draggable attribute to true:

<img draggable="true">

## What to Drag - ondragstart and setData()

Then, specify what should happen when the element is dragged.

In the example above, the ondragstart attribute calls a function, drag(event), that specifies what data to be dragged.

The dataTransfer.setData() method sets the data type and the value of the dragged data:

function drag(ev) {  
    ev.dataTransfer.setData("text", ev.target.id);  
}

In this case, the data type is "text" and the value is the id of the draggable element ("drag1").

## Where to Drop - ondragover

The ondragover event specifies where the dragged data can be dropped.

By default, data/elements cannot be dropped in other elements. To allow a drop, we must prevent the default handling of the element.

This is done by calling the event.preventDefault() method for the ondragover event:

*event*.preventDefault()

## Do the Drop - ondrop

When the dragged data is dropped, a drop event occurs.

In the example above, the ondrop attribute calls a function, drop(event):

function drop(ev) {  
    ev.preventDefault();  
    var data = ev.dataTransfer.getData("text");  
    ev.target.appendChild(document.getElementById(data));  
}

Code explained:

* Call preventDefault() to prevent the browser default handling of the data (default is open as link on drop)
* Get the dragged data with the dataTransfer.getData() method. This method will return any data that was set to the same type in the setData() method
* The dragged data is the id of the dragged element ("drag1")
* Append the dragged element into the drop element

Examples

## More Examples

[Drag image back and forth](http://www.w3schools.com/html/tryit.asp?filename=tryhtml5_draganddrop2)  
How to drag (and drop) an image back and forth between two <div> elements.

# HTML5 Local Storage

[« Previous](http://www.w3schools.com/html/html5_draganddrop.asp)

[Next Chapter »](http://www.w3schools.com/html/html5_app_cache.asp)

HTML local storage, better than cookies.

## What is HTML Local Storage?

With local storage, web applications can store data locally within the user's browser.

Before HTML5, application data had to be stored in cookies, included in every server request. Local storage is more secure, and large amounts of data can be stored locally, without affecting website performance.

Unlike cookies, the storage limit is far larger (at least 5MB) and information is never transferred to the server.

Local storage is per origin (per domain and protocol). All pages, from one origin, can store and access the same data.

## Browser Support

The numbers in the table specify the first browser version that fully supports Local Storage.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **API** |  |  |  |  |  |
| Web Storage | 4.0 | 8.0 | 3.5 | 4.0 | 11.5 |

## HTML Local Storage Objects

HTML local storage provides two objects for storing data on the client:

* window.localStorage - stores data with no expiration date
* window.sessionStorage - stores data for one session (data is lost when the browser tab is closed)

Before using local storage, check browser support for localStorage and sessionStorage:

if(typeof(Storage) !== "undefined") {  
    // *Code for localStorage/sessionStorage.*  
} else {  
    // Sorry! No Web Storage support..  
}

## The localStorage Object

The localStorage object stores the data with no expiration date. The data will not be deleted when the browser is closed, and will be available the next day, week, or year.

### Example

// Store  
localStorage.setItem("lastname", "Smith");  
// Retrieve  
document.getElementById("result").innerHTML = localStorage.getItem("lastname");

[Try it yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml5_webstorage_local)

Example explained:

* Create a localStorage name/value pair with name="lastname" and value="Smith"
* Retrieve the value of "lastname" and insert it into the element with id="result"

The example above could also be written like this:

// Store  
localStorage.lastname = "Smith";  
// Retrieve  
document.getElementById("result").innerHTML = localStorage.lastname;

The syntax for removing the "lastname" localStorage item is as follows:

localStorage.removeItem("lastname");

**Note:** Name/value pairs are always stored as strings. Remember to convert them to another format when needed!

The following example counts the number of times a user has clicked a button. In this code the value string is converted to a number to be able to increase the counter:

### Example

if (localStorage.clickcount) {  
    localStorage.clickcount = Number(localStorage.clickcount) + 1;  
} else {  
    localStorage.clickcount = 1;  
}  
document.getElementById("result").innerHTML = "You have clicked the button " +  
localStorage.clickcount + " time(s).";

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml5_webstorage_local_clickcount)

## The sessionStorage Object

The sessionStorage object is equal to the localStorage object, **except** that it stores the data for only one session. The data is deleted when the user closes the specific browser tab.

The following example counts the number of times a user has clicked a button, in the current session:

### Example

if (sessionStorage.clickcount) {  
    sessionStorage.clickcount = Number(sessionStorage.clickcount) + 1;  
} else {  
    sessionStorage.clickcount = 1;  
}  
document.getElementById("result").innerHTML = "You have clicked the button " +  
sessionStorage.clickcount + " time(s) in this session.";

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml5_webstorage_session)

# HTML5 Application Cache

[« Previous](http://www.w3schools.com/html/html5_webstorage.asp)

[Next Chapter »](http://www.w3schools.com/html/html5_webworkers.asp)

With application cache it is easy to make an offline version of a web application, by creating a cache manifest file.

## What is Application Cache?

HTML5 introduces application cache, which means that a web application is cached, and accessible without an internet connection.

Application cache gives an application three advantages:

1. Offline browsing - users can use the application when they're offline
2. Speed - cached resources load faster
3. Reduced server load - the browser will only download updated/changed resources from the server

## Browser Support

The numbers in the table specify the first browser version that fully supports Application Cache.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **API** |  |  |  |  |  |
| Application Cache | 4.0 | 10.0 | 3.5 | 4.0 | 11.5 |

## HTML Cache Manifest Example

The example below shows an HTML document with a cache manifest (for offline browsing):

### Example

<!DOCTYPE HTML>  
<html manifest="demo.appcache">  
  
<body>  
The content of the document......  
</body>  
  
</html>

[Try it Yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml5_html_manifest)

## Cache Manifest Basics

To enable application cache, include the manifest attribute in the document's <html> tag:

<!DOCTYPE HTML>  
<html manifest="demo.appcache">  
...  
</html>

Every page with the manifest attribute specified will be cached when the user visits it. If the manifest attribute is not specified, the page will not be cached (unless the page is specified directly in the manifest file).

The recommended file extension for manifest files is: ".appcache"

|  |  |
| --- | --- |
| **Note** | A manifest file needs to be served with the **correct media type**, which is "text/cache-manifest". Must be configured on the web server. |

## The Manifest File

The manifest file is a simple text file, which tells the browser what to cache (and what to never cache).

The manifest file has three sections:

* **CACHE MANIFEST** - Files listed under this header will be cached after they are downloaded for the first time
* **NETWORK** - Files listed under this header require a connection to the server, and will never be cached
* **FALLBACK** - Files listed under this header specifies fallback pages if a page is inaccessible

### CACHE MANIFEST

The first line, CACHE MANIFEST, is required:

CACHE MANIFEST  
/theme.css  
/logo.gif  
/main.js

The manifest file above lists three resources: a CSS file, a GIF image, and a JavaScript file. When the manifest file is loaded, the browser will download the three files from the root directory of the web site. Then, whenever the user is not connected to the internet, the resources will still be available.

### NETWORK

The NETWORK section below specifies that the file "login.asp" should never be cached, and will not be available offline:

NETWORK:  
login.asp

An asterisk can be used to indicate that all other resources/files require an internet connection:

NETWORK:  
\*

### FALLBACK

The FALLBACK section below specifies that "offline.html" will be served in place of all files in the /html/ catalog, in case an internet connection cannot be established:

FALLBACK:  
/html/ /offline.html

**Note:** The first URI is the resource, the second is the fallback.

## Updating the Cache

Once an application is cached, it remains cached until one of the following happens:

* The user clears the browser's cache
* The manifest file is modified (see tip below)
* The application cache is programmatically updated

## Example - Complete Cache Manifest File

CACHE MANIFEST  
# 2012-02-21 v1.0.0  
/theme.css  
/logo.gif  
/main.js  
  
NETWORK:  
login.asp  
  
FALLBACK:  
/html/ /offline.html

|  |  |
| --- | --- |
| **Note** | **Tip:** Lines starting with a "#" are comment lines, but can also serve another purpose. An application's cache is only updated when its manifest file changes. If you edit an image or change a JavaScript function, those changes will not be re-cached. Updating the date and version in a comment line is one way to make the browser re-cache your files. |

## Notes on Application Cache

Be careful with what you cache.

Once a file is cached, the browser will continue to show the cached version, even if you change the file on the server. To ensure the browser updates the cache, you need to change the manifest file.

**Note:** Browsers may have different size limits for cached data (some browsers have a 5MB limit per site).

# HTML5 Web Workers

[« Previous](http://www.w3schools.com/html/html5_app_cache.asp)

[Next Chapter »](http://www.w3schools.com/html/html5_serversentevents.asp)

A web worker is a JavaScript running in the background, without affecting the performance of the page.

## What is a Web Worker?

When executing scripts in an HTML page, the page becomes unresponsive until the script is finished.

A web worker is a JavaScript that runs in the background, independently of other scripts, without affecting the performance of the page. You can continue to do whatever you want: clicking, selecting things, etc., while the web worker runs in the background.

## Browser Support

The numbers in the table specify the first browser version that fully support Web Workers.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **API** |  |  |  |  |  |
| Web Workers | 4.0 | 10.0 | 3.5 | 4.0 | 11.5 |

## HTML Web Workers Example

The example below creates a simple web worker that count numbers in the background:

### Example

Count numbers:

[Try it yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml5_webworker)

## Check Web Worker Support

Before creating a web worker, check whether the user's browser supports it:

if(typeof(Worker) !== "undefined") {  
    // Yes! Web worker support!  
    // *Some code.....*  
} else {  
    // Sorry! No Web Worker support..  
}

## Create a Web Worker File

Now, let's create our web worker in an external JavaScript.

Here, we create a script that counts. The script is stored in the "demo\_workers.js" file:

var i = 0;  
  
function timedCount() {  
    i = i + 1;  
    postMessage(i);  
    setTimeout("timedCount()",500);  
}  
  
timedCount();

The important part of the code above is the **postMessage()** method - which is used to post a message back to the HTML page.

**Note:** Normally web workers are not used for such simple scripts, but for more CPU intensive tasks.

## Create a Web Worker Object

Now that we have the web worker file, we need to call it from an HTML page.

The following lines checks if the worker already exists, if not - it creates a new web worker object and runs the code in "demo\_workers.js":

if(typeof(w) == "undefined") {  
    w = new Worker("demo\_workers.js");  
}

Then we can send and receive messages from the web worker.

Add an "onmessage" event listener to the web worker.

w.onmessage = function(event){  
    document.getElementById("result").innerHTML = event.data;  
};

When the web worker posts a message, the code within the event listener is executed. The data from the web worker is stored in event.data.

## Terminate a Web Worker

When a web worker object is created, it will continue to listen for messages (even after the external script is finished) until it is terminated.

To terminate a web worker, and free browser/computer resources, use the terminate() method:

w.terminate();

## Reuse the Web Worker

If you set the worker variable to undefined, after it has been terminated, you can reuse the code:

w = undefined;

## Full Web Worker Example Code

We have already seen the Worker code in the .js file. Below is the code for the HTML page:

### Example

<!DOCTYPE html>  
<html>  
<body>  
  
<p>Count numbers: <output id="result"></output></p>  
<button onclick="startWorker()">Start Worker</button>   
<button onclick="stopWorker()">Stop Worker</button>  
<br><br>  
  
<script>  
var w;  
  
function startWorker() {  
    if(typeof(Worker) !== "undefined") {  
        if(typeof(w) == "undefined") {  
            w = new Worker("demo\_workers.js");  
        }  
        w.onmessage = function(event) {  
            document.getElementById("result").innerHTML = event.data;  
        };  
    } else {  
        document.getElementById("result").innerHTML = "Sorry! No Web Worker support.";  
    }  
}  
  
function stopWorker() {   
    w.terminate();  
    w = undefined;  
}  
</script>  
  
</body>  
</html>

[Try it yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml5_webworker)

## Web Workers and the DOM

Since web workers are in external files, they do not have access to the following JavaScript objects:

* The window object
* The document object
* The parent object

# HTML5 Server-Sent Events

[« Previous](http://www.w3schools.com/html/html5_webworkers.asp)

[Next Chapter »](http://www.w3schools.com/html/html_examples.asp)

Server-Sent Events allow a web page to get updates from a server.

## Server-Sent Events - One Way Messaging

A server-sent event is when a web page automatically gets updates from a server.

This was also possible before, but the web page would have to ask if any updates were available. With server-sent events, the updates come automatically.

Examples: Facebook/Twitter updates, stock price updates, news feeds, sport results, etc.

## Browser Support

The numbers in the table specify the first browser version that fully support server-sent events.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **API** |  |  |  |  |  |
| SSE | 6.0 | Not supported | 6.0 | 5.0 | 11.5 |

## Receive Server-Sent Event Notifications

The EventSource object is used to receive server-sent event notifications:

### Example

var source = new EventSource("demo\_sse.php");  
source.onmessage = function(event) {  
    document.getElementById("result").innerHTML += event.data + "<br>";  
};

[Try it yourself »](http://www.w3schools.com/html/tryit.asp?filename=tryhtml5_sse)

Example explained:

* Create a new EventSource object, and specify the URL of the page sending the updates (in this example "demo\_sse.php")
* Each time an update is received, the onmessage event occurs
* When an onmessage event occurs, put the received data into the element with id="result"

## Check Server-Sent Events Support

In the tryit example above there were some extra lines of code to check browser support for server-sent events:

if(typeof(EventSource) !== "undefined") {  
    // Yes! Server-sent events support!  
    // *Some code.....*  
} else {  
    // Sorry! No server-sent events support..  
}

## Server-Side Code Example

For the example above to work, you need a server capable of sending data updates (like PHP or ASP).

The server-side event stream syntax is simple. Set the "Content-Type" header to "text/event-stream". Now you can start sending event streams.

Code in PHP (demo\_sse.php):

<?php  
header('Content-Type: text/event-stream');  
header('Cache-Control: no-cache');  
  
$time = date('r');  
echo "data: The server time is: {$time}\n\n";  
flush();  
?>

Code in ASP (VB) (demo\_sse.asp):

<%  
Response.ContentType = "text/event-stream"  
Response.Expires = -1  
Response.Write("data: The server time is: " & now())  
Response.Flush()  
%>

Code explained:

* Set the "Content-Type" header to "text/event-stream"
* Specify that the page should not cache
* Output the data to send (**Always** start with "data: ")
* Flush the output data back to the web page

## The EventSource Object

In the examples above we used the onmessage event to get messages. But other events are also available:

|  |  |
| --- | --- |
| **Events** | **Description** |
| onopen | When a connection to the server is opened |
| onmessage | When a message is received |
| onerror | When an error occurs |

# HTML Examples

[« Previous](http://www.w3schools.com/html/html5_serversentevents.asp)

[Next Chapter »](http://www.w3schools.com/html/html_quiz.asp)

**HTML Basic**

[HTML document](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_basic_document)  
[HTML headings](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_basic_headings)  
[HTML paragraphs](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_basic_paragraphs)  
[HTML links](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_basic_link)  
[HTML images](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_basic_img)

[Examples explained](http://www.w3schools.com/html/html_basic.asp)

**HTML Attributes**

[The title attribute](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_attributes_title)  
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[The width and height attributes](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_attributes_img)  
[The alt attribute](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_attributes_alt)  
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[Attribute without quotes does not work](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_attributes_error)

[Examples explained](http://www.w3schools.com/html/html_attributes.asp)

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[Examples explained](http://www.w3schools.com/html/html_headings.asp)

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[Poem problems (some problems with HTML formatting)](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_poem)  
[How to control the line breaks and spaces with the <pre> tag](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_pre)

[Examples explained](http://www.w3schools.com/html/html_paragraphs.asp)

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[HTML text size](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_styles_font-size)  
[HTML text alignment](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_styles_text-align)

[Examples explained](http://www.w3schools.com/html/html_styles.asp)

**HTML Text Formatting**

[Bold formatting using the <b> element](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_formatting_b)  
[Strong formatting using the <strong> element](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_formatting_strong)  
[Italic formatting using the <i> element](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_formatting_i)  
[Emphasized formatting using the <em> element](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_formatting_em)  
[Small formatting using the <small> element](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_formatting_small)  
[Marked formatting using the <mark> element](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_formatting_mark)  
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[Marked deleted and inserted using <del> and <ins>](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_formatting_del_ins)  
[Subscript formatting using the <sub> element](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_formatting_sub)  
[Superscript formatting using the <sup> element](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_formatting_sup)

[Examples explained](http://www.w3schools.com/html/html_formatting.asp)

**HTML Quotations and Citations**

[Formatting short quotations with the <q> element.](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_formatting_q)  
[Formatting quoted sections with the <blockquote> element.](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_formatting_blockquote)  
[Formatting document author/owner information with the <address> element](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_formatting_address)  
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[Formatting work title with the <cite> element](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_formatting_cite)  
[Formatting text direction with the <bdo> element](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_formatting_bdo)

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[Computer output formatting using the <samp> element](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_formatting_samp)  
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[Programming code formatting preserving whitespace and line-breaks](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_formatting_codepre)  
[Variable formatting using the <var> element](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_formatting_var)

[Examples explained](http://www.w3schools.com/html/html_computercode_elements.asp)

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[HTML and CSS borders](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_css_borders)  
[HTML and CSS padding](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_css_padding)  
[HTML and CSS margin](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_css_margin)  
[HTML and CSS full demo](http://www.w3schools.com/html/tryit.asp?filename=tryhtml_css_full)

[Examples explained](http://www.w3schools.com/html/html_css.asp)

**HTML Links**

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You can test your HTML skills with W3Schools' Quiz.

## The Test

The test contains 25 questions and there is no time limit.

The test is not official, it's just a nice way to see how much you know, or don't know, about HTML.

## Count Your Score

You will get 1 point for each correct answer. At the end of the Quiz, your total score will be displayed. Maximum score is 25 points.

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|  |  |
| --- | --- |
| **Tag** | **Description** |
| [<!--...-->](http://www.w3schools.com/tags/tag_comment.asp) | Defines a comment |
| [<!DOCTYPE>](http://www.w3schools.com/tags/tag_doctype.asp) | Defines the document type |
| [<a>](http://www.w3schools.com/tags/tag_a.asp) | Defines a hyperlink |
| [<abbr>](http://www.w3schools.com/tags/tag_abbr.asp) | Defines an abbreviation or an acronym |
| [<acronym>](http://www.w3schools.com/tags/tag_acronym.asp) | Not supported in HTML5. Use <abbr> instead. Defines an acronym |
| [<address>](http://www.w3schools.com/tags/tag_address.asp) | Defines contact information for the author/owner of a document |
| [<applet>](http://www.w3schools.com/tags/tag_applet.asp) | Not supported in HTML5. Use <embed> or <object> instead. Defines an embedded applet |
| [<area>](http://www.w3schools.com/tags/tag_area.asp) | Defines an area inside an image-map |
| [<article>](http://www.w3schools.com/tags/tag_article.asp) | Defines an article |
| [<aside>](http://www.w3schools.com/tags/tag_aside.asp) | Defines content aside from the page content |
| [<audio>](http://www.w3schools.com/tags/tag_audio.asp) | Defines sound content |
| [<b>](http://www.w3schools.com/tags/tag_b.asp) | Defines bold text |
| [<base>](http://www.w3schools.com/tags/tag_base.asp) | Specifies the base URL/target for all relative URLs in a document |
| [<basefont>](http://www.w3schools.com/tags/tag_basefont.asp) | Not supported in HTML5. Use CSS instead. Specifies a default color, size, and font for all text in a document |
| [<bdi>](http://www.w3schools.com/tags/tag_bdi.asp) | Isolates a part of text that might be formatted in a different direction from other text outside it |
| [<bdo>](http://www.w3schools.com/tags/tag_bdo.asp) | Overrides the current text direction |
| [<big>](http://www.w3schools.com/tags/tag_big.asp) | Not supported in HTML5. Use CSS instead. Defines big text |
| [<blockquote>](http://www.w3schools.com/tags/tag_blockquote.asp) | Defines a section that is quoted from another source |
| [<body>](http://www.w3schools.com/tags/tag_body.asp) | Defines the document's body |
| [<br>](http://www.w3schools.com/tags/tag_br.asp) | Defines a single line break |
| [<button>](http://www.w3schools.com/tags/tag_button.asp) | Defines a clickable button |
| [<canvas>](http://www.w3schools.com/tags/tag_canvas.asp) | Used to draw graphics, on the fly, via scripting (usually JavaScript) |
| [<caption>](http://www.w3schools.com/tags/tag_caption.asp) | Defines a table caption |
| [<center>](http://www.w3schools.com/tags/tag_center.asp) | Not supported in HTML5. Use CSS instead. Defines centered text |
| [<cite>](http://www.w3schools.com/tags/tag_cite.asp) | Defines the title of a work |
| [<code>](http://www.w3schools.com/tags/tag_code.asp) | Defines a piece of computer code |
| [<col>](http://www.w3schools.com/tags/tag_col.asp) | Specifies column properties for each column within a <colgroup> element |
| [<colgroup>](http://www.w3schools.com/tags/tag_colgroup.asp) | Specifies a group of one or more columns in a table for formatting |
| [<datalist>](http://www.w3schools.com/tags/tag_datalist.asp) | Specifies a list of pre-defined options for input controls |
| [<dd>](http://www.w3schools.com/tags/tag_dd.asp) | Defines a description/value of a term in a description list |
| [<del>](http://www.w3schools.com/tags/tag_del.asp) | Defines text that has been deleted from a document |
| [<details>](http://www.w3schools.com/tags/tag_details.asp) | Defines additional details that the user can view or hide |
| [<dfn>](http://www.w3schools.com/tags/tag_dfn.asp) | Represents the defining instance of a term |
| [<dialog>](http://www.w3schools.com/tags/tag_dialog.asp) | Defines a dialog box or window |
| [<dir>](http://www.w3schools.com/tags/tag_dir.asp) | Not supported in HTML5. Use <ul> instead. Defines a directory list |
| [<div>](http://www.w3schools.com/tags/tag_div.asp) | Defines a section in a document |
| [<dl>](http://www.w3schools.com/tags/tag_dl.asp) | Defines a description list |
| [<dt>](http://www.w3schools.com/tags/tag_dt.asp) | Defines a term/name in a description list |
| [<em>](http://www.w3schools.com/tags/tag_em.asp) | Defines emphasized text |
| [<embed>](http://www.w3schools.com/tags/tag_embed.asp) | Defines a container for an external (non-HTML) application |
| [<fieldset>](http://www.w3schools.com/tags/tag_fieldset.asp) | Groups related elements in a form |
| [<figcaption>](http://www.w3schools.com/tags/tag_figcaption.asp) | Defines a caption for a <figure> element |
| [<figure>](http://www.w3schools.com/tags/tag_figure.asp) | Specifies self-contained content |
| [<font>](http://www.w3schools.com/tags/tag_font.asp) | Not supported in HTML5. Use CSS instead. Defines font, color, and size for text |
| [<footer>](http://www.w3schools.com/tags/tag_footer.asp) | Defines a footer for a document or section |
| [<form>](http://www.w3schools.com/tags/tag_form.asp) | Defines an HTML form for user input |
| [<frame>](http://www.w3schools.com/tags/tag_frame.asp) | Not supported in HTML5. Defines a window (a frame) in a frameset |
| [<frameset>](http://www.w3schools.com/tags/tag_frameset.asp) | Not supported in HTML5. Defines a set of frames |
| [<h1> to <h6>](http://www.w3schools.com/tags/tag_hn.asp) | Defines HTML headings |
| [<head>](http://www.w3schools.com/tags/tag_head.asp) | Defines information about the document |
| [<header>](http://www.w3schools.com/tags/tag_header.asp) | Defines a header for a document or section |
| [<hr>](http://www.w3schools.com/tags/tag_hr.asp) | Defines a thematic change in the content |
| [<html>](http://www.w3schools.com/tags/tag_html.asp) | Defines the root of an HTML document |
| [<i>](http://www.w3schools.com/tags/tag_i.asp) | Defines a part of text in an alternate voice or mood |
| [<iframe>](http://www.w3schools.com/tags/tag_iframe.asp) | Defines an inline frame |
| [<img>](http://www.w3schools.com/tags/tag_img.asp) | Defines an image |
| [<input>](http://www.w3schools.com/tags/tag_input.asp) | Defines an input control |
| [<ins>](http://www.w3schools.com/tags/tag_ins.asp) | Defines a text that has been inserted into a document |
| [<kbd>](http://www.w3schools.com/tags/tag_kbd.asp) | Defines keyboard input |
| [<keygen>](http://www.w3schools.com/tags/tag_keygen.asp) | Defines a key-pair generator field (for forms) |
| [<label>](http://www.w3schools.com/tags/tag_label.asp) | Defines a label for an <input> element |
| [<legend>](http://www.w3schools.com/tags/tag_legend.asp) | Defines a caption for a <fieldset> element |
| [<li>](http://www.w3schools.com/tags/tag_li.asp) | Defines a list item |
| [<link>](http://www.w3schools.com/tags/tag_link.asp) | Defines the relationship between a document and an external resource (most used to link to style sheets) |
| [<main>](http://www.w3schools.com/tags/tag_main.asp) | Specifies the main content of a document |
| [<map>](http://www.w3schools.com/tags/tag_map.asp) | Defines a client-side image-map |
| [<mark>](http://www.w3schools.com/tags/tag_mark.asp) | Defines marked/highlighted text |
| [<menu>](http://www.w3schools.com/tags/tag_menu.asp) | Defines a list/menu of commands |
| [<menuitem>](http://www.w3schools.com/tags/tag_menuitem.asp) | Defines a command/menu item that the user can invoke from a popup menu |
| [<meta>](http://www.w3schools.com/tags/tag_meta.asp) | Defines metadata about an HTML document |
| [<meter>](http://www.w3schools.com/tags/tag_meter.asp) | Defines a scalar measurement within a known range (a gauge) |
| [<nav>](http://www.w3schools.com/tags/tag_nav.asp) | Defines navigation links |
| [<noframes>](http://www.w3schools.com/tags/tag_noframes.asp) | Not supported in HTML5. Defines an alternate content for users that do not support frames |
| [<noscript>](http://www.w3schools.com/tags/tag_noscript.asp) | Defines an alternate content for users that do not support client-side scripts |
| [<object>](http://www.w3schools.com/tags/tag_object.asp) | Defines an embedded object |
| [<ol>](http://www.w3schools.com/tags/tag_ol.asp) | Defines an ordered list |
| [<optgroup>](http://www.w3schools.com/tags/tag_optgroup.asp) | Defines a group of related options in a drop-down list |
| [<option>](http://www.w3schools.com/tags/tag_option.asp) | Defines an option in a drop-down list |
| [<output>](http://www.w3schools.com/tags/tag_output.asp) | Defines the result of a calculation |
| [<p>](http://www.w3schools.com/tags/tag_p.asp) | Defines a paragraph |
| [<param>](http://www.w3schools.com/tags/tag_param.asp) | Defines a parameter for an object |
| [<pre>](http://www.w3schools.com/tags/tag_pre.asp) | Defines preformatted text |
| [<progress>](http://www.w3schools.com/tags/tag_progress.asp) | Represents the progress of a task |
| [<q>](http://www.w3schools.com/tags/tag_q.asp) | Defines a short quotation |
| [<rp>](http://www.w3schools.com/tags/tag_rp.asp) | Defines what to show in browsers that do not support ruby annotations |
| [<rt>](http://www.w3schools.com/tags/tag_rt.asp) | Defines an explanation/pronunciation of characters (for East Asian typography) |
| [<ruby>](http://www.w3schools.com/tags/tag_ruby.asp) | Defines a ruby annotation (for East Asian typography) |
| [<s>](http://www.w3schools.com/tags/tag_s.asp) | Defines text that is no longer correct |
| [<samp>](http://www.w3schools.com/tags/tag_samp.asp) | Defines sample output from a computer program |
| [<script>](http://www.w3schools.com/tags/tag_script.asp) | Defines a client-side script |
| [<section>](http://www.w3schools.com/tags/tag_section.asp) | Defines a section in a document |
| [<select>](http://www.w3schools.com/tags/tag_select.asp) | Defines a drop-down list |
| [<small>](http://www.w3schools.com/tags/tag_small.asp) | Defines smaller text |
| [<source>](http://www.w3schools.com/tags/tag_source.asp) | Defines multiple media resources for media elements (<video> and <audio>) |
| [<span>](http://www.w3schools.com/tags/tag_span.asp) | Defines a section in a document |
| [<strike>](http://www.w3schools.com/tags/tag_strike.asp) | Not supported in HTML5. Use <del> or <s> instead. Defines strikethrough text |
| [<strong>](http://www.w3schools.com/tags/tag_strong.asp) | Defines important text |
| [<style>](http://www.w3schools.com/tags/tag_style.asp) | Defines style information for a document |
| [<sub>](http://www.w3schools.com/tags/tag_sub.asp) | Defines subscripted text |
| [<summary>](http://www.w3schools.com/tags/tag_summary.asp) | Defines a visible heading for a <details> element |
| [<sup>](http://www.w3schools.com/tags/tag_sup.asp) | Defines superscripted text |
| [<table>](http://www.w3schools.com/tags/tag_table.asp) | Defines a table |
| [<tbody>](http://www.w3schools.com/tags/tag_tbody.asp) | Groups the body content in a table |
| [<td>](http://www.w3schools.com/tags/tag_td.asp) | Defines a cell in a table |
| [<textarea>](http://www.w3schools.com/tags/tag_textarea.asp) | Defines a multiline input control (text area) |
| [<tfoot>](http://www.w3schools.com/tags/tag_tfoot.asp) | Groups the footer content in a table |
| [<th>](http://www.w3schools.com/tags/tag_th.asp) | Defines a header cell in a table |
| [<thead>](http://www.w3schools.com/tags/tag_thead.asp) | Groups the header content in a table |
| [<time>](http://www.w3schools.com/tags/tag_time.asp) | Defines a date/time |
| [<title>](http://www.w3schools.com/tags/tag_title.asp) | Defines a title for the document |
| [<tr>](http://www.w3schools.com/tags/tag_tr.asp) | Defines a row in a table |
| [<track>](http://www.w3schools.com/tags/tag_track.asp) | Defines text tracks for media elements (<video> and <audio>) |
| [<tt>](http://www.w3schools.com/tags/tag_tt.asp) | Not supported in HTML5. Use CSS instead. Defines teletype text |
| [<u>](http://www.w3schools.com/tags/tag_u.asp) | Defines text that should be stylistically different from normal text |
| [<ul>](http://www.w3schools.com/tags/tag_ul.asp) | Defines an unordered list |
| [<var>](http://www.w3schools.com/tags/tag_var.asp) | Defines a variable |
| [<video>](http://www.w3schools.com/tags/tag_video.asp) | Defines a video or movie |
| [<wbr>](http://www.w3schools.com/tags/tag_wbr.asp) | Defines a possible line-break |

# HTML Element Reference

[« Previous](http://www.w3schools.com/tags/default.asp)

[Next Reference »](http://www.w3schools.com/tags/ref_standardattributes.asp)

## HTML Tags Ordered by Category

= New in HTML5.

## Basic HTML

|  |  |
| --- | --- |
| **Tag** | **Description** |
| [<!DOCTYPE>](http://www.w3schools.com/tags/tag_doctype.asp) | Defines the document type |
| [<html>](http://www.w3schools.com/tags/tag_html.asp) | Defines an HTML document |
| [<title>](http://www.w3schools.com/tags/tag_title.asp) | Defines a title for the document |
| [<body>](http://www.w3schools.com/tags/tag_body.asp) | Defines the document's body |
| [<h1> to <h6>](http://www.w3schools.com/tags/tag_hn.asp) | Defines HTML headings |
| [<p>](http://www.w3schools.com/tags/tag_p.asp) | Defines a paragraph |
| [<br>](http://www.w3schools.com/tags/tag_br.asp) | Inserts a single line break |
| [<hr>](http://www.w3schools.com/tags/tag_hr.asp) | Defines a thematic change in the content |
| [<!--...-->](http://www.w3schools.com/tags/tag_comment.asp) | Defines a comment |

## Formatting

|  |  |
| --- | --- |
| **Tag** | **Description** |
| [<acronym>](http://www.w3schools.com/tags/tag_acronym.asp) | Not supported in HTML5. Use <abbr> instead. Defines an acronym |
| [<abbr>](http://www.w3schools.com/tags/tag_abbr.asp) | Defines an abbreviation or an acronym |
| [<address>](http://www.w3schools.com/tags/tag_address.asp) | Defines contact information for the author/owner of a document/article |
| [<b>](http://www.w3schools.com/tags/tag_b.asp) | Defines bold text |
| [<bdi>](http://www.w3schools.com/tags/tag_bdi.asp) | Isolates a part of text that might be formatted in a different direction from other text outside it |
| [<bdo>](http://www.w3schools.com/tags/tag_bdo.asp) | Overrides the current text direction |
| [<big>](http://www.w3schools.com/tags/tag_big.asp) | Not supported in HTML5. Use CSS instead. Defines big text |
| [<blockquote>](http://www.w3schools.com/tags/tag_blockquote.asp) | Defines a section that is quoted from another source |
| [<center>](http://www.w3schools.com/tags/tag_center.asp) | Not supported in HTML5. Use CSS instead. Defines centered text |
| [<cite>](http://www.w3schools.com/tags/tag_cite.asp) | Defines the title of a work |
| [<code>](http://www.w3schools.com/tags/tag_code.asp) | Defines a piece of computer code |
| [<del>](http://www.w3schools.com/tags/tag_del.asp) | Defines text that has been deleted from a document |
| [<dfn>](http://www.w3schools.com/tags/tag_dfn.asp) | Represents the defining instance of a term |
| [<em>](http://www.w3schools.com/tags/tag_em.asp) | Defines emphasized text |
| [<font>](http://www.w3schools.com/tags/tag_font.asp) | Not supported in HTML5. Use CSS instead. Defines font, color, and size for text |
| [<i>](http://www.w3schools.com/tags/tag_i.asp) | Defines a part of text in an alternate voice or mood |
| [<ins>](http://www.w3schools.com/tags/tag_ins.asp) | Defines a text that has been inserted into a document |
| [<kbd>](http://www.w3schools.com/tags/tag_kbd.asp) | Defines keyboard input |
| [<mark>](http://www.w3schools.com/tags/tag_mark.asp) | Defines marked/highlighted text |
| [<meter>](http://www.w3schools.com/tags/tag_meter.asp) | Defines a scalar measurement within a known range (a gauge) |
| [<pre>](http://www.w3schools.com/tags/tag_pre.asp) | Defines preformatted text |
| [<progress>](http://www.w3schools.com/tags/tag_progress.asp) | Represents the progress of a task |
| [<q>](http://www.w3schools.com/tags/tag_q.asp) | Defines a short quotation |
| [<rp>](http://www.w3schools.com/tags/tag_rp.asp) | Defines what to show in browsers that do not support ruby annotations |
| [<rt>](http://www.w3schools.com/tags/tag_rt.asp) | Defines an explanation/pronunciation of characters (for East Asian typography) |
| [<ruby>](http://www.w3schools.com/tags/tag_ruby.asp) | Defines a ruby annotation (for East Asian typography) |
| [<s>](http://www.w3schools.com/tags/tag_s.asp) | Defines text that is no longer correct |
| [<samp>](http://www.w3schools.com/tags/tag_samp.asp) | Defines sample output from a computer program |
| [<small>](http://www.w3schools.com/tags/tag_small.asp) | Defines smaller text |
| [<strike>](http://www.w3schools.com/tags/tag_strike.asp) | Not supported in HTML5. Use <del> or <s> instead. Defines strikethrough text |
| [<strong>](http://www.w3schools.com/tags/tag_strong.asp) | Defines important text |
| [<sub>](http://www.w3schools.com/tags/tag_sub.asp) | Defines subscripted text |
| [<sup>](http://www.w3schools.com/tags/tag_sup.asp) | Defines superscripted text |
| [<time>](http://www.w3schools.com/tags/tag_time.asp) | Defines a date/time |
| [<tt>](http://www.w3schools.com/tags/tag_tt.asp) | Not supported in HTML5. Use CSS instead. Defines teletype text |
| [<u>](http://www.w3schools.com/tags/tag_u.asp) | Defines text that should be stylistically different from normal text |
| [<var>](http://www.w3schools.com/tags/tag_var.asp) | Defines a variable |
| [<wbr>](http://www.w3schools.com/tags/tag_wbr.asp) | Defines a possible line-break |

## Forms and Input

|  |  |
| --- | --- |
| **Tag** | **Description** |
| [<form>](http://www.w3schools.com/tags/tag_form.asp) | Defines an HTML form for user input |
| [<input>](http://www.w3schools.com/tags/tag_input.asp) | Defines an input control |
| [<textarea>](http://www.w3schools.com/tags/tag_textarea.asp) | Defines a multiline input control (text area) |
| [<button>](http://www.w3schools.com/tags/tag_button.asp) | Defines a clickable button |
| [<select>](http://www.w3schools.com/tags/tag_select.asp) | Defines a drop-down list |
| [<optgroup>](http://www.w3schools.com/tags/tag_optgroup.asp) | Defines a group of related options in a drop-down list |
| [<option>](http://www.w3schools.com/tags/tag_option.asp) | Defines an option in a drop-down list |
| [<label>](http://www.w3schools.com/tags/tag_label.asp) | Defines a label for an <input> element |
| [<fieldset>](http://www.w3schools.com/tags/tag_fieldset.asp) | Groups related elements in a form |
| [<legend>](http://www.w3schools.com/tags/tag_legend.asp) | Defines a caption for a <fieldset> element |
| [<datalist>](http://www.w3schools.com/tags/tag_datalist.asp) | Specifies a list of pre-defined options for input controls |
| [<keygen>](http://www.w3schools.com/tags/tag_keygen.asp) | Defines a key-pair generator field (for forms) |
| [<output>](http://www.w3schools.com/tags/tag_output.asp) | Defines the result of a calculation |

## Frames

|  |  |
| --- | --- |
| **Tag** | **Description** |
| [<frame>](http://www.w3schools.com/tags/tag_frame.asp) | Not supported in HTML5. Defines a window (a frame) in a frameset |
| [<frameset>](http://www.w3schools.com/tags/tag_frameset.asp) | Not supported in HTML5. Defines a set of frames |
| [<noframes>](http://www.w3schools.com/tags/tag_noframes.asp) | Not supported in HTML5. Defines an alternate content for users that do not support frames |
| [<iframe>](http://www.w3schools.com/tags/tag_iframe.asp) | Defines an inline frame |

## Images

|  |  |
| --- | --- |
| **Tag** | **Description** |
| [<img>](http://www.w3schools.com/tags/tag_img.asp) | Defines an image |
| [<map>](http://www.w3schools.com/tags/tag_map.asp) | Defines a client-side image-map |
| [<area>](http://www.w3schools.com/tags/tag_area.asp) | Defines an area inside an image-map |
| [<canvas>](http://www.w3schools.com/tags/tag_canvas.asp) | Used to draw graphics, on the fly, via scripting (usually JavaScript) |
| [<figcaption>](http://www.w3schools.com/tags/tag_figcaption.asp) | Defines a caption for a <figure> element |
| [<figure>](http://www.w3schools.com/tags/tag_figure.asp) | Specifies self-contained content |

## Audio / Video

|  |  |
| --- | --- |
| **Tag** | **Description** |
| [<audio>](http://www.w3schools.com/tags/tag_audio.asp) | Defines sound content |
| [<source>](http://www.w3schools.com/tags/tag_source.asp) | Defines multiple media resources for media elements (<video> and <audio>) |
| [<track>](http://www.w3schools.com/tags/tag_track.asp) | Defines text tracks for media elements (<video> and <audio>) |
| [<video>](http://www.w3schools.com/tags/tag_video.asp) | Defines a video or movie |

## Links

|  |  |
| --- | --- |
| **Tag** | **Description** |
| [<a>](http://www.w3schools.com/tags/tag_a.asp) | Defines a hyperlink |
| [<link>](http://www.w3schools.com/tags/tag_link.asp) | Defines the relationship between a document and an external resource (most used to link to style sheets) |
| [<nav>](http://www.w3schools.com/tags/tag_nav.asp) | Defines navigation links |

## Lists

|  |  |
| --- | --- |
| **Tag** | **Description** |
| [<ul>](http://www.w3schools.com/tags/tag_ul.asp) | Defines an unordered list |
| [<ol>](http://www.w3schools.com/tags/tag_ol.asp) | Defines an ordered list |
| [<li>](http://www.w3schools.com/tags/tag_li.asp) | Defines a list item |
| [<dir>](http://www.w3schools.com/tags/tag_dir.asp) | Not supported in HTML5. Use <ul> instead. Defines a directory list |
| [<dl>](http://www.w3schools.com/tags/tag_dl.asp) | Defines a description list |
| [<dt>](http://www.w3schools.com/tags/tag_dt.asp) | Defines a term/name in a description list |
| [<dd>](http://www.w3schools.com/tags/tag_dd.asp) | Defines a description of a term/name in a description list |
| [<menu>](http://www.w3schools.com/tags/tag_menu.asp) | Defines a list/menu of commands |
| [<menuitem>](http://www.w3schools.com/tags/tag_menuitem.asp) | Defines a command/menu item that the user can invoke from a popup menu |

## Tables

|  |  |
| --- | --- |
| **Tag** | **Description** |
| [<table>](http://www.w3schools.com/tags/tag_table.asp) | Defines a table |
| [<caption>](http://www.w3schools.com/tags/tag_caption.asp) | Defines a table caption |
| [<th>](http://www.w3schools.com/tags/tag_th.asp) | Defines a header cell in a table |
| [<tr>](http://www.w3schools.com/tags/tag_tr.asp) | Defines a row in a table |
| [<td>](http://www.w3schools.com/tags/tag_td.asp) | Defines a cell in a table |
| [<thead>](http://www.w3schools.com/tags/tag_thead.asp) | Groups the header content in a table |
| [<tbody>](http://www.w3schools.com/tags/tag_tbody.asp) | Groups the body content in a table |
| [<tfoot>](http://www.w3schools.com/tags/tag_tfoot.asp) | Groups the footer content in a table |
| [<col>](http://www.w3schools.com/tags/tag_col.asp) | Specifies column properties for each column within a <colgroup> element |
| [<colgroup>](http://www.w3schools.com/tags/tag_colgroup.asp) | Specifies a group of one or more columns in a table for formatting |

## Styles and Semantics

|  |  |
| --- | --- |
| **Tag** | **Description** |
| [<style>](http://www.w3schools.com/tags/tag_style.asp) | Defines style information for a document |
| [<div>](http://www.w3schools.com/tags/tag_div.asp) | Defines a section in a document |
| [<span>](http://www.w3schools.com/tags/tag_span.asp) | Defines a section in a document |
| [<header>](http://www.w3schools.com/tags/tag_header.asp) | Defines a header for a document or section |
| [<footer>](http://www.w3schools.com/tags/tag_footer.asp) | Defines a footer for a document or section |
| [<main>](http://www.w3schools.com/tags/tag_main.asp) | Specifies the main content of a document |
| [<section>](http://www.w3schools.com/tags/tag_section.asp) | Defines a section in a document |
| [<article>](http://www.w3schools.com/tags/tag_article.asp) | Defines an article |
| [<aside>](http://www.w3schools.com/tags/tag_aside.asp) | Defines content aside from the page content |
| [<details>](http://www.w3schools.com/tags/tag_details.asp) | Defines additional details that the user can view or hide |
| [<dialog>](http://www.w3schools.com/tags/tag_dialog.asp) | Defines a dialog box or window |
| [<summary>](http://www.w3schools.com/tags/tag_summary.asp) | Defines a visible heading for a <details> element |

## Meta Info

|  |  |
| --- | --- |
| **Tag** | **Description** |
| [<head>](http://www.w3schools.com/tags/tag_head.asp) | Defines information about the document |
| [<meta>](http://www.w3schools.com/tags/tag_meta.asp) | Defines metadata about an HTML document |
| [<base>](http://www.w3schools.com/tags/tag_base.asp) | Specifies the base URL/target for all relative URLs in a document |
| [<basefont>](http://www.w3schools.com/tags/tag_basefont.asp) | Not supported in HTML5. Use CSS instead. Specifies a default color, size, and font for all text in a document |

## Programming

|  |  |
| --- | --- |
| **Tag** | **Description** |
| [<script>](http://www.w3schools.com/tags/tag_script.asp) | Defines a client-side script |
| [<noscript>](http://www.w3schools.com/tags/tag_noscript.asp) | Defines an alternate content for users that do not support client-side scripts |
| [<applet>](http://www.w3schools.com/tags/tag_applet.asp) | Not supported in HTML5. Use <embed> or <object> instead. Defines an embedded applet |
| [<embed>](http://www.w3schools.com/tags/tag_embed.asp) | Defines a container for an external (non-HTML) application |
| [<object>](http://www.w3schools.com/tags/tag_object.asp) | Defines an embedded object |
| [<param>](http://www.w3schools.com/tags/tag_param.asp) | Defines a parameter for an object |

# HTML Global Attributes

[« Previous](http://www.w3schools.com/tags/ref_byfunc.asp)

[Next Reference »](http://www.w3schools.com/tags/ref_eventattributes.asp)

HTML attributes give elements meaning and context.

The global attributes below can be used on **any** HTML element.

## HTML Global Attributes

= Attribute added in HTML5.

|  |  |
| --- | --- |
| **Attribute** | **Description** |
| [accesskey](http://www.w3schools.com/tags/att_global_accesskey.asp) | Specifies a shortcut key to activate/focus an element |
| [class](http://www.w3schools.com/tags/att_global_class.asp) | Specifies one or more classnames for an element (refers to a class in a style sheet) |
| [contenteditable](http://www.w3schools.com/tags/att_global_contenteditable.asp) | Specifies whether the content of an element is editable or not |
| [contextmenu](http://www.w3schools.com/tags/att_global_contextmenu.asp) | Specifies a context menu for an element. The context menu appears when a user right-clicks on the element |
| [data-\*](http://www.w3schools.com/tags/att_global_data.asp) | Used to store custom data private to the page or application |
| [dir](http://www.w3schools.com/tags/att_global_dir.asp) | Specifies the text direction for the content in an element |
| [draggable](http://www.w3schools.com/tags/att_global_draggable.asp) | Specifies whether an element is draggable or not |
| [dropzone](http://www.w3schools.com/tags/att_global_dropzone.asp) | Specifies whether the dragged data is copied, moved, or linked, when dropped |
| [hidden](http://www.w3schools.com/tags/att_global_hidden.asp) | Specifies that an element is not yet, or is no longer, relevant |
| [id](http://www.w3schools.com/tags/att_global_id.asp) | Specifies a unique id for an element |
| [lang](http://www.w3schools.com/tags/att_global_lang.asp) | Specifies the language of the element's content |
| [spellcheck](http://www.w3schools.com/tags/att_global_spellcheck.asp) | Specifies whether the element is to have its spelling and grammar checked or not |
| [style](http://www.w3schools.com/tags/att_global_style.asp) | Specifies an inline CSS style for an element |
| [tabindex](http://www.w3schools.com/tags/att_global_tabindex.asp) | Specifies the tabbing order of an element |
| [title](http://www.w3schools.com/tags/att_global_title.asp) | Specifies extra information about an element |
| [translate](http://www.w3schools.com/tags/att_global_translate.asp) | Specifies whether the content of an element should be translated or not |

# HTML Event Attributes

[« Previous](http://www.w3schools.com/tags/ref_standardattributes.asp)

[Next Reference »](http://www.w3schools.com/tags/ref_canvas.asp)

## Global Event Attributes

HTML 4 added the ability to let events trigger actions in a browser, like starting a JavaScript when a user clicks on an element.

To learn more about programming events, please visit our [JavaScript tutorial](http://www.w3schools.com/js/default.asp).

Below are the global event attributes that can be added to HTML elements to define event actions.

= New event attributes in HTML5.

## Window Event Attributes

Events triggered for the window object (applies to the <body> tag):

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| [onafterprint](http://www.w3schools.com/tags/ev_onafterprint.asp) | *script* | Script to be run after the document is printed |
| [onbeforeprint](http://www.w3schools.com/tags/ev_onbeforeprint.asp) | *script* | Script to be run before the document is printed |
| [onbeforeunload](http://www.w3schools.com/tags/ev_onbeforeunload.asp) | *script* | Script to be run when the document is about to be unloaded |
| onerror | *script* | Script to be run when an error occur |
| [onhashchange](http://www.w3schools.com/tags/ev_onhashchange.asp) | *script* | Script to be run when there has been changes to the anchor part of the a URL |
| [onload](http://www.w3schools.com/tags/ev_onload.asp) | *script* | Fires after the page is finished loading |
| onmessage | *script* | Script to be run when the message is triggered |
| [onoffline](http://www.w3schools.com/tags/ev_onoffline.asp) | *script* | Script to be run when the browser starts to work offline |
| [ononline](http://www.w3schools.com/tags/ev_ononline.asp) | *script* | Script to be run when the browser starts to work online |
| onpagehide | *script* | Script to be run when a user navigates away from a page |
| [onpageshow](http://www.w3schools.com/tags/ev_onpageshow.asp) | *script* | Script to be run when a user navigates to a page |
| onpopstate | *script* | Script to be run when the window's history changes |
| [onresize](http://www.w3schools.com/tags/ev_onresize.asp) | *script* | Fires when the browser window is resized |
| onstorage | *script* | Script to be run when a Web Storage area is updated |
| [onunload](http://www.w3schools.com/tags/ev_onunload.asp) | *script* | Fires once a page has unloaded (or the browser window has been closed) |

## Form Events

Events triggered by actions inside a HTML form (applies to almost all HTML elements, but is most used in form elements):

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| [onblur](http://www.w3schools.com/tags/ev_onblur.asp) | *script* | Fires the moment that the element loses focus |
| [onchange](http://www.w3schools.com/tags/ev_onchange.asp) | *script* | Fires the moment when the value of the element is changed |
| [oncontextmenu](http://www.w3schools.com/tags/ev_oncontextmenu.asp) | *script* | Script to be run when a context menu is triggered |
| [onfocus](http://www.w3schools.com/tags/ev_onfocus.asp) | *script* | Fires the moment when the element gets focus |
| [oninput](http://www.w3schools.com/tags/ev_oninput.asp) | *script* | Script to be run when an element gets user input |
| [oninvalid](http://www.w3schools.com/tags/ev_oninvalid.asp) | *script* | Script to be run when an element is invalid |
| [onreset](http://www.w3schools.com/tags/ev_onreset.asp) | *script* | Fires when the Reset button in a form is clicked |
| [onsearch](http://www.w3schools.com/tags/ev_onsearch.asp) | *script* | Fires when the user writes something in a search field (for <input="search">) |
| [onselect](http://www.w3schools.com/tags/ev_onselect.asp) | *script* | Fires after some text has been selected in an element |
| [onsubmit](http://www.w3schools.com/tags/ev_onsubmit.asp) | *script* | Fires when a form is submitted |

## Keyboard Events

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| [onkeydown](http://www.w3schools.com/tags/ev_onkeydown.asp) | *script* | Fires when a user is pressing a key |
| [onkeypress](http://www.w3schools.com/tags/ev_onkeypress.asp) | *script* | Fires when a user presses a key |
| [onkeyup](http://www.w3schools.com/tags/ev_onkeyup.asp) | *script* | Fires when a user releases a key |

## Mouse Events

Events triggered by a mouse, or similar user actions:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| [onclick](http://www.w3schools.com/tags/ev_onclick.asp) | *script* | Fires on a mouse click on the element |
| [ondblclick](http://www.w3schools.com/tags/ev_ondblclick.asp) | *script* | Fires on a mouse double-click on the element |
| [ondrag](http://www.w3schools.com/tags/ev_ondrag.asp) | *script* | Script to be run when an element is dragged |
| [ondragend](http://www.w3schools.com/tags/ev_ondragend.asp) | *script* | Script to be run at the end of a drag operation |
| [ondragenter](http://www.w3schools.com/tags/ev_ondragenter.asp) | *script* | Script to be run when an element has been dragged to a valid drop target |
| [ondragleave](http://www.w3schools.com/tags/ev_ondragleave.asp) | *script* | Script to be run when an element leaves a valid drop target |
| [ondragover](http://www.w3schools.com/tags/ev_ondragover.asp) | *script* | Script to be run when an element is being dragged over a valid drop target |
| [ondragstart](http://www.w3schools.com/tags/ev_ondragstart.asp) | *script* | Script to be run at the start of a drag operation |
| [ondrop](http://www.w3schools.com/tags/ev_ondrop.asp) | *script* | Script to be run when dragged element is being dropped |
| [onmousedown](http://www.w3schools.com/tags/ev_onmousedown.asp) | *script* | Fires when a mouse button is pressed down on an element |
| [onmousemove](http://www.w3schools.com/tags/ev_onmousemove.asp) | *script* | Fires when the mouse pointer is moving while it is over an element |
| [onmouseout](http://www.w3schools.com/tags/ev_onmouseout.asp) | *script* | Fires when the mouse pointer moves out of an element |
| [onmouseover](http://www.w3schools.com/tags/ev_onmouseover.asp) | *script* | Fires when the mouse pointer moves over an element |
| [onmouseup](http://www.w3schools.com/tags/ev_onmouseup.asp) | *script* | Fires when a mouse button is released over an element |
| onmousewheel | *script* | Deprecated. Use the [onwheel](http://www.w3schools.com/tags/ev_onwheel.asp) attribute instead |
| [onscroll](http://www.w3schools.com/tags/ev_onscroll.asp) | *script* | Script to be run when an element's scrollbar is being scrolled |
| [onwheel](http://www.w3schools.com/tags/ev_onwheel.asp) | *script* | Fires when the mouse wheel rolls up or down over an element |

## Clipboard Events

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| [oncopy](http://www.w3schools.com/tags/ev_oncopy.asp) | *script* | Fires when the user copies the content of an element |
| [oncut](http://www.w3schools.com/tags/ev_oncut.asp) | *script* | Fires when the user cuts the content of an element |
| [onpaste](http://www.w3schools.com/tags/ev_onpaste.asp) | *script* | Fires when the user pastes some content in an element |

## Media Events

Events triggered by medias like videos, images and audio (applies to all HTML elements, but is most common in media elements, like <audio>, <embed>, <img>, <object>, and <video>):

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| onabort | *script* | Script to be run on abort |
| oncanplay | *script* | Script to be run when a file is ready to start playing (when it has buffered enough to begin) |
| oncanplaythrough | *script* | Script to be run when a file can be played all the way to the end without pausing for buffering |
| oncuechange | *script* | Script to be run when the cue changes in a <track> element |
| ondurationchange | *script* | Script to be run when the length of the media changes |
| onemptied | *script* | Script to be run when something bad happens and the file is suddenly unavailable (like unexpectedly disconnects) |
| onended | *script* | Script to be run when the media has reach the end (a useful event for messages like "thanks for listening") |
| onerror | *script* | Script to be run when an error occurs when the file is being loaded |
| onloadeddata | *script* | Script to be run when media data is loaded |
| onloadedmetadata | *script* | Script to be run when meta data (like dimensions and duration) are loaded |
| onloadstart | *script* | Script to be run just as the file begins to load before anything is actually loaded |
| onpause | *script* | Script to be run when the media is paused either by the user or programmatically |
| onplay | *script* | Script to be run when the media is ready to start playing |
| onplaying | *script* | Script to be run when the media actually has started playing |
| onprogress | *script* | Script to be run when the browser is in the process of getting the media data |
| onratechange | *script* | Script to be run each time the playback rate changes (like when a user switches to a slow motion or fast forward mode) |
| onseeked | *script* | Script to be run when the seeking attribute is set to false indicating that seeking has ended |
| onseeking | *script* | Script to be run when the seeking attribute is set to true indicating that seeking is active |
| onstalled | *script* | Script to be run when the browser is unable to fetch the media data for whatever reason |
| onsuspend | *script* | Script to be run when fetching the media data is stopped before it is completely loaded for whatever reason |
| ontimeupdate | *script* | Script to be run when the playing position has changed (like when the user fast forwards to a different point in the media) |
| onvolumechange | *script* | Script to be run each time the volume is changed which (includes setting the volume to "mute") |
| onwaiting | *script* | Script to be run when the media has paused but is expected to resume (like when the media pauses to buffer more data) |

## Misc Events

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| [onerror](http://www.w3schools.com/tags/ev_onerror.asp) | *script* | Fires when an error occurs while loading an external file |
| [onshow](http://www.w3schools.com/tags/ev_onshow.asp) | *script* | Fires when a <menu> element is shown as a context menu |
| [ontoggle](http://www.w3schools.com/tags/ev_ontoggle.asp) | *script* | Fires when the user opens or closes the <details> element |

# HTML Canvas Reference

[« Previous](http://www.w3schools.com/tags/ref_eventattributes.asp)

[Next Reference »](http://www.w3schools.com/tags/ref_av_dom.asp)

## Description

The HTML5 <canvas> tag is used to draw graphics, on the fly, via scripting (usually JavaScript).

However, the <canvas> element has no drawing abilities of its own (it is only a container for graphics) - you must use a script to actually draw the graphics.

The getContext() method returns an object that provides methods and properties for drawing on the canvas.

This reference will cover the properties and methods of the getContext("2d") object, which can be used to draw text, lines, boxes, circles, and more - on the canvas.

## Browser Support

The numbers in the table specify the first browser version that fully supports the element.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |
| <canvas> | 4.0 | 9.0 | 2.0 | 3.1 | 9.0 |

Internet Explorer 9, Firefox, Opera, Chrome, and Safari support <canvas> and its properties and methods.

**Note:** Internet Explorer 8 and earlier versions, do not support the <canvas> element.

## Colors, Styles, and Shadows

|  |  |
| --- | --- |
| **Property** | **Description** |
| [fillStyle](http://www.w3schools.com/tags/canvas_fillstyle.asp) | Sets or returns the color, gradient, or pattern used to fill the drawing |
| [strokeStyle](http://www.w3schools.com/tags/canvas_strokestyle.asp) | Sets or returns the color, gradient, or pattern used for strokes |
| [shadowColor](http://www.w3schools.com/tags/canvas_shadowcolor.asp) | Sets or returns the color to use for shadows |
| [shadowBlur](http://www.w3schools.com/tags/canvas_shadowblur.asp) | Sets or returns the blur level for shadows |
| [shadowOffsetX](http://www.w3schools.com/tags/canvas_shadowoffsetx.asp) | Sets or returns the horizontal distance of the shadow from the shape |
| [shadowOffsetY](http://www.w3schools.com/tags/canvas_shadowoffsety.asp) | Sets or returns the vertical distance of the shadow from the shape |

|  |  |
| --- | --- |
| **Method** | **Description** |
| [createLinearGradient()](http://www.w3schools.com/tags/canvas_createlineargradient.asp) | Creates a linear gradient (to use on canvas content) |
| [createPattern()](http://www.w3schools.com/tags/canvas_createpattern.asp) | Repeats a specified element in the specified direction |
| [createRadialGradient()](http://www.w3schools.com/tags/canvas_createradialgradient.asp) | Creates a radial/circular gradient (to use on canvas content) |
| [addColorStop()](http://www.w3schools.com/tags/canvas_addcolorstop.asp) | Specifies the colors and stop positions in a gradient object |

## Line Styles

|  |  |
| --- | --- |
| **Property** | **Description** |
| [lineCap](http://www.w3schools.com/tags/canvas_linecap.asp) | Sets or returns the style of the end caps for a line |
| [lineJoin](http://www.w3schools.com/tags/canvas_linejoin.asp) | Sets or returns the type of corner created, when two lines meet |
| [lineWidth](http://www.w3schools.com/tags/canvas_linewidth.asp) | Sets or returns the current line width |
| [miterLimit](http://www.w3schools.com/tags/canvas_miterlimit.asp) | Sets or returns the maximum miter length |

## Rectangles

|  |  |
| --- | --- |
| **Method** | **Description** |
| [rect()](http://www.w3schools.com/tags/canvas_rect.asp) | Creates a rectangle |
| [fillRect()](http://www.w3schools.com/tags/canvas_fillrect.asp) | Draws a "filled" rectangle |
| [strokeRect()](http://www.w3schools.com/tags/canvas_strokerect.asp) | Draws a rectangle (no fill) |
| [clearRect()](http://www.w3schools.com/tags/canvas_clearrect.asp) | Clears the specified pixels within a given rectangle |

## Paths

|  |  |
| --- | --- |
| **Method** | **Description** |
| [fill()](http://www.w3schools.com/tags/canvas_fill.asp) | Fills the current drawing (path) |
| [stroke()](http://www.w3schools.com/tags/canvas_stroke.asp) | Actually draws the path you have defined |
| [beginPath()](http://www.w3schools.com/tags/canvas_beginpath.asp) | Begins a path, or resets the current path |
| [moveTo()](http://www.w3schools.com/tags/canvas_moveto.asp) | Moves the path to the specified point in the canvas, without creating a line |
| [closePath()](http://www.w3schools.com/tags/canvas_closepath.asp) | Creates a path from the current point back to the starting point |
| [lineTo()](http://www.w3schools.com/tags/canvas_lineto.asp) | Adds a new point and creates a line from that point to the last specified point in the canvas |
| [clip()](http://www.w3schools.com/tags/canvas_clip.asp) | Clips a region of any shape and size from the original canvas |
| [quadraticCurveTo()](http://www.w3schools.com/tags/canvas_quadraticcurveto.asp) | Creates a quadratic Bézier curve |
| [bezierCurveTo()](http://www.w3schools.com/tags/canvas_beziercurveto.asp) | Creates a cubic Bézier curve |
| [arc()](http://www.w3schools.com/tags/canvas_arc.asp) | Creates an arc/curve (used to create circles, or parts of circles) |
| [arcTo()](http://www.w3schools.com/tags/canvas_arcto.asp) | Creates an arc/curve between two tangents |
| [isPointInPath()](http://www.w3schools.com/tags/canvas_ispointinpath.asp) | Returns true if the specified point is in the current path, otherwise false |

## Transformations

|  |  |
| --- | --- |
| **Method** | **Description** |
| [scale()](http://www.w3schools.com/tags/canvas_scale.asp) | Scales the current drawing bigger or smaller |
| [rotate()](http://www.w3schools.com/tags/canvas_rotate.asp) | Rotates the current drawing |
| [translate()](http://www.w3schools.com/tags/canvas_translate.asp) | Remaps the (0,0) position on the canvas |
| [transform()](http://www.w3schools.com/tags/canvas_transform.asp) | Replaces the current transformation matrix for the drawing |
| [setTransform()](http://www.w3schools.com/tags/canvas_settransform.asp) | Resets the current transform to the identity matrix. Then runs [transform()](http://www.w3schools.com/tags/canvas_transform.asp) |

## Text

|  |  |
| --- | --- |
| **Property** | **Description** |
| [font](http://www.w3schools.com/tags/canvas_font.asp) | Sets or returns the current font properties for text content |
| [textAlign](http://www.w3schools.com/tags/canvas_textalign.asp) | Sets or returns the current alignment for text content |
| [textBaseline](http://www.w3schools.com/tags/canvas_textbaseline.asp) | Sets or returns the current text baseline used when drawing text |

|  |  |
| --- | --- |
| **Method** | **Description** |
| [fillText()](http://www.w3schools.com/tags/canvas_filltext.asp) | Draws "filled" text on the canvas |
| [strokeText()](http://www.w3schools.com/tags/canvas_stroketext.asp) | Draws text on the canvas (no fill) |
| [measureText()](http://www.w3schools.com/tags/canvas_measuretext.asp) | Returns an object that contains the width of the specified text |

## Image Drawing

|  |  |
| --- | --- |
| **Method** | **Description** |
| [drawImage()](http://www.w3schools.com/tags/canvas_drawimage.asp) | Draws an image, canvas, or video onto the canvas |

## Pixel Manipulation

|  |  |
| --- | --- |
| **Property** | **Description** |
| [width](http://www.w3schools.com/tags/canvas_imagedata_width.asp) | Returns the width of an ImageData object |
| [height](http://www.w3schools.com/tags/canvas_imagedata_height.asp) | Returns the height of an ImageData object |
| [data](http://www.w3schools.com/tags/canvas_imagedata_data.asp) | Returns an object that contains image data of a specified ImageData object |

|  |  |
| --- | --- |
| **Method** | **Description** |
| [createImageData()](http://www.w3schools.com/tags/canvas_createimagedata.asp) | Creates a new, blank ImageData object |
| [getImageData()](http://www.w3schools.com/tags/canvas_getimagedata.asp) | Returns an ImageData object that copies the pixel data for the specified rectangle on a canvas |
| [putImageData()](http://www.w3schools.com/tags/canvas_putimagedata.asp) | Puts the image data (from a specified ImageData object) back onto the canvas |

## Compositing

|  |  |
| --- | --- |
| **Property** | **Description** |
| [globalAlpha](http://www.w3schools.com/tags/canvas_globalalpha.asp) | Sets or returns the current alpha or transparency value of the drawing |
| [globalCompositeOperation](http://www.w3schools.com/tags/canvas_globalcompositeoperation.asp) | Sets or returns how a new image are drawn onto an existing image |

## Other

|  |  |
| --- | --- |
| **Method** | **Description** |
| save() | Saves the state of the current context |
| restore() | Returns previously saved path state and attributes |
| createEvent() |  |
| getContext() |  |
| toDataURL() |  |

# HTML Audio/Video DOM Reference

[« Previous](http://www.w3schools.com/tags/ref_canvas.asp)

[Next Reference »](http://www.w3schools.com/tags/ref_html_dtd.asp)

## HTML Audio and Video DOM Reference

The HTML5 DOM has methods, properties, and events for the <audio> and <video> elements.

These methods, properties, and events allow you to manipulate <audio> and <video> elements using JavaScript.

## HTML Audio/Video Methods

|  |  |
| --- | --- |
| **Method** | **Description** |
| [addTextTrack()](http://www.w3schools.com/tags/av_met_addtexttrack.asp) | Adds a new text track to the audio/video |
| [canPlayType()](http://www.w3schools.com/tags/av_met_canplaytype.asp) | Checks if the browser can play the specified audio/video type |
| [load()](http://www.w3schools.com/tags/av_met_load.asp) | Re-loads the audio/video element |
| [play()](http://www.w3schools.com/tags/av_met_play.asp) | Starts playing the audio/video |
| [pause()](http://www.w3schools.com/tags/av_met_pause.asp) | Pauses the currently playing audio/video |

## HTML Audio/Video Properties

|  |  |
| --- | --- |
| **Property** | **Description** |
| [audioTracks](http://www.w3schools.com/tags/av_prop_audiotracks.asp) | Returns an AudioTrackList object representing available audio tracks |
| [autoplay](http://www.w3schools.com/tags/av_prop_autoplay.asp) | Sets or returns whether the audio/video should start playing as soon as it is loaded |
| [buffered](http://www.w3schools.com/tags/av_prop_buffered.asp) | Returns a TimeRanges object representing the buffered parts of the audio/video |
| [controller](http://www.w3schools.com/tags/av_prop_controller.asp) | Returns the MediaController object representing the current media controller of the audio/video |
| [controls](http://www.w3schools.com/tags/av_prop_controls.asp) | Sets or returns whether the audio/video should display controls (like play/pause etc.) |
| crossOrigin | Sets or returns the CORS settings of the audio/video |
| [currentSrc](http://www.w3schools.com/tags/av_prop_currentsrc.asp) | Returns the URL of the current audio/video |
| [currentTime](http://www.w3schools.com/tags/av_prop_currenttime.asp) | Sets or returns the current playback position in the audio/video (in seconds) |
| [defaultMuted](http://www.w3schools.com/tags/av_prop_defaultmuted.asp) | Sets or returns whether the audio/video should be muted by default |
| [defaultPlaybackRate](http://www.w3schools.com/tags/av_prop_defaultplaybackrate.asp) | Sets or returns the default speed of the audio/video playback |
| [duration](http://www.w3schools.com/tags/av_prop_duration.asp) | Returns the length of the current audio/video (in seconds) |
| [ended](http://www.w3schools.com/tags/av_prop_ended.asp) | Returns whether the playback of the audio/video has ended or not |
| [error](http://www.w3schools.com/tags/av_prop_error.asp) | Returns a MediaError object representing the error state of the audio/video |
| [loop](http://www.w3schools.com/tags/av_prop_loop.asp) | Sets or returns whether the audio/video should start over again when finished |
| [mediaGroup](http://www.w3schools.com/tags/av_prop_mediagroup.asp) | Sets or returns the group the audio/video belongs to (used to link multiple audio/video elements) |
| [muted](http://www.w3schools.com/tags/av_prop_muted.asp) | Sets or returns whether the audio/video is muted or not |
| [networkState](http://www.w3schools.com/tags/av_prop_networkstate.asp) | Returns the current network state of the audio/video |
| [paused](http://www.w3schools.com/tags/av_prop_paused.asp) | Returns whether the audio/video is paused or not |
| [playbackRate](http://www.w3schools.com/tags/av_prop_playbackrate.asp) | Sets or returns the speed of the audio/video playback |
| [played](http://www.w3schools.com/tags/av_prop_played.asp) | Returns a TimeRanges object representing the played parts of the audio/video |
| [preload](http://www.w3schools.com/tags/av_prop_preload.asp) | Sets or returns whether the audio/video should be loaded when the page loads |
| [readyState](http://www.w3schools.com/tags/av_prop_readystate.asp) | Returns the current ready state of the audio/video |
| [seekable](http://www.w3schools.com/tags/av_prop_seekable.asp) | Returns a TimeRanges object representing the seekable parts of the audio/video |
| [seeking](http://www.w3schools.com/tags/av_prop_seeking.asp) | Returns whether the user is currently seeking in the audio/video |
| [src](http://www.w3schools.com/tags/av_prop_src.asp) | Sets or returns the current source of the audio/video element |
| [startDate](http://www.w3schools.com/tags/av_prop_startdate.asp) | Returns a Date object representing the current time offset |
| [textTracks](http://www.w3schools.com/tags/av_prop_texttracks.asp) | Returns a TextTrackList object representing the available text tracks |
| [videoTracks](http://www.w3schools.com/tags/av_prop_videotracks.asp) | Returns a VideoTrackList object representing the available video tracks |
| [volume](http://www.w3schools.com/tags/av_prop_volume.asp) | Sets or returns the volume of the audio/video |

## HTML Audio/Video Events

|  |  |
| --- | --- |
| **Event** | **Description** |
| [abort](http://www.w3schools.com/tags/av_event_abort.asp) | Fires when the loading of an audio/video is aborted |
| [canplay](http://www.w3schools.com/tags/av_event_canplay.asp) | Fires when the browser can start playing the audio/video |
| [canplaythrough](http://www.w3schools.com/tags/av_event_canplaythrough.asp) | Fires when the browser can play through the audio/video without stopping for buffering |
| [durationchange](http://www.w3schools.com/tags/av_event_durationchange.asp) | Fires when the duration of the audio/video is changed |
| emptied | Fires when the current playlist is empty |
| [ended](http://www.w3schools.com/tags/av_event_ended.asp) | Fires when the current playlist is ended |
| [error](http://www.w3schools.com/tags/av_event_error.asp) | Fires when an error occurred during the loading of an audio/video |
| [loadeddata](http://www.w3schools.com/tags/av_event_loadeddata.asp) | Fires when the browser has loaded the current frame of the audio/video |
| [loadedmetadata](http://www.w3schools.com/tags/av_event_loadedmetadata.asp) | Fires when the browser has loaded meta data for the audio/video |
| [loadstart](http://www.w3schools.com/tags/av_event_loadstart.asp) | Fires when the browser starts looking for the audio/video |
| [pause](http://www.w3schools.com/tags/av_event_pause.asp) | Fires when the audio/video has been paused |
| [play](http://www.w3schools.com/tags/av_event_play.asp) | Fires when the audio/video has been started or is no longer paused |
| [playing](http://www.w3schools.com/tags/av_event_playing.asp) | Fires when the audio/video is playing after having been paused or stopped for buffering |
| [progress](http://www.w3schools.com/tags/av_event_progress.asp) | Fires when the browser is downloading the audio/video |
| [ratechange](http://www.w3schools.com/tags/av_event_ratechange.asp) | Fires when the playing speed of the audio/video is changed |
| [seeked](http://www.w3schools.com/tags/av_event_seeked.asp) | Fires when the user is finished moving/skipping to a new position in the audio/video |
| [seeking](http://www.w3schools.com/tags/av_event_seeking.asp) | Fires when the user starts moving/skipping to a new position in the audio/video |
| [stalled](http://www.w3schools.com/tags/av_event_stalled.asp) | Fires when the browser is trying to get media data, but data is not available |
| [suspend](http://www.w3schools.com/tags/av_event_suspend.asp) | Fires when the browser is intentionally not getting media data |
| [timeupdate](http://www.w3schools.com/tags/av_event_timeupdate.asp) | Fires when the current playback position has changed |
| [volumechange](http://www.w3schools.com/tags/av_event_volumechange.asp) | Fires when the volume has been changed |
| [waiting](http://www.w3schools.com/tags/av_event_waiting.asp) | Fires when the video stops because it needs to buffer the next frame |

# HTML Elements and Valid DOCTYPES

[« Previous](http://www.w3schools.com/tags/ref_av_dom.asp)

[Next Reference »](http://www.w3schools.com/tags/ref_colornames.asp)

## HTML Elements - Valid DOCTYPES

The table below lists all HTML elements, and shows what [!DOCTYPE](http://www.w3schools.com/tags/tag_doctype.asp) each element appears in.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  | **HTML 4.01 / XHTML 1.0** | |  |  |
| **Tag** | **HTML5** | **Transitional** | **Strict** | **Frameset** | **XHTML 1.1** |
| [<a>](http://www.w3schools.com/tags/tag_a.asp) | Yes | Yes | Yes | Yes | Yes |
| [<abbr>](http://www.w3schools.com/tags/tag_abbr.asp) | Yes | Yes | Yes | Yes | Yes |
| [<acronym>](http://www.w3schools.com/tags/tag_acronym.asp) | No | Yes | Yes | Yes | Yes |
| [<address>](http://www.w3schools.com/tags/tag_address.asp) | Yes | Yes | Yes | Yes | Yes |
| [<applet>](http://www.w3schools.com/tags/tag_applet.asp) | No | Yes | No | Yes | No |
| [<area>](http://www.w3schools.com/tags/tag_area.asp) | Yes | Yes | Yes | Yes | No |
| [<article>](http://www.w3schools.com/tags/tag_article.asp) | Yes | No | No | No | No |
| [<aside>](http://www.w3schools.com/tags/tag_aside.asp) | Yes | No | No | No | No |
| [<audio>](http://www.w3schools.com/tags/tag_audio.asp) | Yes | No | No | No | No |
| [<b>](http://www.w3schools.com/tags/tag_b.asp) | Yes | Yes | Yes | Yes | Yes |
| [<base>](http://www.w3schools.com/tags/tag_base.asp) | Yes | Yes | Yes | Yes | Yes |
| [<basefont>](http://www.w3schools.com/tags/tag_basefont.asp) | No | Yes | No | Yes | No |
| [<bdi>](http://www.w3schools.com/tags/tag_bdi.asp) | Yes | No | No | No | No |
| [<bdo>](http://www.w3schools.com/tags/tag_bdo.asp) | Yes | Yes | Yes | Yes | No |
| [<big>](http://www.w3schools.com/tags/tag_big.asp) | No | Yes | Yes | Yes | Yes |
| [<blockquote>](http://www.w3schools.com/tags/tag_blockquote.asp) | Yes | Yes | Yes | Yes | Yes |
| [<body>](http://www.w3schools.com/tags/tag_body.asp) | Yes | Yes | Yes | Yes | Yes |
| [<br>](http://www.w3schools.com/tags/tag_br.asp) | Yes | Yes | Yes | Yes | Yes |
| [<button>](http://www.w3schools.com/tags/tag_button.asp) | Yes | Yes | Yes | Yes | Yes |
| [<canvas>](http://www.w3schools.com/tags/tag_canvas.asp) | Yes | No | No | No | No |
| [<caption>](http://www.w3schools.com/tags/tag_caption.asp) | Yes | Yes | Yes | Yes | Yes |
| [<center>](http://www.w3schools.com/tags/tag_center.asp) | No | Yes | No | Yes | No |
| [<cite>](http://www.w3schools.com/tags/tag_cite.asp) | Yes | Yes | Yes | Yes | Yes |
| [<code>](http://www.w3schools.com/tags/tag_code.asp) | Yes | Yes | Yes | Yes | Yes |
| [<col>](http://www.w3schools.com/tags/tag_col.asp) | Yes | Yes | Yes | Yes | No |
| [<colgroup>](http://www.w3schools.com/tags/tag_colgroup.asp) | Yes | Yes | Yes | Yes | No |
| [<datalist>](http://www.w3schools.com/tags/tag_datalist.asp) | Yes | No | No | No | No |
| [<dd>](http://www.w3schools.com/tags/tag_dd.asp) | Yes | Yes | Yes | Yes | Yes |
| [<del>](http://www.w3schools.com/tags/tag_del.asp) | Yes | Yes | Yes | Yes | No |
| [<details>](http://www.w3schools.com/tags/tag_details.asp) | Yes | No | No | No | No |
| [<dfn>](http://www.w3schools.com/tags/tag_dfn.asp) | Yes | Yes | Yes | Yes | Yes |
| [<dialog>](http://www.w3schools.com/tags/tag_dialog.asp) | Yes | No | No | No | No |
| [<dir>](http://www.w3schools.com/tags/tag_dir.asp) | No | Yes | No | Yes | No |
| [<div>](http://www.w3schools.com/tags/tag_div.asp) | Yes | Yes | Yes | Yes | Yes |
| [<dl>](http://www.w3schools.com/tags/tag_dl.asp) | Yes | Yes | Yes | Yes | Yes |
| [<dt>](http://www.w3schools.com/tags/tag_dt.asp) | Yes | Yes | Yes | Yes | Yes |
| [<em>](http://www.w3schools.com/tags/tag_em.asp) | Yes | Yes | Yes | Yes | Yes |
| [<embed>](http://www.w3schools.com/tags/tag_embed.asp) | Yes | No | No | No | No |
| [<fieldset>](http://www.w3schools.com/tags/tag_fieldset.asp) | Yes | Yes | Yes | Yes | Yes |
| [<figcaption>](http://www.w3schools.com/tags/tag_figcaption.asp) | Yes | No | No | No | No |
| [<figure>](http://www.w3schools.com/tags/tag_figure.asp) | Yes | No | No | No | No |
| [<font>](http://www.w3schools.com/tags/tag_font.asp) | No | Yes | No | Yes | No |
| [<footer>](http://www.w3schools.com/tags/tag_footer.asp) | Yes | No | No | No | No |
| [<form>](http://www.w3schools.com/tags/tag_form.asp) | Yes | Yes | Yes | Yes | Yes |
| [<frame>](http://www.w3schools.com/tags/tag_frame.asp) | No | No | No | Yes | No |
| [<frameset>](http://www.w3schools.com/tags/tag_frameset.asp) | No | No | No | Yes | No |
| [<h1> to <h6>](http://www.w3schools.com/tags/tag_hn.asp) | Yes | Yes | Yes | Yes | Yes |
| [<head>](http://www.w3schools.com/tags/tag_head.asp) | Yes | Yes | Yes | Yes | Yes |
| [<header>](http://www.w3schools.com/tags/tag_header.asp) | Yes | No | No | No | No |
| [<hr>](http://www.w3schools.com/tags/tag_hr.asp) | Yes | Yes | Yes | Yes | Yes |
| [<html>](http://www.w3schools.com/tags/tag_html.asp) | Yes | Yes | Yes | Yes | Yes |
| [<i>](http://www.w3schools.com/tags/tag_i.asp) | Yes | Yes | Yes | Yes | Yes |
| [<iframe>](http://www.w3schools.com/tags/tag_iframe.asp) | Yes | Yes | No | Yes | No |
| [<img>](http://www.w3schools.com/tags/tag_img.asp) | Yes | Yes | Yes | Yes | Yes |
| [<input>](http://www.w3schools.com/tags/tag_input.asp) | Yes | Yes | Yes | Yes | Yes |
| [<ins>](http://www.w3schools.com/tags/tag_ins.asp) | Yes | Yes | Yes | Yes | No |
| [<kbd>](http://www.w3schools.com/tags/tag_kbd.asp) | Yes | Yes | Yes | Yes | Yes |
| [<keygen>](http://www.w3schools.com/tags/tag_keygen.asp) | Yes | No | No | No | No |
| [<label>](http://www.w3schools.com/tags/tag_label.asp) | Yes | Yes | Yes | Yes | Yes |
| [<legend>](http://www.w3schools.com/tags/tag_legend.asp) | Yes | Yes | Yes | Yes | Yes |
| [<li>](http://www.w3schools.com/tags/tag_li.asp) | Yes | Yes | Yes | Yes | Yes |
| [<link>](http://www.w3schools.com/tags/tag_link.asp) | Yes | Yes | Yes | Yes | Yes |
| [<main>](http://www.w3schools.com/tags/tag_main.asp) | Yes | No | No | No | No |
| [<map>](http://www.w3schools.com/tags/tag_map.asp) | Yes | Yes | Yes | Yes | No |
| [<mark>](http://www.w3schools.com/tags/tag_mark.asp) | Yes | No | No | No | No |
| [<menu>](http://www.w3schools.com/tags/tag_menu.asp) | Yes | Yes | No | Yes | No |
| [<menuitem>](http://www.w3schools.com/tags/tag_menuitem.asp) | Yes | No | No | No | No |
| [<meta>](http://www.w3schools.com/tags/tag_meta.asp) | Yes | Yes | Yes | Yes | Yes |
| [<meter>](http://www.w3schools.com/tags/tag_meter.asp) | Yes | No | No | No | No |
| [<nav>](http://www.w3schools.com/tags/tag_nav.asp) | Yes | No | No | No | No |
| [<noframes>](http://www.w3schools.com/tags/tag_noframes.asp) | No | Yes | No | Yes | No |
| [<noscript>](http://www.w3schools.com/tags/tag_noscript.asp) | Yes | Yes | Yes | Yes | Yes |
| [<object>](http://www.w3schools.com/tags/tag_object.asp) | Yes | Yes | Yes | Yes | Yes |
| [<ol>](http://www.w3schools.com/tags/tag_ol.asp) | Yes | Yes | Yes | Yes | Yes |
| [<optgroup>](http://www.w3schools.com/tags/tag_optgroup.asp) | Yes | Yes | Yes | Yes | Yes |
| [<option>](http://www.w3schools.com/tags/tag_option.asp) | Yes | Yes | Yes | Yes | Yes |
| [<output>](http://www.w3schools.com/tags/tag_output.asp) | Yes | No | No | No | No |
| [<p>](http://www.w3schools.com/tags/tag_p.asp) | Yes | Yes | Yes | Yes | Yes |
| [<param>](http://www.w3schools.com/tags/tag_param.asp) | Yes | Yes | Yes | Yes | Yes |
| [<pre>](http://www.w3schools.com/tags/tag_pre.asp) | Yes | Yes | Yes | Yes | Yes |
| [<progress>](http://www.w3schools.com/tags/tag_progress.asp) | Yes | No | No | No | No |
| [<q>](http://www.w3schools.com/tags/tag_q.asp) | Yes | Yes | Yes | Yes | Yes |
| [<rp>](http://www.w3schools.com/tags/tag_rp.asp) | Yes | No | No | No | No |
| [<rt>](http://www.w3schools.com/tags/tag_rt.asp) | Yes | No | No | No | No |
| [<ruby>](http://www.w3schools.com/tags/tag_ruby.asp) | Yes | No | No | No | No |
| [<s>](http://www.w3schools.com/tags/tag_s.asp) | Yes | Yes | No | Yes | No |
| [<samp>](http://www.w3schools.com/tags/tag_samp.asp) | Yes | Yes | Yes | Yes | Yes |
| [<script>](http://www.w3schools.com/tags/tag_script.asp) | Yes | Yes | Yes | Yes | Yes |
| [<section>](http://www.w3schools.com/tags/tag_section.asp) | Yes | No | No | No | No |
| [<select>](http://www.w3schools.com/tags/tag_select.asp) | Yes | Yes | Yes | Yes | Yes |
| [<small>](http://www.w3schools.com/tags/tag_small.asp) | Yes | Yes | Yes | Yes | Yes |
| [<source>](http://www.w3schools.com/tags/tag_source.asp) | Yes | No | No | No | No |
| [<span>](http://www.w3schools.com/tags/tag_span.asp) | Yes | Yes | Yes | Yes | Yes |
| [<strike>](http://www.w3schools.com/tags/tag_strike.asp) | No | Yes | No | Yes | No |
| [<strong>](http://www.w3schools.com/tags/tag_strong.asp) | Yes | Yes | Yes | Yes | Yes |
| [<style>](http://www.w3schools.com/tags/tag_style.asp) | Yes | Yes | Yes | Yes | Yes |
| [<sub>](http://www.w3schools.com/tags/tag_sub.asp) | Yes | Yes | Yes | Yes | Yes |
| [<summary>](http://www.w3schools.com/tags/tag_summary.asp) | Yes | No | No | No | No |
| [<sup>](http://www.w3schools.com/tags/tag_sup.asp) | Yes | Yes | Yes | Yes | Yes |
| [<table>](http://www.w3schools.com/tags/tag_table.asp) | Yes | Yes | Yes | Yes | Yes |
| [<tbody>](http://www.w3schools.com/tags/tag_tbody.asp) | Yes | Yes | Yes | Yes | No |
| [<td>](http://www.w3schools.com/tags/tag_td.asp) | Yes | Yes | Yes | Yes | Yes |
| [<textarea>](http://www.w3schools.com/tags/tag_textarea.asp) | Yes | Yes | Yes | Yes | Yes |
| [<tfoot>](http://www.w3schools.com/tags/tag_tfoot.asp) | Yes | Yes | Yes | Yes | No |
| [<th>](http://www.w3schools.com/tags/tag_th.asp) | Yes | Yes | Yes | Yes | Yes |
| [<thead>](http://www.w3schools.com/tags/tag_thead.asp) | Yes | Yes | Yes | Yes | No |
| [<time>](http://www.w3schools.com/tags/tag_time.asp) | Yes | No | No | No | No |
| [<title>](http://www.w3schools.com/tags/tag_title.asp) | Yes | Yes | Yes | Yes | Yes |
| [<tr>](http://www.w3schools.com/tags/tag_tr.asp) | Yes | Yes | Yes | Yes | Yes |
| [<track>](http://www.w3schools.com/tags/tag_track.asp) | Yes | No | No | No | No |
| [<tt>](http://www.w3schools.com/tags/tag_tt.asp) | No | Yes | Yes | Yes | Yes |
| [<u>](http://www.w3schools.com/tags/tag_u.asp) | Yes | Yes | No | Yes | No |
| [<ul>](http://www.w3schools.com/tags/tag_ul.asp) | Yes | Yes | Yes | Yes | Yes |
| [<var>](http://www.w3schools.com/tags/tag_var.asp) | Yes | Yes | Yes | Yes | Yes |
| [<video>](http://www.w3schools.com/tags/tag_video.asp) | Yes | No | No | No | No |
| [<wbr>](http://www.w3schools.com/tags/tag_wbr.asp) | Yes | No | No | No | No |

# HTML Color Names

[« Previous](http://www.w3schools.com/tags/ref_html_dtd.asp)

[Next Reference »](http://www.w3schools.com/tags/ref_colorgroups.asp)

## Color Names Supported by All Browsers

All modern browsers support the following 140 color names (click on a color name, or a hex value, to view the color as the background-color along with different text colors):

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Color Name** | **HEX** | **Color** | **Shades** | **Mix** |
| [AliceBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=AliceBlue) | [#F0F8FF](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=F0F8FF) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=F0F8FF) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=F0F8FF&colortop=FFFFFF) |
| [AntiqueWhite](http://www.w3schools.com/tags/ref_color_tryit.asp?color=AntiqueWhite) | [#FAEBD7](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FAEBD7) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FAEBD7) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FAEBD7&colortop=FFFFFF) |
| [Aqua](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Aqua) | [#00FFFF](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=00FFFF) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=00FFFF) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=00FFFF&colortop=FFFFFF) |
| [Aquamarine](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Aquamarine) | [#7FFFD4](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=7FFFD4) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=7FFFD4) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=7FFFD4&colortop=FFFFFF) |
| [Azure](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Azure) | [#F0FFFF](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=F0FFFF) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=F0FFFF) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=F0FFFF&colortop=FFFFFF) |
| [Beige](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Beige) | [#F5F5DC](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=F5F5DC) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=F5F5DC) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=F5F5DC&colortop=FFFFFF) |
| [Bisque](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Bisque) | [#FFE4C4](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFE4C4) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFE4C4) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFE4C4&colortop=FFFFFF) |
| [Black](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Black) | [#000000](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=000000) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=000000) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=000000&colortop=FFFFFF) |
| [BlanchedAlmond](http://www.w3schools.com/tags/ref_color_tryit.asp?color=BlanchedAlmond) | [#FFEBCD](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFEBCD) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFEBCD) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFEBCD&colortop=FFFFFF) |
| [Blue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Blue) | [#0000FF](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=0000FF) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=0000FF) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=0000FF&colortop=FFFFFF) |
| [BlueViolet](http://www.w3schools.com/tags/ref_color_tryit.asp?color=BlueViolet) | [#8A2BE2](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=8A2BE2) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=8A2BE2) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=8A2BE2&colortop=FFFFFF) |
| [Brown](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Brown) | [#A52A2A](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=A52A2A) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=A52A2A) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=A52A2A&colortop=FFFFFF) |
| [BurlyWood](http://www.w3schools.com/tags/ref_color_tryit.asp?color=BurlyWood) | [#DEB887](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=DEB887) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=DEB887) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=DEB887&colortop=FFFFFF) |
| [CadetBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=CadetBlue) | [#5F9EA0](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=5F9EA0) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=5F9EA0) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=5F9EA0&colortop=FFFFFF) |
| [Chartreuse](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Chartreuse) | [#7FFF00](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=7FFF00) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=7FFF00) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=7FFF00&colortop=FFFFFF) |
| [Chocolate](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Chocolate) | [#D2691E](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=D2691E) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=D2691E) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=D2691E&colortop=FFFFFF) |
| [Coral](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Coral) | [#FF7F50](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FF7F50) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FF7F50) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FF7F50&colortop=FFFFFF) |
| [CornflowerBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=CornflowerBlue) | [#6495ED](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=6495ED) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=6495ED) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=6495ED&colortop=FFFFFF) |
| [Cornsilk](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Cornsilk) | [#FFF8DC](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFF8DC) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFF8DC) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFF8DC&colortop=FFFFFF) |
| [Crimson](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Crimson) | [#DC143C](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=DC143C) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=DC143C) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=DC143C&colortop=FFFFFF) |
| [Cyan](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Cyan) | [#00FFFF](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=00FFFF) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=00FFFF) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=00FFFF&colortop=FFFFFF) |
| [DarkBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkBlue) | [#00008B](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=00008B) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=00008B) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=00008B&colortop=FFFFFF) |
| [DarkCyan](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkCyan) | [#008B8B](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=008B8B) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=008B8B) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=008B8B&colortop=FFFFFF) |
| [DarkGoldenRod](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkGoldenRod) | [#B8860B](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=B8860B) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=B8860B) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=B8860B&colortop=FFFFFF) |
| [DarkGray](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkGray) | [#A9A9A9](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=A9A9A9) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=A9A9A9) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=A9A9A9&colortop=FFFFFF) |
| [DarkGreen](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkGreen) | [#006400](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=006400) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=006400) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=006400&colortop=FFFFFF) |
| [DarkKhaki](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkKhaki) | [#BDB76B](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=BDB76B) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=BDB76B) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=BDB76B&colortop=FFFFFF) |
| [DarkMagenta](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkMagenta) | [#8B008B](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=8B008B) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=8B008B) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=8B008B&colortop=FFFFFF) |
| [DarkOliveGreen](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkOliveGreen) | [#556B2F](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=556B2F) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=556B2F) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=556B2F&colortop=FFFFFF) |
| [DarkOrange](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkOrange) | [#FF8C00](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FF8C00) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FF8C00) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FF8C00&colortop=FFFFFF) |
| [DarkOrchid](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkOrchid) | [#9932CC](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=9932CC) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=9932CC) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=9932CC&colortop=FFFFFF) |
| [DarkRed](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkRed) | [#8B0000](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=8B0000) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=8B0000) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=8B0000&colortop=FFFFFF) |
| [DarkSalmon](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkSalmon) | [#E9967A](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=E9967A) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=E9967A) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=E9967A&colortop=FFFFFF) |
| [DarkSeaGreen](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkSeaGreen) | [#8FBC8F](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=8FBC8F) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=8FBC8F) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=8FBC8F&colortop=FFFFFF) |
| [DarkSlateBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkSlateBlue) | [#483D8B](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=483D8B) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=483D8B) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=483D8B&colortop=FFFFFF) |
| [DarkSlateGray](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkSlateGray) | [#2F4F4F](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=2F4F4F) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=2F4F4F) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=2F4F4F&colortop=FFFFFF) |
| [DarkTurquoise](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkTurquoise) | [#00CED1](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=00CED1) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=00CED1) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=00CED1&colortop=FFFFFF) |
| [DarkViolet](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkViolet) | [#9400D3](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=9400D3) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=9400D3) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=9400D3&colortop=FFFFFF) |
| [DeepPink](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DeepPink) | [#FF1493](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FF1493) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FF1493) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FF1493&colortop=FFFFFF) |
| [DeepSkyBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DeepSkyBlue) | [#00BFFF](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=00BFFF) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=00BFFF) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=00BFFF&colortop=FFFFFF) |
| [DimGray](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DimGray) | [#696969](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=696969) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=696969) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=696969&colortop=FFFFFF) |
| [DodgerBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DodgerBlue) | [#1E90FF](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=1E90FF) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=1E90FF) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=1E90FF&colortop=FFFFFF) |
| [FireBrick](http://www.w3schools.com/tags/ref_color_tryit.asp?color=FireBrick) | [#B22222](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=B22222) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=B22222) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=B22222&colortop=FFFFFF) |
| [FloralWhite](http://www.w3schools.com/tags/ref_color_tryit.asp?color=FloralWhite) | [#FFFAF0](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFFAF0) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFFAF0) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFFAF0&colortop=FFFFFF) |
| [ForestGreen](http://www.w3schools.com/tags/ref_color_tryit.asp?color=ForestGreen) | [#228B22](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=228B22) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=228B22) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=228B22&colortop=FFFFFF) |
| [Fuchsia](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Fuchsia) | [#FF00FF](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FF00FF) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FF00FF) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FF00FF&colortop=FFFFFF) |
| [Gainsboro](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Gainsboro) | [#DCDCDC](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=DCDCDC) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=DCDCDC) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=DCDCDC&colortop=FFFFFF) |
| [GhostWhite](http://www.w3schools.com/tags/ref_color_tryit.asp?color=GhostWhite) | [#F8F8FF](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=F8F8FF) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=F8F8FF) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=F8F8FF&colortop=FFFFFF) |
| [Gold](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Gold) | [#FFD700](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFD700) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFD700) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFD700&colortop=FFFFFF) |
| [GoldenRod](http://www.w3schools.com/tags/ref_color_tryit.asp?color=GoldenRod) | [#DAA520](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=DAA520) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=DAA520) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=DAA520&colortop=FFFFFF) |
| [Gray](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Gray) | [#808080](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=808080) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=808080) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=808080&colortop=FFFFFF) |
| [Green](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Green) | [#008000](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=008000) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=008000) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=008000&colortop=FFFFFF) |
| [GreenYellow](http://www.w3schools.com/tags/ref_color_tryit.asp?color=GreenYellow) | [#ADFF2F](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=ADFF2F) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=ADFF2F) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=ADFF2F&colortop=FFFFFF) |
| [HoneyDew](http://www.w3schools.com/tags/ref_color_tryit.asp?color=HoneyDew) | [#F0FFF0](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=F0FFF0) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=F0FFF0) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=F0FFF0&colortop=FFFFFF) |
| [HotPink](http://www.w3schools.com/tags/ref_color_tryit.asp?color=HotPink) | [#FF69B4](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FF69B4) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FF69B4) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FF69B4&colortop=FFFFFF) |
| [IndianRed](http://www.w3schools.com/tags/ref_color_tryit.asp?color=IndianRed) | [#CD5C5C](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=CD5C5C) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=CD5C5C) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=CD5C5C&colortop=FFFFFF) |
| [Indigo](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Indigo) | [#4B0082](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=4B0082) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=4B0082) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=4B0082&colortop=FFFFFF) |
| [Ivory](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Ivory) | [#FFFFF0](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFFFF0) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFFFF0) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFFFF0&colortop=FFFFFF) |
| [Khaki](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Khaki) | [#F0E68C](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=F0E68C) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=F0E68C) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=F0E68C&colortop=FFFFFF) |
| [Lavender](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Lavender) | [#E6E6FA](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=E6E6FA) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=E6E6FA) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=E6E6FA&colortop=FFFFFF) |
| [LavenderBlush](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LavenderBlush) | [#FFF0F5](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFF0F5) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFF0F5) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFF0F5&colortop=FFFFFF) |
| [LawnGreen](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LawnGreen) | [#7CFC00](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=7CFC00) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=7CFC00) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=7CFC00&colortop=FFFFFF) |
| [LemonChiffon](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LemonChiffon) | [#FFFACD](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFFACD) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFFACD) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFFACD&colortop=FFFFFF) |
| [LightBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LightBlue) | [#ADD8E6](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=ADD8E6) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=ADD8E6) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=ADD8E6&colortop=FFFFFF) |
| [LightCoral](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LightCoral) | [#F08080](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=F08080) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=F08080) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=F08080&colortop=FFFFFF) |
| [LightCyan](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LightCyan) | [#E0FFFF](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=E0FFFF) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=E0FFFF) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=E0FFFF&colortop=FFFFFF) |
| [LightGoldenRodYellow](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LightGoldenRodYellow) | [#FAFAD2](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FAFAD2) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FAFAD2) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FAFAD2&colortop=FFFFFF) |
| [LightGray](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LightGray) | [#D3D3D3](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=D3D3D3) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=D3D3D3) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=D3D3D3&colortop=FFFFFF) |
| [LightGreen](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LightGreen) | [#90EE90](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=90EE90) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=90EE90) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=90EE90&colortop=FFFFFF) |
| [LightPink](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LightPink) | [#FFB6C1](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFB6C1) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFB6C1) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFB6C1&colortop=FFFFFF) |
| [LightSalmon](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LightSalmon) | [#FFA07A](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFA07A) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFA07A) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFA07A&colortop=FFFFFF) |
| [LightSeaGreen](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LightSeaGreen) | [#20B2AA](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=20B2AA) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=20B2AA) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=20B2AA&colortop=FFFFFF) |
| [LightSkyBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LightSkyBlue) | [#87CEFA](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=87CEFA) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=87CEFA) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=87CEFA&colortop=FFFFFF) |
| [LightSlateGray](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LightSlateGray) | [#778899](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=778899) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=778899) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=778899&colortop=FFFFFF) |
| [LightSteelBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LightSteelBlue) | [#B0C4DE](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=B0C4DE) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=B0C4DE) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=B0C4DE&colortop=FFFFFF) |
| [LightYellow](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LightYellow) | [#FFFFE0](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFFFE0) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFFFE0) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFFFE0&colortop=FFFFFF) |
| [Lime](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Lime) | [#00FF00](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=00FF00) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=00FF00) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=00FF00&colortop=FFFFFF) |
| [LimeGreen](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LimeGreen) | [#32CD32](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=32CD32) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=32CD32) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=32CD32&colortop=FFFFFF) |
| [Linen](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Linen) | [#FAF0E6](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FAF0E6) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FAF0E6) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FAF0E6&colortop=FFFFFF) |
| [Magenta](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Magenta) | [#FF00FF](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FF00FF) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FF00FF) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FF00FF&colortop=FFFFFF) |
| [Maroon](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Maroon) | [#800000](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=800000) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=800000) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=800000&colortop=FFFFFF) |
| [MediumAquaMarine](http://www.w3schools.com/tags/ref_color_tryit.asp?color=MediumAquaMarine) | [#66CDAA](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=66CDAA) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=66CDAA) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=66CDAA&colortop=FFFFFF) |
| [MediumBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=MediumBlue) | [#0000CD](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=0000CD) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=0000CD) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=0000CD&colortop=FFFFFF) |
| [MediumOrchid](http://www.w3schools.com/tags/ref_color_tryit.asp?color=MediumOrchid) | [#BA55D3](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=BA55D3) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=BA55D3) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=BA55D3&colortop=FFFFFF) |
| [MediumPurple](http://www.w3schools.com/tags/ref_color_tryit.asp?color=MediumPurple) | [#9370DB](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=9370DB) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=9370DB) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=9370DB&colortop=FFFFFF) |
| [MediumSeaGreen](http://www.w3schools.com/tags/ref_color_tryit.asp?color=MediumSeaGreen) | [#3CB371](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=3CB371) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=3CB371) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=3CB371&colortop=FFFFFF) |
| [MediumSlateBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=MediumSlateBlue) | [#7B68EE](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=7B68EE) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=7B68EE) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=7B68EE&colortop=FFFFFF) |
| [MediumSpringGreen](http://www.w3schools.com/tags/ref_color_tryit.asp?color=MediumSpringGreen) | [#00FA9A](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=00FA9A) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=00FA9A) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=00FA9A&colortop=FFFFFF) |
| [MediumTurquoise](http://www.w3schools.com/tags/ref_color_tryit.asp?color=MediumTurquoise) | [#48D1CC](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=48D1CC) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=48D1CC) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=48D1CC&colortop=FFFFFF) |
| [MediumVioletRed](http://www.w3schools.com/tags/ref_color_tryit.asp?color=MediumVioletRed) | [#C71585](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=C71585) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=C71585) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=C71585&colortop=FFFFFF) |
| [MidnightBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=MidnightBlue) | [#191970](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=191970) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=191970) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=191970&colortop=FFFFFF) |
| [MintCream](http://www.w3schools.com/tags/ref_color_tryit.asp?color=MintCream) | [#F5FFFA](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=F5FFFA) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=F5FFFA) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=F5FFFA&colortop=FFFFFF) |
| [MistyRose](http://www.w3schools.com/tags/ref_color_tryit.asp?color=MistyRose) | [#FFE4E1](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFE4E1) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFE4E1) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFE4E1&colortop=FFFFFF) |
| [Moccasin](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Moccasin) | [#FFE4B5](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFE4B5) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFE4B5) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFE4B5&colortop=FFFFFF) |
| [NavajoWhite](http://www.w3schools.com/tags/ref_color_tryit.asp?color=NavajoWhite) | [#FFDEAD](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFDEAD) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFDEAD) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFDEAD&colortop=FFFFFF) |
| [Navy](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Navy) | [#000080](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=000080) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=000080) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=000080&colortop=FFFFFF) |
| [OldLace](http://www.w3schools.com/tags/ref_color_tryit.asp?color=OldLace) | [#FDF5E6](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FDF5E6) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FDF5E6) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FDF5E6&colortop=FFFFFF) |
| [Olive](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Olive) | [#808000](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=808000) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=808000) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=808000&colortop=FFFFFF) |
| [OliveDrab](http://www.w3schools.com/tags/ref_color_tryit.asp?color=OliveDrab) | [#6B8E23](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=6B8E23) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=6B8E23) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=6B8E23&colortop=FFFFFF) |
| [Orange](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Orange) | [#FFA500](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFA500) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFA500) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFA500&colortop=FFFFFF) |
| [OrangeRed](http://www.w3schools.com/tags/ref_color_tryit.asp?color=OrangeRed) | [#FF4500](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FF4500) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FF4500) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FF4500&colortop=FFFFFF) |
| [Orchid](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Orchid) | [#DA70D6](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=DA70D6) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=DA70D6) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=DA70D6&colortop=FFFFFF) |
| [PaleGoldenRod](http://www.w3schools.com/tags/ref_color_tryit.asp?color=PaleGoldenRod) | [#EEE8AA](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=EEE8AA) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=EEE8AA) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=EEE8AA&colortop=FFFFFF) |
| [PaleGreen](http://www.w3schools.com/tags/ref_color_tryit.asp?color=PaleGreen) | [#98FB98](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=98FB98) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=98FB98) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=98FB98&colortop=FFFFFF) |
| [PaleTurquoise](http://www.w3schools.com/tags/ref_color_tryit.asp?color=PaleTurquoise) | [#AFEEEE](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=AFEEEE) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=AFEEEE) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=AFEEEE&colortop=FFFFFF) |
| [PaleVioletRed](http://www.w3schools.com/tags/ref_color_tryit.asp?color=PaleVioletRed) | [#DB7093](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=DB7093) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=DB7093) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=DB7093&colortop=FFFFFF) |
| [PapayaWhip](http://www.w3schools.com/tags/ref_color_tryit.asp?color=PapayaWhip) | [#FFEFD5](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFEFD5) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFEFD5) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFEFD5&colortop=FFFFFF) |
| [PeachPuff](http://www.w3schools.com/tags/ref_color_tryit.asp?color=PeachPuff) | [#FFDAB9](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFDAB9) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFDAB9) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFDAB9&colortop=FFFFFF) |
| [Peru](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Peru) | [#CD853F](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=CD853F) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=CD853F) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=CD853F&colortop=FFFFFF) |
| [Pink](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Pink) | [#FFC0CB](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFC0CB) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFC0CB) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFC0CB&colortop=FFFFFF) |
| [Plum](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Plum) | [#DDA0DD](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=DDA0DD) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=DDA0DD) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=DDA0DD&colortop=FFFFFF) |
| [PowderBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=PowderBlue) | [#B0E0E6](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=B0E0E6) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=B0E0E6) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=B0E0E6&colortop=FFFFFF) |
| [Purple](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Purple) | [#800080](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=800080) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=800080) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=800080&colortop=FFFFFF) |
| [RebeccaPurple](http://www.w3schools.com/tags/ref_color_tryit.asp?color=RebeccaPurple) | [#663399](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=663399) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=663399) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=663399&colortop=FFFFFF) |
| [Red](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Red) | [#FF0000](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FF0000) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FF0000) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FF0000&colortop=FFFFFF) |
| [RosyBrown](http://www.w3schools.com/tags/ref_color_tryit.asp?color=RosyBrown) | [#BC8F8F](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=BC8F8F) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=BC8F8F) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=BC8F8F&colortop=FFFFFF) |
| [RoyalBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=RoyalBlue) | [#4169E1](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=4169E1) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=4169E1) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=4169E1&colortop=FFFFFF) |
| [SaddleBrown](http://www.w3schools.com/tags/ref_color_tryit.asp?color=SaddleBrown) | [#8B4513](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=8B4513) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=8B4513) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=8B4513&colortop=FFFFFF) |
| [Salmon](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Salmon) | [#FA8072](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FA8072) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FA8072) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FA8072&colortop=FFFFFF) |
| [SandyBrown](http://www.w3schools.com/tags/ref_color_tryit.asp?color=SandyBrown) | [#F4A460](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=F4A460) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=F4A460) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=F4A460&colortop=FFFFFF) |
| [SeaGreen](http://www.w3schools.com/tags/ref_color_tryit.asp?color=SeaGreen) | [#2E8B57](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=2E8B57) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=2E8B57) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=2E8B57&colortop=FFFFFF) |
| [SeaShell](http://www.w3schools.com/tags/ref_color_tryit.asp?color=SeaShell) | [#FFF5EE](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFF5EE) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFF5EE) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFF5EE&colortop=FFFFFF) |
| [Sienna](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Sienna) | [#A0522D](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=A0522D) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=A0522D) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=A0522D&colortop=FFFFFF) |
| [Silver](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Silver) | [#C0C0C0](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=C0C0C0) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=C0C0C0) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=C0C0C0&colortop=FFFFFF) |
| [SkyBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=SkyBlue) | [#87CEEB](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=87CEEB) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=87CEEB) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=87CEEB&colortop=FFFFFF) |
| [SlateBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=SlateBlue) | [#6A5ACD](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=6A5ACD) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=6A5ACD) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=6A5ACD&colortop=FFFFFF) |
| [SlateGray](http://www.w3schools.com/tags/ref_color_tryit.asp?color=SlateGray) | [#708090](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=708090) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=708090) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=708090&colortop=FFFFFF) |
| [Snow](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Snow) | [#FFFAFA](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFFAFA) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFFAFA) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFFAFA&colortop=FFFFFF) |
| [SpringGreen](http://www.w3schools.com/tags/ref_color_tryit.asp?color=SpringGreen) | [#00FF7F](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=00FF7F) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=00FF7F) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=00FF7F&colortop=FFFFFF) |
| [SteelBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=SteelBlue) | [#4682B4](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=4682B4) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=4682B4) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=4682B4&colortop=FFFFFF) |
| [Tan](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Tan) | [#D2B48C](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=D2B48C) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=D2B48C) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=D2B48C&colortop=FFFFFF) |
| [Teal](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Teal) | [#008080](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=008080) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=008080) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=008080&colortop=FFFFFF) |
| [Thistle](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Thistle) | [#D8BFD8](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=D8BFD8) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=D8BFD8) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=D8BFD8&colortop=FFFFFF) |
| [Tomato](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Tomato) | [#FF6347](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FF6347) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FF6347) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FF6347&colortop=FFFFFF) |
| [Turquoise](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Turquoise) | [#40E0D0](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=40E0D0) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=40E0D0) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=40E0D0&colortop=FFFFFF) |
| [Violet](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Violet) | [#EE82EE](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=EE82EE) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=EE82EE) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=EE82EE&colortop=FFFFFF) |
| [Wheat](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Wheat) | [#F5DEB3](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=F5DEB3) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=F5DEB3) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=F5DEB3&colortop=FFFFFF) |
| [White](http://www.w3schools.com/tags/ref_color_tryit.asp?color=White) | [#FFFFFF](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFFFFF) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFFFFF) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFFFFF&colortop=FFFFFF) |
| [WhiteSmoke](http://www.w3schools.com/tags/ref_color_tryit.asp?color=WhiteSmoke) | [#F5F5F5](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=F5F5F5) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=F5F5F5) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=F5F5F5&colortop=FFFFFF) |
| [Yellow](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Yellow) | [#FFFF00](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFFF00) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFFF00) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFFF00&colortop=FFFFFF) |
| [YellowGreen](http://www.w3schools.com/tags/ref_color_tryit.asp?color=YellowGreen) | [#9ACD32](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=9ACD32) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=9ACD32) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=9ACD32&colortop=FFFFFF) |

# HTML Color Groups

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[Next Reference »](http://www.w3schools.com/tags/ref_colorpicker.asp)

The tables below show the 140 standard color names divided into color groups.

## Pink Colors

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **HEX** | **Color** | **Shades** | **Mix** |
| [LavenderBlush](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LavenderBlush) | [#FFF0F5](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFF0F5) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFF0F5) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFF0F5&colortop=FFFFFF) |
| [MistyRose](http://www.w3schools.com/tags/ref_color_tryit.asp?color=MistyRose) | [#FFE4E1](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFE4E1) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFE4E1) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFE4E1&colortop=FFFFFF) |
| [Pink](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Pink) | [#FFC0CB](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFC0CB) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFC0CB) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFC0CB&colortop=FFFFFF) |
| [LightPink](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LightPink) | [#FFB6C1](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFB6C1) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFB6C1) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFB6C1&colortop=FFFFFF) |
| [HotPink](http://www.w3schools.com/tags/ref_color_tryit.asp?color=HotPink) | [#FF69B4](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FF69B4) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FF69B4) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FF69B4&colortop=FFFFFF) |
| [DeepPink](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DeepPink) | [#FF1493](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FF1493) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FF1493) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FF1493&colortop=FFFFFF) |
| [PaleVioletRed](http://www.w3schools.com/tags/ref_color_tryit.asp?color=PaleVioletRed) | [#DB7093](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=DB7093) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=DB7093) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=DB7093&colortop=FFFFFF) |
| [MediumVioletRed](http://www.w3schools.com/tags/ref_color_tryit.asp?color=MediumVioletRed) | [#C71585](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=C71585) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=C71585) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=C71585&colortop=FFFFFF) |

## Purple Colors

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **HEX** | **Color** | **Shades** | **Mix** |
| [Lavender](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Lavender) | [#E6E6FA](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=E6E6FA) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=E6E6FA) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=E6E6FA&colortop=FFFFFF) |
| [Thistle](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Thistle) | [#D8BFD8](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=D8BFD8) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=D8BFD8) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=D8BFD8&colortop=FFFFFF) |
| [Plum](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Plum) | [#DDA0DD](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=DDA0DD) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=DDA0DD) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=DDA0DD&colortop=FFFFFF) |
| [Violet](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Violet) | [#EE82EE](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=EE82EE) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=EE82EE) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=EE82EE&colortop=FFFFFF) |
| [Orchid](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Orchid) | [#DA70D6](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=DA70D6) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=DA70D6) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=DA70D6&colortop=FFFFFF) |
| [Fuchsia](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Fuchsia) | [#FF00FF](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FF00FF) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FF00FF) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FF00FF&colortop=FFFFFF) |
| [Magenta](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Magenta) | [#FF00FF](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FF00FF) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FF00FF) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FF00FF&colortop=FFFFFF) |
| [MediumOrchid](http://www.w3schools.com/tags/ref_color_tryit.asp?color=MediumOrchid) | [#BA55D3](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=BA55D3) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=BA55D3) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=BA55D3&colortop=FFFFFF) |
| [MediumPurple](http://www.w3schools.com/tags/ref_color_tryit.asp?color=MediumPurple) | [#9370DB](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=9370DB) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=9370DB) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=9370DB&colortop=FFFFFF) |
| [BlueViolet](http://www.w3schools.com/tags/ref_color_tryit.asp?color=BlueViolet) | [#8A2BE2](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=8A2BE2) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=8A2BE2) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=8A2BE2&colortop=FFFFFF) |
| [DarkViolet](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkViolet) | [#9400D3](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=9400D3) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=9400D3) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=9400D3&colortop=FFFFFF) |
| [DarkOrchid](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkOrchid) | [#9932CC](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=9932CC) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=9932CC) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=9932CC&colortop=FFFFFF) |
| [DarkMagenta](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkMagenta) | [#8B008B](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=8B008B) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=8B008B) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=8B008B&colortop=FFFFFF) |
| [Purple](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Purple) | [#800080](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=800080) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=800080) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=800080&colortop=FFFFFF) |
| [Indigo](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Indigo) | [#4B0082](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=4B0082) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=4B0082) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=4B0082&colortop=FFFFFF) |
| [DarkSlateBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkSlateBlue) | [#483D8B](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=483D8B) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=483D8B) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=483D8B&colortop=FFFFFF) |
| [RebeccaPurple](http://www.w3schools.com/tags/ref_color_tryit.asp?color=RebeccaPurple) | [#663399](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=663399) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=663399) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=663399&colortop=FFFFFF) |
| [SlateBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=SlateBlue) | [#6A5ACD](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=6A5ACD) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=6A5ACD) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=6A5ACD&colortop=FFFFFF) |
| [MediumSlateBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=MediumSlateBlue) | [#7B68EE](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=7B68EE) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=7B68EE) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=7B68EE&colortop=FFFFFF) |

## Red Colors

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **HEX** | **Color** | **Shades** | **Mix** |
| [LightSalmon](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LightSalmon) | [#FFA07A](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFA07A) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFA07A) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFA07A&colortop=FFFFFF) |
| [Salmon](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Salmon) | [#FA8072](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FA8072) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FA8072) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FA8072&colortop=FFFFFF) |
| [DarkSalmon](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkSalmon) | [#E9967A](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=E9967A) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=E9967A) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=E9967A&colortop=FFFFFF) |
| [LightCoral](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LightCoral) | [#F08080](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=F08080) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=F08080) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=F08080&colortop=FFFFFF) |
| [IndianRed](http://www.w3schools.com/tags/ref_color_tryit.asp?color=IndianRed) | [#CD5C5C](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=CD5C5C) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=CD5C5C) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=CD5C5C&colortop=FFFFFF) |
| [Crimson](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Crimson) | [#DC143C](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=DC143C) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=DC143C) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=DC143C&colortop=FFFFFF) |
| [FireBrick](http://www.w3schools.com/tags/ref_color_tryit.asp?color=FireBrick) | [#B22222](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=B22222) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=B22222) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=B22222&colortop=FFFFFF) |
| [DarkRed](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkRed) | [#8B0000](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=8B0000) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=8B0000) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=8B0000&colortop=FFFFFF) |
| [Red](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Red) | [#FF0000](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FF0000) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FF0000) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FF0000&colortop=FFFFFF) |

## Orange Colors

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **HEX** | **Color** | **Shades** | **Mix** |
| [OrangeRed](http://www.w3schools.com/tags/ref_color_tryit.asp?color=OrangeRed) | [#FF4500](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FF4500) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FF4500) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FF4500&colortop=FFFFFF) |
| [Tomato](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Tomato) | [#FF6347](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FF6347) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FF6347) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FF6347&colortop=FFFFFF) |
| [Coral](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Coral) | [#FF7F50](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FF7F50) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FF7F50) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FF7F50&colortop=FFFFFF) |
| [DarkOrange](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkOrange) | [#FF8C00](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FF8C00) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FF8C00) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FF8C00&colortop=FFFFFF) |
| [Orange](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Orange) | [#FFA500](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFA500) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFA500) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFA500&colortop=FFFFFF) |

## Yellow Colors

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **HEX** | **Color** | **Shades** | **Mix** |
| [Gold](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Gold) | [#FFD700](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFD700) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFD700) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFD700&colortop=FFFFFF) |
| [Yellow](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Yellow) | [#FFFF00](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFFF00) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFFF00) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFFF00&colortop=FFFFFF) |
| [LightYellow](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LightYellow) | [#FFFFE0](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFFFE0) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFFFE0) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFFFE0&colortop=FFFFFF) |
| [LemonChiffon](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LemonChiffon) | [#FFFACD](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFFACD) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFFACD) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFFACD&colortop=FFFFFF) |
| [LightGoldenrodYellow](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LightGoldenrodYellow) | [#FAFAD2](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FAFAD2) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FAFAD2) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FAFAD2colortop=FFFFFF) |
| [PapayaWhip](http://www.w3schools.com/tags/ref_color_tryit.asp?color=PapayaWhip) | [#FFEFD5](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFEFD5) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFEFD5) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFEFD5&colortop=FFFFFF) |
| [Moccasin](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Moccasin) | [#FFE4B5](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFE4B5) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFE4B5) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFE4B5&colortop=FFFFFF) |
| [PeachPuff](http://www.w3schools.com/tags/ref_color_tryit.asp?color=PeachPuff) | [#FFDAB9](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFDAB9) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFDAB9) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFDAB9&colortop=FFFFFF) |
| [PaleGoldenrod](http://www.w3schools.com/tags/ref_color_tryit.asp?color=PaleGoldenrod) | [#EEE8AA](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=EEE8AA) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=EEE8AA) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=EEE8AA&colortop=FFFFFF) |
| [Khaki](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Khaki) | [#FFA500](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=F0E68C) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=F0E68C) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=F0E68C&colortop=FFFFFF) |
| [DarkKhaki](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkKhaki) | [#BDB76B](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=BDB76B) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=BDB76B) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=BDB76B&colortop=FFFFFF) |

## Brown Colors

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **HEX** | **Color** | **Shades** | **Mix** |
| [Cornsilk](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Cornsilk) | [#FFF8DC](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFF8DC) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFF8DC) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFF8DC&colortop=FFFFFF) |
| [BlanchedAlmond](http://www.w3schools.com/tags/ref_color_tryit.asp?color=BlanchedAlmond) | [#FFEBCD](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFEBCD) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFEBCD) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFEBCD&colortop=FFFFFF) |
| [Bisque](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Bisque) | [#FFE4C4](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFE4C4) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFE4C4) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFE4C4&colortop=FFFFFF) |
| [NavajoWhite](http://www.w3schools.com/tags/ref_color_tryit.asp?color=NavajoWhite) | [#FFDEAD](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFDEAD) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFDEAD) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFDEAD&colortop=FFFFFF) |
| [Wheat](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Wheat) | [#F5DEB3](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=F5DEB3) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=F5DEB3) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=F5DEB3colortop=FFFFFF) |
| [BurlyWood](http://www.w3schools.com/tags/ref_color_tryit.asp?color=BurlyWood) | [#DEB887](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=DEB887) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=DEB887) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=DEB887&colortop=FFFFFF) |
| [Tan](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Tan) | [#D2B48C](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=D2B48C) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=D2B48C) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=D2B48C&colortop=FFFFFF) |
| [RosyBrown](http://www.w3schools.com/tags/ref_color_tryit.asp?color=RosyBrown) | [#BC8F8F](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=BC8F8F) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=BC8F8F) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=BC8F8F&colortop=FFFFFF) |
| [SandyBrown](http://www.w3schools.com/tags/ref_color_tryit.asp?color=SandyBrown) | [#F4A460](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=F4A460) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=F4A460) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=F4A460&colortop=FFFFFF) |
| [Goldenrod](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Goldenrod) | [#DAA520](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=DAA520) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=DAA520) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=DAA520C&colortop=FFFFFF) |
| [DarkGoldenrod](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkGoldenrod) | [#B8860B](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=B8860B) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=B8860B) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=B8860B&colortop=FFFFFF) |
| [Peru](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Peru) | [#CD853F](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=CD853F) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=CD853F) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=CD853F&colortop=FFFFFF) |
| [Chocolate](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Chocolate) | [#D2691E](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=D2691E) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=D2691E) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=D2691E&colortop=FFFFFF) |
| [SaddleBrown](http://www.w3schools.com/tags/ref_color_tryit.asp?color=SaddleBrown) | [#8B4513](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=8B4513) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=8B4513) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=8B4513&colortop=FFFFFF) |
| [Sienna](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Sienna) | [#A0522D](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=A0522D) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=A0522D) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=A0522D&colortop=FFFFFF) |
| [Brown](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Brown) | [#A52A2A](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=A52A2A) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=A52A2A) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=A52A2A&colortop=FFFFFF) |
| [Maroon](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Maroon) | [#800000](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=800000) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=800000) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=800000&colortop=FFFFFF) |

## Green Colors

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **HEX** | **Color** | **Shades** | **Mix** |
| [DarkOliveGreen](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkOliveGreen) | [#556B2F](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=556B2F) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=556B2F) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=556B2F&colortop=FFFFFF) |
| [Olive](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Olive) | [#808000](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=808000) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=808000) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=808000&colortop=FFFFFF) |
| [OliveDrab](http://www.w3schools.com/tags/ref_color_tryit.asp?color=OliveDrab) | [#6B8E23](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=6B8E23) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=6B8E23) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=6B8E23&colortop=FFFFFF) |
| [YellowGreen](http://www.w3schools.com/tags/ref_color_tryit.asp?color=YellowGreen) | [#9ACD32](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=9ACD32) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=9ACD32) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=9ACD32&colortop=FFFFFF) |
| [LimeGreen](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LimeGreen) | [#32CD32](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=32CD32) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=32CD32) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=32CD32&colortop=FFFFFF) |
| [Lime](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Lime) | [#00FF00](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=00FF00) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=00FF00) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=00FF00&colortop=FFFFFF) |
| [LawnGreen](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LawnGreen) | [#7CFC00](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=7CFC00) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=7CFC00) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=7CFC00&colortop=FFFFFF) |
| [Chartreuse](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Chartreuse) | [#7FFF00](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=7FFF00) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=7FFF00) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=7FFF00&colortop=FFFFFF) |
| [GreenYellow](http://www.w3schools.com/tags/ref_color_tryit.asp?color=GreenYellow) | [#ADFF2F](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=ADFF2F) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=ADFF2F) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=ADFF2F&colortop=FFFFFF) |
| [SpringGreen](http://www.w3schools.com/tags/ref_color_tryit.asp?color=SpringGreen) | [#00FF7F](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=00FF7F) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=00FF7F) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=00FF7F&colortop=FFFFFF) |
| [MediumSpringGreen](http://www.w3schools.com/tags/ref_color_tryit.asp?color=MediumSpringGreen) | [#00FA9A](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=00FA9A) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=00FA9A) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=00FA9A&colortop=FFFFFF) |
| [LightGreen](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LightGreen) | [#90EE90](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=90EE90) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=90EE90) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=90EE90&colortop=FFFFFF) |
| [PaleGreen](http://www.w3schools.com/tags/ref_color_tryit.asp?color=PaleGreen) | [#98FB98](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=98FB98) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=98FB98) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=98FB98&colortop=FFFFFF) |
| [DarkSeaGreen](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkSeaGreen) | [#8FBC8F](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=8FBC8F) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=8FBC8F) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=8FBC8F&colortop=FFFFFF) |
| [MediumSeaGreen](http://www.w3schools.com/tags/ref_color_tryit.asp?color=MediumSeaGreen) | [#3CB371](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=3CB371) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=3CB371) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=3CB371&colortop=FFFFFF) |
| [SeaGreen](http://www.w3schools.com/tags/ref_color_tryit.asp?color=SeaGreen) | [#2E8B57](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=2E8B57) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=2E8B57) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=2E8B57&colortop=FFFFFF) |
| [ForestGreen](http://www.w3schools.com/tags/ref_color_tryit.asp?color=ForestGreen) | [#228B22](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=228B22) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=228B22) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=228B22&colortop=FFFFFF) |
| [Green](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Green) | [#008000](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=008000) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=008000) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=008000&colortop=FFFFFF) |
| [DarkGreen](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkGreen) | [#006400](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=006400) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=006400) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=006400&colortop=FFFFFF) |

## Cyan Colors

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **HEX** | **Color** | **Shades** | **Mix** |
| [MediumAquamarine](http://www.w3schools.com/tags/ref_color_tryit.asp?color=MediumAquamarine) | [#66CDAA](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=66CDAA) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=66CDAA) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=66CDAA&colortop=FFFFFF) |
| [Aqua](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Aqua) | [#00FFFF](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=00FFFF) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=00FFFF) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=00FFFF&colortop=FFFFFF) |
| [Cyan](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Cyan) | [#00FFFF](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=00FFFF) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=00FFFF) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=00FFFF&colortop=FFFFFF) |
| [LightCyan](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LightCyan) | [#E0FFFF](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=E0FFFF) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=E0FFFF) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=E0FFFF&colortop=FFFFFF) |
| [Azure](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Azure) | [#F0FFFF](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=F0FFFF) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=F0FFFF) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=F0FFFF&colortop=FFFFFF) |
| [PaleTurquoise](http://www.w3schools.com/tags/ref_color_tryit.asp?color=PaleTurquoise) | [#AFEEEE](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=AFEEEE) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=AFEEEE) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=AFEEEE&colortop=FFFFFF) |
| [Aquamarine](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Aquamarine) | [#7FFFD4](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=7FFFD4) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=7FFFD4) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=7FFFD4&colortop=FFFFFF) |
| [Turquoise](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Turquoise) | [#40E0D0](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=40E0D0) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=40E0D0) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=40E0D0&colortop=FFFFFF) |
| [MediumTurquoise](http://www.w3schools.com/tags/ref_color_tryit.asp?color=MediumTurquoise) | [#48D1CC](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=48D1CC) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=48D1CC) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=48D1CC&colortop=FFFFFF) |
| [DarkTurquoise](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkTurquoise) | [#00CED1](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=00CED1) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=00CED1) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=00CED1&colortop=FFFFFF) |
| [LightSeaGreen](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LightSeaGreen) | [#20B2AA](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=20B2AA) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=20B2AA) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=20B2AA&colortop=FFFFFF) |
| [CadetBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=CadetBlue) | [#5F9EA0](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=5F9EA0) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=5F9EA0) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=5F9EA0&colortop=FFFFFF) |
| [DarkCyan](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkCyan) | [#008B8B](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=008B8B) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=008B8B) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=008B8B&colortop=FFFFFF) |
| [Teal](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Teal) | [#008080](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=008080) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=008080) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=008080&colortop=FFFFFF) |

## Blue Colors

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **HEX** | **Color** | **Shades** | **Mix** |
| [LightSteelBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LightSteelBlue) | [#B0C4DE](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=B0C4DE) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=B0C4DE) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=B0C4DE&colortop=FFFFFF) |
| [PowderBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=PowderBlue) | [#B0E0E6](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=B0E0E6) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=B0E0E6) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=B0E0E6&colortop=FFFFFF) |
| [LightBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LightBlue) | [#ADD8E6](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=ADD8E6) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=ADD8E6) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=ADD8E6&colortop=FFFFFF) |
| [SkyBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=SkyBlue) | [#87CEEB](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=87CEEB) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=87CEEB) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=87CEEB&colortop=FFFFFF) |
| [LightSkyBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LightSkyBlue) | [#87CEFA](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=87CEFA) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=87CEFA) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=87CEFA&colortop=FFFFFF) |
| [DeepSkyBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DeepSkyBlue) | [#00BFFF](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=00BFFF) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=00BFFF) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=00BFFF&colortop=FFFFFF) |
| [DodgerBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DodgerBlue) | [#1E90FF](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=1E90FF) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=1E90FF) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=1E90FF&colortop=FFFFFF) |
| [CornflowerBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=CornflowerBlue) | [#6495ED](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=6495ED) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=6495ED) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=6495ED&colortop=FFFFFF) |
| [SteelBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=SteelBlue) | [#4682B4](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=4682B4) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=4682B4) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=4682B4&colortop=FFFFFF) |
| [RoyalBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=RoyalBlue) | [#4169E1](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=4169E1) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=4169E1) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=4169E1&colortop=FFFFFF) |
| [Blue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Blue) | [#0000FF](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=0000FF) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=0000FF) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=0000FF&colortop=FFFFFF) |
| [MediumBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=MediumBlue) | [#0000CD](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=0000CD) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=0000CD) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=0000CD&colortop=FFFFFF) |
| [DarkBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkBlue) | [#00008B](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=00008B) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=00008B) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=00008B&colortop=FFFFFF) |
| [Navy](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Navy) | [#000080](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=000080) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=000080) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=000080&colortop=FFFFFF) |
| [MidnightBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=MidnightBlue) | [#191970](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=191970) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=191970) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=191970&colortop=FFFFFF) |

## Gray Colors

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **HEX** | **Color** | **Shades** | **Mix** |
| [Gainsboro](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Gainsboro) | [#DCDCDC](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=DCDCDC) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=DCDCDC) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=DCDCDC&colortop=FFFFFF) |
| [LightGrey](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LightGrey) | [#D3D3D3](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=D3D3D3) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=D3D3D3) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=D3D3D3&colortop=FFFFFF) |
| [Silver](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Silver) | [#C0C0C0](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=C0C0C0) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=C0C0C0) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=C0C0C0&colortop=FFFFFF) |
| [DarkGray](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkGray) | [#A9A9A9](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=A9A9A9) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=A9A9A9) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=A9A9A9&colortop=FFFFFF) |
| [Gray](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Gray) | [#808080](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=808080) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=808080) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=808080&colortop=FFFFFF) |
| [DimGray](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DimGray) | [#696969](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=696969) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=696969) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=696969&colortop=FFFFFF) |
| [LightSlateGray](http://www.w3schools.com/tags/ref_color_tryit.asp?color=LightSlateGray) | [#778899](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=778899) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=778899) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=778899&colortop=FFFFFF) |
| [SlateGray](http://www.w3schools.com/tags/ref_color_tryit.asp?color=SlateGray) | [#708090](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=708090) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=708090) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=708090&colortop=FFFFFF) |
| [DarkSlateGray](http://www.w3schools.com/tags/ref_color_tryit.asp?color=DarkSlateGray) | [#2F4F4F](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=2F4F4F) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=2F4F4F) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=2F4F4F&colortop=FFFFFF) |
| [Black](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Black) | [#000000](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=000000) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=000000) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=000000&colortop=FFFFFF) |

## White Colors

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **HEX** | **Color** | **Shades** | **Mix** |
| [White](http://www.w3schools.com/tags/ref_color_tryit.asp?color=White) | [#FFFFFF](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFFFFF) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFFFFF) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFFFFF&colortop=FFFFFF) |
| [Snow](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Snow) | [#FFFAFA](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFFAFA) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFFAFA) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFFAFA&colortop=FFFFFF) |
| [Honeydew](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Honeydew) | [#F0FFF0](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=F0FFF0) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=F0FFF0) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=F0FFF0&colortop=FFFFFF) |
| [MintCream](http://www.w3schools.com/tags/ref_color_tryit.asp?color=MintCream) | [#F5FFFA](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=F5FFFA) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=F5FFFA) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=F5FFFA&colortop=FFFFFF) |
| [AliceBlue](http://www.w3schools.com/tags/ref_color_tryit.asp?color=AliceBlue) | [#F0F8FF](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=F0F8FF) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=F0F8FF) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=F0F8FF&colortop=FFFFFF) |
| [GhostWhite](http://www.w3schools.com/tags/ref_color_tryit.asp?color=GhostWhite) | [#F8F8FF](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=F8F8FF) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=F8F8FF) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=F8F8FF&colortop=FFFFFF) |
| [WhiteSmoke](http://www.w3schools.com/tags/ref_color_tryit.asp?color=WhiteSmoke) | [#F5F5F5](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=F5F5F5) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=F5F5F5) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=F5F5F5&colortop=FFFFFF) |
| [Seashell](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Seashell) | [#FFF5EE](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFF5EE) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFF5EE) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFF5EE&colortop=FFFFFF) |
| [Beige](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Beige) | [#F5F5DC](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=F5F5DC) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=F5F5DC) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=F5F5DC&colortop=FFFFFF) |
| [OldLace](http://www.w3schools.com/tags/ref_color_tryit.asp?color=OldLace) | [#FDF5E6](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FDF5E6) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FDF5E6) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FDF5E6&colortop=FFFFFF) |
| [FloralWhite](http://www.w3schools.com/tags/ref_color_tryit.asp?color=FloralWhite) | [#FFFAF0](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFFAF0) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFFAF0) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFFAF0&colortop=FFFFFF) |
| [Ivory](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Ivory) | [#FFFFF0](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FFFFF0) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FFFFF0) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FFFFF0&colortop=FFFFFF) |
| [AntiqueWhite](http://www.w3schools.com/tags/ref_color_tryit.asp?color=AntiqueWhite) | [#FAEBD7](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FAEBD7) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FAEBD7) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FAEBD7&colortop=FFFFFF) |
| [Linen](http://www.w3schools.com/tags/ref_color_tryit.asp?color=Linen) | [#FAF0E6](http://www.w3schools.com/tags/ref_color_tryit.asp?hex=FAF0E6) |  | [Shades](http://www.w3schools.com/tags/ref_colorpicker.asp?colorhex=FAF0E6) | [Mix](http://www.w3schools.com/tags/ref_colormixer.asp?colorbottom=FAF0E6&colortop=FFFFFF) |

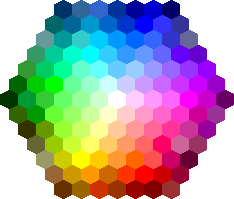
# HTML Color Picker

[« Previous](http://www.w3schools.com/tags/ref_colorgroups.asp)

[Next Reference »](http://www.w3schools.com/tags/ref_colormixer.asp)

Get darker/lighter shades of any color.

### Pick a Color:



### Or Enter a Color:



### Or Use HTML5:

### Selected Color:

#FF0000

rgb(255, 0, 0)

Red

|  |  |
| --- | --- |
| Shades: | Hex: |
|  | #000000 |
|  | #1A0000 |
|  | #330000 |
|  | #4C0000 |
|  | #660000 |
|  | #800000 |
|  | #990000 |
|  | #B20000 |
|  | #CC0000 |
|  | #E60000 |
|  | **#FF0000** |
|  | #FF1919 |
|  | #FF3333 |
|  | #FF4D4D |
|  | #FF6666 |
|  | #FF8080 |
|  | #FF9999 |
|  | #FFB2B2 |
|  | #FFCCCC |
|  | #FFE6E6 |
|  | #FFFFFF |

# HTML Color Mixer

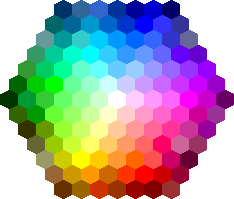
[« Previous](http://www.w3schools.com/tags/ref_colorpicker.asp)

[Next Reference »](http://www.w3schools.com/tags/ref_charactersets.asp)

Mix two colors and see the result.

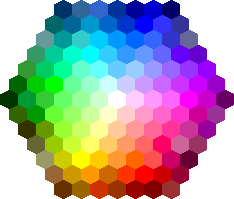
Haut du formulaire

Select colors:



#FF0000

#0000FF



Top color: 

Bas du formulaire

|  |  |
| --- | --- |
|  | #FF0000 |
|  | #F2000D |
|  | #E6001A |
|  | #D90026 |
|  | #CC0033 |
|  | #BF0040 |
|  | #B2004C |
|  | #A60059 |
|  | #990066 |
|  | #8C0073 |
|  | #800080 |
|  | #73008C |
|  | #660099 |
|  | #5900A6 |
|  | #4D00B2 |
|  | #4000BF |
|  | #3300CC |
|  | #2600D9 |
|  | #1900E6 |
|  | #0D00F2 |
|  | #0000FF |

Bottom color: 

# HTML Character Sets

[« Previous](http://www.w3schools.com/tags/ref_colormixer.asp)

[Next Reference »](http://www.w3schools.com/tags/ref_urlencode.asp)

To display an HTML page correctly, the browser must know what character set (character encoding) to use.

## HTML Character Sets

What is the correct character encoding to use in HTML?

**For HTML5, the default character encoding is UTF-8.**

This has not always been the case. The character encoding for the early web was ASCII.

Later, from HTML 2.0 to HTML 4.01, ISO-8859-1 was considered the standard.

With XML and HTML5, UTF-8 finally arrived, and solved a lot of character encoding problems.

Below is a brief description of the character encoding standards.

## In the Beginning: ASCII

Computer information (numbers, texts, and pictures) is stored as binary ones and zeros (01000101) in the electronics.

To standardize the storing of alphanumeric characters, the American Standard Code for Information Interchange (ASCII) was created. It defined a unique binary 7-bits number for each storable character to support the numbers from 0-9, the upper/lower case English alphabet (a-z, A-Z), and some special characters like ! $ + - ( ) @ < > .

Since ASCII used one byte (7 bits for the character, and one of bit for transmission parity control), it could only represent 128 different characters. In addition 32 of these characters were reserved for other control purposes.

The biggest weakness with ASCII was that it excluded non English letters.

ASCII is still in widespread use today, especially in large mainframe computer systems.

For a closer look, please study our [Complete ASCII Reference](http://www.w3schools.com/charsets/ref_html_ascii.asp).

## In Windows: ANSI

ANSI (also called Windows-1252) was the default character set in Windows, up to Windows 95.

ANSI is an extension to ASCII, with added international characters. It uses a full byte (8-bits) to represent 256 different characters.

Since ANSI has been the default character set in Windows, it is supported by all browsers.

For a closer look, please study our [Complete ANSI Reference](http://www.w3schools.com/charsets/ref_html_ansi.asp).

## In HTML 4: ISO-8859-1

Since most countries use characters outside ASCII, the default character encoding in the HTML 2.0 standard was changed to ISO-8859-1.

ISO-8859-1 is an extension to ASCII, with added international characters. Like ANSI, it uses a full byte to represent twice as many characters than ASCII.

|  |  |
| --- | --- |
| **Note** | When browsers detect ISO-8859-1 in a web page, they normally default to ANSI, because ANSI is identical to ISO-8859-1 except that ANSI has 32 extra characters. |

If an HTML 4 web page uses a different character-set than ISO-8859-1, it should be specified in the <meta> tag:

### Example

<meta http-equiv="Content-Type" content="text/html;charset=ISO-8859-8">

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_charsets)

|  |  |
| --- | --- |
| **Note** | The default character set for HTML5 is UTF-8. All HTML 4 processors support UTF-8, and all HTML5 and XML processors support both UTF-8 and UTF-16. |

For a closer look, please study our [Complete ISO-8859-1 Reference](http://www.w3schools.com/charsets/ref_html_8859.asp).

## In HTML5: Unicode UTF-8

Because the character sets listed above are limited, and not compatible in multilingual environments, the Unicode Consortium developed the Unicode Standard.

The Unicode Standard covers (almost) all the characters, punctuations, and symbols in the world.

Unicode enables processing, storage, and transport of text, independent of platform and language.

**The default character encoding in HTML5 is UTF-8.**

For a closer look, please study our [Complete Unicode Reference](http://www.w3schools.com/charsets/ref_html_utf8.asp).

# HTML URL Encoding Reference

[« Previous](http://www.w3schools.com/tags/ref_charactersets.asp)

[Next Reference »](http://www.w3schools.com/tags/ref_language_codes.asp)

URL encoding converts characters into a format that can be transmitted over the Internet.

## URL - Uniform Resource Locator

Web browsers request pages from web servers by using a URL.

The URL is the address of a web page, like: **http://www.w3schools.com.**

## URL Encoding

URLs can only be sent over the Internet using the [ASCII character-set](http://www.w3schools.com/charsets/ref_html_ascii.asp).

Since URLs often contain characters outside the ASCII set, the URL has to be converted into a valid ASCII format.

URL encoding replaces unsafe ASCII characters with a "%" followed by two hexadecimal digits.

URLs cannot contain spaces. URL encoding normally replaces a space with a plus (+) sign or with %20.

## Try It Yourself

If you click the "Submit" button below, the browser will URL encode the input before it is sent to the server. A page at the server will display the received input.

Haut du formulaire



Bas du formulaire

Haut du formulaire

Bas du formulaire

Try some other input and click Submit again.

## URL Encoding Functions

In JavaScript, PHP, and ASP there are functions that can be used to URL encode a string.

In JavaScript you can use the encodeURI() function.

PHP has the rawurlencode() function, and ASP has the Server.URLEncode() function.

Click the "URL Encode" button to see how the JavaScript function encodes the text.



**Note:** The JavaScript function encodes space as %20.

## ASCII Encoding Reference

Your browser will encode input, according to the character-set used in your page.

The default character-set in HTML5 is UTF-8.

|  |  |  |
| --- | --- | --- |
| **Character** | **From Windows-1252** | **From UTF-8** |
| space | %20 | %20 |
| ! | %21 | %21 |
| " | %22 | %22 |
| # | %23 | %23 |
| $ | %24 | %24 |
| % | %25 | %25 |
| & | %26 | %26 |
| ' | %27 | %27 |
| ( | %28 | %28 |
| ) | %29 | %29 |
| \* | %2A | %2A |
| + | %2B | %2B |
| , | %2C | %2C |
| - | %2D | %2D |
| . | %2E | %2E |
| / | %2F | %2F |
| 0 | %30 | %30 |
| 1 | %31 | %31 |
| 2 | %32 | %32 |
| 3 | %33 | %33 |
| 4 | %34 | %34 |
| 5 | %35 | %35 |
| 6 | %36 | %36 |
| 7 | %37 | %37 |
| 8 | %38 | %38 |
| 9 | %39 | %39 |
| : | %3A | %3A |
| ; | %3B | %3B |
| < | %3C | %3C |
| = | %3D | %3D |
| > | %3E | %3E |
| ? | %3F | %3F |
| @ | %40 | %40 |
| A | %41 | %41 |
| B | %42 | %42 |
| C | %43 | %43 |
| D | %44 | %44 |
| E | %45 | %45 |
| F | %46 | %46 |
| G | %47 | %47 |
| H | %48 | %48 |
| I | %49 | %49 |
| J | %4A | %4A |
| K | %4B | %4B |
| L | %4C | %4C |
| M | %4D | %4D |
| N | %4E | %4E |
| O | %4F | %4F |
| P | %50 | %50 |
| Q | %51 | %51 |
| R | %52 | %52 |
| S | %53 | %53 |
| T | %54 | %54 |
| U | %55 | %55 |
| V | %56 | %56 |
| W | %57 | %57 |
| X | %58 | %58 |
| Y | %59 | %59 |
| Z | %5A | %5A |
| [ | %5B | %5B |
| \ | %5C | %5C |
| ] | %5D | %5D |
| ^ | %5E | %5E |
| \_ | %5F | %5F |
| ` | %60 | %60 |
| a | %61 | %61 |
| b | %62 | %62 |
| c | %63 | %63 |
| d | %64 | %64 |
| e | %65 | %65 |
| f | %66 | %66 |
| g | %67 | %67 |
| h | %68 | %68 |
| i | %69 | %69 |
| j | %6A | %6A |
| k | %6B | %6B |
| l | %6C | %6C |
| m | %6D | %6D |
| n | %6E | %6E |
| o | %6F | %6F |
| p | %70 | %70 |
| q | %71 | %71 |
| r | %72 | %72 |
| s | %73 | %73 |
| t | %74 | %74 |
| u | %75 | %75 |
| v | %76 | %76 |
| w | %77 | %77 |
| x | %78 | %78 |
| y | %79 | %79 |
| z | %7A | %7A |
| { | %7B | %7B |
| | | %7C | %7C |
| } | %7D | %7D |
| ~ | %7E | %7E |
|  | %7F | %7F |
| ` | %80 | %E2%82%AC |
|  | %81 | %81 |
| ‚ | %82 | %E2%80%9A |
| ƒ | %83 | %C6%92 |
| „ | %84 | %E2%80%9E |
| … | %85 | %E2%80%A6 |
| † | %86 | %E2%80%A0 |
| ‡ | %87 | %E2%80%A1 |
| ˆ | %88 | %CB%86 |
| ‰ | %89 | %E2%80%B0 |
| Š | %8A | %C5%A0 |
| ‹ | %8B | %E2%80%B9 |
| Œ | %8C | %C5%92 |
|  | %8D | %C5%8D |
| Ž | %8E | %C5%BD |
|  | %8F | %8F |
|  | %90 | %C2%90 |
| ‘ | %91 | %E2%80%98 |
| ’ | %92 | %E2%80%99 |
| “ | %93 | %E2%80%9C |
| ” | %94 | %E2%80%9D |
| • | %95 | %E2%80%A2 |
| – | %96 | %E2%80%93 |
| — | %97 | %E2%80%94 |
| ˜ | %98 | %CB%9C |
| ™ | %99 | %E2%84 |
| š | %9A | %C5%A1 |
| › | %9B | %E2%80 |
| œ | %9C | %C5%93 |
|  | %9D | %9D |
| ž | %9E | %C5%BE |
| Ÿ | %9F | %C5%B8 |
|  | %A0 | %C2%A0 |
| ¡ | %A1 | %C2%A1 |
| ¢ | %A2 | %C2%A2 |
| £ | %A3 | %C2%A3 |
| ¤ | %A4 | %C2%A4 |
| ¥ | %A5 | %C2%A5 |
| ¦ | %A6 | %C2%A6 |
| § | %A7 | %C2%A7 |
| ¨ | %A8 | %C2%A8 |
| © | %A9 | %C2%A9 |
| ª | %AA | %C2%AA |
| « | %AB | %C2%AB |
| ¬ | %AC | %C2%AC |
| ­ | %AD | %C2%AD |
| ® | %AE | %C2%AE |
| ¯ | %AF | %C2%AF |
| ° | %B0 | %C2%B0 |
| ± | %B1 | %C2%B1 |
| ² | %B2 | %C2%B2 |
| ³ | %B3 | %C2%B3 |
| ´ | %B4 | %C2%B4 |
| µ | %B5 | %C2%B5 |
| ¶ | %B6 | %C2%B6 |
| · | %B7 | %C2%B7 |
| ¸ | %B8 | %C2%B8 |
| ¹ | %B9 | %C2%B9 |
| º | %BA | %C2%BA |
| » | %BB | %C2%BB |
| ¼ | %BC | %C2%BC |
| ½ | %BD | %C2%BD |
| ¾ | %BE | %C2%BE |
| ¿ | %BF | %C2%BF |
| À | %C0 | %C3%80 |
| Á | %C1 | %C3%81 |
| Â | %C2 | %C3%82 |
| Ã | %C3 | %C3%83 |
| Ä | %C4 | %C3%84 |
| Å | %C5 | %C3%85 |
| Æ | %C6 | %C3%86 |
| Ç | %C7 | %C3%87 |
| È | %C8 | %C3%88 |
| É | %C9 | %C3%89 |
| Ê | %CA | %C3%8A |
| Ë | %CB | %C3%8B |
| Ì | %CC | %C3%8C |
| Í | %CD | %C3%8D |
| Î | %CE | %C3%8E |
| Ï | %CF | %C3%8F |
| Ð | %D0 | %C3%90 |
| Ñ | %D1 | %C3%91 |
| Ò | %D2 | %C3%92 |
| Ó | %D3 | %C3%93 |
| Ô | %D4 | %C3%94 |
| Õ | %D5 | %C3%95 |
| Ö | %D6 | %C3%96 |
| × | %D7 | %C3%97 |
| Ø | %D8 | %C3%98 |
| Ù | %D9 | %C3%99 |
| Ú | %DA | %C3%9A |
| Û | %DB | %C3%9B |
| Ü | %DC | %C3%9C |
| Ý | %DD | %C3%9D |
| Þ | %DE | %C3%9E |
| ß | %DF | %C3%9F |
| à | %E0 | %C3%A0 |
| á | %E1 | %C3%A1 |
| â | %E2 | %C3%A2 |
| ã | %E3 | %C3%A3 |
| ä | %E4 | %C3%A4 |
| å | %E5 | %C3%A5 |
| æ | %E6 | %C3%A6 |
| ç | %E7 | %C3%A7 |
| è | %E8 | %C3%A8 |
| é | %E9 | %C3%A9 |
| ê | %EA | %C3%AA |
| ë | %EB | %C3%AB |
| ì | %EC | %C3%AC |
| í | %ED | %C3%AD |
| î | %EE | %C3%AE |
| ï | %EF | %C3%AF |
| ð | %F0 | %C3%B0 |
| ñ | %F1 | %C3%B1 |
| ò | %F2 | %C3%B2 |
| ó | %F3 | %C3%B3 |
| ô | %F4 | %C3%B4 |
| õ | %F5 | %C3%B5 |
| ö | %F6 | %C3%B6 |
| ÷ | %F7 | %C3%B7 |
| ø | %F8 | %C3%B8 |
| ù | %F9 | %C3%B9 |
| ú | %FA | %C3%BA |
| û | %FB | %C3%BB |
| ü | %FC | %C3%BC |
| ý | %FD | %C3%BD |
| þ | %FE | %C3%BE |
| ÿ | %FF | %C3%BF |

## URL Encoding Reference

The ASCII control characters **%00-%1F** were originally designed to control hardware devices.

Control characters have nothing to do inside a URL.

|  |  |  |
| --- | --- | --- |
| **ASCII Character** | **Description** | **URL-encoding** |
| NUL | null character | %00 |
| SOH | start of header | %01 |
| STX | start of text | %02 |
| ETX | end of text | %03 |
| EOT | end of transmission | %04 |
| ENQ | enquiry | %05 |
| ACK | acknowledge | %06 |
| BEL | bell (ring) | %07 |
| BS | backspace | %08 |
| HT | horizontal tab | %09 |
| LF | line feed | %0A |
| VT | vertical tab | %0B |
| FF | form feed | %0C |
| CR | carriage return | %0D |
| SO | shift out | %0E |
| SI | shift in | %0F |
| DLE | data link escape | %10 |
| DC1 | device control 1 | %11 |
| DC2 | device control 2 | %12 |
| DC3 | device control 3 | %13 |
| DC4 | device control 4 | %14 |
| NAK | negative acknowledge | %15 |
| SYN | synchronize | %16 |
| ETB | end transmission block | %17 |
| CAN | cancel | %18 |
| EM | end of medium | %19 |
| SUB | substitute | %1A |
| ESC | escape | %1B |
| FS | file separator | %1C |
| GS | group separator | %1D |
| RS | record separator | %1E |
| US | unit separator | %1F |

# HTML Language Code Reference

[« Previous](http://www.w3schools.com/tags/ref_urlencode.asp)

[Next Reference »](http://www.w3schools.com/tags/ref_country_codes.asp)

## ISO Language Codes

The HTML lang attribute can be used to declare the language of a Web page or a portion of a Web page. This is meant to assist search engines and browsers.

According to the W3C recommendation you should declare the primary language for each Web page with the lang attribute inside the <html> tag, like this:

<html lang="en">  
...  
</html>

In XHTML, the language is declared inside the <html> tag as follows:

<html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en">  
...  
</html>

## ISO 639-1 Language Codes

ISO 639-1 defines abbreviations for languages.

In HTML and XHTML they can be used in the lang and xml:lang attributes.

See also: next reference for country codes.

|  |  |
| --- | --- |
| **Language** | **ISO Code** |
| Abkhazian | ab |
| Afar | aa |
| Afrikaans | af |
| Albanian | sq |
| Amharic | am |
| Arabic | ar |
| Aragonese | an |
| Armenian | hy |
| Assamese | as |
| Aymara | ay |
| Azerbaijani | az |
| Bashkir | ba |
| Basque | eu |
| Bengali (Bangla) | bn |
| Bhutani | dz |
| Bihari | bh |
| Bislama | bi |
| Breton | br |
| Bulgarian | bg |
| Burmese | my |
| Byelorussian (Belarusian) | be |
| Cambodian | km |
| Catalan | ca |
| Cherokee |  |
| Chewa |  |
| Chinese | zh |
| Chinese (Simplified) | zh-Hans |
| Chinese (Traditional) | zh-Hant |
| Corsican | co |
| Croatian | hr |
| Czech | cs |
| Danish | da |
| Divehi |  |
| Dutch | nl |
| Edo |  |
| English | en |
| Esperanto | eo |
| Estonian | et |
| Faeroese | fo |
| Farsi | fa |
| Fiji | fj |
| Finnish | fi |
| Flemish |  |
| French | fr |
| Frisian | fy |
| Fulfulde |  |
| Galician | gl |
| Gaelic (Scottish) | gd |
| Gaelic (Manx) | gv |
| Georgian | ka |
| German | de |
| Greek | el |
| Greenlandic | kl |
| Guarani | gn |
| Gujarati | gu |
| Haitian Creole | ht |
| Hausa | ha |
| Hawaiian |  |
| Hebrew | he, iw |
| Hindi | hi |
| Hungarian | hu |
| Ibibio |  |
| Icelandic | is |
| Ido | io |
| Igbo |  |
| Indonesian | id, in |
| Interlingua | ia |
| Interlingue | ie |
| Inuktitut | iu |
| Inupiak | ik |
| Irish | ga |
| Italian | it |
| Japanese | ja |
| Javanese | jv |
| Kannada | kn |
| Kanuri |  |
| Kashmiri | ks |
| Kazakh | kk |
| Kinyarwanda (Ruanda) | rw |
| Kirghiz | ky |
| Kirundi (Rundi) | rn |
| Konkani |  |
| Korean | ko |
| Kurdish | ku |
| Laothian | lo |
| Latin | la |
| Latvian (Lettish) | lv |
| Limburgish ( Limburger) | li |
| Lingala | ln |
| Lithuanian | lt |
| Macedonian | mk |
| Malagasy | mg |
| Malay | ms |
| Malayalam | ml |
| Maltese | mt |
| Maori | mi |
| Marathi | mr |
| Moldavian | mo |
| Mongolian | mn |
| Nauru | na |
| Nepali | ne |
| Norwegian | no |
| Occitan | oc |
| Oriya | or |
| Oromo (Afaan Oromo) | om |
| Papiamentu |  |
| Pashto (Pushto) | ps |
| Polish | pl |
| Portuguese | pt |
| Punjabi | pa |
| Quechua | qu |
| Rhaeto-Romance | rm |
| Romanian | ro |
| Russian | ru |
| Sami (Lappish) |  |
| Samoan | sm |
| Sangro | sg |
| Sanskrit | sa |
| Serbian | sr |
| Serbo-Croatian | sh |
| Sesotho | st |
| Setswana | tn |
| Shona | sn |
| Sichuan Yi | ii |
| Sindhi | sd |
| Sinhalese | si |
| Siswati | ss |
| Slovak | sk |
| Slovenian | sl |
| Somali | so |
| Spanish | es |
| Sundanese | su |
| Swahili (Kiswahili) | sw |
| Swedish | sv |
| Syriac |  |
| Tagalog | tl |
| Tajik | tg |
| Tamazight |  |
| Tamil | ta |
| Tatar | tt |
| Telugu | te |
| Thai | th |
| Tibetan | bo |
| Tigrinya | ti |
| Tonga | to |
| Tsonga | ts |
| Turkish | tr |
| Turkmen | tk |
| Twi | tw |
| Uighur | ug |
| Ukrainian | uk |
| Urdu | ur |
| Uzbek | uz |
| Venda |  |
| Vietnamese | vi |
| Volapük | vo |
| Wallon | wa |
| Welsh | cy |
| Wolof | wo |
| Xhosa | xh |
| Yi |  |
| Yiddish | yi, ji |
| Yoruba | yo |
| Zulu | zu |

# HTML ISO Country Codes Reference

[« Previous](http://www.w3schools.com/tags/ref_language_codes.asp)

[Next Reference »](http://www.w3schools.com/tags/ref_httpmessages.asp)

## ISO Country Codes

ISO country codes define abbreviations for countries.

In HTML they can be used as an addition to the language value in the lang attribute.

The first two characters of a language code defines the **language**. (see previous reference)

The last two defines the **country**.

<html lang="en**-US**">  
...  
</html>

## ISO Country Codes

|  |  |
| --- | --- |
| **Country** | **ISO Code** |
| AFGHANISTAN | AF |
| ALBANIA | AL |
| ALGERIA | DZ |
| AMERICAN SAMOA | AS |
| ANDORRA | AD |
| ANGOLA | AO |
| ANTARCTICA | AQ |
| ANTIGUA AND BARBUDA | AG |
| ARGENTINA | AR |
| ARMENIA | AM |
| ARUBA | AW |
| AUSTRALIA | AU |
| AUSTRIA | AT |
| AZERBAIJAN | AZ |
| BAHAMAS | BS |
| BAHRAIN | BH |
| BANGLADESH | BD |
| BARBADOS | BB |
| BELARUS | BY |
| BELGIUM | BE |
| BELIZE | BZ |
| BENIN | BJ |
| BERMUDA | BM |
| BHUTAN | BT |
| BOLIVIA | BO |
| BOSNIA AND HERZEGOVINA | BA |
| BOTSWANA | BW |
| BOUVET ISLAND | BV |
| BRAZIL | BR |
| BRITISH INDIAN OCEAN TERRITORY | IO |
| BRUNEI DARUSSALAM | BN |
| BULGARIA | BG |
| BURKINA FASO | BF |
| BURUNDI | BI |
| CAMBODIA | KH |
| CAMEROON | CM |
| CANADA | CA |
| CAPE VERDE | CV |
| CAYMAN ISLANDS | KY |
| CENTRAL AFRICAN REPUBLIC | CF |
| CHAD | TD |
| CHILE | CL |
| CHINA | CN |
| CHRISTMAS ISLAND | CX |
| COCOS (KEELING) ISLANDS | CC |
| COLOMBIA | CO |
| COMOROS | KM |
| CONGO | CG |
| CONGO, THE DEMOCRATIC REPUBLIC OF THE | CD |
| COOK ISLANDS | CK |
| COSTA RICA | CR |
| CÔTE D'IVOIRE | CI |
| CROATIA | HR |
| CUBA | CU |
| CYPRUS | CY |
| CZECH REPUBLIC | CZ |
| DENMARK | DK |
| DJIBOUTI | DJ |
| DOMINICA | DM |
| DOMINICAN REPUBLIC | DO |
| ECUADOR | EC |
| EGYPT | EG |
| EL SALVADOR | SV |
| EQUATORIAL GUINEA | GQ |
| ERITREA | ER |
| ESTONIA | EE |
| ETHIOPIA | ET |
| FALKLAND ISLANDS (MALVINAS) | FK |
| FAROE ISLANDS | FO |
| FIJI | FJ |
| FINLAND | FI |
| FRANCE | FR |
| FRENCH GUIANA | GF |
| FRENCH POLYNESIA | PF |
| FRENCH SOUTHERN TERRITORIES | TF |
| GABON | GA |
| GAMBIA | GM |
| GEORGIA | GE |
| GERMANY | DE |
| GHANA | GH |
| GIBRALTAR | GI |
| GREECE | GR |
| GREENLAND | GL |
| GRENADA | GD |
| GUADELOUPE | GP |
| GUAM | GU |
| GUATEMALA | GT |
| GUINEA | GN |
| GUINEA-BISSAU | GW |
| GUYANA | GY |
| HAITI | HT |
| HEARD ISLAND AND MCDONALD ISLANDS | HM |
| HONDURAS | HN |
| HONG KONG | HK |
| HUNGARY | HU |
| ICELAND | IS |
| INDIA | IN |
| INDONESIA | ID |
| IRAN, ISLAMIC REPUBLIC OF | IR |
| IRAQ | IQ |
| IRELAND | IE |
| ISRAEL | IL |
| ITALY | IT |
| JAMAICA | JM |
| JAPAN | JP |
| JORDAN | JO |
| KAZAKHSTAN | KZ |
| KENYA | KE |
| KIRIBATI | KI |
| KOREA, DEMOCRATIC PEOPLE'S REPUBLIC OF | KP |
| KOREA, REPUBLIC OF | KR |
| KUWAIT | KW |
| KYRGYZSTAN | KG |
| LAO PEOPLE'S DEMOCRATIC REPUBLIC | LA |
| LATVIA | LV |
| LEBANON | LB |
| LESOTHO | LS |
| LIBERIA | LR |
| LIBYAN ARAB JAMAHIRIYA | LY |
| LIECHTENSTEIN | LI |
| LITHUANIA | LT |
| LUXEMBOURG | LU |
| MACAO | MO |
| MACEDONIA, THE FORMER YUGOSLAV REPUBLIC OF | MK |
| MADAGASCAR | MG |
| MALAWI | MW |
| MALAYSIA | MY |
| MALDIVES | MV |
| MALI | ML |
| MALTA | MT |
| MARSHALL ISLANDS | MH |
| MARTINIQUE | MQ |
| MAURITANIA | MR |
| MAURITIUS | MU |
| MAYOTTE | YT |
| MEXICO | MX |
| MICRONESIA, FEDERATED STATES OF | FM |
| MOLDOVA, REPUBLIC OF | MD |
| MONACO | MC |
| MONGOLIA | <="" td=""> MN |
| MONTENEGRO | ME |
| MONTSERRAT | MS |
| MOROCCO | MA |
| MOZAMBIQUE | MZ |
| MYANMAR | MM |
| NAMIBIA | NA |
| NAURU | NR |
| NEPAL | NP |
| NETHERLANDS | NL |
| NETHERLANDS ANTILLES | AN |
| NEW CALEDONIA | NC |
| NEW ZEALAND | NZ |
| NICARAGUA | NI |
| NIGER | NE |
| NIGERIA | NG |
| NIUE | NU |
| NORFOLK ISLAND | NF |
| NORTHERN MARIANA ISLANDS | MP |
| NORWAY | NO |
| OMAN | OM |
| PAKISTAN | PK |
| PALAU | PW |
| PALESTINIAN TERRITORY, OCCUPIED | PS |
| PANAMA | PA |
| PAPUA NEW GUINEA | PG |
| PARAGUAY | PY |
| PERU | PE |
| PHILIPPINES | PH |
| PITCAIRN | PN |
| POLAND | PL |
| PORTUGAL | PT |
| PUERTO RICO | PR |
| QATAR | QA |
| RÉUNION | RE |
| ROMANIA | RO |
| RUSSIAN FEDERATION | RU |
| RWANDA | RW |
| SAINT HELENA | SH |
| SAINT KITTS AND NEVIS | KN |
| SAINT LUCIA | LC |
| SAINT PIERRE AND MIQUELON | PM |
| SAINT VINCENT AND THE GRENADINES | VC |
| SAMOA | WS |
| SAN MARINO | SM |
| SAO TOME AND PRINCIPE | ST |
| SAUDI ARABIA | SA |
| SENEGAL | SN |
| SERBIA | RS |
| SEYCHELLES | SC |
| SIERRA LEONE | SL |
| SINGAPORE | SG |
| SLOVAKIA | SK |
| SLOVENIA | SI |
| SOLOMON ISLANDS | SB |
| SOMALIA | SO |
| SOUTH AFRICA | ZA |
| SOUTH GEORGIA AND THE SOUTH SANDWICH ISLANDS | GS |
| SPAIN | ES |
| SRI LANKA | LK |
| SUDAN | SD |
| SURINAME | SR |
| SVALBARD AND JAN MAYEN | SJ |
| SWAZILAND | SZ |
| SWEDEN | SE |
| SWITZERLAND | CH |
| SYRIAN ARAB REPUBLIC | SY |
| TAIWAN | TW |
| TAJIKISTAN | TJ |
| TANZANIA, UNITED REPUBLIC OF | TZ |
| THAILAND | TH |
| TIMOR-LESTE | TL |
| TOGO | TG |
| TOKELAU | TK |
| TONGA | TO |
| TRINIDAD AND TOBAGO | TT |
| TUNISIA | TN |
| TURKEY | TR |
| TURKMENISTAN | TM |
| TURKS AND CAICOS ISLANDS | TC |
| TUVALU | TV |
| UGANDA | UG |
| UKRAINE | UA |
| UNITED ARAB EMIRATES | AE |
| UNITED KINGDOM | GB |
| UNITED STATES | US |
| UNITED STATES MINOR OUTLYING ISLANDS | UM |
| URUGUAY | UY |
| UZBEKISTAN | UZ |
| VANUATU | VU |
| VENEZUELA | VE |
| VIET NAM | VN |
| VIRGIN ISLANDS, BRITISH | VG |
| VIRGIN ISLANDS, U.S. | VI |
| WALLIS AND FUTUNA | WF |
| WESTERN SAHARA | EH |
| YEMEN | YE |
| ZAMBIA | ZM |
| ZIMBABWE | ZW |

# HTTP Status Messages

[« Previous](http://www.w3schools.com/tags/ref_country_codes.asp)

[Next Reference »](http://www.w3schools.com/tags/ref_httpmethods.asp)

When a browser requests a service from a web server, an error might occur.

This is a list of HTTP status messages that might be returned:

## 1xx: Information

|  |  |
| --- | --- |
| **Message:** | **Description:** |
| 100 Continue | The server has received the request headers, and the client should proceed to send the request body |
| 101 Switching Protocols | The requester has asked the server to switch protocols |
| 103 Checkpoint | Used in the resumable requests proposal to resume aborted PUT or POST requests |

## 2xx: Successful

|  |  |
| --- | --- |
| **Message:** | **Description:** |
| 200 OK | The request is OK (this is the standard response for successful HTTP requests) |
| 201 Created | The request has been fulfilled, and a new resource is created |
| 202 Accepted | The request has been accepted for processing, but the processing has not been completed |
| 203 Non-Authoritative Information | The request has been successfully processed, but is returning information that may be from another source |
| 204 No Content | The request has been successfully processed, but is not returning any content |
| 205 Reset Content | The request has been successfully processed, but is not returning any content, and requires that the requester reset the document view |
| 206 Partial Content | The server is delivering only part of the resource due to a range header sent by the client |

## 3xx: Redirection

|  |  |
| --- | --- |
| **Message:** | **Description:** |
| 300 Multiple Choices | A link list. The user can select a link and go to that location. Maximum five addresses |
| 301 Moved Permanently | The requested page has moved to a new URL |
| 302 Found | The requested page has moved temporarily to a new URL |
| 303 See Other | The requested page can be found under a different URL |
| 304 Not Modified | Indicates the requested page has not been modified since last requested |
| 306 Switch Proxy | *No longer used* |
| 307 Temporary Redirect | The requested page has moved temporarily to a new URL |
| 308 Resume Incomplete | Used in the resumable requests proposal to resume aborted PUT or POST requests |

## 4xx: Client Error

|  |  |
| --- | --- |
| **Message:** | **Description:** |
| 400 Bad Request | The request cannot be fulfilled due to bad syntax |
| 401 Unauthorized | The request was a legal request, but the server is refusing to respond to it. For use when authentication is possible but has failed or not yet been provided |
| 402 Payment Required | *Reserved for future use* |
| 403 Forbidden | The request was a legal request, but the server is refusing to respond to it |
| 404 Not Found | The requested page could not be found but may be available again in the future |
| 405 Method Not Allowed | A request was made of a page using a request method not supported by that page |
| 406 Not Acceptable | The server can only generate a response that is not accepted by the client |
| 407 Proxy Authentication Required | The client must first authenticate itself with the proxy |
| 408 Request Timeout | The server timed out waiting for the request |
| 409 Conflict | The request could not be completed because of a conflict in the request |
| 410 Gone | The requested page is no longer available |
| 411 Length Required | The "Content-Length" is not defined. The server will not accept the request without it |
| 412 Precondition Failed | The precondition given in the request evaluated to false by the server |
| 413 Request Entity Too Large | The server will not accept the request, because the request entity is too large |
| 414 Request-URI Too Long | The server will not accept the request, because the URL is too long. Occurs when you convert a POST request to a GET request with a long query information |
| 415 Unsupported Media Type | The server will not accept the request, because the media type is not supported |
| 416 Requested Range Not Satisfiable | The client has asked for a portion of the file, but the server cannot supply that portion |
| 417 Expectation Failed | The server cannot meet the requirements of the Expect request-header field |

## 5xx: Server Error

|  |  |
| --- | --- |
| **Message:** | **Description:** |
| 500 Internal Server Error | A generic error message, given when no more specific message is suitable |
| 501 Not Implemented | The server either does not recognize the request method, or it lacks the ability to fulfill the request |
| 502 Bad Gateway | The server was acting as a gateway or proxy and received an invalid response from the upstream server |
| 503 Service Unavailable | The server is currently unavailable (overloaded or down) |
| 504 Gateway Timeout | The server was acting as a gateway or proxy and did not receive a timely response from the upstream server |
| 505 HTTP Version Not Supported | The server does not support the HTTP protocol version used in the request |
| 511 Network Authentication Required | The client needs to authenticate to gain network access |

# HTTP Methods: GET vs. POST

[« Previous](http://www.w3schools.com/tags/ref_httpmessages.asp)

[Next Reference »](http://www.w3schools.com/tags/ref_pxtoemconversion.asp)

The two most used HTTP methods are: GET and POST.

## What is HTTP?

The Hypertext Transfer Protocol (HTTP) is designed to enable communications between clients and servers.

HTTP works as a request-response protocol between a client and server.

A web browser may be the client, and an application on a computer that hosts a web site may be the server.

Example: A client (browser) submits an HTTP request to the server; then the server returns a response to the client. The response contains status information about the request and may also contain the requested content.

## Two HTTP Request Methods: GET and POST

Two commonly used methods for a request-response between a client and server are: GET and POST.

* **GET** - Requests data from a specified resource
* **POST** - Submits data to be processed to a specified resource

## The GET Method

**Note that the query string (name/value pairs) is sent in the URL of a GET request:**

/test/demo\_form.asp**?name1=value1&name2=value2**

**Some other notes on GET requests:**

* GET requests can be cached
* GET requests remain in the browser history
* GET requests can be bookmarked
* GET requests should never be used when dealing with sensitive data
* GET requests have length restrictions
* GET requests should be used only to retrieve data

## The POST Method

**Note that the query string (name/value pairs) is sent in the HTTP message body of a POST request:**

POST /test/demo\_form.asp HTTP/1.1  
Host: w3schools.com  
**name1=value1&name2=value2**

**Some other notes on POST requests:**

* POST requests are never cached
* POST requests do not remain in the browser history
* POST requests cannot be bookmarked
* POST requests have no restrictions on data length

## Compare GET vs. POST

The following table compares the two HTTP methods: GET and POST.

|  |  |  |
| --- | --- | --- |
|  | **GET** | **POST** |
| BACK button/Reload | Harmless | Data will be re-submitted (the browser should alert the user that the data are about to be re-submitted) |
| Bookmarked | Can be bookmarked | Cannot be bookmarked |
| Cached | Can be cached | Not cached |
| Encoding type | application/x-www-form-urlencoded | application/x-www-form-urlencoded or multipart/form-data. Use multipart encoding for binary data |
| History | Parameters remain in browser history | Parameters are not saved in browser history |
| Restrictions on data length | Yes, when sending data, the GET method adds the data to the URL; and the length of a URL is limited (maximum URL length is 2048 characters) | No restrictions |
| Restrictions on data type | Only ASCII characters allowed | No restrictions. Binary data is also allowed |
| Security | GET is less secure compared to POST because data sent is part of the URL  Never use GET when sending passwords or other sensitive information! | POST is a little safer than GET because the parameters are not stored in browser history or in web server logs |
| Visibility | Data is visible to everyone in the URL | Data is not displayed in the URL |

## Other HTTP Request Methods

The following table lists some other HTTP request methods:

|  |  |
| --- | --- |
| **Method** | **Description** |
| HEAD | Same as GET but returns only HTTP headers and no document body |
| PUT | Uploads a representation of the specified URI |
| DELETE | Deletes the specified resource |
| OPTIONS | Returns the HTTP methods that the server supports |
| CONNECT | Converts the request connection to a transparent TCP/IP tunnel |

# Pixels to Ems Conversion

[« Previous](http://www.w3schools.com/tags/ref_httpmethods.asp)

[Next Reference »](http://www.w3schools.com/tags/ref_keyboardshortcuts.asp)

The tool below allows you to work out the em sizes from pixels (or vice versa).

## Pixel to Em Converter

* Set a default pixel size for body (usually 16px)
* Then, convert a pixel value to em, based on the default pixel size
* Or, convert an em value to pixels, based on the default pixel size

Set a default pixel size:

px

Convert PX to EM:  
px

Convert EM to PX:  
em

Result:

## Body Font Size

In the table below, select a body font size in pixels (px) to display a complete "px to em and percent" conversion table.

**Tip:** The default font size is usually 16px.

|  |  |  |  |
| --- | --- | --- | --- |
| **px** | | **em** | **percent** |
| 5px | | 0.3125em | 31.25% |
| 6px | | 0.3750em | 37.50% |
| 7px | | 0.4375em | 43.75% |
| 8px | | 0.5000em | 50.00% |
| 9px | | 0.5625em | 56.25% |
| 10px | | 0.6250em | 62.50% |
| 11px | | 0.6875em | 68.75% |
| 12px | | 0.7500em | 75.00% |
| 13px | | 0.8125em | 81.25% |
| 14px | | 0.8750em | 87.50% |
| 15px | | 0.9375em | 93.75% |
| 16px | | 1.0000em | 100.00% |
| 17px | | 1.0625em | 106.25% |
| 18px | | 1.1250em | 112.50% |
| 19px | | 1.1875em | 118.75% |
| 20px | | 1.2500em | 125.00% |
| 21px | | 1.3125em | 131.25% |
| 22px | | 1.3750em | 137.50% |
| 23px | | 1.4375em | 143.75% |
| 24px | | 1.5000em | 150.00% |
| 25px | | 1.5625em | 156.25% |
| **Note** | **What is the difference between PX, EM and Percent?** Pixel is a static measurement, while percent and EM are relative measurements. The size of an EM or percent depends on its parent. If the text size of body is 16 pixels, then 150% or 1.5 EM will be 24 pixels (1.5 \* 16). Look at [CSS Units](http://www.w3schools.com/cssref/css_units.asp) for more measurement units. | | | |

# Keyboard Shortcuts

[« Previous](http://www.w3schools.com/tags/ref_pxtoemconversion.asp)

[Next Reference »](http://www.w3schools.com/tags/default.asp)

Save time by using keyboard shortcuts.

## Keyboard Shortcuts For Windows and Mac

Keyboard shortcuts are often used in modern operating systems and computer software programs.

Using keyboard shortcuts could save you a lot of time.

## Basic Shortcuts

|  |  |  |
| --- | --- | --- |
| **Description** | **Windows** | **Mac OS** |
| Edit menu | Alt + E | Ctrl + F2 + F |
| File menu | Alt + F | Ctrl + F2 + E |
| View menu | Alt + V | Ctrl + F2 + V |
| Select all text | Ctrl + A | Cmd + A |
| Copy text | Ctrl + C | Cmd + C |
| Find text | Ctrl + F | Cmd + F |
| Find and replace text | Ctrl + H | Cmd + F |
| New Document | Ctrl + N | Cmd + N |
| Open a file | Ctrl + O | Cmd + O |
| Print options | Ctrl + P | Cmd + P |
| Save file | Ctrl + S | Cmd + S |
| Paste text | Ctrl + V | Cmd + V |
| Cut text | Ctrl + X | Cmd + X |
| Redo text | Ctrl + Y | Shift + Cmd + Z |
| Undo text | Ctrl + Z | Cmd + Z |

## Text Editing

|  |  |  |
| --- | --- | --- |
| **Description** | **Windows** | **Mac OS** |
| **Cursor Movement** |  |  |
| Go to the right or to the beginning of next line break | Right Arrow | Right Arrow |
| Go to the left or to the end of previous line break | Left Arrow | Left Arrow |
| Go up one row | Up Arrow | Up Arrow |
| Go down one row | Down Arrow | Down Arrow |
| Go to the beginning of the current line | Home | Cmd + Left Arrow |
| Go to the end of the current line | End | Cmd + Right Arrow |
| Go to the beginning of the document | Ctrl + Home | Cmd + Up Arrow |
| Go to the end of the document | Ctrl + End | Cmd + Down Arrow |
| Move up one frame | Page Up | Fn + Up Arrow |
| Move down one frame | Page Down | Fn + Down Arrow |
| Go to beginning of previous word | Ctrl + Left Arrow | Option + Left Arrow |
| Go to beginning of next word | Ctrl + Right Arrow | Option + Right Arrow |
| Go to beginning of line break | Ctrl + Up Arrow | Cmd + Left Arrow |
| Go to end of line break | Ctrl + Down Arrow | Cmd + Right Arrow |
|  |  |  |
| **Text Selection** |  |  |
| Select characters to the left | Shift + Left Arrow | Shift + Left Arrow |
| Select characters to the right | Shift + Right Arrow | Shift + Right Arrow |
| Select lines upwards | Shift + Up Arrow | Shift + Up Arrow |
| Select lines downwards | Shift + Down Arrow | Shift + Down Arrow |
| Select words to the left | Shift + Ctrl + Left | Shift + Opt + Left |
| Select words to the right | Shift + Ctrl + Right | Shift + Opt + Right |
| Select paragraphs to the left | Shift + Ctrl + Up | Shift + Opt + Up |
| Select paragraphs to the right | Shift + Ctrl + Down | Shift + Opt + Down |
| Select text between the cursor and the beginning of the current line | Shift + Home | Cmd + Shift + Left Arrow |
| Select text between the cursor and the end of the current line | Shift + End | Cmd + Shift + Right Arrow |
| Select text between the cursor and the beginning of the document | Shift + Ctrl + Home | Cmd + Shift + Up Arrow or Cmd + Shift + Fn + Left Arrow |
| Select text between the cursor and the end of the document | Shift + Ctrl + End | Cmd + Shift + Down Arrow or Cmd + Shift + Fn + Right Arrow |
| Select one frame at a time of text above the cursor | Shift + Page Up | Shift + Fn + Up Arrow |
| Select one frame at a time of text below the cursor | Shift + Page Down | Shift + Fn + Down Arrow |
| Select all text | Ctrl + A | Cmd + A |
| Find text | Ctrl + F | Cmd + F |
|  |  |  |
| **Text Formatting** |  |  |
| Make selected text bold | Ctrl + B | Cmd + B |
| Make selected text italic | Ctrl + I | Cmd + I |
| Underline selected text | Ctrl + U | Cmd + U |
| Make selected text superscript | Ctrl + Shift + = | Cmd + Shift + = |
| Make selected text subscript | Ctrl + = | Cmd + = |
|  |  |  |
| **Text Editing** |  |  |
| Delete characters to the left | Backspace | Backspace |
| Delete characters to the right | Delete | Fn + Backspace |
| Delete words to the right | Ctrl + Del | Cmd + Backspace |
| Delete words to the left | Ctrl + Backspace | Cmd + Fn + Backspace |
| Indent | Tab | Tab |
| Outdent | Shift + Tab | Shift + Tab |
| Copy text | Ctrl + C | Cmd + C |
| Find and replace text | Ctrl + H | Cmd + F |
| Paste text | Ctrl + V | Cmd + V |
| Cut text | Ctrl + X | Cmd + X |
| Redo text | Ctrl + Y | Shift + Cmd + Z |
| Undo text | Ctrl + Z | Cmd + Z |

## Web Browsers

|  |  |  |
| --- | --- | --- |
| **Description** | **Windows** | **Mac OS** |
| **Navigation** |  |  |
| Scroll down a frame | Space or Page Down | Space or Fn + Down Arrow |
| Scroll up a frame | Shift + Space or Page Up | Shift + Space or Fn + Up Arrow |
| Go to bottom of the page | End | Cmd + Down Arrow |
| Go to top of the page | Home | Cmd + Up Arrow |
| Go back | Alt + Left Arrow or Backspace | Cmd + Left Arrow |
| Go forward | Alt + Right Arrow or Shift + Backspace | Cmd + Right Arrow |
| Refresh a webpage | F5 | Cmd + R |
| Refresh a webpage (no cache) | Ctrl + F5 | Cmd + Shift + R |
| Stop | Esc | Esc |
| Toggle full-screen | F11 | Cmd + Shift + F |
| Zoom in | Ctrl + + | Cmd + + |
| Zoom out | Ctrl + - | Cmd + - |
| Zoom 100% (default) | Ctrl + 0 | Cmd + 0 |
| Open homepage | Alt + Home | Option + Home or Option + Fn + Left Arrow |
| Find text | Ctrl + F | Cmd + F |
|  |  |  |
| **Tab / Window Management** |  |  |
| Open a new tab | Ctrl + T | Cmd + T |
| Close current tab | Ctrl + W | Cmd + W |
| Close all tabs | Ctrl + Shift + W | Cmd + Q |
| Close all tabs except the current tab | Ctrl + Alt + F4 | Cmd + Opt + W |
| Go to next tab | Ctrl + Tab | Control + Tab or Cmd + Shift + Right Arrow |
| Go to previous tab | Ctrl + Shift + Tab | Shift + Control + Tab or Cmd + Shift + Left Arrow |
| Go to a specific tab number | Ctrl + 1-8 | Cmd + 1-8 |
| Go to the last tab | Ctrl + 9 | Cmd + 9 |
| Reopen the last closed tab | Ctrl + Shift + T | Cmd + Shift + T |
| Open a new window | Ctrl + N | Cmd + N |
| Close current window | Alt + F4 | Cmd + W |
| Go to next window | Alt + Tab | Cmd + Tab |
| Go to previous window | Alt + Shift + Tab | Cmd + Shift + Tab |
| Reopen the last closed window | Ctrl + Shift + N |  |
| Open links in a new tab in the background | Ctrl + Click | Cmd + Click |
| Open links in a new tab in the foreground | Ctrl + Shift + Click | Cmd + Shift + Click |
| Print current webpage | Ctrl + P | Cmd + P |
| Save current webpage | Ctrl + S | Cmd + S |
|  |  |  |
| **Address Bar** |  |  |
| Cycle between toolbar, search bar, and page elements | Tab | Tab |
| Go to browser's address bar | Ctrl + L or Alt + D | Cmd + L |
| Focus and select the browser's search bar | Ctrl + E | Cmd + E / Cmd + K |
| Open the address bar location in a new tab | Alt + Enter | Opt + Enter |
| Display a list of previously typed addresses | F4 |  |
| Add "www." to the beginning and ".com" to the end of the text typed in the address bar (e.g., type "w3schools" and press Ctrl + Enter to open "www.w3schools.com") | Ctrl + Enter | Cmd + Enter or Control + Enter |
|  |  |  |
| **Bookmarks** |  |  |
| Open the bookmarks menu | Ctrl + B | Cmd + B |
| Add bookmark for current page | Ctrl + D | Cmd + Opt + B or Cmd + Shift + B |
| Open browsing history | Ctrl + H | Cmd + Shift + H or Cmd + Y |
| Open download history | Ctrl + J | Cmd + J or Cmd + Shift + J |

## Screenshots

|  |  |  |
| --- | --- | --- |
| **Description** | **Windows** | **Mac OS** |
| Save screenshot of the whole screen as file |  | Cmd + Shift + 3 |
| Copy screenshot of the whole screen to the clipboard | PrtScr (Print Screen) or Ctrl + PrtScr | Cmd + Ctrl + Shift + 3 |
| Save screenshot of window as file |  | Cmd + Shift + 4, then Space |
| Copy screenshot of window to the clipboard | Alt + PrtScr | Cmd + Ctrl + Shift + 4, then Space |
| Copy screenshot of wanted area to the clipboard |  | Cmd + Ctrl + Shift + 4 |
| Save screenshot of wanted area as file |  | Cmd + Shift + 4 |

**Note:** Due to different keyboard setups, some shortcuts may not be compatible for all users.

# HTML <!--...--> Tag

[« Previous](http://www.w3schools.com/tags/ref_keyboardshortcuts.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_doctype.asp)

### Example

An HTML comment:

<!--This is a comment. Comments are not displayed in the browser-->  
  
<p>This is a paragraph.</p>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_comment)

## Definition and Usage

The comment tag is used to insert comments in the source code. Comments are not displayed in the browsers.

You can use comments to explain your code, which can help you when you edit the source code at a later date. This is especially useful if you have a lot of code.

## Browser Support

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <!--...--> | Yes | Yes | Yes | Yes | Yes | Yes |

## Differences Between HTML 4.01 and HTML5

NONE.

## Tips and Notes

You can also use the comment tag to "hide" scripts from browsers without support for scripts (so they don't show them as plain text):

<script type="text/javascript">  
<!--  
function displayMsg() {  
    alert("Hello World!")  
}  
//-->  
</script>

**Note:** The two forward slashes at the end of comment line (//) is the JavaScript comment symbol. This prevents JavaScript from executing the --> tag.

## Standard Attributes

The comment tag does not support any standard attributes.

More information about [Standard Attributes](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The comment tag does not support any event attributes.

More information about [Event Attributes](http://www.w3schools.com/tags/ref_eventattributes.asp).

# HTML <!DOCTYPE> Declaration

[« Previous](http://www.w3schools.com/tags/tag_comment.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_a.asp)

### Example

<!DOCTYPE html>  
<html>  
<head>  
<title>Title of the document</title>  
</head>  
  
<body>  
The content of the document......  
</body>  
  
</html>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_doctype)

## Definition and Usage

The <!DOCTYPE> declaration must be the very first thing in your HTML document, before the <html> tag.

The <!DOCTYPE> declaration is not an HTML tag; it is an instruction to the web browser about what version of HTML the page is written in.

In HTML 4.01, the <!DOCTYPE> declaration refers to a DTD, because HTML 4.01 was based on SGML. The DTD specifies the rules for the markup language, so that the browsers render the content correctly.

HTML5 is not based on SGML, and therefore does not require a reference to a DTD.

**Tip:** Always add the <!DOCTYPE> declaration to your HTML documents, so that the browser knows what type of document to expect.

## Browser Support

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <!DOCTYPE> | Yes | Yes | Yes | Yes | Yes | Yes |

## Differences Between HTML 4.01 and HTML5

There are three different <!DOCTYPE> declarations in HTML 4.01. In HTML5 there is only one:

<!DOCTYPE html>

## HTML Elements and Doctypes

Look at our table of all [HTML elements, and what Doctype each element appears in](http://www.w3schools.com/tags/ref_html_dtd.asp).

## Tips and Notes

**Tip:** The <!DOCTYPE> declaration is NOT case sensitive.

**Tip:** You can [go here to validate](http://www.w3schools.com/website/web_validate.asp) if your document is valid HTML.

## Common DOCTYPE Declarations

### HTML 5

<!DOCTYPE html>

### HTML 4.01 Strict

This DTD contains all HTML elements and attributes, but does NOT INCLUDE presentational or deprecated elements (like font). Framesets are not allowed.

<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN" "http://www.w3.org/TR/html4/strict.dtd">

### HTML 4.01 Transitional

This DTD contains all HTML elements and attributes, INCLUDING presentational and deprecated elements (like font). Framesets are not allowed.

<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

### HTML 4.01 Frameset

This DTD is equal to HTML 4.01 Transitional, but allows the use of frameset content.

<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Frameset//EN" "http://www.w3.org/TR/html4/frameset.dtd">

### XHTML 1.0 Strict

This DTD contains all HTML elements and attributes, but does NOT INCLUDE presentational or deprecated elements (like font). Framesets are not allowed. The markup must also be written as well-formed XML.

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">

### XHTML 1.0 Transitional

This DTD contains all HTML elements and attributes, INCLUDING presentational and deprecated elements (like font). Framesets are not allowed. The markup must also be written as well-formed XML.

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

### XHTML 1.0 Frameset

This DTD is equal to XHTML 1.0 Transitional, but allows the use of frameset content.

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Frameset//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-frameset.dtd">

### XHTML 1.1

This DTD is equal to XHTML 1.0 Strict, but allows you to add modules (for example to provide ruby support for East-Asian languages).

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.1//EN" "http://www.w3.org/TR/xhtml11/DTD/xhtml11.dtd">

# HTML <a> Tag

[« Previous](http://www.w3schools.com/tags/tag_doctype.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_abbr.asp)

### Example

A link to W3Schools.com:

<a href="http://www.w3schools.com">Visit W3Schools.com!</a>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_link_test)

More "Try it Yourself" examples below.

## Definition and Usage

The <a> tag defines a hyperlink, which is used to link from one page to another.

The most important attribute of the <a> element is the href attribute, which indicates the link's destination.

By default, links will appear as follows in all browsers:

* An unvisited link is underlined and blue
* A visited link is underlined and purple
* An active link is underlined and red

## Browser Support

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <a> | Yes | Yes | Yes | Yes | Yes | Yes |

## Tips and Notes

**Tip:** The following attributes: download, hreflang, media, rel, target, and type cannot be present if the href attribute is not present.

**Tip:** A linked page is normally displayed in the current browser window, unless you specify another target.

**Tip:** Use CSS to style links.

## Differences Between HTML 4.01 and HTML5

In HTML 4.01, the <a> tag could be either a hyperlink or an anchor. In HTML5, the <a> tag is always a hyperlink, but if it has no href attribute, it is only a placeholder for a hyperlink.

HTML5 has some new attributes, and some HTML 4.01 attributes are no longer supported.

## Attributes

= New in HTML5.

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| [charset](http://www.w3schools.com/tags/att_a_charset.asp) | *char\_encoding* | Not supported in HTML5. Specifies the character-set of a linked document |
| [coords](http://www.w3schools.com/tags/att_a_coords.asp) | *coordinates* | Not supported in HTML5. Specifies the coordinates of a link |
| [download](http://www.w3schools.com/tags/att_a_download.asp) | *filename* | Specifies that the target will be downloaded when a user clicks on the hyperlink |
| [href](http://www.w3schools.com/tags/att_a_href.asp) | *URL* | Specifies the URL of the page the link goes to |
| [hreflang](http://www.w3schools.com/tags/att_a_hreflang.asp) | *language\_code* | Specifies the language of the linked document |
| [media](http://www.w3schools.com/tags/att_a_media.asp) | *media\_query* | Specifies what media/device the linked document is optimized for |
| [name](http://www.w3schools.com/tags/att_a_name.asp) | *section\_name* | Not supported in HTML5. Use the global [id attribute](http://www.w3schools.com/tags/ref_standardattributes.asp) instead. Specifies the name of an anchor |
| [rel](http://www.w3schools.com/tags/att_a_rel.asp) | alternate author bookmark help license next nofollow noreferrer prefetch prev search tag | Specifies the relationship between the current document and the linked document |
| [rev](http://www.w3schools.com/tags/att_a_rev.asp) | *text* | Not supported in HTML5. Specifies the relationship between the linked document and the current document |
| [shape](http://www.w3schools.com/tags/att_a_shape.asp) | default rect circle poly | Not supported in HTML5. Specifies the shape of a link |
| [target](http://www.w3schools.com/tags/att_a_target.asp) | \_blank \_parent \_self \_top framename | Specifies where to open the linked document |
| [type](http://www.w3schools.com/tags/att_a_type.asp) | *media\_type* | Specifies the media type of the linked document |

## Global Attributes

The <a> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <a> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

Examples

## Try it Yourself - Examples

[Create hyperlinks](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_link)  
How to create hyperlinks.

[An image as a link](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_link_image)  
How to use an image as a link.

[Open a link in a new browser window](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_link_target)  
How to open a link in a new browser window, so that the visitor does not have to leave your Web site.

[Create a mailto link](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_link_mailto)  
How to link to a mail message (will only work if you have mail installed).

[Create a mailto link 2](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_link_mailto2)  
Another mailto link.

[Link to an element with a specified id](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml5_a_href_anchor)  
How to link to an element with a specified id within a page (the name attribute is not supported in HTML5).

[Link to a JavaScript](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml5_a_href_script)  
How to add a JavaScript inside the href attribute.

## Related Pages

HTML tutorial: [HTML Links](http://www.w3schools.com/html/html_links.asp)

HTML DOM reference: [Anchor Object](http://www.w3schools.com/jsref/dom_obj_anchor.asp)

## Default CSS Settings

Most browsers will display the <a> element with the following default values:

a:link, a:visited {   
    color: (internal value);  
    text-decoration: underline;  
    cursor: auto;  
}  
  
a:link:active, a:visited:active {   
    color: (internal value);  
}

# HTML <abbr> Tag

[« Previous](http://www.w3schools.com/tags/tag_a.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_acronym.asp)

### Example

An abbreviation is marked up as follows:

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

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_abbr_test)

## Definition and Usage

The <abbr> tag defines an abbreviation or an acronym, like "Mr.", "Dec.", "ASAP", "ATM".

**Tip:** An abbreviation and an acronym are both shortened versions of something else. Both is often represented as a series of letters.

Marking up abbreviations can give useful information to browsers, translation systems and search-engines.

## Browser Support

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <abbr> | Yes | Yes | Yes | Yes | Yes | Yes |

## Tips and Notes

**Tip:** The global title attribute can be used in the <abbr> tag to show the full version of the abbreviation/acronym when you mouse over the <abbr> element.

## Differences Between HTML 4.01 and HTML5

NONE.

## Global Attributes

The <abbr> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <abbr> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Related Pages

HTML DOM reference: [Abbreviation Object](http://www.w3schools.com/jsref/dom_obj_abbr.asp)

## Default CSS Settings

None.

# HTML <acronym> Tag. Not Supported in HTML5.

[« Previous](http://www.w3schools.com/tags/tag_abbr.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_address.asp)

### Example

An acronym is marked up as follows:

Can I get this <acronym title="as soon as possible">ASAP</acronym>?

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_acronym_test)

## Definition and Usage

The <acronym> tag is not supported in HTML5. Use the [<abbr>](http://www.w3schools.com/tags/tag_abbr.asp) tag instead.

The <acronym> tag defines an acronym.

An acronym must spell out another word. For example: NASA, ASAP, GUI.

Marking up acronyms can give useful information to browsers, translation systems and search-engines.

## Browser Support

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |
| <acronym> | Yes | Yes | Yes | Yes | Yes |

## Tips and Notes

**Tip:** The title attribute can be used to show the full version of the acronym when you mouse over it.

## Differences Between HTML 4.01 and HTML5

The <acronym> tag is not supported in HTML5.

# HTML <address> Tag

[« Previous](http://www.w3schools.com/tags/tag_acronym.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_applet.asp)

### Example

Contact information for Example.com:

<address>  
Written by <a href="mailto:webmaster@example.com">Jon Doe</a>.<br>   
Visit us at:<br>  
Example.com<br>  
Box 564, Disneyland<br>  
USA  
</address>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_address)

## Definition and Usage

The <address> tag defines the contact information for the author/owner of a document or an article.

If the <address> element is inside the <body> element, it represents contact information for the document.

If the <address> element is inside an <article> element, it represents contact information for that article.

The text in the <address> element usually renders in *italic*. Most browsers will add a line break before and after the address element.

## Browser Support

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <address> | Yes | Yes | Yes | Yes | Yes | Yes |

## Tips and Notes

**Tip:** The <address> tag should NOT be used to describe a postal address, unless it is a part of the contact information.

**Tip:** The <address> element will typically be included along with other information in a [<footer>](http://www.w3schools.com/tags/tag_footer.asp) element.

## Differences Between HTML 4.01 and HTML5

HTML 4.01 does not support the <article> tag, so in HTML 4.01 the <address> tag always defines the contact information of the *document's* author/owner.

## Global Attributes

The <address> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <address> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Related Pages

HTML DOM reference: [Address Object](http://www.w3schools.com/jsref/dom_obj_address.asp)

## Default CSS Settings

Most browsers will display the <address> element with the following default values:

### Example

address {   
    display: block;  
    font-style: italic;  
}

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_address_default_css)

# HTML <applet> Tag. Not Supported in HTML5.

[« Previous](http://www.w3schools.com/tags/tag_address.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_area.asp)

### Example

An embedded Java applet:

<applet code="Bubbles.class" width="350" height="350">  
Java applet that draws animated bubbles.  
</applet>

## Definition and Usage

The <applet> tag is not supported in HTML5. Use [<embed>](http://www.w3schools.com/tags/tag_embed.asp) or [<object>](http://www.w3schools.com/tags/tag_object.asp) instead.

The <applet> tag defines an embedded applet.

## Browser Support

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |
| <applet> | Not supported | Yes | Yes | Yes | Not supported |

**Note**: There is still some support for the <applet> tag in some browsers, but it requires additional plug-ins/installations to work.

## Differences Between HTML 4.01 and HTML5

The <applet> tag is not supported in HTML5.

## Required Attributes

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| code | *URL* | Specifies the file name of a Java applet |
| object | *name* | Specifies a reference to a serialized representation of an applet |

## Optional Attributes

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| align | left right top bottom middle baseline | Specifies the alignment of an applet according to surrounding elements |
| alt | *text* | Specifies an alternate text for an applet |
| archive | *URL* | Specifies the location of an archive file |
| codebase | *URL* | Specifies a relative base URL for applets specified in the code attribute |
| height | *pixels* | Specifies the height of an applet |
| hspace | *pixels* | Defines the horizontal spacing around an applet |
| name | *name* | Defines the name for an applet (to use in scripts) |
| vspace | *pixels* | Defines the vertical spacing around an applet |
| width | *pixels* | Specifies the width of an applet |

# HTML <area> Tag

[« Previous](http://www.w3schools.com/tags/tag_applet.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_article.asp)

### Example

An image-map, with clickable areas:

<img src="planets.gif" width="145" height="126" alt="Planets"  
usemap="#planetmap">  
  
<map name="planetmap">  
  <area shape="rect" coords="0,0,82,126" href="sun.htm" alt="Sun">  
  <area shape="circle" coords="90,58,3" href="mercur.htm" alt="Mercury">  
  <area shape="circle" coords="124,58,8" href="venus.htm" alt="Venus">  
</map>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_areamap)

## Definition and Usage

The <area> tag defines an area inside an image-map (an image-map is an image with clickable areas).

The <area> element is always nested inside a <map> tag.

**Note:** The usemap attribute in the [<img>](http://www.w3schools.com/tags/tag_img.asp) tag is associated with the [<map>](http://www.w3schools.com/tags/tag_map.asp) element's name attribute, and creates a relationship between the image and the map.

## Browser Support

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <area> | Yes | Yes | Yes | Yes | Yes | Yes |

## Differences Between HTML 4.01 and HTML5

HTML5 has some new attributes, and some HTML 4.01 attributes are no longer supported.

## Differences Between HTML and XHTML

In HTML the <area> tag has no end tag.

In XHTML the <area> tag must be properly closed.

## Attributes

= New in HTML5.

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| [alt](http://www.w3schools.com/tags/att_area_alt.asp) | *text* | Specifies an alternate text for the area. Required if the href attribute is present |
| [coords](http://www.w3schools.com/tags/att_area_coords.asp) | *coordinates* | Specifies the coordinates of the area |
| [download](http://www.w3schools.com/tags/att_area_download.asp) | *filename* | Specifies that the target will be downloaded when a user clicks on the hyperlink |
| [href](http://www.w3schools.com/tags/att_area_href.asp) | *URL* | Specifies the hyperlink target for the area |
| [hreflang](http://www.w3schools.com/tags/att_area_hreflang.asp) | *language\_code* | Specifies the language of the target URL |
| [media](http://www.w3schools.com/tags/att_area_media.asp) | *media query* | Specifies what media/device the target URL is optimized for |
| [nohref](http://www.w3schools.com/tags/att_area_nohref.asp) | *value* | Not supported in HTML5. Specifies that an area has no associated link |
| [rel](http://www.w3schools.com/tags/att_area_rel.asp) | alternate author bookmark help license next nofollow noreferrer prefetch prev search tag | Specifies the relationship between the current document and the target URL |
| [shape](http://www.w3schools.com/tags/att_area_shape.asp) | default rect circle poly | Specifies the shape of the area |
| [target](http://www.w3schools.com/tags/att_area_target.asp) | \_blank \_parent \_self \_top framename | Specifies where to open the target URL |
| [type](http://www.w3schools.com/tags/att_area_type.asp) | *media\_type* | Specifies the media type of the target URL |

## Global Attributes

The <area> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <area> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Related Pages

HTML DOM reference: [Area Object](http://www.w3schools.com/jsref/dom_obj_area.asp)

## Default CSS Settings

Most browsers will display the <area> element with the following default values:

area {   
    display: none;  
}

# HTML <article> Tag

[« Previous](http://www.w3schools.com/tags/tag_area.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_aside.asp)

### Example

<article>  
  <h1>Google Chrome</h1>  
  <p>Google Chrome is a free, open-source web browser developed by Google, released in 2008.</p>  
</article>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml5_article)

## Definition and Usage

The <article> tag specifies independent, self-contained content.

An article should make sense on its own and it should be possible to distribute it independently from the rest of the site.

Potential sources for the <article> element:

* Forum post
* Blog post
* News story
* Comment

## Browser Support

The numbers in the table specify the first browser version that fully supports the element.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <article> | 6.0 | 12.0 | 9.0 | 4.0 | 5.0 | 11.1 |

## Differences Between HTML 4.01 and HTML5

The <article> tag is new in HTML5.

## Global Attributes

The <article> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <article> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Related Pages

HTML DOM reference: [Article Object](http://www.w3schools.com/jsref/dom_obj_article.asp)

## Default CSS Settings

Most browsers will display the <article> element with the following default values:

article {   
    display: block;  
}

# HTML <aside> Tag

[« Previous](http://www.w3schools.com/tags/tag_article.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_audio.asp)

### Example

<p>My family and I visited The Epcot center this summer.</p>  
  
<aside>  
  <h4>Epcot Center</h4>  
  <p>The Epcot Center is a theme park in Disney World, Florida.</p>  
</aside>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml5_aside)

## Definition and Usage

The <aside> tag defines some content aside from the content it is placed in.

The aside content should be related to the surrounding content.

## Browser Support

The numbers in the table specify the first browser version that fully supports the element.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <aside> | 6.0 | 12.0 | 9.0 | 4.0 | 5.0 | 11.1 |

## Differences Between HTML 4.01 and HTML5

The <aside> tag is new in HTML5.

## Tips and Notes

**Tip:** The <aside> content could be placed as a sidebar in an article.

## Global Attributes

The <aside> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <aside> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Related Pages

HTML DOM reference: [Aside Object](http://www.w3schools.com/jsref/dom_obj_aside.asp)

## Default CSS Settings

Most browsers will display the <aside> element with the following default values:

aside {   
    display: block;  
}

# HTML <audio> Tag

[« Previous](http://www.w3schools.com/tags/tag_aside.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_b.asp)

### Example

Play a sound:

<audio controls>  
  <source src="horse.ogg" type="audio/ogg">  
  <source src="horse.mp3" type="audio/mpeg">  
  Your browser does not support the audio tag.  
</audio>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml5_audio)

## Definition and Usage

The <audio> tag defines sound, such as music or other audio streams.

Currently, there are 3 supported file formats for the <audio> element: MP3, Wav, and Ogg:

|  |  |  |  |
| --- | --- | --- | --- |
| **Browser** | **MP3** | **Wav** | **Ogg** |
| Internet Explorer | YES | NO | NO |
| Chrome | YES | YES | YES |
| Firefox | YES | YES | YES |
| Safari | YES | YES | NO |
| Opera | YES | YES | YES |

### MIME Types for Audio Formats

|  |  |
| --- | --- |
| **Format** | **MIME-type** |
| MP3 | audio/mpeg |
| Ogg | audio/ogg |
| Wav | audio/wav |

## Browser Support

The numbers in the table specify the first browser version that fully supports the element.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <audio> | 4.0 | 12.0 | 9.0 | 3.5 | 4.0 | 10.5 |

## Differences Between HTML 4.01 and HTML5

The <audio> tag is new in HTML5.

## Tips and Notes

**Tip:** Any text inside the between <audio> and </audio> will be displayed in browsers that do not support the <audio> tag.

## Attributes

= New in HTML5.

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| [autoplay](http://www.w3schools.com/tags/att_audio_autoplay.asp) | autoplay | Specifies that the audio will start playing as soon as it is ready |
| [controls](http://www.w3schools.com/tags/att_audio_controls.asp) | controls | Specifies that audio controls should be displayed (such as a play/pause button etc) |
| [loop](http://www.w3schools.com/tags/att_audio_loop.asp) | loop | Specifies that the audio will start over again, every time it is finished |
| [muted](http://www.w3schools.com/tags/att_audio_muted.asp) | muted | Specifies that the audio output should be muted |
| [preload](http://www.w3schools.com/tags/att_audio_preload.asp) | auto metadata none | Specifies if and how the author thinks the audio should be loaded when the page loads |
| [src](http://www.w3schools.com/tags/att_audio_src.asp) | *URL* | Specifies the URL of the audio file |

## Global Attributes

The <audio> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <audio> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Related Pages

HTML DOM reference: [HTML Audio/Video DOM Reference](http://www.w3schools.com/tags/ref_av_dom.asp)

## Default CSS Settings

None.

# HTML <base> Tag

[« Previous](http://www.w3schools.com/tags/tag_b.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_basefont.asp)

### Example

Specify a default URL and a default target for all links on a page:

<head>  
<base href="http://www.w3schools.com/images/" target="\_blank">  
</head>  
  
<body>  
<img src="stickman.gif" width="24" height="39" alt="Stickman">  
<a href="http://www.w3schools.com">W3Schools</a>  
</body>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_base_test)

## Definition and Usage

The <base> tag specifies the base URL/target for all relative URLs in a document.

There can be at maximum one <base> element in a document, and it must be inside the <head> element.

## Browser Support

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <base> | Yes | Yes | Yes | Yes | Yes | Yes |

## Tips and Notes

**Tip:** Put the <base> tag as the *first* element inside the <head> element, so that other elements in the head section uses the information from the <base> element.

**Note:** If the <base> tag is present, it must have either an href attribute or a target attribute, or both.

## Differences Between HTML 4.01 and HTML5

NONE.

## Differences Between HTML and XHTML

In HTML the <base> tag has no end tag.

In XHTML the <base> tag must be properly closed.

## Attributes

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| [href](http://www.w3schools.com/tags/att_base_href.asp) | *URL* | Specifies the base URL for all relative URLs in the page |
| [target](http://www.w3schools.com/tags/att_base_target.asp) | \_blank \_parent \_self \_top *framename* | Specifies the default target for all hyperlinks and forms in the page |

## Global Attributes and Events

The <base> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

NONE. The <base> tag does not support any event attributes.

## Related Pages

HTML DOM reference: [Base Object](http://www.w3schools.com/jsref/dom_obj_base.asp)

## Default CSS Settings

None.

# HTML <basefont> Tag. Not Supported in HTML5.

[« Previous](http://www.w3schools.com/tags/tag_base.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_bdi.asp)

### Example

Specify a default text-color and font-size for text on page:

<head>  
<basefont color="red" size="5">  
</head>  
  
<body>  
<h1>This is a heading</h1>  
<p>This is a paragraph.</p>  
</body>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_basefont_test)

## Definition and Usage

The <basefont> tag is not supported in HTML5. Use CSS instead.

The <basefont> tag specifies a default text-color, font-size, or font-family for all the text in a document.

## Browser Support

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |
| <basefont> | Not supported | Not supported | Not supported | Not supported | Not supported |

**Note**: The <basefont> tag is supported in Internet Explorer 9, and earlier versions.

## Differences Between HTML 4.01 and HTML5

The <basefont> tag is not supported in HTML5.

## Compatibility Notes

[CSS Example: Specify a default text-color for a page](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_basefont_color_css)

[CSS Example: Specify a default font-family for a page](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_basefont_face_css)

[CSS Example: Specify a default font-size for a page](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_basefont_size_css)

In our CSS tutorial you can find more information about [CSS text color](http://www.w3schools.com/css/css_text.asp) and [CSS fonts](http://www.w3schools.com/css/css_font.asp).

## Optional Attributes

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| [color](http://www.w3schools.com/tags/att_basefont_color.asp) | *color* | Not supported in HTML5. Specifies the default color for text in a document |
| [face](http://www.w3schools.com/tags/att_basefont_face.asp) | *font\_family* | Not supported in HTML5. Specifies the default font for text in a document |
| [size](http://www.w3schools.com/tags/att_basefont_size.asp) | *number* | Not supported in HTML5. Specifies the default size of text in a document |

# HTML <bdi> Tag

[« Previous](http://www.w3schools.com/tags/tag_basefont.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_bdo.asp)

### Example

Isolate the usernames from the surrounding text-direction settings:

<ul>  
  <li>User <bdi>hrefs</bdi>: 60 points</li>  
  <li>User <bdi>jdoe</bdi>: 80 points</li>  
  <li>User <bdi>إيان</bdi>: 90 points</li>  
</ul>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml5_bdi)

## Definition and Usage

bdi stands for Bi-directional Isolation.

The <bdi> tag isolates a part of text that might be formatted in a different direction from other text outside it.

This element is useful when embedding user-generated content with an unknown directionality.

## Browser Support

The numbers in the table specify the first browser version that fully supports the element.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |
| <bdi> | 16.0 | Not supported | 10.0 | Not supported | Not supported |

## Differences Between HTML 4.01 and HTML5

The <bdi> tag is new in HTML5.

## Global Attributes

The <bdi> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <bdi> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

# HTML <bdo> Tag

[« Previous](http://www.w3schools.com/tags/tag_bdi.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_big.asp)

### Example

Specify the text direction:

<bdo dir="rtl">  
This text will go right-to-left.  
</bdo>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_bdo)

## Definition and Usage

bdo stands for Bi-Directional Override.

The <bdo> tag is used to override the current text direction.

## Browser Support

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <bdo> | Yes | Yes | Yes | Yes | Yes | Yes |

## Differences Between HTML 4.01 and HTML5

NONE.

## Attributes

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| [dir](http://www.w3schools.com/tags/att_bdo_dir.asp) | ltr rtl | Required. Specifies the text direction of the text inside the <bdo> element |

## Global Attributes

The <bdo> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <bdo> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Related Pages

HTML DOM reference: [Bdo Object](http://www.w3schools.com/jsref/dom_obj_bdo.asp)

## Default CSS Settings

Most browsers will display the <bdo> element with the following default values:

bdo {   
    unicode-bidi: bidi-override;  
}

# HTML <big> Tag. Not Supported in HTML5.

[« Previous](http://www.w3schools.com/tags/tag_bdo.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_blockquote.asp)

### Example

Make text bigger than normal:

<p><big>Bigger text</big></p>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_big)

## Definition and Usage

The <big> tag is not supported in HTML5. Use CSS instead.

The <big> tag defines bigger text.

## Browser Support

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |
| <big> | Yes | Yes | Yes | Yes | Yes |

## Differences Between HTML 4.01 and HTML5

The <big> tag is not supported in HTML5.

## Compatibility Notes

[CSS Example: Specify different font-sizes for HTML elements](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_big_css)

In our CSS tutorial you can find more information about [CSS fonts](http://www.w3schools.com/css/css_font.asp).

# HTML <blockquote> Tag

[« Previous](http://www.w3schools.com/tags/tag_big.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_body.asp)

### Example

A section that is quoted from another source:

<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>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_blockquote_test)

## Definition and Usage

The <blockquote> tag specifies a section that is quoted from another source.

Browsers usually indent <blockquote> elements.

## Browser Support

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <blockquote> | Yes | Yes | Yes | Yes | Yes | Yes |

## Tips and Notes

**Tip:** Use [<q>](http://www.w3schools.com/tags/tag_q.asp) for inline (short) quotations.

## Differences Between HTML 4.01 and HTML5

In HTML 4.01, the <blockquote> tag defines a long quotation.

In HTML5, the <blockquote> tag specifies a section that is quoted from another source.

## Differences Between HTML and XHTML

**Note:** To validate a <blockquote> element as XHTML, it must contain only other block-level elements, like this:

<blockquote>  
<p>Here is a long quotation here is a long quotation.</p>  
</blockquote>

## Attributes

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| [cite](http://www.w3schools.com/tags/att_blockquote_cite.asp) | *URL* | Specifies the source of the quotation |

## Global Attributes

The <blockquote> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <blockquote> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Related Pages

HTML DOM reference: [Blockquote Object](http://www.w3schools.com/jsref/dom_obj_blockquote.asp)

## Default CSS Settings

Most browsers will display the <blockquote> element with the following default values:

### Example

blockquote {  
    display: block;  
    margin-top: 1em;  
    margin-bottom: 1em;  
    margin-left: 40px;  
    margin-right: 40px;  
}

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_blockquote_default_css)

# HTML <body> Tag

[« Previous](http://www.w3schools.com/tags/tag_blockquote.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_br.asp)

### Example

A simple HTML document, with the minimum of required tags:

<html>  
<head>  
<title>Title of the document</title>  
</head>  
  
<body>  
The content of the document......  
</body>  
  
</html>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_basic)

## Definition and Usage

The <body> tag defines the document's body.

The <body> element contains all the contents of an HTML document, such as text, hyperlinks, images, tables, lists, etc.

## Browser Support

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <body> | Yes | Yes | Yes | Yes | Yes | Yes |

## Differences Between HTML 4.01 and HTML5

All layout attributes are removed in HTML5.

## Attributes

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| [alink](http://www.w3schools.com/tags/att_body_alink.asp) | *color* | Not supported in HTML5. Specifies the color of an active link in a document |
| [background](http://www.w3schools.com/tags/att_body_background.asp) | *URL* | Not supported in HTML5. Specifies a background image for a document |
| [bgcolor](http://www.w3schools.com/tags/att_body_bgcolor.asp) | *color* | Not supported in HTML5. Specifies the background color of a document |
| [link](http://www.w3schools.com/tags/att_body_link.asp) | *color* | Not supported in HTML5.  Specifies the color of unvisited links in a document |
| [text](http://www.w3schools.com/tags/att_body_text.asp) | *color* | Not supported in HTML5.  Specifies the color of the text in a document |
| [vlink](http://www.w3schools.com/tags/att_body_vlink.asp) | *color* | Not supported in HTML5. Specifies the color of visited links in a document |

## Global Attributes

The <body> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <body> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Related Pages

HTML tutorial: [HTML Elements](http://www.w3schools.com/html/html_elements.asp)

HTML DOM reference: [Body Object](http://www.w3schools.com/jsref/dom_obj_body.asp)

HTML DOM reference: [document.body Property](http://www.w3schools.com/jsref/prop_doc_body.asp)

## Default CSS Settings

Most browsers will display the <body> element with the following default values:

### Example

body {   
    display: block;  
    margin: 8px;  
}  
  
body:focus {   
    outline: none;  
}

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_body_default_css)

# HTML <br> Tag

[« Previous](http://www.w3schools.com/tags/tag_body.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_button.asp)

### Example

A line break is marked up as follows:

This text contains<br>a line break.

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_br)

## Definition and Usage

The <br> tag inserts a single line break.

The <br> tag is an empty tag which means that it has no end tag.

## Browser Support

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <br> | Yes | Yes | Yes | Yes | Yes | Yes |

## Tips and Notes

**Tip:** The <br> tag is useful for writing addresses or poems.

**Note:** Use the <br> tag to enter line breaks, not to separate paragraphs.

## Differences Between HTML 4.01 and HTML5

NONE.

## Differences Between HTML and XHTML

In HTML, the <br> tag has no end tag.

In XHTML, the <br> tag must be properly closed, like this: <br />.

## Global Attributes

The <br> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <br> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Related Pages

HTML tutorial: [HTML Paragraphs](http://www.w3schools.com/html/html_paragraphs.asp)

HTML DOM reference: [BR Object](http://www.w3schools.com/jsref/dom_obj_br.asp)

## Default CSS Settings

None.

# HTML <button> Tag

[« Previous](http://www.w3schools.com/tags/tag_br.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_canvas.asp)

### Example

A clickable button is marked up as follows:

<button type="button">Click Me!</button>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_button_test)

## Definition and Usage

The <button> tag defines a clickable button.

Inside a <button> element you can put content, like text or images. This is the difference between this element and buttons created with the <input> element.

**Tip:** Always specify the type attribute for a <button> element. Different browsers use different default types for the <button> element.

## Browser Support

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <button> | Yes | Yes | Yes | Yes | Yes | Yes |

## Tips and Notes

**Note:** If you use the <button> element in an HTML form, different browsers may submit different values. Use [<input>](http://www.w3schools.com/tags/tag_input.asp) to create buttons in an HTML form.

## Differences Between HTML 4.01 and HTML5

HTML5 has the following new attributes: autofocus, form, formaction, formenctype, formmethod, formnovalidate, and formtarget.

## Attributes

= New in HTML5.

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| [autofocus](http://www.w3schools.com/tags/att_button_autofocus.asp) | autofocus | Specifies that a button should automatically get focus when the page loads |
| [disabled](http://www.w3schools.com/tags/att_button_disabled.asp) | disabled | Specifies that a button should be disabled |
| [form](http://www.w3schools.com/tags/att_button_form.asp) | *form\_id* | Specifies one or more forms the button belongs to |
| [formaction](http://www.w3schools.com/tags/att_button_formaction.asp) | *URL* | Specifies where to send the form-data when a form is submitted. Only for type="submit" |
| [formenctype](http://www.w3schools.com/tags/att_button_formenctype.asp) | application/x-www-form-urlencoded multipart/form-data text/plain | Specifies how form-data should be encoded before sending it to a server. Only for type="submit" |
| [formmethod](http://www.w3schools.com/tags/att_button_formmethod.asp) | get post | Specifies how to send the form-data (which HTTP method to use). Only for type="submit" |
| [formnovalidate](http://www.w3schools.com/tags/att_button_formnovalidate.asp) | formnovalidate | Specifies that the form-data should not be validated on submission. Only for type="submit" |
| [formtarget](http://www.w3schools.com/tags/att_button_formtarget.asp) | \_blank \_self \_parent \_top *framename* | Specifies where to display the response after submitting the form. Only for type="submit" |
| [name](http://www.w3schools.com/tags/att_button_name.asp) | *name* | Specifies a name for the button |
| [type](http://www.w3schools.com/tags/att_button_type.asp) | button reset submit | Specifies the type of button |
| [value](http://www.w3schools.com/tags/att_button_value.asp) | *text* | Specifies an initial value for the button |

## Global Attributes

The <button> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <button> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Related Pages

HTML DOM reference: [Button Object](http://www.w3schools.com/jsref/dom_obj_pushbutton.asp)

## Default CSS Settings

None.

# HTML <canvas> Tag

[« Previous](http://www.w3schools.com/tags/tag_button.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_caption.asp)

### Example

Draw a red square, on the fly, and show it inside the <canvas> element:

<canvas id="myCanvas"></canvas>  
  
<script>  
var canvas = document.getElementById("myCanvas");  
var ctx = canvas.getContext("2d");  
ctx.fillStyle = "#FF0000";  
ctx.fillRect(0, 0, 80, 80);  
</script>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml5_canvas)

## Definition and Usage

The <canvas> tag is used to draw graphics, on the fly, via scripting (usually JavaScript).

The <canvas> tag is only a container for graphics, you must use a script to actually draw the graphics.

## Browser Support

The numbers in the table specify the first browser version that fully supports the element.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <canvas> | 4.0 | 12.0 | 9.0 | 2.0 | 3.1 | 9.0 |

## Differences Between HTML 4.01 and HTML5

The <canvas> tag is new in HTML5.

## Tips and Notes

**Note:** Any text inside the <canvas> element will be displayed in browsers that does not support <canvas>.

**Tip:** Learn more about the <canvas> element in our [HTML Canvas Tutorial](http://www.w3schools.com/canvas/default.asp).

**Tip:** For a complete reference of all the properties and methods that can be used with the canvas object, go to our [HTML Canvas Reference](http://www.w3schools.com/tags/ref_canvas.asp).

## Attributes

= New in HTML5.

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| [height](http://www.w3schools.com/tags/att_canvas_height.asp) | *pixels* | Specifies the height of the canvas |
| [width](http://www.w3schools.com/tags/att_canvas_width.asp) | *pixels* | Specifies the width of the canvas |

## Global Attributes

The <canvas> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <canvas> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Default CSS Settings

None.

# HTML <caption> Tag

[« Previous](http://www.w3schools.com/tags/tag_canvas.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_center.asp)

### Example

A table with a caption:

<table>  
  <caption>Monthly savings</caption>  
  <tr>  
    <th>Month</th>  
    <th>Savings</th>  
  </tr>  
  <tr>  
    <td>January</td>  
    <td>$100</td>  
  </tr>  
</table>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_caption_test)

## Definition and Usage

The <caption> tag defines a table caption.

The <caption> tag must be inserted immediately after the <table> tag.

**Note:** You can specify only one caption per table.

**Tip:** By default, a table caption will be center-aligned above a table. However, the CSS properties [text-align](http://www.w3schools.com/cssref/pr_text_text-align.asp) and [caption-side](http://www.w3schools.com/cssref/pr_tab_caption-side.asp) can be used to align and place the caption.

## Browser Support

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <caption> | Yes | Yes | Yes | Yes | Yes | Yes |

## Differences Between HTML 4.01 and HTML5

The align attribute is removed from HTML5.

## Attributes

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| [align](http://www.w3schools.com/tags/att_caption_align.asp) | left right top bottom | Not supported in HTML5. Defines the alignment of the caption |

## Global Attributes

The <caption> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <caption> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Related Pages

HTML DOM reference: [Caption Object](http://www.w3schools.com/jsref/dom_obj_caption.asp)

## Default CSS Settings

Most browsers will display the <caption> element with the following default values:

### Example

caption {   
    display: table-caption;  
    text-align: center;  
}

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_caption_default_css)

# HTML <center> Tag. Not Supported in HTML5.

[« Previous](http://www.w3schools.com/tags/tag_caption.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_cite.asp)

### Example

Center-align text in an HTML page:

<center>This text will be center-aligned.</center>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_center_test)

## Definition and Usage

The <center> tag is not supported in HTML5. Use CSS instead.

The <center> tag is used to center-align text.

## Browser Support

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |
| <center> | Yes | Yes | Yes | Yes | Yes |

## Differences Between HTML 4.01 and HTML5

The <center> tag is not supported in HTML5.

## Compatibility Notes

[CSS Example: Center-align text](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_center_css)

In our CSS tutorial you can find more information about [CSS text alignment](http://www.w3schools.com/css/css_text.asp).

# HTML <cite> Tag

[« Previous](http://www.w3schools.com/tags/tag_center.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_code.asp)

### Example

Define the title of a work with the <cite> tag:

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

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml5_cite)

## Definition and Usage

The <cite> tag defines the title of a work (e.g. a book, a song, a movie, a TV show, a painting, a sculpture, etc.).

**Note:** A person's name is not the title of a work.

## Browser Support

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <cite> | Yes | Yes | Yes | Yes | Yes | Yes |

## Differences Between HTML 4.01 and HTML5

In HTML5, the <cite> tag defines the title of a work.

In HTML 4.01, the <cite> tag defines a citation.

## Global Attributes

The <cite> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <cite> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Related Pages

HTML DOM reference: [Cite Object](http://www.w3schools.com/jsref/dom_obj_cite.asp)

## Default CSS Settings

Most browsers will display the <cite> element with the following default values:

### Example

cite {   
    font-style: italic;  
}

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml5_cite_default_css)

# HTML <code> Tag

[« Previous](http://www.w3schools.com/tags/tag_cite.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_col.asp)

### Example

Format text in a document:

<code>A piece of computer code</code>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_phrase_test)

## Definition and Usage

The <code> tag is a phrase tag. It defines a piece of computer code.

**Tip:** This tag is not deprecated, but it is possible to achieve richer effect with CSS.

All phrase tags:

|  |  |
| --- | --- |
| **Tag** | **Description** |
| <em> | Renders as emphasized text |
| <strong> | Defines important text |
| <code> | Defines a piece of computer code |
| <samp> | Defines sample output from a computer program |
| <kbd> | Defines keyboard input |
| <var> | Defines a variable |

## Browser Support

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <code> | Yes | Yes | Yes | Yes | Yes | Yes |

## Differences Between HTML 4.01 and HTML5

NONE.

## Global Attributes

The <code> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <code> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Related Pages

HTML tutorial: [HTML Text Formatting](http://www.w3schools.com/html/html_formatting.asp)

HTML DOM reference: [Code Object](http://www.w3schools.com/jsref/dom_obj_code.asp)

## Default CSS Settings

Most browsers will display the <code> element with the following default values:

### Example

code {  
    font-family: monospace;  
}

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_code_default_css)

# HTML <col> Tag

[« Previous](http://www.w3schools.com/tags/tag_code.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_colgroup.asp)

### Example

Set the background color of the three columns with the <colgroup> and <col> tags:

<table>  
  <colgroup>  
    <col span="2" style="background-color:red">  
    <col style="background-color:yellow">  
  </colgroup>  
  <tr>  
    <th>ISBN</th>  
    <th>Title</th>  
    <th>Price</th>  
  </tr>  
  <tr>  
    <td>3476896</td>  
    <td>My first HTML</td>  
    <td>$53</td>  
  </tr>  
</table>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_col_test)

## Definition and Usage

The <col> tag specifies column properties for each column within a [<colgroup>](http://www.w3schools.com/tags/tag_colgroup.asp) element.

The <col> tag is useful for applying styles to entire columns, instead of repeating the styles for each cell, for each row.

## Browser Support

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <col> | Yes | Yes | Yes | Yes | Yes | Yes |

## Differences Between HTML 4.01 and HTML5

Most of the attributes in HTML 4.01 are not supported in HTML5.

## Differences Between HTML and XHTML

In HTML the <col> tag has no end tag.

In XHTML, the <col> tag must be properly closed.

## Attributes

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| [align](http://www.w3schools.com/tags/att_col_align.asp) | left right center justify char | Not supported in HTML5. Specifies the alignment of the content related to a <col> element |
| [char](http://www.w3schools.com/tags/att_col_char.asp) | *character* | Not supported in HTML5. Specifies the alignment of the content related to a <col> element to a character |
| [charoff](http://www.w3schools.com/tags/att_col_charoff.asp) | *number* | Not supported in HTML5. Specifies the number of characters the content will be aligned from the character specified by the char attribute |
| [span](http://www.w3schools.com/tags/att_col_span.asp) | *number* | Specifies the number of columns a <col> element should span |
| [valign](http://www.w3schools.com/tags/att_col_valign.asp) | top middle bottom baseline | Not supported in HTML5. Specifies the vertical alignment of the content related to a <col> element |
| [width](http://www.w3schools.com/tags/att_col_width.asp) | *% pixels relative\_length* | Not supported in HTML5. Specifies the width of a <col> element |

## Global Attributes

The <col> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <col> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Related Pages

HTML DOM reference: [Column Object](http://www.w3schools.com/jsref/dom_obj_col.asp)

## Default CSS Settings

Most browsers will display the <col> element with the following default values:

### Example

col {   
    display: table-column;  
}

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_col_default_css)

# HTML <colgroup> Tag

[« Previous](http://www.w3schools.com/tags/tag_col.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_datalist.asp)

### Example

Set the background color of the three columns with the <colgroup> and <col> tags:

<table>  
  <colgroup>  
    <col span="2" style="background-color:red">  
    <col style="background-color:yellow">  
  </colgroup>  
  <tr>  
    <th>ISBN</th>  
    <th>Title</th>  
    <th>Price</th>  
  </tr>  
  <tr>  
    <td>3476896</td>  
    <td>My first HTML</td>  
    <td>$53</td>  
  </tr>  
</table>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_colgroup_test)

## Definition and Usage

The <colgroup> tag specifies a group of one or more columns in a table for formatting.

The <colgroup> tag is useful for applying styles to entire columns, instead of repeating the styles for each cell, for each row.

**Note:** The <colgroup> tag must be a child of a <table> element, after any <caption> elements and before any <thead>, <tbody>, <tfoot>, and <tr> elements.

**Tip:** To define different properties to a column within a <colgroup>, use the [<col>](http://www.w3schools.com/tags/tag_col.asp) tag within the <colgroup> tag.

## Browser Support

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <colgroup> | Yes | Yes | Yes | Yes | Yes | Yes |

## Differences Between HTML 4.01 and HTML5

Most of the attributes in HTML 4.01 are not supported in HTML5.

## Attributes

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| [align](http://www.w3schools.com/tags/att_colgroup_align.asp) | left right center justify char | Not supported in HTML5. Aligns the content in a column group |
| [char](http://www.w3schools.com/tags/att_colgroup_char.asp) | *character* | Not supported in HTML5. Aligns the content in a column group to a character |
| [charoff](http://www.w3schools.com/tags/att_colgroup_charoff.asp) | *number* | Not supported in HTML5. Sets the number of characters the content will be aligned from the character specified by the char attribute |
| [span](http://www.w3schools.com/tags/att_colgroup_span.asp) | *number* | Specifies the number of columns a column group should span |
| [valign](http://www.w3schools.com/tags/att_colgroup_valign.asp) | top middle bottom baseline | Not supported in HTML5. Vertical aligns the content in a column group |
| [width](http://www.w3schools.com/tags/att_colgroup_width.asp) | *pixels % relative\_length* | Not supported in HTML5. Specifies the width of a column group |

## Global Attributes

The <colgroup> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <colgroup> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Related Pages

HTML DOM reference: [ColumnGroup Object](http://www.w3schools.com/jsref/dom_obj_colgroup.asp)

## Default CSS Settings

Most browsers will display the <colgroup> element with the following default values:

### Example

colgroup {   
    display: table-column-group;  
}

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_colgroup_default_css)

# HTML <datalist> Tag

[« Previous](http://www.w3schools.com/tags/tag_colgroup.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_dd.asp)

### Example

An <input> element with pre-defined values in a <datalist>:

<input list="browsers">  
  
<datalist id="browsers">  
  <option value="Internet Explorer">  
  <option value="Firefox">  
  <option value="Chrome">  
  <option value="Opera">  
  <option value="Safari">  
</datalist>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml5_datalist)

## Definition and Usage

The <datalist> tag specifies a list of pre-defined options for an <input> element.

The <datalist> tag is used to provide an "autocomplete" feature on <input> elements. Users will see a drop-down list of pre-defined options as they input data.

Use the <input> element's list attribute to bind it together with a <datalist> element.

## Browser Support

The numbers in the table specify the first browser version that fully supports the element.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <datalist> | 20.0 | 12.0 | 10.0 | 4.0 | Not supported | 9.0 |

## Differences Between HTML 4.01 and HTML5

The <datalist> tag is new in HTML5.

## Global Attributes

The <datalist> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <datalist> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Related Pages

HTML DOM reference: [Datalist Object](http://www.w3schools.com/jsref/dom_obj_datalist.asp)

## Default CSS Settings

Most browsers will display the <datalist> element with the following default values:

datalist {   
    display: none;  
}

# HTML <dd> Tag

[« Previous](http://www.w3schools.com/tags/tag_datalist.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_del.asp)

### Example

A description list, with terms and descriptions:

<dl>  
  <dt>Coffee</dt>  
  <dd>Black hot drink</dd>  
  <dt>Milk</dt>  
  <dd>White cold drink</dd>  
</dl>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_dd_test)

## Definition and Usage

The <dd> tag is used to describe a term/name in a description list.

The <dd> tag is used in conjunction with [<dl>](http://www.w3schools.com/tags/tag_dl.asp) (defines a description list) and [<dt>](http://www.w3schools.com/tags/tag_dt.asp) (defines terms/names).

Inside a <dd> tag you can put paragraphs, line breaks, images, links, lists, etc.

## Browser Support

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <dd> | Yes | Yes | Yes | Yes | Yes | Yes |

## Differences Between HTML 4.01 and HTML5

In HTML 4.01, the <dd> tag was used to describe an item in a definition list.

In HTML5, the <dd> tag is used to describe a term/name in a description list.

## Global Attributes

The <dd> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <dd> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Related Pages

HTML tutorial: [HTML Lists](http://www.w3schools.com/html/html_lists.asp)

HTML DOM reference: [DD Object](http://www.w3schools.com/jsref/dom_obj_dd.asp)

## Default CSS Settings

Most browsers will display the <dd> element with the following default values:

### Example

dd {   
    display: block;  
    margin-left: 40px;  
}

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_dd_default_css)

# HTML <del> Tag

[« Previous](http://www.w3schools.com/tags/tag_dd.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_details.asp)

### Example

A text with a deleted part, and a new, inserted part:

<p>My favorite color is <del>blue</del> <ins>red</ins>!</p>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_del)

## Definition and Usage

The <del> tag defines text that has been deleted from a document.

## Browser Support

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <del> | Yes | Yes | Yes | Yes | Yes | Yes |

## Tips and Notes

**Tip:** Also look at the [<ins>](http://www.w3schools.com/tags/tag_ins.asp) tag to markup inserted text.

**Tip:** Use <del> and <ins> to markup updates and modifications in a document. Browsers will normally strike a line through deleted text and underline inserted text.

## Differences Between HTML 4.01 and HTML5

NONE.

## Attributes

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| [cite](http://www.w3schools.com/tags/att_del_cite.asp) | *URL* | Specifies a URL to a document that explains the reason why the text was deleted |
| [datetime](http://www.w3schools.com/tags/att_del_datetime.asp) | *YYYY-MM-DDThh:mm:ssTZD* | Specifies the date and time of when the text was deleted |

## Global Attributes

The <del> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <del> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Related Pages

HTML DOM reference: [Del Object](http://www.w3schools.com/jsref/dom_obj_del.asp)

## Default CSS Settings

Most browsers will display the <del> element with the following default values:

### Example

del {  
    text-decoration: line-through;  
}

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_del_default_css)

# HTML <dialog> Tag

[« Previous](http://www.w3schools.com/tags/tag_dfn.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_dir.asp)

### Example

Using the <dialog> element:

<table>  
<tr>  
  <th>January <dialog open>This is an open dialog window</dialog></th>  
  <th>February</th>  
  <th>March</th>  
</tr>  
<tr>  
  <td>31</td>  
  <td>28</td>  
  <td>31</td>  
</tr>  
</table>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml5_dialog)

## Definition and Usage

The <dialog> tag defines a dialog box or window.

The <dialog> element makes it easy to create popup dialogs and modals on a web page.

## Browser Support

The numbers in the table specify the first browser version that fully supports the element.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <dialog> | 37 | Not supported | Not supported | Not supported | 6.0 | 24 |

## Differences Between HTML 4.01 and HTML5

The <dialog> tag is new in HTML5.

## Attributes

= New in HTML5.

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| [open](http://www.w3schools.com/tags/att_dialog_open.asp) | open | Specifies that the dialog element is active and that the user can interact with it |

## Global Attributes

The <dialog> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <dialog> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Related Pages

HTML DOM reference: [Dialog Object](http://www.w3schools.com/jsref/dom_obj_dialog.asp)

# HTML <dir> Tag. Not Supported in HTML5.

[« Previous](http://www.w3schools.com/tags/tag_dialog.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_div.asp)

### Example

A directory list:

<dir>  
  <li>html</li>  
  <li>xhtml</li>  
  <li>css</li>  
</dir>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_dir_test)

## Definition and Usage

The <dir> tag is not supported in HTML5. Use CSS instead.

The <dir> tag is used to list directory titles.

## Browser Support

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |
| <dir> | Yes | Yes | Yes | Yes | Yes |

## Tips and Notes

**Tip:** Use CSS to style lists! In our CSS tutorial you can find more details about [styling lists](http://www.w3schools.com/css/css_list.asp).

## Differences Between HTML 4.01 and HTML5

The <dir> tag is not supported in HTML5.

## Optional Attributes

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| [compact](http://www.w3schools.com/tags/att_dir_compact.asp) | compact | Not supported in HTML5. Specifies that the list should render smaller than normal |

# HTML <dl> Tag

[« Previous](http://www.w3schools.com/tags/tag_div.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_dt.asp)

### Example

A description list, with terms and descriptions:

<dl>  
  <dt>Coffee</dt>  
  <dd>Black hot drink</dd>  
  <dt>Milk</dt>  
  <dd>White cold drink</dd>  
</dl>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_dd_test)

## Definition and Usage

The <dl> tag defines a description list.

The <dl> tag is used in conjunction with [<dt>](http://www.w3schools.com/tags/tag_dt.asp) (defines terms/names) and [<dd>](http://www.w3schools.com/tags/tag_dd.asp) (describes each term/name).

## Browser Support

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <dl> | Yes | Yes | Yes | Yes | Yes | Yes |

## Differences Between HTML 4.01 and HTML5

In HTML 4.01, the <dl> tag defines a definition list.

In HTML 5, the <dl> tag defines a description list.

## Global Attributes

The <dl> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <dl> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Related Pages

HTML tutorial: [HTML Lists](http://www.w3schools.com/html/html_lists.asp)

HTML DOM reference: [DList Object](http://www.w3schools.com/jsref/dom_obj_dl.asp)

## Default CSS Settings

Most browsers will display the <dl> element with the following default values:

### Example

dl {  
    display: block;  
    margin-top: 1em;  
    margin-bottom: 1em;  
    margin-left: 0;  
    margin-right: 0;  
}

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_dl_default_css)

# HTML <dt> Tag

[« Previous](http://www.w3schools.com/tags/tag_dl.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_em.asp)

### Example

A description list, with terms and descriptions:

<dl>  
  <dt>Coffee</dt>  
  <dd>Black hot drink</dd>  
  <dt>Milk</dt>  
  <dd>White cold drink</dd>  
</dl>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_dd_test)

## Definition and Usage

The <dt> tag defines a term/name in a description list.

The <dt> tag is used in conjunction with [<dl>](http://www.w3schools.com/tags/tag_dl.asp) (defines a description list) and [<dd>](http://www.w3schools.com/tags/tag_dd.asp) (describes each term/name).

## Browser Support

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <dt> | Yes | Yes | Yes | Yes | Yes | Yes |

## Differences Between HTML 4.01 and HTML5

In HTML 4.01, the <dt> tag defines an item in a definition list.

In HTML5, the <dt> tag defines a term/name in a description list.

## Global Attributes

The <dt> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <dt> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Related Pages

HTML tutorial: [HTML Lists](http://www.w3schools.com/html/html_lists.asp)

HTML DOM reference: [DT Object](http://www.w3schools.com/jsref/dom_obj_dt.asp)

## Default CSS Settings

Most browsers will display the <dt> element with the following default values:

### Example

dt {   
    display: block;  
}

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_dt_default_css)

# HTML <em> Tag

[« Previous](http://www.w3schools.com/tags/tag_dt.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_embed.asp)

### Example

Format text in a document:

<em>Emphasized text</em>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_phrase_test)

## Definition and Usage

The <em> tag is a phrase tag. It renders as emphasized text.

**Tip:** This tag is not deprecated, but it is possible to achieve richer effect with CSS.

All phrase tags:

|  |  |
| --- | --- |
| **Tag** | **Description** |
| <em> | Renders as emphasized text |
| <strong> | Defines important text |
| <code> | Defines a piece of computer code |
| <samp> | Defines sample output from a computer program |
| <kbd> | Defines keyboard input |
| <var> | Defines a variable |

## Browser Support

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <em> | Yes | Yes | Yes | Yes | Yes | Yes |

## Differences Between HTML 4.01 and HTML5

NONE.

## Global Attributes

The <em> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <em> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Related Pages

HTML tutorial: [HTML Text Formatting](http://www.w3schools.com/html/html_formatting.asp)

HTML DOM reference: [Emphasized Object](http://www.w3schools.com/jsref/dom_obj_em.asp)

## Default CSS Settings

Most browsers will display the <em> element with the following default values:

### Example

em {   
    font-style: italic;  
}

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_em_default_css)

# HTML <embed> Tag

[« Previous](http://www.w3schools.com/tags/tag_em.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_fieldset.asp)

### Example

An embedded flash animation:

<embed src="helloworld.swf">

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml5_embed)

## Definition and Usage

The <embed> tag defines a container for an external application or interactive content (a plug-in).

## Browser Support

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <embed> | Yes | Yes | Yes | Yes | Yes | Yes |

## Differences Between HTML 4.01 and HTML5

The <embed> tag is new in HTML5.

**Note:** Many web browsers have supported the <embed> tag for a long time. However, the <embed> tag has not been a part of the HTML 4 specification. The <embed> tag is new in HTML5, and will validate in an HTML5 page. However, if you use it in an HTML 4 page, the page will not validate.

## Attributes

= New in HTML5.

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| [height](http://www.w3schools.com/tags/att_embed_height.asp) | *pixels* | Specifies the height of the embedded content |
| [src](http://www.w3schools.com/tags/att_embed_src.asp) | *URL* | Specifies the address of the external file to embed |
| [type](http://www.w3schools.com/tags/att_embed_type.asp) | *media\_type* | Specifies the media type of the embedded content |
| [width](http://www.w3schools.com/tags/att_embed_width.asp) | *pixels* | Specifies the width of the embedded content |

## Global Attributes

The <embed> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <embed> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Related Pages

HTML DOM reference: [Embed Object](http://www.w3schools.com/jsref/dom_obj_embed.asp)

## Default CSS Settings

Most browsers will display the <embed> element with the following default values:

embed:focus {   
    outline: none;  
}

# HTML <fieldset> Tag

[« Previous](http://www.w3schools.com/tags/tag_embed.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_figcaption.asp)

### Example

Group related elements in a form:

<form>  
  <fieldset>  
    <legend>Personalia:</legend>  
    Name: <input type="text"><br>  
    Email: <input type="text"><br>  
    Date of birth: <input type="text">  
  </fieldset>  
</form>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_fieldset)

## Definition and Usage

The <fieldset> tag is used to group related elements in a form.

The <fieldset> tag draws a box around the related elements.

## Browser Support

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <fieldset> | Yes | Yes | Yes | Yes | Yes | Yes |

## Tips and Notes

**Tip:** The [<legend>](http://www.w3schools.com/tags/tag_legend.asp) tag defines a caption for the <fieldset> element.

## Differences Between HTML 4.01 and HTML5

HTML5 has added new attributes for <fieldset>.

## Attributes

= New in HTML5.

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| [disabled](http://www.w3schools.com/tags/att_fieldset_disabled.asp) | disabled | Specifies that a group of related form elements should be disabled |
| [form](http://www.w3schools.com/tags/att_fieldset_form.asp) | *form\_id* | Specifies one or more forms the fieldset belongs to |
| [name](http://www.w3schools.com/tags/att_fieldset_name.asp) | *text* | Specifies a name for the fieldset |

## Global Attributes

The <fieldset> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <fieldset> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Related Pages

HTML DOM reference: [Fieldset Object](http://www.w3schools.com/jsref/dom_obj_fieldset.asp)

## Default CSS Settings

Most browsers will display the <fieldset> element with the following default values:

fieldset {   
    display: block;  
    margin-left: 2px;  
    margin-right: 2px;  
    padding-top: 0.35em;  
    padding-bottom: 0.625em;  
    padding-left: 0.75em;  
    padding-right: 0.75em;  
    border: 2px groove (internal value);  
}

# HTML <figure> Tag

[« Previous](http://www.w3schools.com/tags/tag_figcaption.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_font.asp)

### Example

Use a <figure> element to mark up a photo in a document:

<figure>  
  <img src="img\_pulpit.jpg" alt="The Pulpit Rock" width="304" height="228">  
</figure>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml5_figure)

## Definition and Usage

The <figure> tag specifies self-contained content, like illustrations, diagrams, photos, code listings, etc.

While the content of the <figure> element is related to the main flow, its position is independent of the main flow, and if removed it should not affect the flow of the document.

## Browser Support

The numbers in the table specify the first browser version that fully supports the element.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <figure> | 6.0 | 12.0 | 9.0 | 4.0 | 5.0 | 11.1 |

## Differences Between HTML 4.01 and HTML5

The <figure> tag is new in HTML5.

## Tips and Notes

**Tip:** The [<figcaption>](http://www.w3schools.com/tags/tag_figcaption.asp) element is used to add a caption for the <figure> element.

## Global Attributes

The <figure> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <figure> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Related Pages

HTML DOM reference: [Figure Object](http://www.w3schools.com/jsref/dom_obj_figure.asp)

## Default CSS Settings

Most browsers will display the <figure> element with the following default values:

### Example

figure {   
    display: block;  
    margin-top: 1em;  
    margin-bottom: 1em;  
    margin-left: 40px;  
    margin-right: 40px;  
}

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml5_figure_default_css)

# HTML <font> Tag. Not Supported in HTML5.

[« Previous](http://www.w3schools.com/tags/tag_figure.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_footer.asp)

### Example

Specify the font size, font face and color of text:

<font size="3" color="red">This is some text!</font>  
<font size="2" color="blue">This is some text!</font>  
<font face="verdana" color="green">This is some text!</font>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_font)

## Definition and Usage

The <font> tag is not supported in HTML5. Use CSS instead.

The <font> tag specifies the font face, font size, and color of text.

## Browser Support

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |
| <font> | Yes | Yes | Yes | Yes | Yes |

## Differences Between HTML 4.01 and HTML5

The <font> tag is not supported in HTML5.

## Compatibility Notes

[CSS Example: Set the color of text](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_font_color_css)

[CSS Example: Set the font of text](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_font_face_css)

[CSS Example: Set the size of text](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_font_size_css)

In our CSS tutorial you can find more information about [CSS text color](http://www.w3schools.com/css/css_text.asp) and [CSS fonts](http://www.w3schools.com/css/css_font.asp).

## Optional Attributes

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| [color](http://www.w3schools.com/tags/att_font_color.asp) | *rgb(x,x,x) #xxxxxx colorname* | Not supported in HTML5. Specifies the color of text |
| [face](http://www.w3schools.com/tags/att_font_face.asp) | *font\_family* | Not supported in HTML5. Specifies the font of text |
| [size](http://www.w3schools.com/tags/att_font_size.asp) | *number* | Not supported in HTML5. Specifies the size of text |

# HTML <footer> Tag

[« Previous](http://www.w3schools.com/tags/tag_font.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_form.asp)

### Example

A footer section in a document:

<footer>  
  <p>Posted by: Hege Refsnes</p>  
  <p>Contact information: <a href="mailto:someone@example.com">  
  someone@example.com</a>.</p>  
</footer>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml5_footer)

## Definition and Usage

The <footer> tag defines a footer for a document or section.

A <footer> element should contain information about its containing element.

A <footer> element typically contains:

* authorship information
* copyright information
* contact information
* sitemap
* back to top links
* related documents

You can have several <footer> elements in one document.

## Browser Support

The numbers in the table specify the first browser version that fully supports the element.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <footer> | 6.0 | 12.0 | 9.0 | 4.0 | 5.0 | 11.1 |

## Differences Between HTML 4.01 and HTML5

The <footer> tag is new in HTML5.

## Tips and Notes

**Tip:** Contact information inside a <footer> element should go inside an [<address>](http://www.w3schools.com/tags/tag_address.asp) tag.

## Global Attributes

The <footer> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <footer> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Related Pages

HTML DOM reference: [Footer Object](http://www.w3schools.com/jsref/dom_obj_footer.asp)

## Default CSS Settings

Most browsers will display the <footer> element with the following default values:

footer {   
    display: block;  
}

# HTML <form> Tag

[« Previous](http://www.w3schools.com/tags/tag_footer.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_frame.asp)

### Example

An HTML form with two input fields and one submit button:

<form action="demo\_form.asp" method="get">  
  First name: <input type="text" name="fname"><br>  
  Last name: <input type="text" name="lname"><br>  
  <input type="submit" value="Submit">  
</form>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_form_submit)

More "Try it Yourself" examples below.

## Definition and Usage

The <form> tag is used to create an HTML form for user input.

The <form> element can contain one or more of the following form elements:

* [<input>](http://www.w3schools.com/tags/tag_input.asp)
* [<textarea>](http://www.w3schools.com/tags/tag_textarea.asp)
* [<button>](http://www.w3schools.com/tags/tag_button.asp)
* [<select>](http://www.w3schools.com/tags/tag_select.asp)
* [<option>](http://www.w3schools.com/tags/tag_option.asp)
* [<optgroup>](http://www.w3schools.com/tags/tag_optgroup.asp)
* [<fieldset>](http://www.w3schools.com/tags/tag_fieldset.asp)
* [<label>](http://www.w3schools.com/tags/tag_label.asp)

## Browser Support

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <form> | Yes | Yes | Yes | Yes | Yes | Yes |

## Differences Between HTML 4.01 and HTML5

HTML5 has added two new attributes: autocomplete and novalidate, and removed the accept attribute.

## Differences Between HTML and XHTML

In XHTML, the name attribute is deprecated. Use the global id attribute instead.

## Attributes

= New in HTML5.

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| [accept](http://www.w3schools.com/tags/att_form_accept.asp) | *file\_type* | Not supported in HTML5. Specifies a comma-separated list of file types  that the server accepts (that can be submitted through the file upload) |
| [accept-charset](http://www.w3schools.com/tags/att_form_accept_charset.asp) | *character\_set* | Specifies the character encodings that are to be used for the form submission |
| [action](http://www.w3schools.com/tags/att_form_action.asp) | *URL* | Specifies where to send the form-data when a form is submitted |
| [autocomplete](http://www.w3schools.com/tags/att_form_autocomplete.asp) | on off | Specifies whether a form should have autocomplete on or off |
| [enctype](http://www.w3schools.com/tags/att_form_enctype.asp) | application/x-www-form-urlencoded multipart/form-data text/plain | Specifies how the form-data should be encoded when submitting it to the server (only for method="post") |
| [method](http://www.w3schools.com/tags/att_form_method.asp) | get post | Specifies the HTTP method to use when sending form-data |
| [name](http://www.w3schools.com/tags/att_form_name.asp) | *text* | Specifies the name of a form |
| [novalidate](http://www.w3schools.com/tags/att_form_novalidate.asp) | novalidate | Specifies that the form should not be validated when submitted |
| [target](http://www.w3schools.com/tags/att_form_target.asp) | \_blank \_self \_parent \_top | Specifies where to display the response that is received after submitting the form |

## Global Attributes

The <form> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <form> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

Examples

## Try it Yourself - Examples

[Form with checkboxes](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_form_checkbox)  
A form with two checkboxes, and a submit button.

[Form with radiobuttons](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_form_radio)  
A form with two radio buttons, and a submit button.

## Related Pages

HTML tutorial: [HTML Forms and Input](http://www.w3schools.com/html/html_forms.asp)

HTML DOM reference: [Form Object](http://www.w3schools.com/jsref/dom_obj_form.asp)

## Default CSS Settings

Most browsers will display the <form> element with the following default values:

### Example

form {  
    display: block;  
    margin-top: 0em;  
}

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_form_default_css)

# HTML <frame> Tag. Not Supported in HTML5.

[« Previous](http://www.w3schools.com/tags/tag_form.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_frameset.asp)

### Example

A simple three-framed page:

<frameset cols="25%,50%,25%">  
  <frame src="frame\_a.htm">  
  <frame src="frame\_b.htm">  
  <frame src="frame\_c.htm">  
</frameset>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_frame_cols)

More "Try it Yourself" examples below.

## Definition and Usage

The <frame> tag is not supported in HTML5.

The <frame> tag defines one particular window (frame) within a <frameset>.

Each <frame> in a <frameset> can have different attributes, such as border, scrolling, the ability to resize, etc.

**Note:** If you want to validate a page containing frames, be sure the [<!DOCTYPE>](http://www.w3schools.com/tags/tag_doctype.asp) is set to either "HTML Frameset DTD" or "XHTML Frameset DTD".

## Browser Support

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |
| <frame> | Yes | Yes | Yes | Yes | Yes |

## Differences Between HTML 4.01 and HTML5

The <frame> tag is not supported in HTML5.

## Differences Between HTML and XHTML

In HTML, the <frame> tag has no end tag. In XHTML, the <frame> tag must be properly closed.

## Optional Attributes

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| [frameborder](http://www.w3schools.com/tags/att_frame_frameborder.asp) | 0 1 | Not supported in HTML5. Specifies whether or not to display a border around a frame |
| [longdesc](http://www.w3schools.com/tags/att_frame_longdesc.asp) | *URL* | Not supported in HTML5. Specifies a page that contains a long description of the content of a frame |
| [marginheight](http://www.w3schools.com/tags/att_frame_marginheight.asp) | *pixels* | Not supported in HTML5. Specifies the top and bottom margins of a frame |
| [marginwidth](http://www.w3schools.com/tags/att_frame_marginwidth.asp) | *pixels* | Not supported in HTML5. Specifies the left and right margins of a frame |
| [name](http://www.w3schools.com/tags/att_frame_name.asp) | *text* | Not supported in HTML5. Specifies the name of a frame |
| [noresize](http://www.w3schools.com/tags/att_frame_noresize.asp) | noresize | Not supported in HTML5. Specifies that a frame is not resizable |
| [scrolling](http://www.w3schools.com/tags/att_frame_scrolling.asp) | yes no auto | Not supported in HTML5. Specifies whether or not to display scrollbars in a frame |
| [src](http://www.w3schools.com/tags/att_frame_src.asp) | *URL* | Not supported in HTML5. Specifies the URL of the document to show in a frame |

Examples

## Try it Yourself - Examples

[Horizontal frameset](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_frame_rows)  
How to make a horizontal frameset with three different documents.

[Mixed frameset](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_frame_mix)  
How to make a frameset with three documents, and how to mix them in rows and columns.

[Frameset with noresize="noresize"](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_frame_noresize)  
How to use the "noresize" attribute. The border between frame A and B is not resizable.

# HTML <frameset> Tag. Not Supported in HTML5.

[« Previous](http://www.w3schools.com/tags/tag_frame.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_hn.asp)

### Example

A simple three-framed page:

<frameset cols="25%,\*,25%">  
  <frame src="frame\_a.htm">  
  <frame src="frame\_b.htm">  
  <frame src="frame\_c.htm">  
</frameset>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_frame_cols)

More "Try it Yourself" examples below.

## Definition and Usage

The <frameset> tag is not supported in HTML5.

The <frameset> tag defines a frameset.

The <frameset> element holds one or more [<frame>](http://www.w3schools.com/tags/tag_frame.asp) elements. Each <frame> element can hold a separate document.

The <frameset> element specifies HOW MANY columns or rows there will be in the frameset, and HOW MUCH percentage/pixels of space will occupy each of them.

**Note:** If you want to validate a page containing frames, be sure the [<!DOCTYPE>](http://www.w3schools.com/tags/tag_doctype.asp) is set to either "HTML Frameset DTD" or "XHTML Frameset DTD".

## Browser Support

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |
| <frameset> | Yes | Yes | Yes | Yes | Yes |

## Differences Between HTML 4.01 and HTML5

The <frameset> tag is not supported in HTML5.

## Differences Between HTML and XHTML

NONE.

## Optional Attributes

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| [cols](http://www.w3schools.com/tags/att_frameset_cols.asp) | *pixels % \** | Not supported in HTML5. Specifies the number and size of columns in a frameset |
| [rows](http://www.w3schools.com/tags/att_frameset_rows.asp) | *pixels % \** | Not supported in HTML5. Specifies the number and size of rows in a frameset |

Examples

## Try it Yourself - Examples

[Horizontal frameset](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_frame_rows)  
How to make a horizontal frameset with three different documents.

[Mixed frameset](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_frame_mix)  
How to make a frameset with three documents, and how to mix them in rows and columns.

[Frameset with noresize="noresize"](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_frame_noresize)  
How to use the "noresize" attribute. The frames are not resizable. Move the mouse over the borders between the frames and notice that you can not move the borders.

# HTML <h1> to <h6> Tags

[« Previous](http://www.w3schools.com/tags/tag_frameset.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_head.asp)

### Example

The six different HTML headings:

<h1>This is heading 1</h1>  
<h2>This is heading 2</h2>  
<h3>This is heading 3</h3>  
<h4>This is heading 4</h4>  
<h5>This is heading 5</h5>  
<h6>This is heading 6</h6>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_headers)

## Definition and Usage

The <h1> to <h6> tags are used to define HTML headings.

<h1> defines the most important heading. <h6> defines the least important heading.

## Browser Support

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <h1> - <h6> | Yes | Yes | Yes | Yes | Yes | Yes |

## Differences Between HTML 4.01 and HTML5

The "align" attribute is not supported in HTML5. Use CSS to align elements.

## Attributes

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| [align](http://www.w3schools.com/tags/att_hn_align.asp) | left center right justify | Not supported in HTML5. Specifies the alignment of a heading |

## Global Attributes

The <h1> to <h6> tags also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <h1> to <h6> tags also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Related Pages

HTML tutorial: [HTML Headings](http://www.w3schools.com/html/html_headings.asp)

HTML DOM reference: [Heading Object](http://www.w3schools.com/jsref/dom_obj_heading.asp)

## Default CSS Settings

Most browsers will display the <h1> element with the following default values:

### Example

h1 {   
    display: block;  
    font-size: 2em;  
    margin-top: 0.67em;  
    margin-bottom: 0.67em;  
    margin-left: 0;  
    margin-right: 0;  
    font-weight: bold;  
}

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_h1_default_css)

Most browsers will display the <h2> element with the following default values:

### Example

h2 {  
    display: block;  
    font-size: 1.5em;  
    margin-top: 0.83em;  
    margin-bottom: 0.83em;  
    margin-left: 0;  
    margin-right: 0;  
    font-weight: bold;  
}

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_h2_default_css)

Most browsers will display the <h3> element with the following default values:

### Example

h3 {   
    display: block;  
    font-size: 1.17em;  
    margin-top: 1em;  
    margin-bottom: 1em;  
    margin-left: 0;  
    margin-right: 0;  
    font-weight: bold;  
}

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_h3_default_css)

Most browsers will display the <h4> element with the following default values:

### Example

h4 {   
    display: block;  
    margin-top: 1.33em;  
    margin-bottom: 1.33em;  
    margin-left: 0;  
    margin-right: 0;  
    font-weight: bold;  
}

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_h4_default_css)

Most browsers will display the <h5> element with the following default values:

### Example

h5 {   
    display: block;  
    font-size: .83em;  
    margin-top: 1.67em;  
    margin-bottom: 1.67em;  
    margin-left: 0;  
    margin-right: 0;  
    font-weight: bold;  
}

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_h5_default_css)

Most browsers will display the <h6> element with the following default values:

### Example

h6 {   
    display: block;  
    font-size: .67em;  
    margin-top: 2.33em;  
    margin-bottom: 2.33em;  
    margin-left: 0;  
    margin-right: 0;  
    font-weight: bold;  
}

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_h6_default_css)

# HTML <head> Tag

[« Previous](http://www.w3schools.com/tags/tag_hn.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_header.asp)

### Example

An HTML document, with a <title> tag inside the head section:

<!DOCTYPE html>  
<html>  
<head>  
<title>Title of the document</title>  
</head>  
  
<body>  
The content of the document......  
</body>  
  
</html>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_basic)

More "Try it Yourself" examples below.

## Definition and Usage

The <head> element is a container for all the head elements.

The <head> element can include a title for the document, scripts, styles, meta information, and more.

The following elements can go inside the <head> element:

* [<title>](http://www.w3schools.com/tags/tag_title.asp) (this element is required in an HTML document)
* [<style>](http://www.w3schools.com/tags/tag_style.asp)
* [<base>](http://www.w3schools.com/tags/tag_base.asp)
* [<link>](http://www.w3schools.com/tags/tag_link.asp)
* [<meta>](http://www.w3schools.com/tags/tag_meta.asp)
* [<script>](http://www.w3schools.com/tags/tag_script.asp)
* [<noscript>](http://www.w3schools.com/tags/tag_noscript.asp)

## Browser Support

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <head> | Yes | Yes | Yes | Yes | Yes | Yes |

## Differences Between HTML 4.01 and HTML5

In HTML 4.01 the <head> element is required.

In HTML5, the <head> element can be omitted. The following code will validate as HTML5:

### Example

<!DOCTYPE html>  
<html>  
<title>Title of the document</title>  
  
<body>  
<h1>This is a heading</h1>  
<p>This is a paragraph.</p>  
</body>  
  
</html>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml5_head)

## Attributes

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| profile | *URL* | Not supported in HTML5. Specifies a URL to a document that contains a set of rules. The rules can be read by browsers to clearly understand the information in the <meta> tag's content attribute |

## Global Attributes

The <head> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

Examples

## Try it Yourself - Examples

[Use of the <base> tag in <head>](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_base_test)  
How to use the <base> tag to specify a default URL and a default target for all links on a page.

[Use of the <style> tag in <head>](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_style)  
How to add style information to the <head> section.

[Use of the <link> tag in <head>](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_link_tag)  
How to use the <link> tag to link to an external style sheet.

## Related Pages

HTML tutorial: [HTML Head](http://www.w3schools.com/html/html_head.asp)

HTML DOM reference: [Head Object](http://www.w3schools.com/jsref/dom_obj_head.asp)

## Default CSS Settings

Most browsers will display the <head> element with the following default values:

head {   
    display: none;  
}

# HTML <header> Tag

[« Previous](http://www.w3schools.com/tags/tag_head.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_hr.asp)

### Example

A header for an <article>:

<article>  
  <header>  
    <h1>Most important heading here</h1>  
    <h3>Less important heading here</h3>  
    <p>Some additional information here</p>  
  </header>  
  <p>Lorem Ipsum dolor set amet....</p>  
</article>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml5_header)

## Definition and Usage

The <header> element represents a container for introductory content or a set of navigational links.

A <header> element typically contains:

* one or more heading elements (<h1> - <h6>)
* logo or icon
* authorship information

You can have several <header> elements in one document.

**Note:** A <header> tag cannot be placed within a <footer>, <address> or another <header> element.

## Browser Support

The numbers in the table specify the first browser version that fully supports the element.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <header> | 6.0 | 12.0 | 9.0 | 4.0 | 5.0 | 11.1 |

## Differences Between HTML 4.01 and HTML5

The <header> tag is new in HTML5.

## Global Attributes

The <header> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <header> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Related Pages

HTML DOM reference: [Header Object](http://www.w3schools.com/jsref/dom_obj_header.asp)

## Default CSS Settings

Most browsers will display the <header> element with the following default values:

header {   
    display: block;  
}

# HTML <hr> Tag

[« Previous](http://www.w3schools.com/tags/tag_header.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_html.asp)

### Example

Use the <hr> tag to define a thematic change in the content:

<h1>HTML</h1>  
<p>HTML is a language for describing web pages.....</p>  
  
<hr>  
  
<h1>CSS</h1>  
<p>CSS defines how to display HTML elements.....</p>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_hr_test)

## Definition and Usage

The <hr> tag defines a thematic break in an HTML page (e.g. a shift of topic).

The <hr> element is used to separate content (or define a change) in an HTML page.

## Browser Support

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <hr> | Yes | Yes | Yes | Yes | Yes | Yes |

## Differences Between HTML 4.01 and HTML5

In HTML5, the <hr> tag defines a thematic break.

In HTML 4.01, the <hr> tag represents a horizontal rule.

However, the <hr> tag may still be displayed as a horizontal rule in visual browsers, but is now defined in semantic terms, rather than presentational terms.

All the layout attributes are removed in HTML5. Use CSS instead.

## Differences Between HTML and XHTML

In HTML, the <hr> tag has no end tag.

In XHTML, the <hr> tag must be properly closed, like this: <hr />.

## Attributes

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| [align](http://www.w3schools.com/tags/att_hr_align.asp) | left center right | Not supported in HTML5. Specifies the alignment of a <hr> element |
| [noshade](http://www.w3schools.com/tags/att_hr_noshade.asp) | noshade | Not supported in HTML5. Specifies that a <hr> element should render in one solid color (noshaded), instead of a shaded color |
| [size](http://www.w3schools.com/tags/att_hr_size.asp) | *pixels* | Not supported in HTML5. Specifies the height of a <hr> element |
| [width](http://www.w3schools.com/tags/att_hr_width.asp) | *pixels %* | Not supported in HTML5. Specifies the width of a <hr> element |

## Global Attributes

The <hr> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <hr> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Related Pages

HTML DOM reference: [HR Object](http://www.w3schools.com/jsref/dom_obj_hr.asp)

## Default CSS Settings

Most browsers will display the <hr> element with the following default values:

### Example

hr {   
    display: block;  
    margin-top: 0.5em;  
    margin-bottom: 0.5em;  
    margin-left: auto;  
    margin-right: auto;  
    border-style: inset;  
    border-width: 1px;  
}

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_hr_default_css)

# HTML <html> Tag

[« Previous](http://www.w3schools.com/tags/tag_hr.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_i.asp)

### Example

A simple HTML5 document:

<!DOCTYPE HTML>  
<html>  
<head>  
<title>Title of the document</title>  
</head>  
  
<body>  
The content of the document......  
</body>  
  
</html>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_basic)

## Definition and Usage

The <html> tag tells the browser that this is an HTML document.

The <html> tag represents the root of an HTML document.

The <html> tag is the container for all other HTML elements (except for the [<!DOCTYPE>](http://www.w3schools.com/tags/tag_doctype.asp) tag).

## Browser Support

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <html> | Yes | Yes | Yes | Yes | Yes | Yes |

## Differences Between HTML 4.01 and HTML5

HTML5 has added a new attribute: manifest.

## Differences Between HTML and XHTML

The xmlns attribute is required in XHTML, but is invalid in HTML.

However, the HTML validator at <http://w3.org> does not complain when the xmlns attribute is missing in an XHTML document. This is because the namespace "xmlns=http://www.w3.org/1999/xhtml" is default, and will be added to the <html> tag even if you do not include it.

## Attributes

= New in HTML5.

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| [manifest](http://www.w3schools.com/tags/att_html_manifest.asp) | *URL* | Specifies the address of the document's cache manifest (for offline browsing) |
| [xmlns](http://www.w3schools.com/tags/att_html_xmlns.asp) | http://www.w3.org/1999/xhtml | Specifies the XML namespace attribute (If you need your content to conform to XHTML) |

## Global Attributes

The <html> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Related Pages

HTML tutorial: [HTML Introduction](http://www.w3schools.com/html/html_intro.asp)

HTML DOM reference: [HTML Object](http://www.w3schools.com/jsref/dom_obj_html.asp)

## Default CSS Settings

Most browsers will display the <html> element with the following default values:

html {   
    display: block;  
}  
  
html:focus {   
    outline: none;  
}

# HTML <i> Tag

[« Previous](http://www.w3schools.com/tags/tag_html.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_iframe.asp)

### Example

<p>He named his car <i>The lightning</i>, because it was very fast.</p>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml5_i)

## Definition and Usage

The <i> tag defines a part of text in an alternate voice or mood. The content of the <i> tag is usually displayed in italic.

The <i> tag can be used to indicate a technical term, a phrase from another language, a thought, or a ship name, etc.

Use the <i> element only when there is not a more appropriate semantic element, such as:

* [<em>](http://www.w3schools.com/tags/tag_em.asp) (emphasized text)
* [<strong>](http://www.w3schools.com/tags/tag_strong.asp) (important text)
* [<mark>](http://www.w3schools.com/tags/tag_mark.asp) (marked/highlighted text)
* [<cite>](http://www.w3schools.com/tags/tag_cite.asp) (the title of a work)
* [<dfn>](http://www.w3schools.com/tags/tag_dfn.asp) (a definition term)

## Browser Support

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <i> | Yes | Yes | Yes | Yes | Yes | Yes |

## Differences Between HTML 4.01 and HTML5

In HTML 4.01, the <i> tag was used to render text in italics. However, this is not necessarily the case with HTML5. Style sheets can be used to format the text inside the <i> element.

## Global Attributes

The <i> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <i> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Related Pages

HTML tutorial: [HTML Text Formatting](http://www.w3schools.com/html/html_formatting.asp)

HTML DOM reference: [Italic Object](http://www.w3schools.com/jsref/dom_obj_i.asp)

## Default CSS Settings

Most browsers will display the <i> element with the following default values:

### Example

i {   
    font-style: italic;  
}

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_i_default_css)

# HTML <iframe> Tag

[« Previous](http://www.w3schools.com/tags/tag_i.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_img.asp)

### Example

An inline frame is marked up as follows:

<iframe src="http://www.w3schools.com"></iframe>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_iframe)

## Definition and Usage

The <iframe> tag specifies an inline frame.

An inline frame is used to embed another document within the current HTML document.

## Browser Support

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <iframe> | Yes | Yes | Yes | Yes | Yes | Yes |

## Tips and Notes

**Tip:** To deal with browsers that do not support <iframe>, add a text between the opening <iframe> tag and the closing </iframe> tag.

**Tip:** Use CSS to style the <iframe> (even to include scrollbars).

## Differences Between HTML 4.01 and HTML5

HTML5 has added some new attributes, and several HTML 4.01 attributes are removed from HTML5.

## Differences Between HTML and XHTML

In XHTML, the name attribute is deprecated, and will be removed. Use the [global id attribute](http://www.w3schools.com/tags/ref_standardattributes.asp) instead.

## Attributes

= New in HTML5.

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| [align](http://www.w3schools.com/tags/att_iframe_align.asp) | left right top middle bottom | Not supported in HTML5. Specifies the alignment of an <iframe> according to surrounding elements |
| [frameborder](http://www.w3schools.com/tags/att_iframe_frameborder.asp) | 1 0 | Not supported in HTML5. Specifies whether or not to display a border around an <iframe> |
| [height](http://www.w3schools.com/tags/att_iframe_height.asp) | *pixels* | Specifies the height of an <iframe> |
| [longdesc](http://www.w3schools.com/tags/att_iframe_longdesc.asp) | *URL* | Not supported in HTML5. Specifies a page that contains a long description of the content of an <iframe> |
| [marginheight](http://www.w3schools.com/tags/att_iframe_marginheight.asp) | *pixels* | Not supported in HTML5. Specifies the top and bottom margins of the content of an <iframe> |
| [marginwidth](http://www.w3schools.com/tags/att_iframe_marginwidth.asp) | *pixels* | Not supported in HTML5. Specifies the left and right margins of the content of an <iframe> |
| [name](http://www.w3schools.com/tags/att_iframe_name.asp) | *text* | Specifies the name of an <iframe> |
| [sandbox](http://www.w3schools.com/tags/att_iframe_sandbox.asp) | allow-forms allow-pointer-lock allow-popups allow-same-origin allow-scripts allow-top-navigation | Enables an extra set of restrictions for the content in an <iframe> |
| [scrolling](http://www.w3schools.com/tags/att_iframe_scrolling.asp) | yes no auto | Not supported in HTML5. Specifies whether or not to display scrollbars in an <iframe> |
| [src](http://www.w3schools.com/tags/att_iframe_src.asp) | *URL* | Specifies the address of the document to embed in the <iframe> |
| [srcdoc](http://www.w3schools.com/tags/att_iframe_srcdoc.asp) | *HTML\_code* | Specifies the HTML content of the page to show in the <iframe> |
| [width](http://www.w3schools.com/tags/att_iframe_width.asp) | *pixels* | Specifies the width of an <iframe> |

## Global Attributes

The <iframe> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <iframe> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Related Pages

HTML tutorial: [HTML Iframes](http://www.w3schools.com/html/html_iframe.asp)

HTML DOM reference: [IFrame Object](http://www.w3schools.com/jsref/dom_obj_frame.asp)

## Default CSS Settings

Most browsers will display the <iframe> element with the following default values:

iframe:focus {   
    outline: none;  
}  
  
iframe[seamless] {   
    display: block;  
}

# HTML <img> Tag

[« Previous](http://www.w3schools.com/tags/tag_iframe.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_input.asp)

### Example

How to insert an image:

<img src="smiley.gif" alt="Smiley face" height="42" width="42">

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_image_test)

More "Try it Yourself" examples below.

## Definition and Usage

The <img> tag defines an image in an HTML page.

The <img> tag has two required attributes: src and alt.

**Note:** Images are not technically inserted into an HTML page, images are linked to HTML pages. The <img> tag creates a holding space for the referenced image.

**Tip:** To link an image to another document, simply nest the <img> tag inside <a> tags.

## Browser Support

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <img> | Yes | Yes | Yes | Yes | Yes | Yes |

## Differences Between HTML 4.01 and HTML5

The following attributes: align, border, hspace, and vspace are not supported in HTML5.

## Differences Between HTML and XHTML

In HTML the <img> tag has no end tag.

In XHTML the <img> tag must be properly closed.

## Attributes

= New in HTML5.

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| [align](http://www.w3schools.com/tags/att_img_align.asp) | top bottom middle left right | Not supported in HTML5. Specifies the alignment of an image according to surrounding elements |
| [alt](http://www.w3schools.com/tags/att_img_alt.asp) | *text* | Specifies an alternate text for an image |
| [border](http://www.w3schools.com/tags/att_img_border.asp) | *pixels* | Not supported in HTML5. Specifies the width of the border around an image |
| crossorigin | anonymous  use-credentials | Allow images from third-party sites that allow cross-origin access to be used with canvas |
| [height](http://www.w3schools.com/tags/att_img_height.asp) | *pixels* | Specifies the height of an image |
| [hspace](http://www.w3schools.com/tags/att_img_hspace.asp) | *pixels* | Not supported in HTML5. Specifies the whitespace on left and right side of an image |
| [ismap](http://www.w3schools.com/tags/att_img_ismap.asp) | ismap | Specifies an image as a server-side image-map |
| [longdesc](http://www.w3schools.com/tags/att_img_longdesc.asp) | *URL* | Specifies a URL to a detailed description of an image |
| [src](http://www.w3schools.com/tags/att_img_src.asp) | *URL* | Specifies the URL of an image |
| [usemap](http://www.w3schools.com/tags/att_img_usemap.asp) | *#mapname* | Specifies an image as a client-side image-map |
| [vspace](http://www.w3schools.com/tags/att_img_vspace.asp) | *pixels* | Not supported in HTML5. Specifies the whitespace on top and bottom of an image |
| [width](http://www.w3schools.com/tags/att_img_width.asp) | *pixels* | Specifies the width of an image |

## Global Attributes

The <img> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <img> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

Examples

## Try it Yourself - Examples

[Insert images from different locations](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_image_diffloc)  
How to insert images from another folder or from another web site.

[Make a hyperlink of an image](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_image_link)  
How to add a hyperlink to an image.

[Create an image map](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_areamap)  
How to create an image map, with clickable regions. Each region is a hyperlink.

## Related Pages

HTML tutorial: [HTML Images](http://www.w3schools.com/html/html_images.asp)

HTML DOM reference: [Image Object](http://www.w3schools.com/jsref/dom_obj_image.asp)

## Default CSS Settings

Most browsers will display the <img> element with the following default values:

### Example

img {   
    display: inline-block;  
}

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_img_default_css)

# HTML <input> Tag

[« Previous](http://www.w3schools.com/tags/tag_img.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_ins.asp)

### Example

An HTML form with three input fields; two text fields and one submit button:

<form action="demo\_form.asp">  
  First name: <input type="text" name="fname"><br>  
  Last name: <input type="text" name="lname"><br>  
  <input type="submit" value="Submit">  
</form>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_form_submit)

## Definition and Usage

The <input> tag specifies an input field where the user can enter data.

<input> elements are used within a <form> element to declare input controls that allow users to input data.

An input field can vary in many ways, depending on the type attribute.

## Browser Support

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <input> | Yes | Yes | Yes | Yes | Yes | Yes |

## Tips and Notes

**Note:** The <input> element is empty, it contains attributes only.

**Tip:** Use the [<label>](http://www.w3schools.com/tags/tag_label.asp) element to define labels for <input> elements.

## Differences Between HTML 4.01 and HTML5

The "align" attribute is not supported in HTML5.

In HTML5, the <input> tag has several new attributes, and the type attribute has several new values.

## Differences Between HTML and XHTML

In HTML, the <input> tag has no end tag.

In XHTML, the <input> tag must be properly closed, like this <input />.

## Attributes

= New in HTML5.

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| [accept](http://www.w3schools.com/tags/att_input_accept.asp) | file\_extension audio/\* video/\* image/\* *media\_type* | Specifies the types of files that the server accepts (only for type="file") |
| [align](http://www.w3schools.com/tags/att_input_align.asp) | left right top middle bottom | Not supported in HTML5. Specifies the alignment of an image input (only for type="image") |
| [alt](http://www.w3schools.com/tags/att_input_alt.asp) | *text* | Specifies an alternate text for images (only for type="image") |
| [autocomplete](http://www.w3schools.com/tags/att_input_autocomplete.asp) | on off | Specifies whether an <input> element should have autocomplete enabled |
| [autofocus](http://www.w3schools.com/tags/att_input_autofocus.asp) | autofocus | Specifies that an <input> element should automatically get focus when the page loads |
| [checked](http://www.w3schools.com/tags/att_input_checked.asp) | checked | Specifies that an <input> element should be pre-selected when the page loads (for type="checkbox" or type="radio") |
| [disabled](http://www.w3schools.com/tags/att_input_disabled.asp) | disabled | Specifies that an <input> element should be disabled |
| [form](http://www.w3schools.com/tags/att_input_form.asp) | *form\_id* | Specifies one or more forms the <input> element belongs to |
| [formaction](http://www.w3schools.com/tags/att_input_formaction.asp) | *URL* | Specifies the URL of the file that will process the input control when the form is submitted (for type="submit" and type="image") |
| [formenctype](http://www.w3schools.com/tags/att_input_formenctype.asp) | application/x-www-form-urlencoded multipart/form-data text/plain | Specifies how the form-data should be encoded when submitting it to the server (for type="submit" and type="image") |
| [formmethod](http://www.w3schools.com/tags/att_input_formmethod.asp) | get post | Defines the HTTP method for sending data to the action URL (for type="submit" and type="image") |
| [formnovalidate](http://www.w3schools.com/tags/att_input_formnovalidate.asp) | formnovalidate | Defines that form elements should not be validated when submitted |
| [formtarget](http://www.w3schools.com/tags/att_input_formtarget.asp) | \_blank \_self \_parent \_top framename | Specifies where to display the response that is received after submitting the form (for type="submit" and type="image") |
| [height](http://www.w3schools.com/tags/att_input_height.asp) | *pixels* | Specifies the height of an <input> element (only for type="image") |
| [list](http://www.w3schools.com/tags/att_input_list.asp) | *datalist\_id* | Refers to a <datalist> element that contains pre-defined options for an <input> element |
| [max](http://www.w3schools.com/tags/att_input_max.asp) | *number date* | Specifies the maximum value for an <input> element |
| [maxlength](http://www.w3schools.com/tags/att_input_maxlength.asp) | *number* | Specifies the maximum number of characters allowed in an <input> element |
| [min](http://www.w3schools.com/tags/att_input_min.asp) | *number date* | Specifies a minimum value for an <input> element |
| [multiple](http://www.w3schools.com/tags/att_input_multiple.asp) | multiple | Specifies that a user can enter more than one value in an <input> element |
| [name](http://www.w3schools.com/tags/att_input_name.asp) | *text* | Specifies the name of an <input> element |
| [pattern](http://www.w3schools.com/tags/att_input_pattern.asp) | regexp | Specifies a regular expression that an <input> element's value is checked against |
| [placeholder](http://www.w3schools.com/tags/att_input_placeholder.asp) | *text* | Specifies a short hint that describes the expected value of an <input> element |
| [readonly](http://www.w3schools.com/tags/att_input_readonly.asp) | readonly | Specifies that an input field is read-only |
| [required](http://www.w3schools.com/tags/att_input_required.asp) | required | Specifies that an input field must be filled out before submitting the form |
| [size](http://www.w3schools.com/tags/att_input_size.asp) | *number* | Specifies the width, in characters, of an <input> element |
| [src](http://www.w3schools.com/tags/att_input_src.asp) | *URL* | Specifies the URL of the image to use as a submit button (only for type="image") |
| [step](http://www.w3schools.com/tags/att_input_step.asp) | *number* | Specifies the legal number intervals for an input field |
| [type](http://www.w3schools.com/tags/att_input_type.asp) | button checkbox color date  datetime  datetime-local  email  file hidden image month  number  password radio range  reset search submit tel text time  url week | Specifies the type <input> element to display |
| [value](http://www.w3schools.com/tags/att_input_value.asp) | *text* | Specifies the value of an <input> element |
| [width](http://www.w3schools.com/tags/att_input_width.asp) | *pixels* | Specifies the width of an <input> element (only for type="image") |

## Global Attributes

The <input> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <input> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Related Pages

HTML tutorial: [HTML Forms](http://www.w3schools.com/html/html_forms.asp)

HTML DOM reference:

* [Input Button Object](http://www.w3schools.com/jsref/dom_obj_button.asp)
* [Input Checkbox Object](http://www.w3schools.com/jsref/dom_obj_checkbox.asp)
* [Input Color Object](http://www.w3schools.com/jsref/dom_obj_color.asp)
* [Input Date Object](http://www.w3schools.com/jsref/dom_obj_date.asp)
* [Input Datetime Object](http://www.w3schools.com/jsref/dom_obj_datetime.asp)
* [Input DatetimeLocal Object](http://www.w3schools.com/jsref/dom_obj_datetime-local.asp)
* [Input Email Object](http://www.w3schools.com/jsref/dom_obj_email.asp)
* [Input FileUpload Object](http://www.w3schools.com/jsref/dom_obj_fileupload.asp)
* [Input Hidden Object](http://www.w3schools.com/jsref/dom_obj_hidden.asp)
* [Input Image Object](http://www.w3schools.com/jsref/dom_obj_input_image.asp)
* [Input Month Object](http://www.w3schools.com/jsref/dom_obj_month.asp)
* [Input Number Object](http://www.w3schools.com/jsref/dom_obj_number.asp)
* [Input Password Object](http://www.w3schools.com/jsref/dom_obj_password.asp)
* [Input Range Object](http://www.w3schools.com/jsref/dom_obj_range.asp)
* [Input Radio Object](http://www.w3schools.com/jsref/dom_obj_radio.asp)
* [Input Reset Object](http://www.w3schools.com/jsref/dom_obj_reset.asp)
* [Input Search Object](http://www.w3schools.com/jsref/dom_obj_search.asp)
* [Input Submit Object](http://www.w3schools.com/jsref/dom_obj_submit.asp)
* [Input Text Object](http://www.w3schools.com/jsref/dom_obj_text.asp)
* [Input Time Object](http://www.w3schools.com/jsref/dom_obj_input_time.asp)
* [Input URL Object](http://www.w3schools.com/jsref/dom_obj_url.asp)
* [Input Week Object](http://www.w3schools.com/jsref/dom_obj_week.asp)

## Default CSS Settings

None.

# HTML <kbd> Tag

[« Previous](http://www.w3schools.com/tags/tag_ins.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_keygen.asp)

### Example

Format text in a document:

<kbd>Keyboard input</kbd>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_phrase_test)

## Definition and Usage

The <kbd> tag is a phrase tag. It defines keyboard input.

**Tip:** This tag is not deprecated, but it is possible to achieve richer effect with CSS.

All phrase tags:

|  |  |
| --- | --- |
| **Tag** | **Description** |
| <em> | Renders as emphasized text |
| <strong> | Defines important text |
| <code> | Defines a piece of computer code |
| <samp> | Defines sample output from a computer program |
| <kbd> | Defines keyboard input |
| <var> | Defines a variable |

## Browser Support

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <kbd> | Yes | Yes | Yes | Yes | Yes | Yes |

## Differences Between HTML 4.01 and HTML5

NONE.

## Global Attributes

The <kbd> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <kbd> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Related Pages

HTML tutorial: [HTML Text Formatting](http://www.w3schools.com/html/html_formatting.asp)

HTML DOM reference: [Kbd Object](http://www.w3schools.com/jsref/dom_obj_kbd.asp)

## Default CSS Settings

Most browsers will display the <kbd> element with the following default values:

### Example

kbd {   
    font-family: monospace;  
}

# HTML <keygen> Tag

[« Previous](http://www.w3schools.com/tags/tag_kbd.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_label.asp)

### Example

A form with a keygen field:

<form action="demo\_keygen.asp" method="get">  
  Username: <input type="text" name="usr\_name">  
  Encryption: <keygen name="security">  
  <input type="submit">  
</form>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml5_keygen)

## Definition and Usage

The <keygen> tag specifies a key-pair generator field used for forms.

When the form is submitted, the private key is stored locally, and the public key is sent to the server.

## Browser Support

The numbers in the table specify the first browser version that fully supports the element.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |
| <keygen> | 1.0 | Not supported | 1.0 | 1.2 | 3.0 |

## Differences Between HTML 4.01 and HTML5

The <keygen> element is new in HTML5.

## Attributes

= New in HTML5.

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| [autofocus](http://www.w3schools.com/tags/att_keygen_autofocus.asp) | autofocus | Specifies that a <keygen> element should automatically get focus when the page loads |
| challenge | challenge | Specifies that the value of the <keygen> element should be challenged when submitted |
| [disabled](http://www.w3schools.com/tags/att_keygen_disabled.asp) | disabled | Specifies that a <keygen> element should be disabled |
| [form](http://www.w3schools.com/tags/att_keygen_form.asp) | *form\_id* | Specifies one or more forms the <keygen> element belongs to |
| [keytype](http://www.w3schools.com/tags/att_keygen_keytype.asp) | rsa dsa ec | Specifies the security algorithm of the key |
| [name](http://www.w3schools.com/tags/att_keygen_name.asp) | *name* | Defines a name for the <keygen> element |

## Global Attributes

The <keygen> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <keygen> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Related Pages

HTML DOM reference: [Keygen Object](http://www.w3schools.com/jsref/dom_obj_keygen.asp)

## Default CSS Settings

None.

# HTML <label> Tag

[« Previous](http://www.w3schools.com/tags/tag_keygen.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_legend.asp)

### Example

Two radio buttons with labels:

<form action="demo\_form.asp">  
  <label for="male">Male</label>  
  <input type="radio" name="sex" id="male" value="male"><br>  
  <label for="female">Female</label>  
  <input type="radio" name="sex" id="female" value="female"><br>  
  <input type="submit" value="Submit">  
</form>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_label)

## Definition and Usage

The <label> tag defines a label for an <input> element.

The <label> element does not render as anything special for the user. However, it provides a usability improvement for mouse users, because if the user clicks on the text within the <label> element, it toggles the control.

The for attribute of the <label> tag should be equal to the id attribute of the related element to bind them together.

## Browser Support

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <label> | Yes | Yes | Yes | Yes | Yes | Yes |

## Tips and Notes

**Tip:** A label can be bound to an element either by using the "for" attribute, or by placing the element inside the <label> element.

## Differences Between HTML 4.01 and HTML5

The "form" attribute is new in HTML5.

## Attributes

= New in HTML5.

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| [for](http://www.w3schools.com/tags/att_label_for.asp) | *element\_id* | Specifies which form element a label is bound to |
| [form](http://www.w3schools.com/tags/att_label_form.asp) | *form\_id* | Specifies one or more forms the label belongs to |

## Global Attributes

The <label> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <label> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Related Pages

HTML DOM reference: [Label Object](http://www.w3schools.com/jsref/dom_obj_label.asp)

## Default CSS Settings

Most browsers will display the <label> element with the following default values:

### Example

label {  
    cursor: default;  
}

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_label_default_css)

# HTML <legend> Tag

[« Previous](http://www.w3schools.com/tags/tag_label.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_li.asp)

### Example

Group related elements in a form:

<form>  
  <fieldset>  
    <legend>Personalia:</legend>  
    Name: <input type="text" size="30"><br>  
    Email: <input type="text" size="30"><br>  
    Date of birth: <input type="text" size="10">  
  </fieldset>  
</form>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_fieldset)

## Definition and Usage

The <legend> tag defines a caption for the [<fieldset>](http://www.w3schools.com/tags/tag_fieldset.asp) element.

## Browser Support

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <legend> | Yes | Yes | Yes | Yes | Yes | Yes |

## Differences Between HTML 4.01 and HTML5

The "align" attribute is not supported in HTML5.

## Attributes

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| [align](http://www.w3schools.com/tags/att_legend_align.asp) | top bottom left right | Not supported in HTML5. Specifies the alignment of the caption |

## Global Attributes

The <legend> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <legend> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Related Pages

HTML DOM reference: [Legend Object](http://www.w3schools.com/jsref/dom_obj_legend.asp)

## Default CSS Settings

Most browsers will display the <legend> element with the following default values:

### Example

legend {  
    display: block;  
    padding-left: 2px;  
    padding-right: 2px;  
    border: none;  
}

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_legend_default_css)

# HTML <li> Tag

[« Previous](http://www.w3schools.com/tags/tag_legend.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_link.asp)

### Example

One ordered (<ol>) and one unordered (<ul>) HTML list:

<ol>  
  <li>Coffee</li>  
  <li>Tea</li>  
  <li>Milk</li>  
</ol>  
  
<ul>  
  <li>Coffee</li>  
  <li>Tea</li>  
  <li>Milk</li>  
</ul>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_list_test)

More "Try it Yourself" examples below.

## Definition and Usage

The <li> tag defines a list item.

The <li> tag is used in ordered lists([<ol>](http://www.w3schools.com/tags/tag_ol.asp)), unordered lists ([<ul>](http://www.w3schools.com/tags/tag_ul.asp)), and in menu lists ([<menu>](http://www.w3schools.com/tags/tag_menu.asp)).

## Browser Support

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <li> | Yes | Yes | Yes | Yes | Yes | Yes |

## Differences Between HTML 4.01 and HTML5

The "type" attribute is NOT supported in HTML5.

The "value" attribute was [deprecated](javascript:NewWindow('deprecated.htm')) in HTML 4.01, but IS supported in HTML5.

## Tips and Notes

**Tip:** Use CSS to define the type of list**.**

## Attributes

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| [type](http://www.w3schools.com/tags/att_li_type.asp) | 1 A a I i disc square circle | Not supported in HTML5. Specifies which kind of bullet point will be used |
| [value](http://www.w3schools.com/tags/att_li_value.asp) | *number* | Specifies the value of a list item. The following list items will increment from that number (only for <ol> lists) |

## Global Attributes

The <li> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <li> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

Examples

## Try it Yourself - Examples

[A nested list](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_lists2)  
A list inside a list.

[Another nested list](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_nestedlists2)  
A more complicated nested list.

## Related Pages

HTML tutorial: [HTML Lists](http://www.w3schools.com/html/html_lists.asp)

HTML DOM reference: [Li Object](http://www.w3schools.com/jsref/dom_obj_li.asp)

## Default CSS Settings

Most browsers will display the <li> element with the following default values:

li {  
    display: list-item;  
}

# HTML <link> Tag

[« Previous](http://www.w3schools.com/tags/tag_li.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_main.asp)

### Example

Link to an external style sheet:

<head>  
<link rel="stylesheet" type="text/css" href="theme.css">  
</head>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_link_tag)

## Definition and Usage

The <link> tag defines a link between a document and an external resource.

The <link> tag is used to link to external style sheets.

## Browser Support

When used for style sheets, the <link> tag is supported in all major browsers. No real support for anything else.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <link> | Yes | Yes | Yes | Yes | Yes | Yes |

**Note:** The <link> element is an empty element, it contains attributes only.

**Note:** This element goes only in the head section, but it can appear any number of times.

## Differences Between HTML 4.01 and HTML5

Some HTML 4.01 attributes are not supported in HTML5.

The "sizes" attribute is new in HTML5.

## Differences Between HTML and XHTML

In HTML the <link> tag has no end tag.

In XHTML the <link> tag must be properly closed.

## Attributes

= New in HTML5.

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| [charset](http://www.w3schools.com/tags/att_link_charset.asp) | *char\_encoding* | Not supported in HTML5. Specifies the character encoding of the linked document |
| crossorigin | anonymous use-credentials | Specifies how the element handles cross-origin requests |
| [href](http://www.w3schools.com/tags/att_link_href.asp) | *URL* | Specifies the location of the linked document |
| [hreflang](http://www.w3schools.com/tags/att_link_hreflang.asp) | *language\_code* | Specifies the language of the text in the linked document |
| [media](http://www.w3schools.com/tags/att_link_media.asp) | media\_query | Specifies on what device the linked document will be displayed |
| [rel](http://www.w3schools.com/tags/att_link_rel.asp) | alternate archives author bookmark external first help icon last license next nofollow noreferrer pingback prefetch prev search sidebar stylesheet tag up | Required. Specifies the relationship between the current document and the linked document |
| [rev](http://www.w3schools.com/tags/att_link_rev.asp) | *reversed relationship* | Not supported in HTML5. Specifies the relationship between the linked document and the current document |
| [sizes](http://www.w3schools.com/tags/att_link_sizes.asp) | *Height*x*Width* any | Specifies the size of the linked resource. Only for rel="icon" |
| [target](http://www.w3schools.com/tags/att_link_target.asp) | \_blank \_self \_top \_parent *frame\_name* | Not supported in HTML5. Specifies where the linked document is to be loaded |
| [type](http://www.w3schools.com/tags/att_link_type.asp) | media\_type | Specifies the media type of the linked document |

## Global Attributes

The <link> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <link> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Related Pages

HTML tutorial: [HTML Styles](http://www.w3schools.com/html/html_css.asp)

HTML DOM reference: [Link Object](http://www.w3schools.com/jsref/dom_obj_link.asp)

## Default CSS Settings

Most browsers will display the <link> element with the following default values:

link {  
    display: none;  
}

# HTML <main> Tag

[« Previous](http://www.w3schools.com/tags/tag_link.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_map.asp)

### Example

<main>  
  <h1>Web Browsers</h1>  
  <p>Google Chrome, Firefox, and Internet Explorer are the most used browsers today.</p>  
  
  <article>  
    <h1>Google Chrome</h1>  
    <p>Google Chrome is a free, open-source web browser developed by Google,  
    released in 2008.</p>  
  </article>  
  
  <article>  
    <h1>Internet Explorer</h1>  
    <p>Internet Explorer is a free web browser from Microsoft, released in 1995.</p>  
  </article>  
  
  <article>  
    <h1>Mozilla Firefox</h1>  
    <p>Firefox is a free, open-source web browser from Mozilla, released in 2004.</p>  
  </article>  
</main>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml5_main)

## Definition and Usage

The <main> tag specifies the main content of a document.

The content inside the <main> element should be unique to the document. It should not contain any content that is repeated across documents such as sidebars, navigation links, copyright information, site logos, and search forms.

**Note:** There must not be more than one <main> element in a document. The <main> element must NOT be a descendant of an <article>, <aside>, <footer>, <header>, or <nav> element.

## Browser Support

The numbers in the table specify the first browser version that fully supports the element.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <main> | 6.0 | 12.0 | Not supported | 4.0 | 5.0 | 11.1 |

## Differences Between HTML 4.01 and HTML5

The <main> tag is new in HTML5.

## Global Attributes

The <main> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <main> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

# HTML <map> Tag

[« Previous](http://www.w3schools.com/tags/tag_main.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_mark.asp)

### Example

An image-map, with clickable areas:

<img src="planets.gif" width="145" height="126" alt="Planets" usemap="#planetmap">  
  
<map name="planetmap">  
  <area shape="rect" coords="0,0,82,126" href="sun.htm" alt="Sun">  
  <area shape="circle" coords="90,58,3" href="mercur.htm" alt="Mercury">  
  <area shape="circle" coords="124,58,8" href="venus.htm" alt="Venus">  
</map>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_areamap)

## Definition and Usage

The <map> tag is used to define a client-side image-map. An image-map is an image with clickable areas.

The required name attribute of the <map> element is associated with the <img>'s usemap attribute and creates a relationship between the image and the map.

The <map> element contains a number of [<area>](http://www.w3schools.com/tags/tag_area.asp) elements, that defines the clickable areas in the image map.

## Browser Support

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <map> | Yes | Yes | Yes | Yes | Yes | Yes |

## Differences Between HTML 4.01 and HTML5

**Note:** In HTML5, if the id attribute of the <map> tag is also specified, it must have the same value as the name attribute.

## Differences Between HTML and XHTML

In XHTML, the name attribute is deprecated, and will be removed. Use the [global id attribute](http://www.w3schools.com/tags/ref_standardattributes.asp) instead.

## Attributes

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| [name](http://www.w3schools.com/tags/att_map_name.asp) | *mapname* | Required. Specifies the name of an image-map |

## Global Attributes

The <map> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <map> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Related Pages

HTML DOM reference: [Map Object](http://www.w3schools.com/jsref/dom_obj_map.asp)

## Default CSS Settings

Most browsers will display the <map> element with the following default values:

map {  
    display: inline;  
}

# HTML <mark> Tag

[« Previous](http://www.w3schools.com/tags/tag_map.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_menu.asp)

### Example

Highlight parts of a text:

<p>Do not forget to buy <mark>milk</mark> today.</p>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml5_mark)

## Definition and Usage

The <mark> tag defines marked text.

Use the <mark> tag if you want to highlight parts of your text.

## Browser Support

The numbers in the table specify the first browser version that fully supports the element.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <mark> | 6.0 | 12.0 | 9.0 | 4.0 | 5.0 | 11.1 |

## Differences Between HTML 4.01 and HTML5

The <mark> tag is new in HTML5.

## Global Attributes

The <mark> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <mark> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Related Pages

HTML tutorial: [HTML Text Formatting](http://www.w3schools.com/html/html_formatting.asp)

HTML DOM reference: [Mark Object](http://www.w3schools.com/jsref/dom_obj_mark.asp)

## Default CSS Settings

Most browsers will display the <mark> element with the following default values:

### Example

mark {  
    background-color: yellow;  
    color: black;  
}

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml5_mark_default_css)

# HTML <menu> Tag

[« Previous](http://www.w3schools.com/tags/tag_mark.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_menuitem.asp)

### Example

A context menu with different <menuitem> elements:

<menu type="context" id="mymenu">  
  <menuitem label="Refresh" onclick="window.location.reload();" icon="ico\_reload.png">  
  </menuitem>  
  <menu label="Share on...">  
    <menuitem label="Twitter" icon="ico\_twitter.png"  
    onclick="window.open('//twitter.com/intent/tweet?text='+window.location.href);">  
    </menuitem>  
    <menuitem label="Facebook" icon="ico\_facebook.png"  
    onclick="window.open('//facebook.com/sharer/sharer.php?u='+window.location.href);">  
    </menuitem>  
  </menu>  
  <menuitem label="Email This Page"  
  onclick="window.location='mailto:?body='+window.location.href;"></menuitem>  
</menu>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml5_menuitem)

## Definition and Usage

The <menu> tag defines a list/menu of commands.

The <menu> tag is used for context menus, toolbars and for listing form controls and commands.

## Browser Support

The numbers in the table specify the first browser version that fully supports the element.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |
| <menu> | Not supported | Not supported | 8.0 (only context menus) | Not supported | Not supported |

## Tips and Notes

**Tip:** Use CSS to style menu lists.

## Differences Between HTML 4.01 and HTML5

The <menu> element was [deprecated](javascript:NewWindow('deprecated.htm')) in HTML 4.01.

The <menu> element is redefined in HTML5.

## Attributes

= New in HTML5.

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| [label](http://www.w3schools.com/tags/att_menu_label.asp) | *text* | Specifies a visible label for the menu |
| [type](http://www.w3schools.com/tags/att_menu_type.asp) | popup toolbar context | Specifies which type of menu to display |

## Global Attributes

The <menu> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <menu> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Related Pages

HTML DOM reference: [Menu Object](http://www.w3schools.com/jsref/dom_obj_menu.asp)

## Default CSS Settings

Most browsers will display the <menu> element with the following default values:

menu {  
    display: block;  
    list-style-type: disc;  
    margin-top: 1em;  
    margin-bottom: 1em;  
    margin-left: 0;  
    margin-right: 0;  
    padding-left: 40px;  
}

# HTML <menuitem> Tag

[« Previous](http://www.w3schools.com/tags/tag_menu.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_meta.asp)

### Example

A context menu with different <menuitem> elements:

<menu type="context" id="mymenu">  
  <menuitem label="Refresh" onclick="window.location.reload();" icon="ico\_reload.png">  
  </menuitem>  
  <menu label="Share on...">  
    <menuitem label="Twitter" icon="ico\_twitter.png"  
    onclick="window.open('//twitter.com/intent/tweet?text='+window.location.href);">  
    </menuitem>  
    <menuitem label="Facebook" icon="ico\_facebook.png"  
    onclick="window.open('//facebook.com/sharer/sharer.php?u='+window.location.href);">  
    </menuitem>  
  </menu>  
  <menuitem label="Email This Page"  
  onclick="window.location='mailto:?body='+window.location.href;"></menuitem>  
</menu>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml5_menuitem)

## Definition and Usage

The <menuitem> tag defines a command/menu item that the user can invoke from a popup menu.

## Browser Support

The numbers in the table specify the first browser version that fully supports the element.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <menuitem> | Not supported | Not supported | Not supported | 8.0 (for context menus) | Not supported | Not supported |

## Differences Between HTML 4.01 and HTML5

The <menuitem> tag is new in HTML5.

## Attributes

= New in HTML5.

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| [checked](http://www.w3schools.com/tags/att_menuitem_checked.asp) | checked | Specifies that the command/menu item should be checked when the page loads. Only for type="radio" or type="checkbox" |
| command |  |  |
| [default](http://www.w3schools.com/tags/att_menuitem_default.asp) | default | Marks the command/menu item as being a default command |
| [disabled](http://www.w3schools.com/tags/att_menuitem_disabled.asp) | disabled | Specifies that the command/menu item should be disabled |
| [icon](http://www.w3schools.com/tags/att_menuitem_icon.asp) | *URL* | Specifies an icon for the command/menu item |
| [label](http://www.w3schools.com/tags/att_menuitem_label.asp) | *text* | Required. Specifies the name of the command/menu item, as shown to the user |
| [radiogroup](http://www.w3schools.com/tags/att_menuitem_radiogroup.asp) | *groupname* | Specifies the name of the group of commands that will be toggled when the command/menu item itself is toggled. Only for type="radio" |
| [type](http://www.w3schools.com/tags/att_menuitem_type.asp) | checkbox command radio | Specifies the type of command/menu item. Default is "command" |

## Global Attributes

The <menuitem> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <menuitem> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Related Pages

HTML DOM reference: [MenuItem Object](http://www.w3schools.com/jsref/dom_obj_menuitem.asp)

# HTML <meta> Tag

[« Previous](http://www.w3schools.com/tags/tag_menuitem.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_meter.asp)

### Example

Describe metadata within an HTML document:

<head>  
<meta charset="UTF-8">  
<meta name="description" content="Free Web tutorials">  
<meta name="keywords" content="HTML,CSS,XML,JavaScript">  
<meta name="author" content="Hege Refsnes">  
</head>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_meta)

## Definition and Usage

Metadata is data (information) about data.

The <meta> tag provides metadata about the HTML document. Metadata will not be displayed on the page, but will be machine parsable.

Meta elements are typically used to specify page description, keywords, author of the document, last modified, and other metadata.

The metadata can be used by browsers (how to display content or reload page), search engines (keywords), or other web services.

## Browser Support

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <meta> | Yes | Yes | Yes | Yes | Yes | Yes |

## Tips and Notes

**Note:** <meta> tags always goes inside the <head> element.

**Note:** Metadata is always passed as name/value pairs.

**Note:** The content attribute MUST be defined if the name or the http-equiv attribute is defined. If none of these are defined, the content attribute CANNOT be defined.

## Differences Between HTML 4.01 and HTML5

The scheme attribute is not supported in HTML5.

HTML5 has a new attribute, charset, which makes it easier to define charset:

* HTML 4.01: <meta http-equiv="content-type" content="text/html; charset=UTF-8">
* HTML5: <meta charset="UTF-8">

## Differences Between HTML and XHTML

In HTML the <meta> tag has no end tag.

In XHTML the <meta> tag must be properly closed.

## Examples

**Example 1 - Define keywords for search engines:**

<meta name="keywords" content="HTML, CSS, XML, XHTML, JavaScript">

**Example 2 - Define a description of your web page:**

<meta name="description" content="Free Web tutorials on HTML and CSS">

**Example 3 - Define the author of a page:**

<meta name="author" content="Hege Refsnes">

**Example 4 - Refresh document every 30 seconds:**

<meta http-equiv="refresh" content="30">

## Attributes

= New in HTML5.

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| [charset](http://www.w3schools.com/tags/att_meta_charset.asp) | *character\_set* | Specifies the character encoding for the HTML document |
| [content](http://www.w3schools.com/tags/att_meta_content.asp) | *text* | Gives the value associated with the http-equiv or name attribute |
| [http-equiv](http://www.w3schools.com/tags/att_meta_http_equiv.asp) | content-type default-style refresh | Provides an HTTP header for the information/value of the content attribute |
| [name](http://www.w3schools.com/tags/att_meta_name.asp) | application-name author description generatorkeywords | Specifies a name for the metadata |
| [scheme](http://www.w3schools.com/tags/att_meta_scheme.asp) | *format/URI* | Not supported in HTML5. Specifies a scheme to be used to interpret the value of the content attribute |

## Global Attributes

The <meta> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Related Pages

HTML tutorial: [HTML Head](http://www.w3schools.com/html/html_head.asp)

HTML DOM reference: [Meta Object](http://www.w3schools.com/jsref/dom_obj_meta.asp)

## Default CSS Settings

None.

# HTML <meter> Tag

[« Previous](http://www.w3schools.com/tags/tag_meta.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_nav.asp)

### Example

Use the meter element to measure data within a given range (a gauge):

<meter value="2" min="0" max="10">2 out of 10</meter><br>  
<meter value="0.6">60%</meter>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml5_meter)

## Definition and Usage

The <meter> tag defines a scalar measurement within a known range, or a fractional value. This is also known as a gauge.

Examples: Disk usage, the relevance of a query result, etc.

**Note:** The <meter> tag should not be used to indicate progress (as in a progress bar). For progress bars, use the [<progress>](http://www.w3schools.com/tags/tag_progress.asp) tag.

## Browser Support

The numbers in the table specify the first browser version that fully supports the element.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <meter> | 8.0 | 13.0 | Not supported | 6.0 | 6.0 | 11.0 |

## Differences Between HTML 4.01 and HTML5

The <meter> tag is new in HTML5.

## Attributes

= New in HTML5.

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| [form](http://www.w3schools.com/tags/att_meter_form.asp) | *form\_id* | Specifies one or more forms the <meter> element belongs to |
| [high](http://www.w3schools.com/tags/att_meter_high.asp) | *number* | Specifies the range that is considered to be a high value |
| [low](http://www.w3schools.com/tags/att_meter_low.asp) | *number* | Specifies the range that is considered to be a low value |
| [max](http://www.w3schools.com/tags/att_meter_max.asp) | *number* | Specifies the maximum value of the range |
| [min](http://www.w3schools.com/tags/att_meter_min.asp) | *number* | Specifies the minimum value of the range |
| [optimum](http://www.w3schools.com/tags/att_meter_optimum.asp) | *number* | Specifies what value is the optimal value for the gauge |
| [value](http://www.w3schools.com/tags/att_meter_value.asp) | *number* | Required. Specifies the current value of the gauge |

## Global Attributes

The <meter> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <meter> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Related Pages

HTML DOM reference: [Meter Object](http://www.w3schools.com/jsref/dom_obj_meter.asp)

## Default CSS Settings

None.

# HTML <nav> Tag

[« Previous](http://www.w3schools.com/tags/tag_meter.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_noframes.asp)

### Example

A set of navigation links:

<nav>  
  <a href="/html/">HTML</a> |  
  <a href="/css/">CSS</a> |  
  <a href="/js/">JavaScript</a> |  
  <a href="/jquery/">jQuery</a>  
</nav>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml5_nav)

## Definition and Usage

The <nav> tag defines a set of navigation links.

Notice that NOT all links of a document should be inside a <nav> element. The <nav> element is intended only for major block of **navigation links**.

Browsers, such as screen readers for disabled users, can use this element to determine whether to omit the initial rendering of this content.

## Browser Support

The numbers in the table specify the first browser version that fully supports the element.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <nav> | 6.0 | 12.0 | 9.0 | 4.0 | 5.0 | 11.1 |

## Differences Between HTML 4.01 and HTML5

The <nav> tag is new in HTML5.

## Global Attributes

The <nav> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <nav> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Related Pages

HTML DOM reference: [Nav Object](http://www.w3schools.com/jsref/dom_obj_nav.asp)

## Default CSS Settings

Most browsers will display the <nav> element with the following default values:

nav {  
    display: block;  
}

# HTML <noframes> Tag. Not Supported in HTML5.

[« Previous](http://www.w3schools.com/tags/tag_nav.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_noscript.asp)

### Example

A three-framed page, with a <noframes> tag:

<html>  
  
<frameset cols="25%,50%,25%">  
  <frame src="frame\_a.htm">  
  <frame src="frame\_b.htm">  
  <frame src="frame\_c.htm">  
  <noframes>Sorry, your browser does not handle frames!</noframes>  
</frameset>  
  
</html>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_noframes)

## Definition and Usage

The <noframes> tag is not supported in HTML5.

The <noframes> tag is a fallback tag for browsers that do not support frames. It can contain all the HTML elements that you can find inside the <body> element of a normal HTML page.

The <noframes> element can be used to link to a non-frameset version of the web site or to display a message to users that frames are required.

The <noframes> element goes inside the <frameset> element.

**Note:** If you want to validate a page containing frames, be sure the [<!DOCTYPE>](http://www.w3schools.com/tags/tag_doctype.asp) is set to either "HTML Frameset DTD" or "XHTML Frameset DTD".

## Browser Support

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |
| <noframes> | Yes | Yes | Yes | Yes | Yes |

## Differences Between HTML 4.01 and HTML5

The <noframes> tag is not supported in HTML5.

## Differences Between HTML and XHTML

**Important:** In XHTML Frameset DTD, the **text** in the <noframes> element must be enclosed in a <body> element.

# HTML <noscript> Tag

[« Previous](http://www.w3schools.com/tags/tag_noframes.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_object.asp)

### Example

Use of the <noscript> tag:

<script>  
document.write("Hello World!")  
</script>  
<noscript>Your browser does not support JavaScript!</noscript>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_noscript)

## Definition and Usage

The <noscript> tag defines an alternate content for users that have disabled scripts in their browser or have a browser that doesn't support script.

The <noscript> element can be used in both <head> and <body>.

When used inside the <head> element: <noscript> must contain <link>, <style>, and <meta> elements.

The content inside the <noscript> element will be displayed if scripts are not supported, or are disabled in the user's browser.

## Browser Support

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <noscript> | Yes | Yes | Yes | Yes | Yes | Yes |

## Tips and Notes

**Tip:** It is also a good practice to use the [comment](http://www.w3schools.com/tags/tag_comment.asp) tag to "hide" scripts from browsers without support for client-side scripts (so they don't show them as plain text):

<script>  
<!--  
function displayMsg() {  
    alert("Hello World!")  
}  
//-->  
</script>

## Differences Between HTML 4.01 and HTML5

In HTML 4.01, the <noscript> tag can only be used inside the <body> element.

In HTML5, the <noscript> tag can be used both inside <head> and <body>.

## Differences Between HTML and XHTML

In XHTML, the <noscript> tag is not supported.

## Global Attributes

The <noscript> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Related Pages

HTML tutorial: [HTML Scripts](http://www.w3schools.com/html/html_scripts.asp)

## Default CSS Settings

None.

# HTML <object> Tag

[« Previous](http://www.w3schools.com/tags/tag_noscript.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_ol.asp)

### Example

How to use the <object> element to embed a Flash file:

<object width="400" height="400" data="helloworld.swf"></object>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_object)

## Definition and Usage

The <object> tag defines an embedded object within an HTML document. Use this element to embed multimedia (like audio, video, Java applets, ActiveX, PDF, and Flash) in your web pages.

You can also use the <object> tag to embed another webpage into your HTML document.

You can use the [<param>](http://www.w3schools.com/tags/tag_param.asp) tag to pass parameters to plugins that have been embedded with the <object> tag.

## Browser Support

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <object> | Yes | Yes | Yes | Yes | Yes | Yes |

## Tips and Notes

**Note:** An <object> element must appear inside the <body> element. The text between the <object> and </object> is an alternate text, for browsers that do not support this tag.

**Tip:** For images use the <img> tag instead of the <object> tag.

**Tip:** At least one of the "data" or "type" attribute MUST be defined.

## Differences Between HTML 4.01 and HTML5

Some HTML 4.01 attributes are not supported in HTML5.

The "form" attribute is new in HTML5.

In HTML5, objects can be used and submitted in forms.

In HTML5, objects can no longer appear inside the <head> element of a document.

## Attributes

= New in HTML5.

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| [align](http://www.w3schools.com/tags/att_object_align.asp) | top bottom middle left right | Not supported in HTML5. Specifies the alignment of the <object> element according to surrounding elements |
| archive | *URL* | Not supported in HTML5. A space separated list of URL's to archives. The archives contains resources relevant to the object |
| [border](http://www.w3schools.com/tags/att_object_border.asp) | *pixels* | Not supported in HTML5. Specifies the width of the border around an <object> |
| classid | *class\_ID* | Not supported in HTML5. Defines a class ID value as set in the Windows Registry or a URL |
| codebase | *URL* | Not supported in HTML5. Defines where to find the code for the object |
| codetype | *media\_type* | Not supported in HTML5. The media type of the code referred to by the classid attribute |
| [data](http://www.w3schools.com/tags/att_object_data.asp) | *URL* | Specifies the URL of the resource to be used by the object |
| declare | declare | Not supported in HTML5. Defines that the object should only be declared, not created or instantiated until needed |
| [form](http://www.w3schools.com/tags/att_object_form.asp) | *form\_id* | Specifies one or more forms the object belongs to |
| [height](http://www.w3schools.com/tags/att_object_height.asp) | *pixels* | Specifies the height of the object |
| [hspace](http://www.w3schools.com/tags/att_object_hspace.asp) | *pixels* | Not supported in HTML5. Specifies the whitespace on left and right side of an object |
| [name](http://www.w3schools.com/tags/att_object_name.asp) | *name* | Specifies a name for the object |
| standby | *text* | Not supported in HTML5. Defines a text to display while the object is loading |
| [type](http://www.w3schools.com/tags/att_object_type.asp) | *media\_type* | Specifies the media type of data specified in the data attribute |
| [usemap](http://www.w3schools.com/tags/att_object_usemap.asp) | #mapname | Specifies the name of a client-side image map to be used with the object |
| [vspace](http://www.w3schools.com/tags/att_object_vspace.asp) | *pixels* | Not supported in HTML5. Specifies the whitespace on top and bottom of an object |
| [width](http://www.w3schools.com/tags/att_object_width.asp) | *pixels* | Specifies the width of the object |

## Global Attributes

The <object> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <object> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Related Pages

HTML tutorial: [HTML Object Element](http://www.w3schools.com/html/html_object.asp)

HTML DOM reference: [Object Object](http://www.w3schools.com/jsref/dom_obj_object.asp)

## Default CSS Settings

Most browsers will display the <object> element with the following default values:

object:focus {  
    outline: none;  
}

# HTML <ol> Tag

[« Previous](http://www.w3schools.com/tags/tag_object.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_optgroup.asp)

### Example

2 different ordered lists:

<ol>  
  <li>Coffee</li>  
  <li>Tea</li>  
  <li>Milk</li>  
</ol>  
  
<ol start="50">  
  <li>Coffee</li>  
  <li>Tea</li>  
  <li>Milk</li>  
</ol>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_lists)

## Definition and Usage

The <ol> tag defines an ordered list. An ordered list can be numerical or alphabetical.

Use the [<li>](http://www.w3schools.com/tags/tag_li.asp) tag to define list items.

## Browser Support

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <ol> | Yes | Yes | Yes | Yes | Yes | Yes |

## Tips and Notes

**Tip:** For unordered list, use the [<ul>](http://www.w3schools.com/tags/tag_ul.asp) tag.

**Tip:** Use CSS to style lists.

## Differences Between HTML 4.01 and HTML5

The "start" and "type" attributes were [deprecated](javascript:NewWindow('deprecated.htm')) in HTML 4.01, but IS supported in HTML5.

The "reversed" attribute is new in HTML5.

The "compact" attribute is not supported in HTML5.

## Attributes

= New in HTML5.

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| [compact](http://www.w3schools.com/tags/att_ol_compact.asp) | compact | Not supported in HTML5. Specifies that the list should render smaller than normal |
| [reversed](http://www.w3schools.com/tags/att_ol_reversed.asp) | reversed | Specifies that the list order should be descending (9,8,7...) |
| [start](http://www.w3schools.com/tags/att_ol_start.asp) | *number* | Specifies the start value of an ordered list |
| [type](http://www.w3schools.com/tags/att_ol_type.asp) | 1 A a I i | Specifies the kind of marker to use in the list |

## Global Attributes

The <ol> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <ol> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Related Pages

HTML tutorial: [HTML Lists](http://www.w3schools.com/html/html_lists.asp)

HTML DOM reference: [Ol Object](http://www.w3schools.com/jsref/dom_obj_ol.asp)

## Default CSS Settings

Most browsers will display the <ol> element with the following default values:

### Example

ol {  
    display: block;  
    list-style-type: decimal;  
    margin-top: 1em;  
    margin-bottom: 1em;  
    margin-left: 0;  
    margin-right: 0;  
    padding-left: 40px;  
}

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_ol_default_css)

# HTML <optgroup> Tag

[« Previous](http://www.w3schools.com/tags/tag_ol.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_option.asp)

### Example

Group related options with <optgroup> tags:

<select>  
  <optgroup label="Swedish Cars">  
    <option value="volvo">Volvo</option>  
    <option value="saab">Saab</option>  
  </optgroup>  
  <optgroup label="German Cars">  
    <option value="mercedes">Mercedes</option>  
    <option value="audi">Audi</option>  
  </optgroup>  
</select>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_optgroup)

## Definition and Usage

The <optgroup> is used to group related options in a drop-down list.

If you have a long list of options, groups of related options are easier to handle for a user.

## Browser Support

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <optgroup> | Yes | Yes | Yes | Yes | Yes | Yes |

## Differences Between HTML 4.01 and HTML5

NONE.

## Attributes

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| [disabled](http://www.w3schools.com/tags/att_optgroup_disabled.asp) | disabled | Specifies that an option-group should be disabled |
| [label](http://www.w3schools.com/tags/att_optgroup_label.asp) | *text* | Specifies a label for an option-group |

## Global Attributes

The <optgroup> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <optgroup> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Related Pages

HTML DOM reference: [OptionGroup Object](http://www.w3schools.com/jsref/dom_obj_optgroup.asp)

## Default CSS Settings

None.

# HTML <option> Tag

[« Previous](http://www.w3schools.com/tags/tag_optgroup.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_output.asp)

### Example

A drop-down list with four options:

<select>  
  <option value="volvo">Volvo</option>  
  <option value="saab">Saab</option>  
  <option value="opel">Opel</option>  
  <option value="audi">Audi</option>  
</select>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_option)

## Definition and Usage

The <option> tag defines an option in a select list.

<option> elements go inside a [<select>](http://www.w3schools.com/tags/tag_select.asp) or [<datalist>](http://www.w3schools.com/tags/tag_datalist.asp) element.

## Browser Support

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <option> | Yes | Yes | Yes | Yes | Yes | Yes |

## Tips and Notes

**Note:** The <option> tag can be used without any attributes, but you usually need the **value** attribute, which indicates what is sent to the server.

**Tip:** If you have a long list of options, you can group related options with the [<optgroup>](http://www.w3schools.com/tags/tag_optgroup.asp) tag.

## Attributes

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| [disabled](http://www.w3schools.com/tags/att_option_disabled.asp) | disabled | Specifies that an option should be disabled |
| [label](http://www.w3schools.com/tags/att_option_label.asp) | *text* | Specifies a shorter label for an option |
| [selected](http://www.w3schools.com/tags/att_option_selected.asp) | selected | Specifies that an option should be pre-selected when the page loads |
| [value](http://www.w3schools.com/tags/att_option_value.asp) | *text* | Specifies the value to be sent to a server |

## Global Attributes

The <option> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <option> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Related Pages

HTML DOM reference: [Option Object](http://www.w3schools.com/jsref/dom_obj_option.asp)

## Default CSS Settings

None.

# HTML <output> Tag

[« Previous](http://www.w3schools.com/tags/tag_option.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_p.asp)

### Example

Perform a calculation and show the result in an <output> element:

<form oninput="x.value=parseInt(a.value)+parseInt(b.value)">0  
  <input type="range" id="a" value="50">100  
  +<input type="number" id="b" value="50">  
  =<output name="x" for="a b"></output>  
</form>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml5_output)

## Definition and Usage

The <output> tag represents the result of a calculation (like one performed by a script).

## Browser Support

The numbers in the table specify the first browser version that fully supports the element.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |
| <output> | 10.0 | Not supported | 4.0 | 5.1 | 11.0 |

## Differences Between HTML 4.01 and HTML5

The <output> tag is new in HTML5.

## Attributes

= New in HTML5.

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| [for](http://www.w3schools.com/tags/att_output_for.asp) | *element\_id* | Specifies the relationship between the result of the calculation, and the elements used in the calculation |
| [form](http://www.w3schools.com/tags/att_output_form.asp) | *form\_id* | Specifies one or more forms the output element belongs to |
| [name](http://www.w3schools.com/tags/att_output_name.asp) | *name* | Specifies a name for the output element |

## Global Attributes

The <output> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <output> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Related Pages

HTML DOM reference: [Output Object](http://www.w3schools.com/jsref/dom_obj_output.asp)

## Default CSS Settings

Most browsers will display the <output> element with the following default values:

output {  
    display: inline;  
}

# HTML <p> Tag

[« Previous](http://www.w3schools.com/tags/tag_output.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_param.asp)

### Example

A paragraph is marked up as follows:

<p>This is some text in a paragraph.</p>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_paragraphs1)

More "Try it Yourself" examples below.

## Definition and Usage

The <p> tag defines a paragraph.

Browsers automatically add some space (margin) before and after each <p> element. The margins can be modified with CSS (with the margin properties).

## Browser Support

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <p> | Yes | Yes | Yes | Yes | Yes | Yes |

## Differences Between HTML 4.01 and HTML5

The align attribute is not supported in HTML5.

## Attributes

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| [align](http://www.w3schools.com/tags/att_p_align.asp) | left right center justify | Not supported in HTML5. Specifies the alignment of the text within a paragraph |

## Global Attributes

The <p> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <p> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

Examples

## Try it Yourself - Examples

[More paragraphs](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_paragraphs2)  
Some default behaviors of paragraphs.

[Poem problems](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_poem)  
Examples of how you can NOT write a poem in HTML.

## Related Pages

HTML tutorial: [HTML Paragraphs](http://www.w3schools.com/html/html_paragraphs.asp)

HTML DOM reference: [Paragraph Object](http://www.w3schools.com/jsref/dom_obj_paragraph.asp)

## Default CSS Settings

Most browsers will display the <p> element with the following default values:

### Example

p {  
    display: block;  
    margin-top: 1em;  
    margin-bottom: 1em;  
    margin-left: 0;  
    margin-right: 0;  
}

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_p_default_css)

# HTML <param> Tag

[« Previous](http://www.w3schools.com/tags/tag_p.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_pre.asp)

### Example

Set the "autoplay" parameter to "true", so the sound will start playing as soon as the page loads:

<object data="horse.wav">  
  <param name="autoplay" value="true">  
</object>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_param)

## Definition and Usage

The <param> tag is used to define parameters for plugins embedded with an [<object>](http://www.w3schools.com/tags/tag_object.asp) element.

**Tip:** HTML 5 also includes two new elements for playing audio or video: The [<audio>](http://www.w3schools.com/tags/tag_audio.asp) and [<video>](http://www.w3schools.com/tags/tag_video.asp) tags.

## Browser Support

The <param> tag is supported in all major browsers. However, the file format defined in <object> may not be supported in all browsers.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <param> | Yes | Yes | Yes | Yes | Yes | Yes |

## Differences Between HTML 4.01 and HTML5

The "type" and "valuetype" attributes are not supported in HTML5.

## Differences Between HTML and XHTML

In HTML the <param> tag has no end tag.

In XHTML the <param> tag must be properly closed, like this <param />.

## Attributes

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| [name](http://www.w3schools.com/tags/att_param_name.asp) | *name* | Specifies the name of a parameter |
| type | *media\_type* | Not supported in HTML5. Specifies the media type of the parameter |
| [value](http://www.w3schools.com/tags/att_param_value.asp) | *value* | Specifies the value of the parameter |
| valuetype | data ref object | Not supported in HTML5. Specifies the type of the value |

## Global Attributes

The <param> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <param> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Related Pages

HTML DOM reference: [Parameter Object](http://www.w3schools.com/jsref/dom_obj_param.asp)

## Default CSS Settings

Most browsers will display the <param> element with the following default values:

param {  
    display: none;  
}

# HTML <pre> Tag

[« Previous](http://www.w3schools.com/tags/tag_param.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_progress.asp)

### Example

Preformatted text:

<pre>  
Text in a pre element  
is displayed in a fixed-width  
font, and it preserves  
both      spaces and  
line breaks  
</pre>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_pre)

## Definition and Usage

The <pre> tag defines preformatted text.

Text in a <pre> element is displayed in a fixed-width font (usually Courier), and it preserves both spaces and line breaks.

## Browser Support

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <pre> | Yes | Yes | Yes | Yes | Yes | Yes |

## Tips and Notes

**Tip:** Use the <pre> element when displaying text with unusual formatting, or some sort of computer code.

## Differences Between HTML 4.01 and HTML5

The "width" attribute is not supported in HTML5.

## Attributes

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| [width](http://www.w3schools.com/tags/att_pre_width.asp) | *number* | Not supported in HTML5. Specifies the maximum number of characters per line |

## Global Attributes

The <pre> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <pre> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Related Pages

HTML Tutorial: [HTML Text Formatting](http://www.w3schools.com/html/html_formatting.asp)

HTML DOM reference: [Pre Object](http://www.w3schools.com/jsref/dom_obj_pre.asp)

## Default CSS Settings

Most browsers will display the <pre> element with the following default values:

### Example

pre {  
    display: block;  
    font-family: monospace;  
    white-space: pre;  
    margin: 1em 0;  
}

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_pre_default_css)

# HTML <progress> Tag

[« Previous](http://www.w3schools.com/tags/tag_pre.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_q.asp)

### Example

Downloading in progress:

<progress value="22" max="100"></progress>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml5_progress)

## Definition and Usage

The <progress> tag represents the progress of a task.

## Browser Support

The numbers in the table specify the first browser version that fully supports the element.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <progress> | 8.0 | 12.0 | 10.0 | 16.0 | 6.0 | 11.0 |

## Differences Between HTML 4.01 and HTML5

The <progress> tag is new in HTML5.

## Tips and Notes

**Tip:** Use the <progress> tag in conjunction with JavaScript to display the progress of a task.

**Note**: The <progress> tag is not suitable for representing a gauge (e.g. disk space usage or relevance of a query result). To represent a gauge, use the [<meter>](http://www.w3schools.com/tags/tag_meter.asp) tag instead.

## Attributes

= New in HTML5.

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| [max](http://www.w3schools.com/tags/att_progress_max.asp) | *number* | Specifies how much work the task requires in total |
| [value](http://www.w3schools.com/tags/att_progress_value.asp) | *number* | Specifies how much of the task has been completed |

## Global Attributes

The <progress> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <progress> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Related Pages

HTML DOM reference: [Progress Object](http://www.w3schools.com/jsref/dom_obj_progress.asp)

## Default CSS Settings

None.

# HTML <q> Tag

[« Previous](http://www.w3schools.com/tags/tag_progress.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_rp.asp)

### Example

Mark up a short quotation:

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

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_q)

## Definition and Usage

The <q> tag defines a short quotation.

Browsers normally insert quotation marks around the quotation.

## Browser Support

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <q> | Yes | Yes | Yes | Yes | Yes | Yes |

## Tips and Notes

**Tip:** Use [<blockquote>](http://www.w3schools.com/tags/tag_blockquote.asp) to mark up a section that is quoted from another source.

## Differences Between HTML 4.01 and HTML5

NONE.

## Attributes

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| [cite](http://www.w3schools.com/tags/att_q_cite.asp) | *URL* | Specifies the source URL of the quote |

## Global Attributes

The <q> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <q> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Related Pages

HTML DOM reference: [Quote Object](http://www.w3schools.com/jsref/dom_obj_quote.asp)

## Default CSS Settings

Most browsers will display the <q> element with the following default values:

### Example

q {   
    display: inline;  
}  
  
q:before {   
    content: open-quote;  
}  
  
q:after {   
    content: close-quote;  
}

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_q_default_css)

# HTML <rp> Tag

[« Previous](http://www.w3schools.com/tags/tag_q.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_rt.asp)

### Example

A ruby annotation:

<ruby>  
漢 <rt><rp>(</rp>ㄏㄢˋ<rp>)</rp></rt>  
</ruby>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml5_rp)

## Definition and Usage

The <rp> tag can be used to provide parentheses around a ruby text, to be shown by browsers that do not support ruby annotations.

Use the <rp> tag together with the [<ruby>](http://www.w3schools.com/tags/tag_ruby.asp) and the [<rt>](http://www.w3schools.com/tags/tag_rt.asp) tags: The <ruby> element consists of one or more characters that needs an explanation/pronunciation, and an <rt> element that gives that information, and an optional <rp> element that defines what to show for browsers that not support ruby annotations.

## Browser Support

The numbers in the table specify the first browser version that fully supports the element.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <rp> | 5.0 | 12.0 | 5.5 | 38.0 | 5.0 | 15.0 |

## Differences Between HTML 4.01 and HTML5

The <rp> tag is new in HTML5.

## Global Attributes

The <rp> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <rp> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Default CSS Settings

None.

# HTML <rt> Tag

[« Previous](http://www.w3schools.com/tags/tag_rp.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_ruby.asp)

### Example

A ruby annotation:

<ruby>  
漢 <rt> ㄏㄢˋ </rt>  
</ruby>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml5_ruby)

## Definition and Usage

The <rt> tag defines an explanation or pronunciation of characters (for East Asian typography) in a ruby annotation.

Use the <rt> tag together with the [<ruby>](http://www.w3schools.com/tags/tag_ruby.asp) and the [<rp>](http://www.w3schools.com/tags/tag_rp.asp) tags: The <ruby> element consists of one or more characters that needs an explanation/pronunciation, and an <rt> element that gives that information, and an optional <rp> element that defines what to show for browsers that not support ruby annotations.

## Browser Support

The numbers in the table specify the first browser version that fully supports the element.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <rt> | 5.0 | 12.0 | 5.5 | 38.0 | 5.0 | 15.0 |

## Differences Between HTML 4.01 and HTML5

The <rt> tag is new in HTML5.

## Global Attributes

The <rt> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <rt> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Default CSS Settings

Most browsers will display the <rt> element with the following default values:

rt {  
    line-height: normal;  
}

# HTML <ruby> Tag

[« Previous](http://www.w3schools.com/tags/tag_rt.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_s.asp)

### Example

A ruby annotation:

<ruby>  
漢 <rt> ㄏㄢˋ </rt>  
</ruby>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml5_ruby)

## Definition and Usage

The <ruby> tag specifies a ruby annotation.

A ruby annotation is a small extra text, attached to the main text to indicate the pronunciation or meaning of the corresponding characters. This kind of annotation is often used in Japanese publications.

Use the <ruby> tag together with the [<rt>](http://www.w3schools.com/tags/tag_rt.asp) and/or the [<rp>](http://www.w3schools.com/tags/tag_rp.asp) tags: The <ruby> element consists of one or more characters that needs an explanation/pronunciation, and an <rt> element that gives that information, and an optional <rp> element that defines what to show for browsers that not support ruby annotations.

## Browser Support

The numbers in the table specify the first browser version that fully supports the element.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <ruby> | 5.0 | 12.0 | 5.5 | 38.0 | 5.0 | 15.0 |

## Differences Between HTML 4.01 and HTML5

The <ruby> tag is new in HTML5.

## Global Attributes

The <ruby> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <ruby> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

# HTML <s> Tag

[« Previous](http://www.w3schools.com/tags/tag_ruby.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_samp.asp)

### Example

Mark up text that is no longer correct:

<p><s>My car is blue.</s></p>  
<p>My new car is silver.</p>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml5_s)

## Definition and Usage

The <s> tag specifies text that is no longer correct, accurate or relevant.

The <s> tag should not be used to define replaced or deleted text, use the [<del>](http://www.w3schools.com/tags/tag_del.asp) tag to define replaced or deleted text.

## Browser Support

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <s> | Yes | Yes | Yes | Yes | Yes | Yes |

## Differences Between HTML 4.01 and HTML5

The <s> element was [deprecated](javascript:NewWindow('deprecated.htm')) in HTML 4.01, and was used to define strikethrough text.

The <s> element is redefined in HTML5, and is now used to define text that is no longer correct.

## Global Attributes

The <s> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <s> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Related Pages

HTML tutorial: [HTML Text Formatting](http://www.w3schools.com/html/html_formatting.asp)

HTML DOM reference: [S Object](http://www.w3schools.com/jsref/dom_obj_s.asp)

## Default CSS Settings

Most browsers will display the <s> element with the following default values:

### Example

s {   
    text-decoration: line-through;  
}

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml5_s_default_css)

# HTML <samp> Tag

[« Previous](http://www.w3schools.com/tags/tag_s.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_script.asp)

### Example

Format text in a document:

<samp>Sample output from a computer program</samp>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_phrase_test)

## Definition and Usage

The <samp> tag is a phrase tag. It defines sample output from a computer program.

**Tip:** This tag is not deprecated, but it is possible to achieve richer effect with CSS.

All phrase tags:

|  |  |
| --- | --- |
| **Tag** | **Description** |
| <em> | Renders as emphasized text |
| <strong> | Defines important text |
| <code> | Defines a piece of computer code |
| <samp> | Defines sample output from a computer program |
| <kbd> | Defines keyboard input |
| <var> | Defines a variable |

## Browser Support

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <samp> | Yes | Yes | Yes | Yes | Yes | Yes |

## Differences Between HTML 4.01 and HTML5

NONE.

## Global Attributes

The <samp> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <samp> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Related Pages

HTML tutorial: [HTML Text Formatting](http://www.w3schools.com/html/html_formatting.asp)

HTML DOM reference: [Samp Object](http://www.w3schools.com/jsref/dom_obj_samp.asp)

## Default CSS Settings

Most browsers will display the <samp> element with the following default values:

### Example

samp {   
    font-family: monospace;  
}

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_samp_default_css)

# HTML <script> Tag

[« Previous](http://www.w3schools.com/tags/tag_samp.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_section.asp)

### Example

Write "Hello JavaScript!" with JavaScript:

<script>  
document.getElementById("demo").innerHTML = "Hello JavaScript!";  
</script>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_script)

## Definition and Usage

The <script> tag is used to define a client-side script, such as a JavaScript.

The <script> element either contains scripting statements, or it points to an external script file through the src attribute.

Common uses for JavaScript are image manipulation, form validation, and dynamic changes of content.

## Browser Support

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <script> | Yes | Yes | Yes | Yes | Yes | Yes |

## Tips and Notes

**Note:** If the "src" attribute is present, the <script> element must be empty.

**Tip:** Also look at the [<noscript>](http://www.w3schools.com/tags/tag_noscript.asp) element for users that have disabled scripts in their browser, or have a browser that doesn't support client-side scripting.

**Note:** There are several ways an external script can be executed:

* If async="async": The script is executed asynchronously with the rest of the page (the script will be executed while the page continues the parsing)
* If async is not present and defer="defer": The script is executed when the page has finished parsing
* If neither async or defer is present: The script is fetched and executed immediately, before the browser continues parsing the page

## Differences Between HTML 4.01 and HTML5

The "type" attribute is required in HTML 4, but optional in HTML5.

The "async" attribute is new in HTML5.

The HTML 4.01 attribute: "xml:space", is not supported in HTML5.

## Differences Between HTML and XHTML

In XHTML, the content inside scripts is declared as #PCDATA (instead of CDATA), which means that entities will be parsed.

This means that in XHTML, all special characters should be encoded, or all content should be wrapped inside a CDATA section:

<script type="text/javascript">  
//<![CDATA[  
var i = 10;  
if (i < 5) {  
  // some code  
}  
//]]>  
</script>

## Attributes

= New in HTML5.

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| [async](http://www.w3schools.com/tags/att_script_async.asp) | async | Specifies that the script is executed asynchronously (only for external scripts) |
| [charset](http://www.w3schools.com/tags/att_script_charset.asp) | *charset* | Specifies the character encoding used in an external script file |
| [defer](http://www.w3schools.com/tags/att_script_defer.asp) | defer | Specifies that the script is executed when the page has finished parsing (only for external scripts) |
| [src](http://www.w3schools.com/tags/att_script_src.asp) | *URL* | Specifies the URL of an external script file |
| [type](http://www.w3schools.com/tags/att_script_type.asp) | *media\_type* | Specifies the media type of the script |
| xml:space | preserve | Not supported in HTML5. Specifies whether whitespace in code should be preserved |

## Global Attributes

The <script> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Related Pages

HTML tutorial: [HTML Scripts](http://www.w3schools.com/html/html_scripts.asp)

HTML DOM reference: [Script Object](http://www.w3schools.com/jsref/dom_obj_script.asp)

## Default CSS Settings

Most browsers will display the <script> element with the following default values:

script {  
    display: none;  
}

# HTML <section> Tag

[« Previous](http://www.w3schools.com/tags/tag_script.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_select.asp)

### Example

A section in a document, explaining what WWF is:

<section>  
  <h1>WWF</h1>  
  <p>The World Wide Fund for Nature (WWF) is....</p>  
</section>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml5_section)

## Definition and Usage

The <section> tag defines sections in a document, such as chapters, headers, footers, or any other sections of the document.

## Browser Support

The numbers in the table specify the first browser version that fully supports the element.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <section> | 6.0 | 12.0 | 9.0 | 4.0 | 5.0 | 11.1 |

## Differences Between HTML 4.01 and HTML5

The <section> tag is new in HTML5.

## Global Attributes

The <section> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <section> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Related Pages

HTML DOM reference: [Section Object](http://www.w3schools.com/jsref/dom_obj_section.asp)

## Default CSS Settings

Most browsers will display the <section> element with the following default values:

### Example

section {   
    display: block;  
}

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml5_section_default_css)

# HTML <select> Tag

[« Previous](http://www.w3schools.com/tags/tag_section.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_small.asp)

### Example

Create a drop-down list with four options:

<select>  
  <option value="volvo">Volvo</option>  
  <option value="saab">Saab</option>  
  <option value="mercedes">Mercedes</option>  
  <option value="audi">Audi</option>  
</select>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_select)

## Definition and Usage

The <select> element is used to create a drop-down list.

The [<option>](http://www.w3schools.com/tags/tag_option.asp) tags inside the <select> element define the available options in the list.

## Browser Support

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <select> | Yes | Yes | Yes | Yes | Yes | Yes |

## Tips and Notes

**Tip:** The <select> element is a form control and can be used in a form to collect user input.

## Differences Between HTML 4.01 and HTML5

HTML5 has added some new attributes.

## Attributes

= New in HTML5.

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| [autofocus](http://www.w3schools.com/tags/att_select_autofocus.asp) | autofocus | Specifies that the drop-down list should automatically get focus when the page loads |
| [disabled](http://www.w3schools.com/tags/att_select_disabled.asp) | disabled | Specifies that a drop-down list should be disabled |
| [form](http://www.w3schools.com/tags/att_select_form.asp) | *form\_id* | Defines one or more forms the select field belongs to |
| [multiple](http://www.w3schools.com/tags/att_select_multiple.asp) | multiple | Specifies that multiple options can be selected at once |
| [name](http://www.w3schools.com/tags/att_select_name.asp) | *name* | Defines a name for the drop-down list |
| [required](http://www.w3schools.com/tags/att_select_required.asp) | required | Specifies that the user is required to select a value before submitting the form |
| [size](http://www.w3schools.com/tags/att_select_size.asp) | *number* | Defines the number of visible options in a drop-down list |

## Global Attributes

The <select> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <select> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Related Pages

HTML DOM reference: [Select Object](http://www.w3schools.com/jsref/dom_obj_select.asp)

## Default CSS Settings

None.

# HTML <small> Tag

[« Previous](http://www.w3schools.com/tags/tag_select.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_source.asp)

### Example

Define a smaller text:

<p>W3Schools.com - the world's largest web development site.</p>  
<p><small>Copyright 1999-2050 by Refsnes Data</small></p>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml5_small)

## Definition and Usage

The <small> tag defines smaller text (and other side comments).

## Browser Support

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <small> | Yes | Yes | Yes | Yes | Yes | Yes |

## Differences Between HTML 4.01 and HTML5

NONE.

## Global Attributes

The <small> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <small> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Related Pages

HTML tutorial: [HTML Text Formatting](http://www.w3schools.com/html/html_formatting.asp)

HTML DOM reference: [Small Object](http://www.w3schools.com/jsref/dom_obj_small.asp)

## Default CSS Settings

Most browsers will display the <small> element with the following default values:

### Example

small {   
    font-size: smaller;  
}

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml5_small_default_css)

# HTML <source> Tag

[« Previous](http://www.w3schools.com/tags/tag_small.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_span.asp)

### Example

An audio player with two source files. The browser should choose which file (if any) it has support for:

<audio controls>  
  <source src="horse.ogg" type="audio/ogg">  
  <source src="horse.mp3" type="audio/mpeg">  
  Your browser does not support the audio element.  
</audio>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml5_source_src)

## Definition and Usage

The <source> tag is used to specify multiple media resources for media elements, such as <video> and <audio>.

The <source> tag allows you to specify alternative video/audio files which the browser may choose from, based on its media type or codec support.

## Browser Support

The numbers in the table specify the first browser version that fully supports the element.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <source> | 4.0 | 12.0 | 9.0 | 3.5 | 4.0 | 10.5 |

## Differences Between HTML 4.01 and HTML5

The <source> tag is new in HTML5.

## Attributes

= New in HTML5.

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| [media](http://www.w3schools.com/tags/att_source_media.asp) | *media\_query* | Specifies the type of media resource |
| [src](http://www.w3schools.com/tags/att_source_src.asp) | *URL* | Specifies the URL of the media file |
| [type](http://www.w3schools.com/tags/att_source_type.asp) | media\_type | Specifies the media type of the media resource |

## Global Attributes

The <source> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <source> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Related Pages

HTML tutorial: [HTML5 Video](http://www.w3schools.com/html/html5_video.asp)

HTML tutorial: [HTML5 Audio](http://www.w3schools.com/html/html5_audio.asp)

HTML DOM reference: [Source Object](http://www.w3schools.com/jsref/dom_obj_source.asp)

## Default CSS Settings

None.

# HTML <span> Tag

[« Previous](http://www.w3schools.com/tags/tag_source.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_strike.asp)

### Example

A <span> element used to color a part of a text:

<p>My mother has <span style="color:blue">blue</span> eyes.</p>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_span)

## Definition and Usage

The <span> tag is used to group inline-elements in a document.

The <span> tag provides no visual change by itself.

The <span> tag provides a way to add a hook to a part of a text or a part of a document.

## Browser Support

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <span> | Yes | Yes | Yes | Yes | Yes | Yes |

## Tips and Notes

**Tip:** When a text is hooked in a <span> element, you can style it with CSS, or manipulate it with JavaScript.

## Differences Between HTML 4.01 and HTML5

NONE.

## Global Attributes

The <span> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <span> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Related Pages

HTML tutorial: [HTML Blocks](http://www.w3schools.com/html/html_blocks.asp)

HTML DOM reference: [Span Object](http://www.w3schools.com/jsref/dom_obj_span.asp)

## Default CSS Settings

None.

# HTML <strike> Tag. Not Supported in HTML5.

[« Previous](http://www.w3schools.com/tags/tag_span.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_strong.asp)

### Example

Strikethrough text can be marked up as follows:

<p>Version 2.0 is <strike>not yet available!</strike> now available!</p>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_strike)

## Definition and Usage

The <strike> tag is not supported in HTML5. Use [<del>](http://www.w3schools.com/tags/tag_del.asp) or [<s>](http://www.w3schools.com/tags/tag_s.asp) instead.

The <strike> tag defines strikethrough text.

## Browser Support

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |
| <strike> | Yes | Yes | Yes | Yes | Yes |

# HTML <strong> Tag

[« Previous](http://www.w3schools.com/tags/tag_strike.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_style.asp)

### Example

Format text in a document:

<strong>Strong text</strong>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_phrase_test)

## Definition and Usage

The <strong> tag is a phrase tag. It defines important text.

**Tip:** This tag is not deprecated, but it is possible to achieve richer effect with CSS.

All phrase tags:

|  |  |
| --- | --- |
| **Tag** | **Description** |
| <em> | Renders as emphasized text |
| <strong> | Defines important text |
| <code> | Defines a piece of computer code |
| <samp> | Defines sample output from a computer program |
| <kbd> | Defines keyboard input |
| <var> | Defines a variable |

## Browser Support

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <strong> | Yes | Yes | Yes | Yes | Yes | Yes |

## Differences Between HTML 4.01 and HTML5

In HTML 4.01, the <strong> tag defines strong emphasized text, but in HTML5 it defines important text.

## Global Attributes

The <strong> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <strong> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Related Pages

HTML tutorial: [HTML Text Formatting](http://www.w3schools.com/html/html_formatting.asp)

HTML DOM reference: [Strong Object](http://www.w3schools.com/jsref/dom_obj_strong.asp)

## Default CSS Settings

Most browsers will display the <strong> element with the following default values:

### Example

strong {   
    font-weight: bold;  
}

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_strong_default_css)

# HTML <style> Tag

[« Previous](http://www.w3schools.com/tags/tag_strong.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_sub.asp)

### Example

Use of the <style> element in an HTML document:

<html>  
<head>  
<style>  
h1 {color:red;}  
p {color:blue;}  
</style>  
</head>  
<body>  
  
<h1>A heading</h1>  
<p>A paragraph.</p>  
  
</body>  
</html>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_style)

## Definition and Usage

The <style> tag is used to define style information for an HTML document.

Inside the <style> element you specify how HTML elements should render in a browser.

Each HTML document can contain multiple <style> tags.

## Browser Support

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <style> | Yes | Yes | Yes | Yes | Yes | Yes |

## Tips and Notes

**Tip:** To link to an external style sheet, use the [<link>](http://www.w3schools.com/tags/tag_link.asp) tag.

**Tip:** To learn more about style sheets, please read our [CSS Tutorial](http://www.w3schools.com/css/default.asp).

**Note:** If the "scoped" attribute is not used, each <style> tag must be located in the head section.

## Differences Between HTML 4.01 and HTML5

The "scoped" attribute is new in HTML5, which allows to define styles for a specified section of the document. If the "scoped" attribute is present, the styles only apply to the style element's parent element and that element's child elements.

## Attributes

= New in HTML5.

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| [media](http://www.w3schools.com/tags/att_style_media.asp) | *media\_query* | Specifies what media/device the media resource is optimized for |
| [scoped](http://www.w3schools.com/tags/att_style_scoped.asp) | scoped | Specifies that the styles only apply to this element's parent element and that element's child elements |
| [type](http://www.w3schools.com/tags/att_style_type.asp) | text/css | Specifies the media type of the <style> tag |

## Global Attributes

The <style> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <style> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Related Pages

HTML tutorial: [HTML CSS](http://www.w3schools.com/html/html_css.asp)

CSS tutorial: [CSS Tutorial](http://www.w3schools.com/css/default.asp)

HTML DOM reference: [Style Object](http://www.w3schools.com/jsref/dom_obj_style.asp)

## Default CSS Settings

Most browsers will display the <style> element with the following default values:

style {  
    display: none;  
}

# HTML <sub> Tag

[« Previous](http://www.w3schools.com/tags/tag_style.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_summary.asp)

### Example

Subscript text:

<p>This text contains <sub>subscript</sub> text.</p>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_sup)

## Definition and Usage

The <sub> tag defines subscript text. Subscript text appears half a character below the normal line, and is sometimes rendered in a smaller font. Subscript text can be used for chemical formulas, like H2O.

**Tip:** Use the [<sup>](http://www.w3schools.com/tags/tag_sup.asp) tag to define superscripted text.

## Browser Support

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <sub> | Yes | Yes | Yes | Yes | Yes | Yes |

## Differences Between HTML 4.01 and HTML5

NONE.

## Global Attributes

The <sub> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <sub> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Related Pages

HTML tutorial: [HTML Text Formatting](http://www.w3schools.com/html/html_formatting.asp)

HTML DOM reference: [Subscript Object](http://www.w3schools.com/jsref/dom_obj_sub.asp)

## Default CSS Settings

Most browsers will display the <sub> element with the following default values:

### Example

sub {   
    vertical-align: sub;  
    font-size: smaller;  
}

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_sub_default_css)

# HTML <sup> Tag

[« Previous](http://www.w3schools.com/tags/tag_summary.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_table.asp)

### Example

Superscript text:

<p>This text contains <sup>superscript</sup> text.</p>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_sup)

## Definition and Usage

The <sup> tag defines superscript text. Superscript text appears half a character above the normal line, and is sometimes rendered in a smaller font. Superscript text can be used for footnotes, like WWW[1].

**Tip:** Use the [<sub>](http://www.w3schools.com/tags/tag_sub.asp) tag to define subscript text.

## Browser Support

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <sup> | Yes | Yes | Yes | Yes | Yes | Yes |

## Differences Between HTML 4.01 and HTML5

NONE.

## Global Attributes

The <sup> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <sup> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Related Pages

HTML tutorial: [HTML Text Formatting](http://www.w3schools.com/html/html_formatting.asp)

HTML DOM reference: [Superscript Object](http://www.w3schools.com/jsref/dom_obj_sup.asp)

## Default CSS Settings

Most browsers will display the <sup> element with the following default values:

### Example

sup {   
    vertical-align: super;  
    font-size: smaller;  
}

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_sup_default_css)

# HTML <table> Tag

[« Previous](http://www.w3schools.com/tags/tag_sup.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_tbody.asp)

### Example

A simple HTML table, containing two columns and two rows:

<table>  
  <tr>  
    <th>Month</th>  
    <th>Savings</th>  
  </tr>  
  <tr>  
    <td>January</td>  
    <td>$100</td>  
  </tr>  
</table>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_table_test)

More "Try it Yourself" examples below.

## Definition and Usage

The <table> tag defines an HTML table.

An HTML table consists of the <table> element and one or more [<tr>](http://www.w3schools.com/tags/tag_tr.asp), [<th>](http://www.w3schools.com/tags/tag_th.asp), and [<td>](http://www.w3schools.com/tags/tag_td.asp) elements.

The <tr> element defines a table row, the <th> element defines a table header, and the <td> element defines a table cell.

A more complex HTML table may also include <caption>, <col>, <colgroup>, <thead>, <tfoot>, and <tbody> elements.

## Browser Support

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <table> | Yes | Yes | Yes | Yes | Yes | Yes |

## Differences Between HTML 4.01 and HTML5

The "align", "bgcolor", "border", "cellpadding", "cellspacing", "frame", "rules", "summary", and "width" attributes are not supported in HTML5.

|  |  |
| --- | --- |
| **Note** | There has been some disagreement in W3C, about removing the "border" attribute in HTML5. Finally, it has been removed from the specification. Use CSS instead! |

## Attributes

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| [align](http://www.w3schools.com/tags/att_table_align.asp) | left center right | Not supported in HTML5. Specifies the alignment of a table according to surrounding text |
| [bgcolor](http://www.w3schools.com/tags/att_table_bgcolor.asp) | *rgb(x,x,x) #xxxxxx colorname* | Not supported in HTML5. Specifies the background color for a table |
| [border](http://www.w3schools.com/tags/att_table_border.asp) | 1 0 | Not supported in HTML5. Specifies whether the table cells should have borders or not |
| [cellpadding](http://www.w3schools.com/tags/att_table_cellpadding.asp) | *pixels* | Not supported in HTML5. Specifies the space between the cell wall and the cell content |
| [cellspacing](http://www.w3schools.com/tags/att_table_cellspacing.asp) | *pixels* | Not supported in HTML5. Specifies the space between cells |
| [frame](http://www.w3schools.com/tags/att_table_frame.asp) | void above below hsides lhs rhs vsides box border | Not supported in HTML5. Specifies which parts of the outside borders that should be visible |
| [rules](http://www.w3schools.com/tags/att_table_rules.asp) | none groups rows cols all | Not supported in HTML5. Specifies which parts of the inside borders that should be visible |
| sortable | sortable | Specifies that the table should be sortable |
| [summary](http://www.w3schools.com/tags/att_table_summary.asp) | *text* | Not supported in HTML5. Specifies a summary of the content of a table |
| [width](http://www.w3schools.com/tags/att_table_width.asp) | *pixels %* | Not supported in HTML5. Specifies the width of a table |

## Global Attributes

The <table> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <table> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

Examples

## Try it Yourself - Examples

[Table headers](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_table_header)  
How to create table headers.

[Table with a caption](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_caption_test)  
An HTML table with a caption.

[Tags inside a table](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_table_elements)  
How to display elements inside other elements.

[Cells that span more than one row/column](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_table_span)  
How to define table cells that span more than one row or one column.

## Related Pages

HTML tutorial: [HTML Tables](http://www.w3schools.com/html/html_tables.asp)

HTML DOM reference: [Table Object](http://www.w3schools.com/jsref/dom_obj_table.asp)

## Default CSS Settings

Most browsers will display the <table> element with the following default values:

### Example

table {  
    display: table;  
    border-collapse: separate;  
    border-spacing: 2px;  
    border-color: gray;  
}

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_table_default_css)

# HTML <tbody> Tag

[« Previous](http://www.w3schools.com/tags/tag_table.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_td.asp)

### Example

An HTML table with a <thead>, <tfoot>, and a <tbody> element:

<table>  
  <thead>  
  <tr>  
     <th>Month</th>  
     <th>Savings</th>  
  </tr>  
  </thead>  
  <tfoot>  
  <tr>  
      <td>Sum</td>  
      <td>$180</td>  
  </tr>  
  </tfoot>  
  <tbody>  
  <tr>  
     <td>January</td>  
     <td>$100</td>  
  </tr>  
  <tr>  
      <td>February</td>  
      <td>$80</td>  
  </tr>  
  </tbody>  
</table>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_tbody)

## Definition and Usage

The <tbody> tag is used to group the body content in an HTML table.

The <tbody> element is used in conjunction with the [<thead>](http://www.w3schools.com/tags/tag_thead.asp) and [<tfoot>](http://www.w3schools.com/tags/tag_tfoot.asp) elements to specify each part of a table (body, header, footer).

Browsers can use these elements to enable scrolling of the table body independently of the header and footer. Also, when printing a large table that spans multiple pages, these elements can enable the table header and footer to be printed at the top and bottom of each page.

The <tbody> tag must be used in the following context: As a child of a <table> element, after any <caption>, <colgroup>, and <thead> elements.

## Browser Support

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <tbody> | Yes | Yes | Yes | Yes | Yes | Yes |

## Tips and Notes

**Note:** The <tbody> element must have one or more <tr> tags inside.

**Tip:** The <thead>, <tbody>, and <tfoot> elements will not affect the layout of the table by default. However, you can use CSS to style these elements.

## Differences Between HTML 4.01 and HTML5

None of the HTML 4.01 attributes are supported in HTML5.

## Attributes

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| [align](http://www.w3schools.com/tags/att_tbody_align.asp) | right left center justify char | Not supported in HTML5. Aligns the content inside the <tbody> element |
| [char](http://www.w3schools.com/tags/att_tbody_char.asp) | *character* | Not supported in HTML5. Aligns the content inside the <tbody> element to a character |
| [charoff](http://www.w3schools.com/tags/att_tbody_charoff.asp) | *number* | Not supported in HTML5. Sets the number of characters the content inside the <tbody> element will be aligned from the character specified by the char attribute |
| [valign](http://www.w3schools.com/tags/att_tbody_valign.asp) | top middle bottom baseline | Not supported in HTML5.  Vertical aligns the content inside the <tbody> element |

## Global Attributes

The <tbody> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <tbody> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Default CSS Settings

Most browsers will display the <tbody> element with the following default values:

tbody {  
    display: table-row-group;  
    vertical-align: middle;  
    border-color: inherit;  
}

# HTML <textarea> Tag

[« Previous](http://www.w3schools.com/tags/tag_td.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_tfoot.asp)

### Example

An HTML text area:

<textarea rows="4" cols="50">  
At w3schools.com you will learn how to make a website. We offer free tutorials in all web development technologies.   
</textarea>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_textarea)

## Definition and Usage

The <textarea> tag defines a multi-line text input control.

A text area can hold an unlimited number of characters, and the text renders in a fixed-width font (usually Courier).

The size of a text area can be specified by the cols and rows attributes, or even better; through CSS' height and width properties.

## Browser Support

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <textarea> | Yes | Yes | Yes | Yes | Yes | Yes |

## Differences Between HTML 4.01 and HTML5

HTML5 has added several new attributes.

## Attributes

= New in HTML5.

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| [autofocus](http://www.w3schools.com/tags/att_textarea_autofocus.asp) | autofocus | Specifies that a text area should automatically get focus when the page loads |
| [cols](http://www.w3schools.com/tags/att_textarea_cols.asp) | *number* | Specifies the visible width of a text area |
| [disabled](http://www.w3schools.com/tags/att_textarea_disabled.asp) | disabled | Specifies that a text area should be disabled |
| [form](http://www.w3schools.com/tags/att_textarea_form.asp) | *form\_id* | Specifies one or more forms the text area belongs to |
| [maxlength](http://www.w3schools.com/tags/att_textarea_maxlength.asp) | *number* | Specifies the maximum number of characters allowed in the text area |
| [name](http://www.w3schools.com/tags/att_textarea_name.asp) | *text* | Specifies a name for a text area |
| [placeholder](http://www.w3schools.com/tags/att_textarea_placeholder.asp) | *text* | Specifies a short hint that describes the expected value of a text area |
| [readonly](http://www.w3schools.com/tags/att_textarea_readonly.asp) | readonly | Specifies that a text area should be read-only |
| [required](http://www.w3schools.com/tags/att_textarea_required.asp) | required | Specifies that a text area is required/must be filled out |
| [rows](http://www.w3schools.com/tags/att_textarea_rows.asp) | *number* | Specifies the visible number of lines in a text area |
| [wrap](http://www.w3schools.com/tags/att_textarea_wrap.asp) | hard soft | Specifies how the text in a text area is to be wrapped when submitted in a form |

## Global Attributes

The <textarea> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <textarea> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Related Pages

HTML DOM reference: [Textarea Object](http://www.w3schools.com/jsref/dom_obj_textarea.asp)

## Default CSS Settings

None.

# HTML <tfoot> Tag

[« Previous](http://www.w3schools.com/tags/tag_textarea.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_th.asp)

### Example

An HTML table with a <thead>, <tfoot>, and a <tbody> element:

<table>  
  <thead>  
    <tr>  
      <th>Month</th>  
      <th>Savings</th>  
    </tr>  
  </thead>  
  <tfoot>  
    <tr>  
      <td>Sum</td>  
      <td>$180</td>  
    </tr>  
  </tfoot>  
  <tbody>  
    <tr>  
      <td>January</td>  
      <td>$100</td>  
    </tr>  
    <tr>  
      <td>February</td>  
      <td>$80</td>  
    </tr>  
  </tbody>  
</table>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_tbody)

## Definition and Usage

The <tfoot> tag is used to group footer content in an HTML table.

The <tfoot> element is used in conjunction with the [<thead>](http://www.w3schools.com/tags/tag_thead.asp) and [<tbody>](http://www.w3schools.com/tags/tag_tbody.asp) elements to specify each part of a table (footer, header, body).

Browsers can use these elements to enable scrolling of the table body independently of the header and footer. Also, when printing a large table that spans multiple pages, these elements can enable the table header and footer to be printed at the top and bottom of each page.

The <tfoot> tag must be used in the following context: As a child of a <table> element, after any <caption>, <colgroup>, and <thead> elements and before any <tbody> and <tr> elements.

## Browser Support

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <tfoot> | Yes | Yes | Yes | Yes | Yes | Yes |

## Tips and Notes

**Note:** The <tfoot> element must have one or more <tr> tags inside.

**Tip:** The <thead>, <tbody>, and <tfoot> elements will not affect the layout of the table by default. However, you can use CSS to style these elements.

## Differences Between HTML 4.01 and HTML5

None of the HTML 4.01 attributes are supported in HTML5.

## Attributes

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| [align](http://www.w3schools.com/tags/att_tfoot_align.asp) | right left center justify char | Not supported in HTML5. Aligns the content inside the <tfoot> element |
| [char](http://www.w3schools.com/tags/att_tfoot_char.asp) | *character* | Not supported in HTML5. Aligns the content inside the <tfoot> element to a character |
| [charoff](http://www.w3schools.com/tags/att_tfoot_charoff.asp) | *number* | Not supported in HTML5. Sets the number of characters the content inside the <tfoot> element will be aligned from the character specified by the char attribute |
| [valign](http://www.w3schools.com/tags/att_tfoot_valign.asp) | top middle bottom baseline | Not supported in HTML5. Vertical aligns the content inside the <tfoot> element |

## Global Attributes

The <tfoot> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <tfoot> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Default CSS Settings

Most browsers will display the <tfoot> element with the following default values:

tfoot {  
    display: table-footer-group;  
    vertical-align: middle;  
    border-color: inherit;  
}

# HTML <th> Tag

[« Previous](http://www.w3schools.com/tags/tag_tfoot.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_thead.asp)

### Example

A simple HTML table with two header cells and two data cells:

<table>  
 <tr>  
   <th>Month</th>  
   <th>Savings</th>  
 </tr>  
 <tr>  
   <td>January</td>  
   <td>$100</td>  
 </tr>  
</table>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_table_test)

More "Try it Yourself" examples below.

## Definition and Usage

The <th> tag defines a header cell in an HTML table.

An HTML table has two kinds of cells:

* Header cells - contains header information (created with the <th> element)
* Standard cells - contains data (created with the [<td>](http://www.w3schools.com/tags/tag_td.asp) element)

The text in <th> elements are bold and centered by default.

The text in <td> elements are regular and left-aligned by default.

## Browser Support

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <th> | Yes | Yes | Yes | Yes | Yes | Yes |

## Tips and Notes

**Tip:** Use the colspan and rowspan attribute to let the content span over multiple columns or rows!

## Differences Between HTML 4.01 and HTML5

All layout attributes are removed in HTML5.

## Attributes

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| [abbr](http://www.w3schools.com/tags/att_th_abbr.asp) | *text* | Specifies an abbreviated version of the content in a header cell |
| [align](http://www.w3schools.com/tags/att_th_align.asp) | left right center justify char | Not supported in HTML5. Aligns the content in a header cell |
| [axis](http://www.w3schools.com/tags/att_th_axis.asp) | *category\_name* | Not supported in HTML5. Categorizes header cells |
| [bgcolor](http://www.w3schools.com/tags/att_th_bgcolor.asp) | *rgb(x,x,x) #xxxxxx colorname* | Not supported in HTML5. Specifies the background color of a header cell |
| [char](http://www.w3schools.com/tags/att_th_char.asp) | *character* | Not supported in HTML5. Aligns the content in a header cell to a character |
| [charoff](http://www.w3schools.com/tags/att_th_charoff.asp) | *number* | Not supported in HTML5. Sets the number of characters the content will be aligned from the character specified by the char attribute |
| [colspan](http://www.w3schools.com/tags/att_th_colspan.asp) | *number* | Specifies the number of columns a header cell should span |
| [headers](http://www.w3schools.com/tags/att_th_headers.asp) | *header\_id* | Specifies one or more header cells a cell is related to |
| [height](http://www.w3schools.com/tags/att_th_height.asp) | *pixels %* | Not supported in HTML5. Sets the height of a header cell |
| [nowrap](http://www.w3schools.com/tags/att_th_nowrap.asp) | nowrap | Not supported in HTML5. Specifies that the content inside a header cell should not wrap |
| [rowspan](http://www.w3schools.com/tags/att_th_rowspan.asp) | *number* | Specifies the number of rows a header cell should span |
| [scope](http://www.w3schools.com/tags/att_th_scope.asp) | col colgroup row rowgroup | Specifies whether a header cell is a header for a column, row, or group of columns or rows |
| sorted | reversed number reversed number number reversed | Defines the sort direction of a column |
| [valign](http://www.w3schools.com/tags/att_th_valign.asp) | top middle bottom baseline | Not supported in HTML5. Vertical aligns the content in a header cell |
| [width](http://www.w3schools.com/tags/att_th_width.asp) | *pixels %* | Not supported in HTML5. Specifies the width of a header cell |

## Global Attributes

The <th> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <th> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

Examples

## Try it Yourself - Examples

[Table headers](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_table_header)  
How to create table headers.

[Table with a caption](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_caption_test)  
An HTML table with a caption.

[Tags inside a table](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_table_elements)  
How to display elements inside other elements.

[C](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_table_span)[ells that span more than one row/column](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_table_span)  
How to define table cells that span more than one row or one column.

## Related Pages

HTML tutorial: [HTML Tables](http://www.w3schools.com/html/html_tables.asp)

HTML DOM reference: [TableHeader Object](http://www.w3schools.com/jsref/dom_obj_tablehead.asp)

## Default CSS Settings

Most browsers will display the <th> element with the following default values:

th {  
    display: table-cell;  
    vertical-align: inherit;  
    font-weight: bold;  
    text-align: center;  
}

# HTML <thead> Tag

[« Previous](http://www.w3schools.com/tags/tag_th.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_time.asp)

### Example

An HTML table with a <thead>, <tfoot>, and a <tbody> element:

<table>  
 <thead>  
  <tr>  
     <th>Month</th>  
     <th>Savings</th>  
  </tr>  
 </thead>  
 <tfoot>  
  <tr>  
     <td>Sum</td>  
     <td>$180</td>  
  </tr>  
 </tfoot>  
 <tbody>  
  <tr>  
     <td>January</td>  
     <td>$100</td>  
  </tr>  
  <tr>  
     <td>February</td>  
     <td>$80</td>  
  </tr>  
 </tbody>  
</table>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_tbody)

## Definition and Usage

The <thead> tag is used to group header content in an HTML table.

The <thead> element is used in conjunction with the [<tbody>](http://www.w3schools.com/tags/tag_tbody.asp) and [<tfoot>](http://www.w3schools.com/tags/tag_tfoot.asp) elements to specify each part of a table (header, body, footer).

Browsers can use these elements to enable scrolling of the table body independently of the header and footer. Also, when printing a large table that spans multiple pages, these elements can enable the table header and footer to be printed at the top and bottom of each page.

The <thead> tag must be used in the following context: As a child of a <table> element, after any <caption>, and <colgroup> elements, and before any <tbody>, <tfoot>, and <tr> elements.

## Browser Support

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <thead> | Yes | Yes | Yes | Yes | Yes | Yes |

## Tips and Notes

**Note:** The <thead> element must have one or more <tr> tags inside.

**Tip:** The <thead>, <tbody>, and <tfoot> elements will not affect the layout of the table by default. However, you can use CSS to style these elements.

## Differences Between HTML 4.01 and HTML5

None of the HTML 4.01 attributes are supported in HTML5.

## Attributes

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| [align](http://www.w3schools.com/tags/att_thead_align.asp) | right left center justify char | Not supported in HTML5. Aligns the content inside the <thead> element |
| [char](http://www.w3schools.com/tags/att_thead_char.asp) | *character* | Not supported in HTML5. Aligns the content inside the <thead> element to a character |
| [charoff](http://www.w3schools.com/tags/att_thead_charoff.asp) | *number* | Not supported in HTML5. Sets the number of characters the content inside the <thead> element will be aligned from the character specified by the char attribute |
| [valign](http://www.w3schools.com/tags/att_thead_valign.asp) | top middle bottom baseline | Not supported in HTML5. Vertical aligns the content inside the <thead> element |

## Global Attributes

The <thead> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <thead> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Default CSS Settings

Most browsers will display the <thead> element with the following default values:

thead {  
    display: table-header-group;  
    vertical-align: middle;  
    border-color: inherit;  
}

# HTML <time> Tag

[« Previous](http://www.w3schools.com/tags/tag_thead.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_title.asp)

### Example

How to define a time and a date:

<p>We open at <time>10:00</time> every morning.</p>  
  
<p>I have a date on <time datetime="2008-02-14 20:00">Valentines day</time>.</p>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml5_time)

## Definition and Usage

The <time> tag defines a human-readable date/time.

This element can also be used to encode dates and times in a machine-readable way so that user agents can offer to add birthday reminders or scheduled events to the user's calendar, and search engines can produce smarter search results.

## Browser Support

The numbers in the table specify the first browser version that fully supports the element.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <time> | 6.0 | 12.0 | 9.0 | 4.0 | 5.0 | 11.1 |

## Differences Between HTML 4.01 and HTML5

The <time> tag is new in HTML5.

## Attributes

= New in HTML5.

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| [datetime](http://www.w3schools.com/tags/att_time_datetime.asp) | *datetime* | Represent a machine-readable date/time of the <time> element |

## Global Attributes

The <time> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <time> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Related Pages

HTML DOM reference: [Time Object](http://www.w3schools.com/jsref/dom_obj_time.asp)

## Default CSS Settings

None.

# HTML <title> Tag

[« Previous](http://www.w3schools.com/tags/tag_time.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_tr.asp)

### Example

Define a title for your HTML document:

<html>  
  
<head>  
<title>HTML Reference</title>  
</head>  
  
<body>  
The content of the document......  
</body>  
  
</html>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_basic)

## Definition and Usage

The <title> tag is required in all HTML documents and it defines the title of the document.

The <title> element:

* defines a title in the browser toolbar
* provides a title for the page when it is added to favorites
* displays a title for the page in search-engine results

## Browser Support

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <title> | Yes | Yes | Yes | Yes | Yes | Yes |

## Tips and Notes

**Note:** You can NOT have more than one <title> element in an HTML document.

**Tip:** If you omit the <title> tag, the document will not validate as HTML.

## Differences Between HTML 4.01 and HTML5

NONE.

## Global Attributes

The <title> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Related Pages

HTML tutorial: [HTML Head](http://www.w3schools.com/html/html_head.asp)

HTML DOM reference: [Title Object](http://www.w3schools.com/jsref/dom_obj_title.asp)

## Default CSS Settings

Most browsers will display the <title> element with the following default values:

title {  
    display: none;  
}

# HTML <tr> Tag

[« Previous](http://www.w3schools.com/tags/tag_title.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_track.asp)

### Example

A simple HTML table, containing two columns and two rows:

<table>  
  <tr>  
    <th>Month</th>  
    <th>Savings</th>  
  </tr>  
  <tr>  
    <td>January</td>  
    <td>$100</td>  
  </tr>  
</table>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_table_test)

More "Try it Yourself" examples below.

## Definition and Usage

The <tr> tag defines a row in an HTML table.

A <tr> element contains one or more [<th>](http://www.w3schools.com/tags/tag_th.asp) or [<td>](http://www.w3schools.com/tags/tag_td.asp) elements.

## Browser Support

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <tr> | Yes | Yes | Yes | Yes | Yes | Yes |

## Differences Between HTML 4.01 and HTML5

All the layout attributes are removed in HTML5.

## Attributes

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| [align](http://www.w3schools.com/tags/att_tr_align.asp) | right left center justify char | Not supported in HTML5. Aligns the content in a table row |
| [bgcolor](http://www.w3schools.com/tags/att_tr_bgcolor.asp) | *rgb(x,x,x) #xxxxxx colorname* | Not supported in HTML5. Specifies a background color for a table row |
| [char](http://www.w3schools.com/tags/att_tr_char.asp) | *character* | Not supported in HTML5. Aligns the content in a table row to a character |
| [charoff](http://www.w3schools.com/tags/att_tr_charoff.asp) | *number* | Not supported in HTML5. Sets the number of characters the content will be aligned from the character specified by the char attribute |
| [valign](http://www.w3schools.com/tags/att_tr_valign.asp) | top middle bottom baseline | Not supported in HTML5. Vertical aligns the content in a table row |

## Global Attributes

The <tr> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <tr> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

Examples

## Try it Yourself - Examples

[Table headers](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_table_header)  
How to create table headers.

[Table with a caption](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_caption_test)  
An HTML table with a caption.

[Tags inside a table](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_table_elements)  
How to display elements inside other elements.

[C](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_table_span)[ells that span more than one row/column](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_table_span)  
How to define table cells that span more than one row or one column.

## Related Pages

HTML tutorial: [HTML Tables](http://www.w3schools.com/html/html_tables.asp)

HTML DOM reference: [TableRow object](http://www.w3schools.com/jsref/dom_obj_tablerow.asp)

## Default CSS Settings

Most browsers will display the <tr> element with the following default values:

tr {  
    display: table-row;  
    vertical-align: inherit;  
    border-color: inherit;  
}

# HTML <track> Tag

[« Previous](http://www.w3schools.com/tags/tag_tr.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_tt.asp)

### Example

A video with two subtitle tracks:

<video width="320" height="240" controls>  
  <source src="forrest\_gump.mp4" type="video/mp4">  
  <source src="forrest\_gump.ogg" type="video/ogg">  
  <track src="subtitles\_en.vtt" kind="subtitles" srclang="en" label="English">  
  <track src="subtitles\_no.vtt" kind="subtitles" srclang="no" label="Norwegian">  
</video>

## Definition and Usage

The <track> tag specifies text tracks for media elements (<audio> and <video>).

This element is used to specify subtitles, caption files or other files containing text, that should be visible when the media is playing.

## Browser Support

The numbers in the table specify the first browser version that fully supports the element.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <track> | 18.0 | 12.0 | 10.0 | 31.0 | 6.0 | 15.0 |

## Differences Between HTML 4.01 and HTML5

The <track> tag is new in HTML5.

## Optional Attributes

= New in HTML5.

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| [default](http://www.w3schools.com/tags/att_track_default.asp) | default | Specifies that the track is to be enabled if the user's preferences do not indicate that another track would be more appropriate |
| [kind](http://www.w3schools.com/tags/att_track_kind.asp) | captions chapters descriptions metadata subtitles | Specifies the kind of text track |
| [label](http://www.w3schools.com/tags/att_track_label.asp) | text | Specifies the title of the text track |
| [src](http://www.w3schools.com/tags/att_track_src.asp) | URL | Required. Specifies the URL of the track file |
| [srclang](http://www.w3schools.com/tags/att_track_srclang.asp) | *language\_code* | Specifies the language of the track text data (required if kind="subtitles") |

## Global Attributes

The <track> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <track> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Related Pages

HTML tutorial: [HTML5 Video](http://www.w3schools.com/html/html5_video.asp)

HTML tutorial: [HTML5 Audio](http://www.w3schools.com/html/html5_audio.asp)

HTML DOM reference: [Track Object](http://www.w3schools.com/jsref/dom_obj_track.asp)

## Default CSS Settings

None.

# HTML <tt> Tag. Not Supported in HTML5.

[« Previous](http://www.w3schools.com/tags/tag_track.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_u.asp)

### Example

Define teletype text:

<p><tt>Teletype text</tt></p>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_tt)

## Definition and Usage

The <tt> tag is not supported in HTML5.

If <tt> was used for marking up keyboard input, consider the <kbd> element; for variables, consider the <var> element; for computer code, consider the <code> element; and for computer output, consider the <samp> element, or use CSS instead.

The <tt> tag defines teletype text.

## Browser Support

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |
| <tt> | Yes | Yes | Yes | Yes | Yes |

## Compatibility Notes

CSS syntax: <p style="font-family:'Lucida Console', monospace">

[CSS Example: define teletype/monospace font for a <p> element](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_tt_css)

In our CSS tutorial you can find more details about specifying the [type of font](http://www.w3schools.com/css/css_font.asp) in a document.

## Differences Between HTML 4.01 and HTML5

The <tt> tag is not supported in HTML5.

# HTML <u> Tag

[« Previous](http://www.w3schools.com/tags/tag_tt.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_ul.asp)

### Example

Underline a misspelled word with the <u> tag:

<p>This is a <u>parragraph</u>.</p>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_u)

## Definition and Usage

The <u> tag represents some text that should be stylistically different from normal text, such as misspelled words or proper nouns in Chinese.

## Browser Support

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <u> | Yes | Yes | Yes | Yes | Yes | Yes |

## Tips and Notes

**Tip:** Avoid using the <u> element where it could be confused for a hyperlink.

**Note:** The HTML 5 specification reminds developers that other elements are almost always more appropriate than <u>.

## Differences Between HTML 4.01 and HTML5

The <u> element was [deprecated](javascript:NewWindow('deprecated.htm')) in HTML 4.01. (the <u> element was used to define underlined text).

The <u> element is redefined in HTML5, to represent text that should be stylistically different from normal text, such as misspelled words or proper nouns in Chinese.

## Global Attributes

The <u> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <u> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Related Pages

HTML tutorial: [HTML Text Formatting](http://www.w3schools.com/html/html_formatting.asp)

HTML DOM reference: [Underline Object](http://www.w3schools.com/jsref/dom_obj_u.asp)

## Default CSS Settings

Most browsers will display the <u> element with the following default values:

### Example

u {  
    text-decoration: underline;  
}

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_u_default_css)

# HTML <ul> Tag

[« Previous](http://www.w3schools.com/tags/tag_u.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_var.asp)

### Example

An unordered HTML list:

<ul>  
  <li>Coffee</li>  
  <li>Tea</li>  
  <li>Milk</li>  
</ul>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_lists4)

More "Try it Yourself" examples below.

## Definition and Usage

The <ul> tag defines an unordered (bulleted) list.

Use the <ul> tag together with the [<li>](http://www.w3schools.com/tags/tag_li.asp) tag to create unordered lists.

## Browser Support

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <ul> | Yes | Yes | Yes | Yes | Yes | Yes |

## Tips and Notes

**Tip:** Use CSS to style lists.

**Tip:** To create ordered lists, use the [<ol>](http://www.w3schools.com/tags/tag_ol.asp) tag.

## Differences Between HTML 4.01 and HTML5

The "compact" and "type" attributes are not supported in HTML5.

## Attributes

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| [compact](http://www.w3schools.com/tags/att_ul_compact.asp) | compact | Not supported in HTML5. Specifies that the list should render smaller than normal |
| [type](http://www.w3schools.com/tags/att_ul_type.asp) | disc square circle | Not supported in HTML5. Specifies the kind of marker to use in the list |

## Global Attributes

The <ul> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <ul> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

Examples

## Try it Yourself - Examples

[A nested list](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_lists2)  
A list inside a list.

[Another nested list](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_nestedlists2)  
A more complicated nested list.

## Related Pages

HTML tutorial: [HTML Lists](http://www.w3schools.com/html/html_lists.asp)

HTML DOM reference: [Ul Object](http://www.w3schools.com/jsref/dom_obj_ul.asp)

## Default CSS Settings

Most browsers will display the <ul> element with the following default values:

### Example

ul {   
    display: block;  
    list-style-type: disc;  
    margin-top: 1em;  
    margin-bottom: 1 em;  
    margin-left: 0;  
    margin-right: 0;  
    padding-left: 40px;  
}

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_ul_default_css)

# HTML <var> Tag

[« Previous](http://www.w3schools.com/tags/tag_ul.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_video.asp)

### Example

Format text in a document:

<var>Variable</var>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_phrase_test)

## Definition and Usage

The <var> tag is a phrase tag. It defines a variable.

**Tip:** This tag is not deprecated, but it is possible to achieve richer effect with CSS.

All phrase tags:

|  |  |
| --- | --- |
| **Tag** | **Description** |
| <em> | Renders as emphasized text |
| <strong> | Defines important text |
| <code> | Defines a piece of computer code |
| <samp> | Defines sample output from a computer program |
| <kbd> | Defines keyboard input |
| <var> | Defines a variable |

## Browser Support

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <var> | Yes | 12.0 | Yes | Yes | Yes | Yes |

## Differences Between HTML 4.01 and HTML5

NONE.

## Global Attributes

The <var> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <var> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Related Pages

HTML tutorial: [HTML Text Formatting](http://www.w3schools.com/html/html_formatting.asp)

HTML DOM reference: [Variable Object](http://www.w3schools.com/jsref/dom_obj_var.asp)

## Default CSS Settings

Most browsers will display the <var> element with the following default values:

### Example

var {   
    font-style: italic;  
}

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml_var_default_css)

# HTML <video> Tag

[« Previous](http://www.w3schools.com/tags/tag_var.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_wbr.asp)

### Example

Play a video:

<video width="320" height="240" controls>  
  <source src="movie.mp4" type="video/mp4">  
  <source src="movie.ogg" type="video/ogg">  
  Your browser does not support the video tag.  
</video>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml5_video)

## Definition and Usage

The <video> tag specifies video, such as a movie clip or other video streams.

Currently, there are 3 supported video formats for the <video> element: MP4, WebM, and Ogg:

|  |  |  |  |
| --- | --- | --- | --- |
| **Browser** | **MP4** | **WebM** | **Ogg** |
| Internet Explorer | YES | NO | NO |
| Chrome | YES | YES | YES |
| Firefox | YES from Firefox 21 from Firefox 30 for Linux | YES | YES |
| Safari | YES | NO | NO |
| Opera | YES From Opera 25 | YES | YES |

* MP4 = MPEG 4 files with H264 video codec and AAC audio codec
* WebM = WebM files with VP8 video codec and Vorbis audio codec
* Ogg = Ogg files with Theora video codec and Vorbis audio codec

### MIME Types for Video Formats

|  |  |
| --- | --- |
| **Format** | **MIME-type** |
| MP4 | video/mp4 |
| WebM | video/webm |
| Ogg | video/ogg |

## Browser Support

The numbers in the table specify the first browser version that fully supports the element.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <video> | 4.0 | 12.0 | 9.0 | 3.5 | 4.0 | 10.5 |

## Differences Between HTML 4.01 and HTML5

The <video> tag is new in HTML5.

## Tips and Notes

**Tip:** Any text between the <video> and </video> tags will be displayed in browsers that do not support the <video> element.

## Optional Attributes

= New in HTML5.

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| [autoplay](http://www.w3schools.com/tags/att_video_autoplay.asp) | autoplay | Specifies that the video will start playing as soon as it is ready |
| [controls](http://www.w3schools.com/tags/att_video_controls.asp) | controls | Specifies that video controls should be displayed (such as a play/pause button etc). |
| [height](http://www.w3schools.com/tags/att_video_height.asp) | *pixels* | Sets the height of the video player |
| [loop](http://www.w3schools.com/tags/att_video_loop.asp) | loop | Specifies that the video will start over again, every time it is finished |
| [muted](http://www.w3schools.com/tags/att_video_muted.asp) | muted | Specifies that the audio output of the video should be muted |
| [poster](http://www.w3schools.com/tags/att_video_poster.asp) | URL | Specifies an image to be shown while the video is downloading, or until the user hits the play button |
| [preload](http://www.w3schools.com/tags/att_video_preload.asp) | auto metadata none | Specifies if and how the author thinks the video should be loaded when the page loads |
| [src](http://www.w3schools.com/tags/att_video_src.asp) | *URL* | Specifies the URL of the video file |
| [width](http://www.w3schools.com/tags/att_video_width.asp) | *pixels* | Sets the width of the video player |

## Global Attributes

The <video> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <video> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).

## Related Pages

HTML DOM reference: [HTML Audio/Video DOM Reference](http://www.w3schools.com/tags/ref_av_dom.asp)

## Default CSS Settings

None.

# HTML <wbr> Tag

[« Previous](http://www.w3schools.com/tags/tag_video.asp)

[Complete HTML Reference](http://www.w3schools.com/tags/default.asp)

[Next »](http://www.w3schools.com/tags/tag_comment.asp)

### Example

A text with word break opportunities:

<p>  
To learn AJAX, you must be familiar with the XML<wbr>Http<wbr>Request Object.  
</p>

[Try it yourself »](http://www.w3schools.com/tags/tryit.asp?filename=tryhtml5_wbr)

## Definition and Usage

The <wbr> (Word Break Opportunity) tag specifies where in a text it would be ok to add a line-break.

**Tip:** When a word is too long, or you are afraid that the browser will break your lines at the wrong place, you can use the <wbr> element to add word break opportunities.

## Browser Support

The numbers in the table specify the first browser version that fully supports the element.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** |  |  |  |  |  |  |
| <wbr> | 1.0 | 12.0 | Not supported | 3.0 | 4.0 | 11.7 |

## Differences Between HTML 4.01 and HTML5

The <wbr> tag is new in HTML5.

## Global Attributes

The <wbr> tag also supports the [Global Attributes in HTML](http://www.w3schools.com/tags/ref_standardattributes.asp).

## Event Attributes

The <wbr> tag also supports the [Event Attributes in HTML](http://www.w3schools.com/tags/ref_eventattributes.asp).