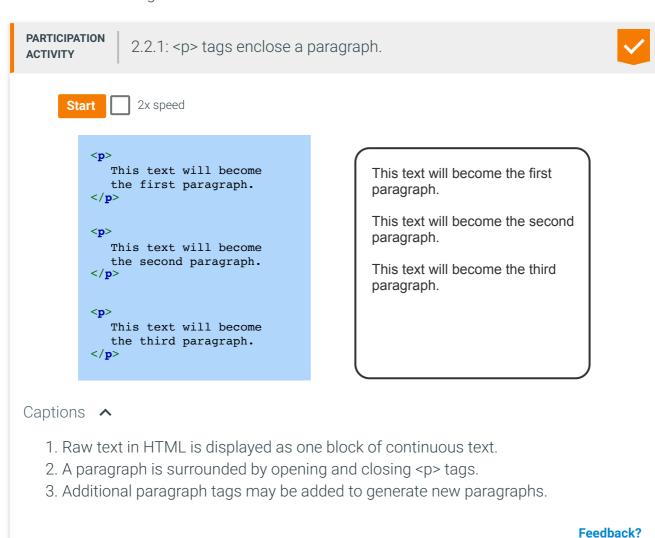
2.2 Basic HTML tags

Paragraphs

A **paragraph** is the basic unit of text in an HTML document. A paragraph is enclosed in HTML by the opening and closing tags. Browsers visually separate paragraphs from other text with spacing above and below.

A common error is forgetting the closing tag, or trying to put a paragraph inside of another paragraph. The web browser might render nested tags visually correct, but an HTML validator will generate an error.



PARTICIPATION ACTIVITY

2.2.2: Add tags to enclose the paragraphs.



The following HTML is an example with two paragraphs. Notice that blank lines do not start a new paragraph in the rendered webpage. Add opening and closing tags around each paragraph so that the rendered webpage shows two paragraphs.

Try adding extra spaces and blank lines between words to see how the rendered HTML changes.

- 1 This is the first sentence of the first paragraph. This is the set 2
- 3 This sentence is the first sentence of the second paragraph.
- 4 Here is the second sentence of the second paragraph.

Render webpage

Reset code

Your webpage

This is the first sentence of the first paragraph. This is the second sentence of the first paragraph. This sentence is the first sentence of the second paragraph. Here is the second sentence of the second paragraph.

▼ View solution

Explain

--- START FILE: HTML ---

This is the first sentence of the first paragraph. This is the second sentence of the first paragraph.This sentence is the first sentence of the second paragraph.

Here is the second sentence of the second paragraph.

--- END FILE: HTML ---

Feedback?

PARTICIPATION ACTIVITY

2.2.3: Valid or invalid HTML.



Determine if the following HTML is valid or invalid.

1) The first
 widely-used web
 browser was
 Netscape
 Navigator.
 Then came
 Internet
 Explorer.





The paragraph opening and closing tags are used properly to create two paragraphs. However, paragraphs are usually placed on separate lines to make the HTML more readable to humans.

Valid

O Invalid

2) Apache is an
 open-source web
 server.
 IIS is a web
 server created
 by Microsoft.

Valid

Invalid

Correct



Both paragraphs are missing paragraph closing tags

3) HTML is an acronym for HyperText Markup Language. The inspiration for HTML was SGML, the Standard Generalized Markup Language.
HTML is simpler than SGML and adds hyperlinks.
Valid

Correct

HTML rules prohibit placing a paragraph inside another paragraph.

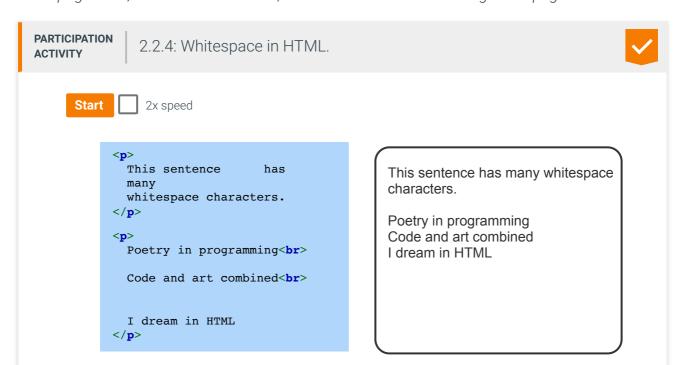
Feedback?

Whitespace and line breaks

Invalid

A **whitespace** character is an unprinted character such as the spaces between words and lines of text. Browsers treat all sequences of whitespace as a single space between non-whitespace characters. Ex: The three spaces in the HTML "hello there" will be displayed with a single space "hello there". Whitespace characters include spaces, tabs, and newlines. So, a browser treats multiple lines of text as a single line.

The **
br>** tag creates a **line break** in a paragraph, such that the content after the line break appears on a new line. Good practice is to use **
br>** when the line break is essential to the content, such as lines in a poem or mailing address, and not just to add spacing for formatting a webpage. CSS, discussed elsewhere, should be used for formatting a webpage.



Captions ^

- 1. Multiple spaces are displayed as one space when rendered.
- 2. Multiple blank lines are displayed as one space.
- 3. Adding
br> tags splits the displayed text into multiple lines.

Feedback?

PARTICIPATION ACTIVITY

2.2.5: Line break.



The following HTML fragment shows the address of the White House. Modify the HTML to include line breaks (**br>**) so the rendered webpage matches the expected webpage.

- 1 The White House
- 2 1600 Pennsylvania Avenue Northwest
- 3 Washington, DC 20500

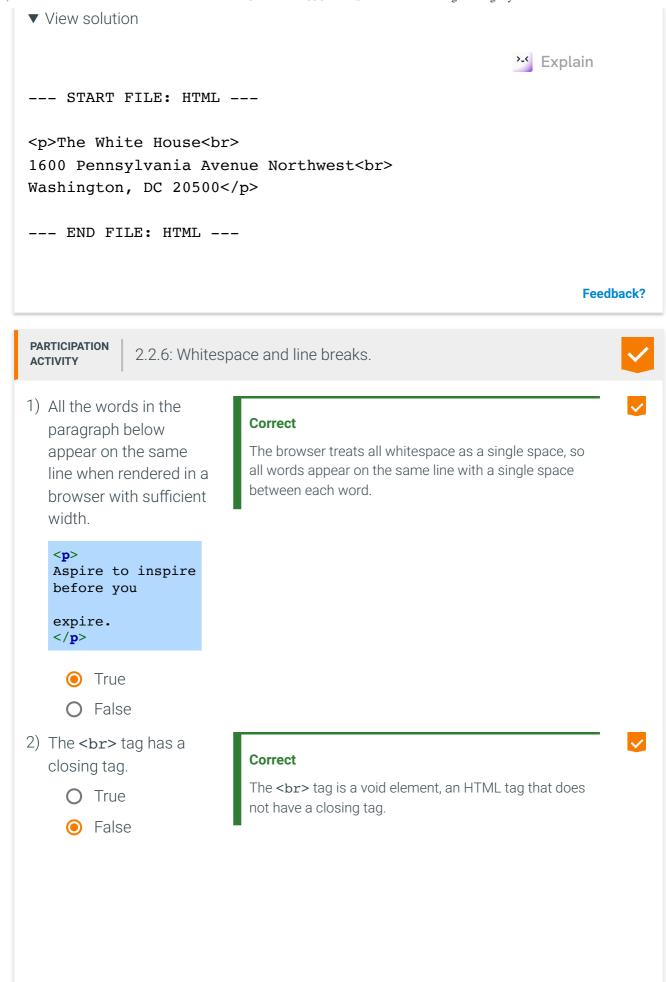
Render webpage

Reset code

Your webpage

Expected webpage

The White House 1600 Pennsylvania Avenue Northwest Washington, DC 20500 The White House 1600 Pennsylvania Avenue Northwest Washington, DC 20500

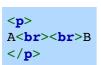


 The letters A and B appear on separate lines with a blank line in between when rendered in a browser.

Correct

A
br>B displays A and B on separate lines. A
br>B creates a blank line between A and B.







True



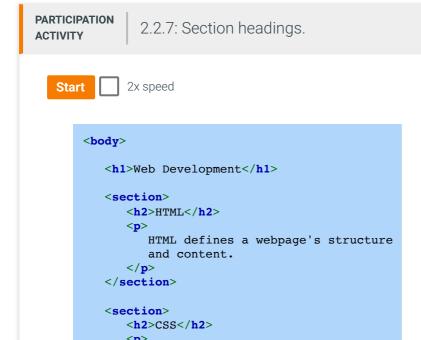
Feedback?

Sections and headings

A **section** is a collection of related content. Many documents can be organized into sections, with each section being wrapped in a **<section>** tag. Ex: A scholarly article's abstract, introduction, main content, and references can each be wrapped in a **<section>** tag.

A **heading** provides a title for each section. Headings are bold by default and are visually separated from the other text by extra spacing. Heading tags exist for the first six levels of sections: **<h1>**, **<h2>**, **<h3>**, **<h4>**, **<h5>**, and **<h6>**. Headings are helpful to users who skim through a webpage, to assistive technologies like screen readers, and to search engines.

Good practice is to label each section with a heading and to select a heading tag that matches the document's hierarchical structure. A common error is to choose a heading tag based on the desired font size.



CSS specifies a webpage's layout

and visible appearance.

Web Development

HTML

HTML defines a webpage's structur and content.

CSS

CSS specifies a webpage's layout and visible appearance.

JavaScript

JavaScript describes a webpage's dynamic behaviors and actions.

</section>

Captions ^

- 1. A webpage usually has a single h1 heading. The heading is visually separated from other text by extra spacing and is displayed with a larger font.
- 2. Each section starts with an h2 heading, which has a smaller font than the h1 heading.

Feedback?

PARTICIPATION ACTIVITY

2.2.8: Sections and headings.



- A < section > tag should be placed inside a heading tag.
 - True
 - False
- 2) An <h3> tag should be placed inside a tag.
 - True
 - False
- 3) If <h1> text appears too big, <h2> or <h3> tags should be used to decrease the text size.
 - True
 - False

Correct

A <section> tag should contain a heading tag, but a heading should only have text in between the opening and closing tags.

Correct

Heading tags should appear outside of and immediately before paragraph tags.

Correct

A heading tag is used to indicate the title and level of a section and not the formatting of section headings. The visual appearance of the heading tags can be changed with CSS.

Feedback?

PARTICIPATION ACTIVITY

2.2.9: Headings activity.



The following HTML is missing headings. Add <h1> tags around the "Bill of Rights" section title, and <h2> tags around each "Article" section title, so that your webpage

matches the expected webpage.

Render webpage

Reset code

Your webpage

Expected webpage

Bill of Rights

The following are the bill of rights of the USA

Article 1

Body of article 1

Article 2

Body of article 2

Bill of Rights

The following are the bill of rights of the USA

Article 1

Body of article 1

Article 2

Body of article 2

▶ View solution

Feedback?

PARTICIPATION ACTIVITY

2.2.10: Hierarchical structure of documents.



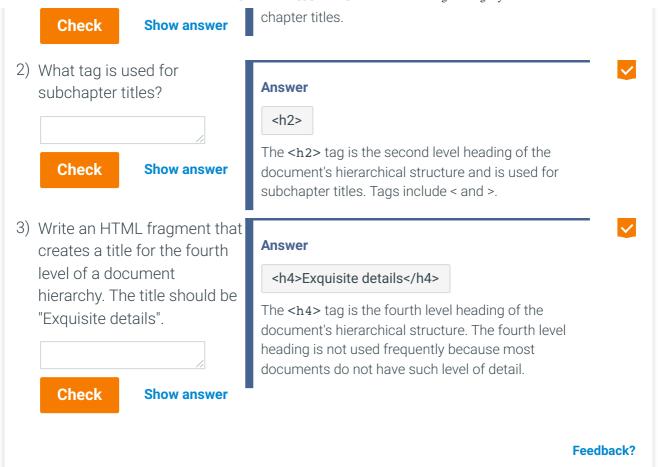
1) Write a heading for a book chapter titled "Introduction".



Answer

<h1>Introduction</h1>

The <h1> tag is used for the top level of the document's hierarchical structure and is used for



Text formatting

A number of HTML tags cause the enclosed text to render in a different font in the browser:

- The **** tag indicates **emphasized** text, such as text having an emphasized pronunciation when spoken, and is italicized by default.
- The **** tag indicates text that has **strong importance**, and is bolded by default.
- The **<cite>** tag denotes a title, such as a book or song title, and is italicized by default. Ex:
 - <cite>Spaceballs</cite> is a parody of the <cite>Star Wars</cite>
 yields: Spaceballs is a parody of the Star Wars trilogy.
- The <mark> tag denotes important content that should be semantically highlighted and is rendered with a yellow background by default. Ex:
 <mark>Highlight</mark> what is important. yields: Highlight what is important.
- The tag indicates text that needs attention, like key words in a document abstract
 or product names in a review, and renders the text in bold. Ex: Mix the flour and oil
 together.
- The <i> tag indicates text in an alternative voice, such as a word or phrase in a foreign language, and is rendered using italics. Ex: Dashi is a stock used in Japanese cooking.
- The **<u>** tag denotes text that should appear differently from normal text, such as misspelled words, and is underlined by default. Ex: Misspelled is often misspelled as

mispelled.

Note

Historically, in HTML4, the , <i>, and <u> tags were used to render text and did not have meaning, or semantics. Good practice is to avoid formatting tags whenever possible, and instead use tags to indicate meaning. Ex: The <i> tag can be used to emphasize text, but the tag should be used to convey emphasis.

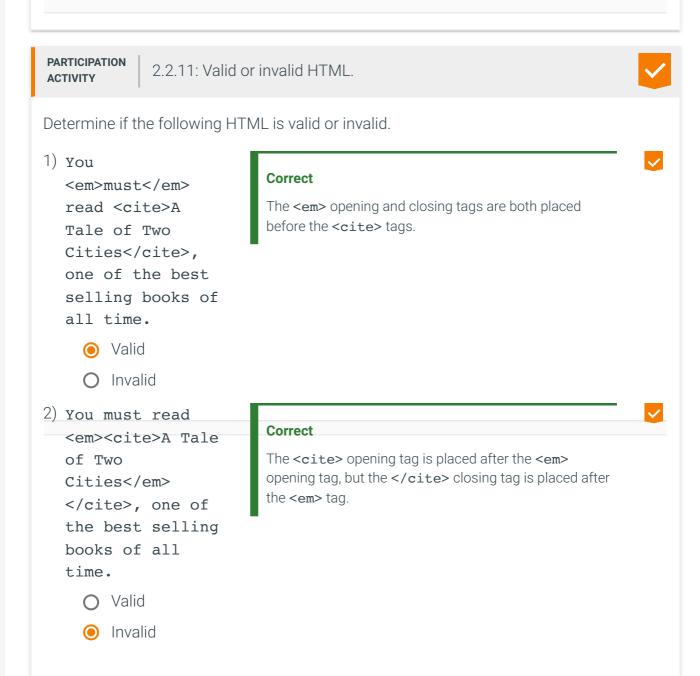
Table 2.2.1: Text-formatting tags.

HTML tag	HTML example	Rendered	Semantics
em	emphasis	emphasis	Emphasized text
cite	<cite>cite</cite>	cite	Title of a work
strong	strong	strong	Important text
mark	<mark>mark</mark>	<mark>mark</mark>	Marked or highlighted text
var	<var>variable</var>	variable	Definition of a variable in a computer program
kbd	<kbd>keyboard</kbd>	keyboard	Keyboard input
code	<code>code</code>	code	Computer code
samp	<samp>sample</samp>	sample	Sample output from a computer
b	bold	bold	Bold text
i	<i>i>italic</i>	italic	Text of an alternate voice or word from another language
u	<u>underline</u>	underline	Text that is rendered differently from normal text

Feedback?

Note

Many CSS libraries, such as Font Awesome and Bootstrap, use the <i>tag to insert icons or simple images. See <u>W3Schools Icons Tutorial</u> for more details.



3) You must
 read <cite>A
 Tale of Two
 Cities</cite>,
 one of the best
 selling books of
 all time.

Correct

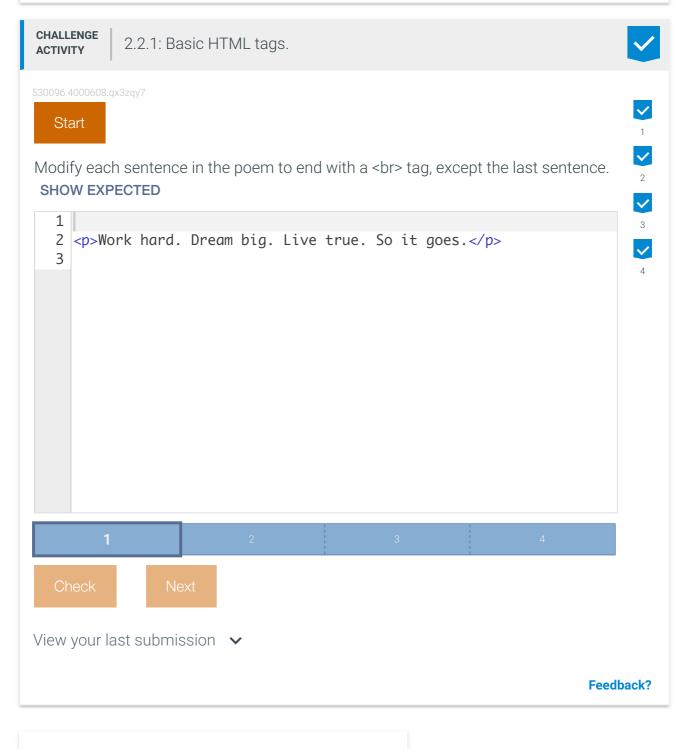
~

The <cite> opening and closing tags may be placed between the opening and closing tags. The entire sentence is being emphasized.

Valid

O Invalid

Feedback?



Exploring further:

<u>Headings and Sections</u> from HTML Living Standard <u>HTML Text Formatting</u> from W3Schools

How was this section?



Provide section feedback