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# New HTML5 semantic elements

## New HTML5 semantic elements

We will elaborate on selected semantic elements in detail in the next unit.

Semantic Element	Description	Example
<b>&lt;header&gt;</b>	Introduction for the whole page or individual sections, article, nav, aside elements. Typically contains site name, logo, navigation. Does not have to be at the beginning of page.	<pre>&lt;header&gt; &lt;h1&gt;The Importance of Being Earnest&lt;/h1&gt; &lt;h3&gt;A Quest for Truth and Beauty&lt;/h3&gt; &lt;p&gt;The play was written in 1895 by playwright Oscar Wilde&lt;/p&gt; &lt;/header&gt;</pre>
<b>&lt;footer&gt;</b>	Includes typical footer information like authoring, copyrights, contact information and a footer menu.	<pre>&lt;footer&gt; &lt;p&gt;Written by: Oscar Wilde&lt;/p&gt; &lt;p&gt;Contact information: &lt;a href="mailto:oscar@wilde.com"&gt;oscar@wilde.com&lt;/a&gt;.&lt;/p&gt; &lt;/footer&gt;</pre>
<b>&lt;nav&gt;</b>	Navigation links for the document. A page can have more than one <nav> element like table of contents, horizontal navigation in header and footer navigation.	<pre>&lt;nav&gt;&lt;ol&gt; &lt;li&gt;&lt;a href="/act1/"&gt;Act 1&lt;/a&gt; &lt;/li&gt; &lt;li&gt;&lt;a href="/act2/"&gt;Act 2&lt;/a&gt;&lt;/li&gt; &lt;li&gt;&lt;a href="/act3/"&gt;Act 3&lt;/a&gt;&lt;/li&gt; &lt;/ol&gt;&lt;/nav&gt;</pre>
<b>&lt;section&gt;</b>	Defines sections in the document such as chapters, headers, etc. Typically used on content that cannot make sense on its own.	<pre>&lt;section&gt; &lt;h1&gt;Act 1 - Scene 1&lt;/h1&gt; &lt;p&gt;Set in the morning room of Algy's flat in Half Moon Street&lt;/p&gt; &lt;/section&gt;</pre>

<b>&lt;article&gt;</b>	Defines independent content that should make sense on its own outside of the document such as newspaper articles, blog posts, etc.	<pre>&lt;article&gt; &lt;h1&gt;A blogger's analysis of this brilliant satire&lt;/h1&gt; &lt;p&gt;This witty, sometimes conscious play is Wilde's playground to raise his progressive sentiments...&lt;/p&gt; &lt;/article&gt;</pre>
<b>&lt;aside&gt;</b>	Side content other than main content, like a sidebar. These are not considered as part of the main page outline.	<pre>&lt;p&gt;Algernon's flat is luxuriously and artistically furnished&lt;/p&gt;  &lt;aside&gt; &lt;h3&gt;Algernon Moncrieff&lt;/h3&gt; &lt;p&gt;A wealthy bachelor who lives in a fashionable part of London. He has a good sense of humor and utter lack of respect for society.&lt;/p&gt; &lt;/aside&gt;</pre>
<b>&lt;details&gt;</b>  <b>*see example below</b>	A way to provide additional information that the user can show or hide. Content that is shown to user by default. Other content is hidden and can be expanded to view.	<pre>&lt;details&gt; &lt;summary&gt;Cast Members&lt;/summary&gt; &lt;p&gt;George Washington as Algernon Moncrieff&lt;/p&gt; &lt;p&gt;Ronald Reagan as John Worthing&lt;/p&gt; &lt;/details&gt;</pre>
<b>&lt;figcaption&gt;</b>  <b>*see example below</b>	Provides a caption (explanation) of an image. To be used within <figure>.	<pre>&lt;figure&gt; &lt;img src="img_cast.jpg" alt="The Importance of Being Earnest Cast"&gt; &lt;figcaption&gt;Fig1. - The cast hard at work at dress rehearsal before opening night&lt;/figcaption&gt; &lt;/figure&gt;</pre>
<b>&lt;figure&gt;</b>	Contains an image and can be used to group with an image's caption	Refer to <figcaption>
<b>&lt;mark&gt;</b>  <b>*see example below</b>	Defines a part of a text you want to highlight. The highlight styling is specified in CSS.	<pre>&lt;h4&gt;Lane: &lt;/h4&gt;&lt;p&gt;Yes sir. [&lt;mark&gt;Handing his master the sandwiches on a salver&lt;/mark&gt;] &lt;/p&gt;</pre>

<b>&lt;summary&gt;</b>	Used within the <details> tag. Specifies the visible content. The rest of the content in details is shown/hidden by user.	<code>&lt;details&gt; &lt;summary&gt;Cast Members&lt;/summary&gt; &lt;p&gt;George Washington as Algernon Moncrieff&lt;/p&gt; &lt;p&gt;Ronald Reagan as John Worthing&lt;/p&gt; &lt;/details&gt;</code>
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### <details> element

The <details> tag is very cool. It is used in conjunction with a nested <summary> tag and some other content. The result is that the summary is shown with a disclosure triangle alongside it, and the other content is initially hidden. By clicking the triangle, the other content is displayed to the user. This requires no JavaScript and is a simple way to get a powerful and desirable feature.

Below we see the HTML, and you can try it out for yourself! Note that the <details> tag works in most Web browsers.

HTML	Result / Try It!
<div><div><div>1. <code>&lt;details&gt;</code></div><div>2.     <code>&lt;summary&gt;</code>Cast Members<code>&lt;/summary&gt;</code></div><div>3.     <code>&lt;p&gt;</code>George Washington as Algernon Moncrieff<code>&lt;/p&gt;</code></div><div>4.     <code>&lt;p&gt;</code>Ronald Reagan as John Worthing<code>&lt;/p&gt;</code></div><div>5. <code>&lt;/details&gt;</code></div></div></div> <div>► Cast Members</div>	

► Details

See also the current [browser support](#) (on caniuse.com).

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## <figcaption> element

This element is used to provide a caption or explanation of the image (figure). While the `alt` attribute explains the image for assistive technology, `<figcaption>` can be used to provide additional information for all users.

```
1. <figure>
2.   
3.   <figcaption>Fig1. - The cast hard at work at dress
   rehearsal before opening night</figcaption>
4. </figure>
```

Result:



Fig1. - The cast hard at work at dress rehearsal before opening night

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## <mark> element

This element is used to specify content that you want to highlight.

1. **Lane:** `</h3><p>Yes sir. [<mark>Handing his master the sandwiches on a salver</mark>]``</p>`

Most browsers will display mark element with a yellow background to black text by default, however, if it doesn't, you can specify the styling in CSS. See also the current [browser support](https://caniuse.com/mark) (on caniuse.com).

## Effect of semantic elements

If you have had a chance to try the examples of the semantic elements discussed above, you will notice that semantic elements are not visually promising in general. Only a few semantic elements such as `<mark>`, `<em>`, `<strong>` and `<code>` provide some kind of visual change to the document. The rest don't do anything except providing the structure for your document.

A good example is `<aside>`. The `<aside>` element is used for side content other than the main content, such as a sidebar, but it does not actually create a sidebar in your page. Sidebar is a user interface (UI) element and must be styled to achieve the look of a sidebar. The following code will only create structure to your document, not any visual change:

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## Lesser known semantic elements (OPTIONAL)

**Note:** This section is optional material included for the curious. It will not appear on any graded question.

We will look at a few more semantic elements that are commonly in use but lesser known.

Semantic Element	Description	Example
<code>&lt;code&gt;</code>	Used to represent short computer code in a sentence. It displays code in default monospace font.	<code>&lt;p&gt;For larger code snippets, you should use the &lt;code&gt;pre tag&lt;/code&gt;.&lt;/p&gt;</code>
<code>&lt;abbr&gt;</code>	Used to indicate the occurrence of an abbreviation.	<code>&lt;abbr title="Hypertext Markup Language"&gt;HTML&lt;/abbr&gt;</code>
<code>&lt;br&gt;</code>	Used to introduce a line break in your HTML document.	<code>&lt;br&gt;</code>
<code>&lt;address&gt;</code>	Used to supply contact information for its nearest <code>&lt;article&gt;</code> or <code>&lt;body&gt;</code> ancestor.	<code>&lt;address&gt; &lt;a href="www.example.com"&gt;John Doe&lt;/a&gt;&lt;br&gt; #123, Doe Villa&lt;br&gt; Los Angeles, USA &lt;/address&gt;</code>
<code>&lt;hr&gt;</code>	Used to introduce a horizontal line in your HTML document.	<code>&lt;p&gt;Hello&lt;/p&gt;&lt;hr&gt;&lt;p&gt;World!&lt;/p&gt;</code>

Apart from these, `<cite>`, `<em>`, `<strong>`, `<p>` and `<blockquote>` are also semantic elements.

## Knowledge check 2.3.3 (not graded)

0 points possible (ungraded)

True or False? You are designing a Web page to store your grandmother's recipes. Each recipe should be enclosed in a section element.

☒ False ✓

☐ True

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