

New HTML5 semantic elements

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

Semantic Element	Description	Example
<header>	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><header> <h1>The Importance of Being Earnest</h1> <h3>A Quest for Truth and Beauty</h3> <p>The play was written in 1895 by playwright Oscar Wilde</p> </header></pre>
<footer>	Includes typical footer information like authoring, copyrights, contact information and a footer menu.	<pre><footer> <p>Written by: Oscar Wilde</p> <p>Contact information: oscar@wilde.com.</p> </footer></pre>
<nav>	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><nav> Act 1 Act 2 Act 3 </nav></pre>
<section>	Defines sections in a document like chapters, headers, etc. Typically used on content that cannot make sense on its own.	<pre><section> <h1>Act 1 - Scene 1</h1> <p>Set in the morning room of Algy's flat in Half Moon Street</p> </section></pre>
<article>	Used to define independent content that should make sense on its own outside of the document like newspaper articles, blog posts, etc.	<pre><article> <h1>A blogger's analysis of this brilliant satire</h1> <p>This witty, sometimes conscious play is Wilde's playground to raise his progressive sentiments...</p> </article></pre>
<aside>	Side content other than main content, like a	<pre><p>Algernon's flat is luxuriously and</pre>

	<p>sidebar. These are not considered as part of the main page outline.</p>	<p>artistically furnished</p></p> <pre><aside> <h3>Algernon Moncrieff</h3> <p>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.</p> </aside></pre>
<p><details></p> <p>*see example below</p>	<p>A way to provide additional information that the user can show or hide. Contains that is shown to user by default. Other content is hidden and can be expanded to view.</p>	<pre><details> <summary>Cast Members</summary> <p>George Washington as Algernon Moncrieff</p> <p>Ronald Reagan as John Worthing</p> </details></pre>
<p><figcaption></p> <p>*see example below</p>	<p>Used to provide a caption (explanation) of an image. To be used within <figure>.</p>	<pre><figure> <figcaption>Fig1. - The cast hard at work at dress rehearsal before opening night</figcaption> </figure></pre>
<p><figure></p>	<p>Contains an image and can be used to group with an image's caption</p>	<p>Refer to figcaption</p>
<p><mark></p> <p>*see example below</p>	<p>Defines a part of a text you want to highlight. The highlight styling is specified in CSS.</p>	<pre><h4>Lane: </h4><p>Yes sir. [<mark>Handing his master the sandwiches on a salver</mark>]</p></pre>
<p><summary></p>	<p>Used within the <details> tag. Specifies the visible content. The rest of the content in details is shown/hidden by user.</p>	<pre><details> <summary>Cast Members</summary> <p>George Washington as Algernon Moncrieff</p> <p>Ronald Reagan as John Worthing</p> </details></pre>

<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.

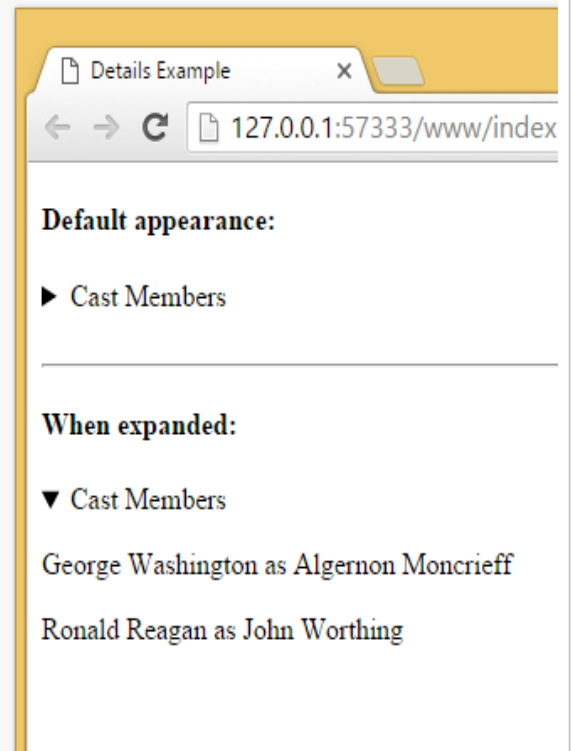
Below we see the HTML, and you can try it out for yourself! Note that the `<details>` tag only works in Chrome and Safari.

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

```

1  <!DOCTYPE html>
2  <html>
3
4  <head>
5      <title>Details Example</title>
6  </head>
7
8  <body>
9
10     <h4>Default appearance:</h4>
11
12     <details>
13         <summary>Cast Members</summary>
14         <p>George Washington as Algernon Moncrieff</p>
15         <p>Ronald Reagan as John Worthing</p>
16     </details>
17
18     <br><hr>
19
20     <h4>When expanded:</h4>
21
22     <details>
23         <summary>Cast Members</summary>
24         <p>George Washington as Algernon Moncrieff</p>
25         <p>Ronald Reagan as John Worthing</p>
26     </details>
27
28 </body>
29
30 </html>

```



See also the current browser support (on caniuse).

<FIGCAPTION> ELEMENT

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

<MARK> ELEMENT

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

1. **Lane:**

Yes sir. [**Handing his master the sandwiches on a salver**]

```

1  <!DOCTYPE html>
2  <html>
3
4  <head>
5      <title>Mark Example</title>
6  </head>
7
8  <body>
9      <h3>Lane: </h3>
10     <p>Yes sir.
11         <mark>[Handing his master the sandwiches on a salver]</mark>
12     </p>
13 </body>
14
15 </html>

```

Mark Example

127.0.0.1:54667/www/index.html

Lane:

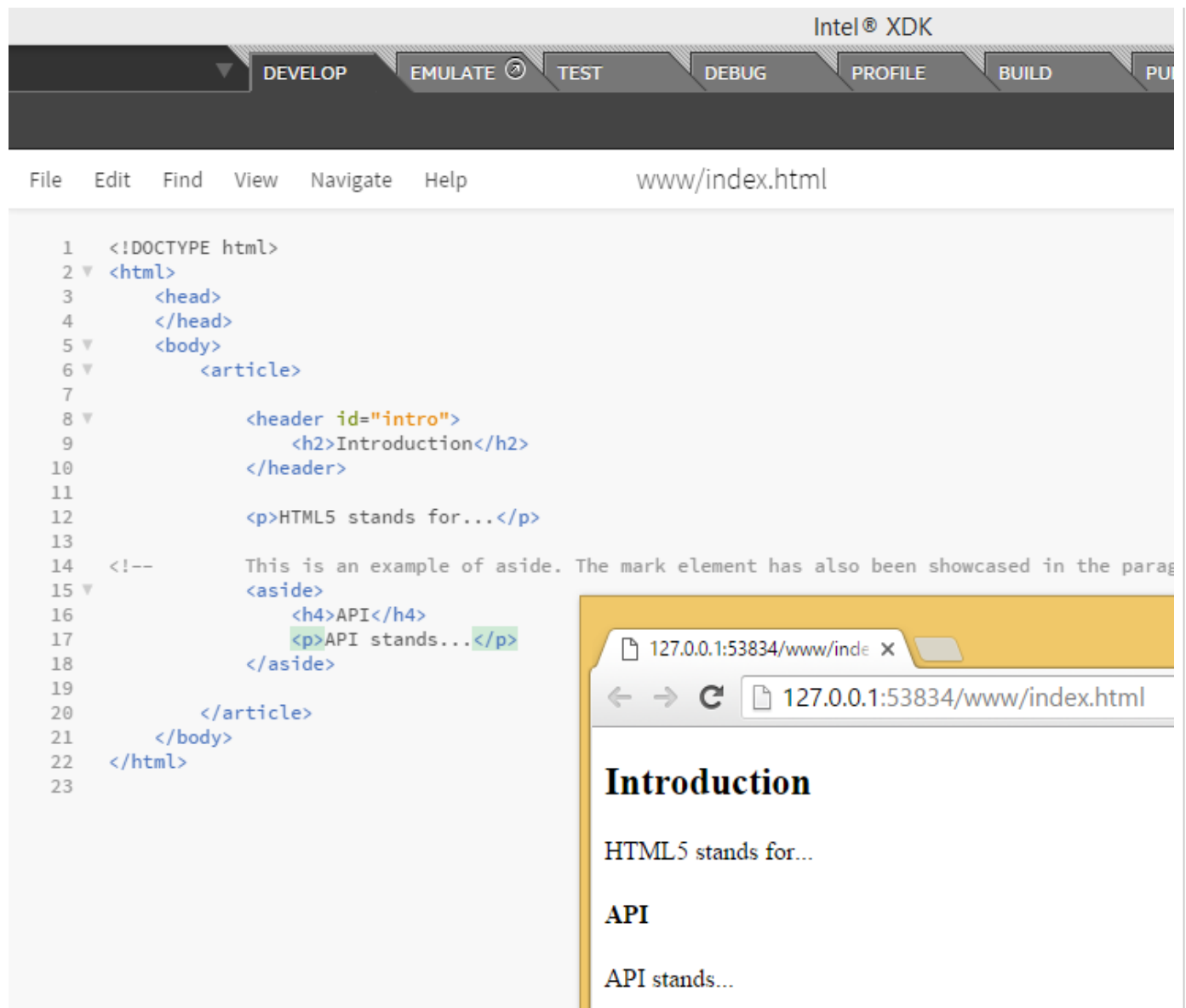
Yes sir. [Handing his master the sandwiches on a salver]

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.

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 like `<mark>`, ``, `` and `<code>` provide some kind of visual change to the document. The rest don't do anything except provide structure to your document.

A good example is `<aside>`. `<aside>` is used for side content other than main content, like 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:



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>	Used to represent short computer code in a sentence. It displays code in default monospace font.	<p>For larger code snippets, you should use the <code>pre tag</code>.</p>

<abbr>	Used to indicate the occurrence of an abbreviation.	<abbr title="Hypertext Markup Language">HTML</abbr>
 	Used to introduce a line break in your HTML document	<address> John Doe #123, Doe Villa Los Angeles, USA </address>
<hr>	Used to introduce a horizontal line in your HTML document	<p>Hello</p><hr><p>World!</p>

Apart from these, <address>, <cite>, , , <p> and <blockquote> are also semantic elements.

Knowledge check 2.3.3 (not graded)

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

☐ True

☐ False

?