Cheatsheets / Learn HTML



# Elements and Structure

#### **HTML**

HTML (HyperText Markup Language) is used to give content to a web page and instructs web browsers on how to structure that content.

### **Element Content**

The content of an HTML element is the information between the opening and closing tags of an element.

<h1>Codecademy is awesome! 0</h1>

#### <1i> List Item Element

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The list item element create list items inside:

- Ordered lists
- Unordered lists

```
    Head east on
Prince St
    Turn left on
Elizabeth

    Cookies
    Milk
```

#### <video> Video Element

The <video> element embeds a media player for video playback. The src attribute will contain the URL to the video. Adding the controls attribute will display video controls in the media player.

Note: The content inside the opening and closing tag is shown as a fallback in browsers that don't support the element.

```
<video src="test-
video.mp4" controls>
  Video not
supported
</video>
```

# <em> Emphasis Element



The <em> emphasis element emphasizes text and browsers will usually *italicize* the emphasized text by default.

```
This
word
will
be emphasized in
italics.
```

#### Ordered List Element

The ordered list element creates a list of items in sequential order. Each list item appears numbered by default.

```
    Preheat oven
to 325 F 
    Drop cookie
dough 
    Bake for 15
min
```

#### <div> Div Element

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The <div> element is used as a container that divides an HTML document into sections and is short for "division". <div> elements can contain flow content such as headings, paragraphs, links, images, etc.

```
<h1>A section of
grouped
elements</h1>
  Here's some
text for the
section
</div>
<div>
  <h1>Second section
of grouped
elements</h1>
  Here's some
text
</div>
```

#### **HTML Structure**

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HTML is organized into a family tree structure. HTML elements can have parents, grandparents, siblings, children, grandchildren, etc.

# **Closing Tag**

> .

An HTML closing tag is used to denote the end of an HTML element. The syntax for a closing tag is a left angle bracket < followed by a forward slash / then the element name and a right angle bracket to close

<body>

# **Attribute Name and Values**

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HTML attributes consist of a name and a value using the following syntax:

name="value" and can be added to the opening tag of an HTML element to configure or change the behavior of the element.

<elementName
name="value">
</elementName>

#### <br > Line Break Element

The <br/>line break element will create a line break in text and is especially useful where a division of text is required, like in a postal address. The line break element requires only an opening tag and must not have a closing tag.

A line break haiku. <br> <br> Poems are a great use case. <br> Oh joy! A line break.

# <img> Image Element

elements embed images in documents. The src attribute contains the image URL and is mandatory.

<img> is an empty element meaning it should not have a closing tag.

<img
src="image.png">

# <h1>-<h6> Heading Elements



HTML can use six different levels of heading elements. The heading elements are ordered from the highest level <h1> to the lowest level <h6> .

<h1>Breaking
News</h1>
<h2>This is the 1st
subheading</h2>
<h3>This is the 2nd
subheading</h3>
...
<h6>This is the 5th
subheading</h6>

# > Paragraph Element

The paragraph element contains and displays a block of text.

This is a block of text! Lorem ipsum dolor sit amet, consectetur adipisicing elit.

# **Unique ID Attributes**

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In HTML, specific and unique id attributes can be assigned to different elements in order to differentiate between them. When needed, the id value can be called upon by CSS and JavaScript to manipulate, format, and perform specific instructions on that element and that element only. Valid id attributes should begin with a letter and should only contain letters ( a-Z ), digits ( 0-9 ), hyphens ( - ), underscores  $( _ )$ , and periods  $( _ )$ .

<h1 id="A1">Hello
World</h1>

#### **HTML Attributes**

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added to the opening tag of an element to configure the element or change the element's default behavior. In the provided example, we are giving the (paragraph) element a unique identifier using the id attribute and changing the color of the default text using the style attribute.

Here's some
text for a paragraph
that is being
altered by HTML
attributes

# Unordered List Element

The 
 ul> unordered list
 element is used to create a
 list of items in no particular
 order. Each individual list
 item will have a bullet point
 by default.

```
Play morePlay moreRead morebooks <a href="#">
```

### alt Attribute

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An <img> element can have alternative text via the alt attribute. The alternative text will be displayed if an image fails to render due to an incorrect URL, if the image format is not supported by the browser, if the image is blocked from being displayed, or if the image has not been received from the URL.

The text will be read aloud if screen reading software is used and helps support visually impaired users by providing a text descriptor for the image content on a webpage.

<img
src="path/to/image"
alt="text describing
image" />

# <body> Body Element

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The <body> element represents the content of an HTML document.

Content inside <body> tags are rendered on the web browsers.

**Note:** There can be only one <body> element in a document.

# <span> Span Element

The <span> element is an inline container for text and can be used to group text for styling purposes.

However, as <span> is a generic container to separate pieces of text from a larger body of text, its use should be avoided if a more semantic element is available.

# <body> <h1>Learn to code with Codecademy :) </h1> </body>

<span>This
text</span> may be
styled differently
than the surrounding
text.

# <strong> Strong Element

The <strong> element
highlights important,
serious, or urgent text and
browsers will normally
render this highlighted text
in **bold** by default.

```
This is
<strong>important</s
trong> text!
```

# **HTML Element**

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An HTML element is a piece of content in an HTML document and uses the following syntax: opening tag + content + closing tag. In the code provided:

- is the opening tag.
- Hello World! is the content.
- is the closing tag.

# **HTML Tag**

The syntax for a single
HTML tag is an opening
angle bracket < followed
by the element name and a
closing angle bracket > .
Here is an example of an
opening <div> tag.

Hello World!

<div>

#### <a> Anchor Element

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The <a> anchor element is used to create hyperlinks in an HTML document. The hyperlinks can point to other webpages, files on the same server, a location on the same page, or any other URL via the hyperlink reference attribute, href. The href determines the location the anchor element points to.

```
<!-- Creating text
links -->
<a
href="http://www.cod
ecademy.com">Visit
this site</a>
<!-- Creating image
links -->
<a
href="http://www.cod
ecademy.com">
    <img
src="logo.jpg">Click
this image
</a>
```

#### <head> Head Element



The <head> element
contains general
information about an HTML
page that isn't displayed on
the page itself. This
information is called
metadata and includes
things like the title of the
HTML document and links
to stylesheets.

```
<!DOCTYPE html>
<html>
    <head>
        <!-- Metadata is
contained in this
element-->
        </head>
</html>
```

# <target> Target Attribute

The target attribute on an <a> anchor element specifies where a hyperlink should be opened. A target value of "\_blank" will tell the browser to open the hyperlink in a new tab in modern browsers, or in a new window in older browsers or if the browser has had settings changed to open hyperlinks in a new window.

href="https://www.go
ogle.com"
target="\_blank">This
anchor element links
to google and will
open in a new tab or
window.</a>

#### Indentation



formatted such that the indentation level of text increases once for each level of nesting.

It is a common convention to use two or four space per level of nesting.

```
<div>
    <h1>Heading</h1>

        Item 1
        Item 2

</div>
```

# Link to a Different Part of the Page #

The anchor element <a>
can create hyperlinks to
different parts of the same
HTML document using the
href attribute to point to
the desired location with
# followed by the id of
the element to link to.

```
<div>
    A different part
of the page!
</div>
```

<a href="#id-ofelement-to-linkto">Take me to a different part of the page</a>

#### <html> HTML Element

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The <html> element, the root of an HTML document, should be added after the !DOCTYPE declaration. All content/structure for an HTML document should be contained between the opening and closing <html> tags.

# <!DOCTYPE html> <html> <!-- I'm a comment --> </html>

#### **Comments**

In HTML, comments can be added between an opening <!-- and closing --> .

Content inside of comments will not be rendered by browsers, and are usually used to describe a part of code or provide other details.

Comments can span single or multiple lines.

```
<!-- Main site
content -->
<div>Content</div>
<!--
Comments can be
multiple lines
```

long.

# Whitespace

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Whitespace, such as line breaks, added to an HTML document between block-level elements will generally be ignored by the browser and are not added to increase spacing on the rendered HTML page.
Rather, whitespace is added for organization and easier reading of the HTML document itself.

Test paragraph

<!-- The whitespace created by this line, and above/below this line is ignored by the browser-->

Another test
paragraph, this will
sit right under the
first paragraph, no
extra space between.

# <title> Title Element

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The <title> element
contains a text that defines
the title of an HTML
document. The title is
displayed in the browser's
title bar or tab in which the
HTML page is displayed. The
<title> element can only
be contained inside a
document's <head>
element.

```
<!DOCTYPE html>
<html>
    <head>
        <title>Title of
the HTML
page</title>
    </head>
</html>
```

#### File Path

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URL paths in HTML can be absolute paths, like a full URL, for example:

https://developer.mozill a.org/en-US/docs/Learn or a relative file path that links to a local file in the same folder or on the same server, for example:

./style.css . Relative file paths begin with ./ followed by a path to the local file. ./ tells the browser to look for the file path from the current folder.

<a

href="https://develo per.mozilla.org/en-US/docs/Web">The URL for this anchor element is an absolute file path. </a>

href="./about.html">
The URL for this
anchor element is
a relative file
path.</a>

# **Document Type Declaration**



The document type

declaration <!DOCTYPE

html> is required as the

first line of an HTML

document. The doctype

declaration is an instruction

to the browser about what

type of document to expect

and which version of HTML

is being used, in this case

it's HTML5.

<!DOCTYPE html>