





- Introduction to HTML
- Semantic HTML5
- Audio & Video
- Graphics
- Device Access
- HTML5 Simplicity





- At the end of this topic, you should be able to
 - Understand the components of an HTML5 document.
 - Use basic HTML5 elements.



HTML Document Structure





- HTML5 is the new standard for HTML.
- HTML5 is still a work in progress, but most modern browsers have some HTML5 support.
- HTML5 is a cooperation between the World Wide Web Consortium (W3C) and the Web Hypertext Application Technology Working Group (WHATWG).







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- Semantic elements = elements with a meaning.
- Examples of non-semantic elements: <div> and Tells nothing about its content.
- Examples of semantic elements: <form>, , and <article> Clearly defines its content.





Some Useful
HTML Semantic
Tags And How To
Use Them

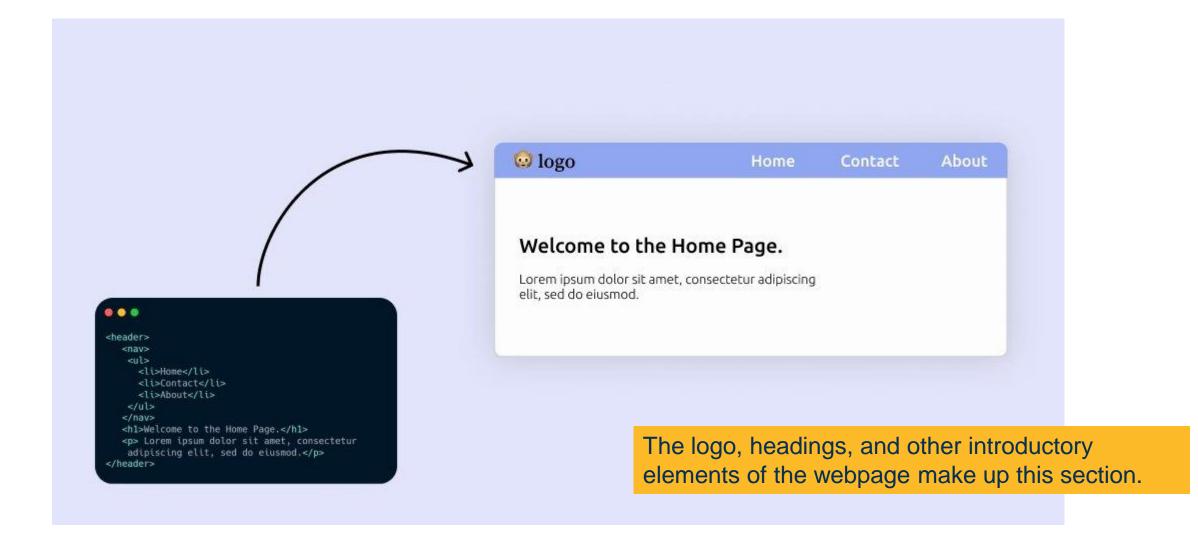
















It includes illustrations, code examples, and images.

To add a caption, we can just use the <figcaption> tag also.







<figcaption> tag simply puts a
 caption to the image
 specified.





SLIDE 12

```
<h1>Welcome to Dev Blog</h1>
 Web dev and design.
 <article>
   <h2>HTML</h2>
   Lorem ipsum dolor sit amet, consectetur adipiscing
elit, sed do eiusmod.
 </article>
 <article>
   <h2>CSS</h2>
   Lorem ipsum dolor sit amet, consectetur adipiscing
elit, sed do eiusmod.
 </article>
  <article>
   <h2>JavaScript</h2>
   Lorem ipsum dolor sit amet, consectetur adipiscing
elit, sed do eiusmod.
 </article>
</main>
```

Welcome to Dev Blog

Web dev and design.

HTML

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod.

CSS

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod.

JavaScript

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod.

This is the body (all the necessary content) of our page. It's important to keep in mind that a document should only have one <main> tag.





```
<section>
<section>
<h1>Welcome to Dev 8log</h1>

<article>
<h2>HTML</h2>

    Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod.

</article>
<article>
<h2>JavaScript</h2>

    Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod.

</article>
<h2>JavaScript</h2>

    Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod.

</article>
```

Welcome to Dev Blog

HTML

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod.

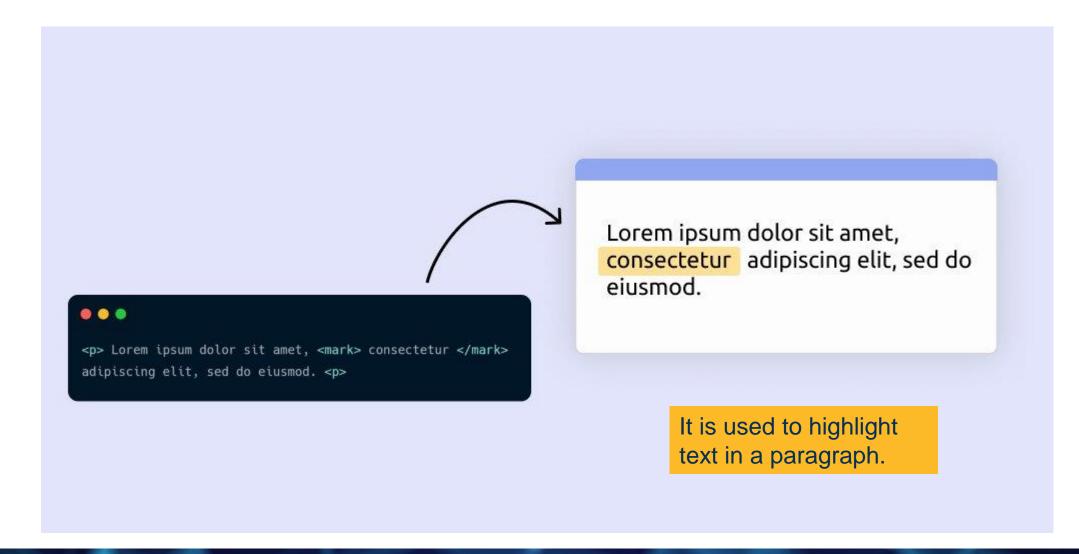
JavaScript

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod.

A section tag is used to group content together, whereas an article tag is a standalone element that can be placed anywhere on our page, such as in a blog post.

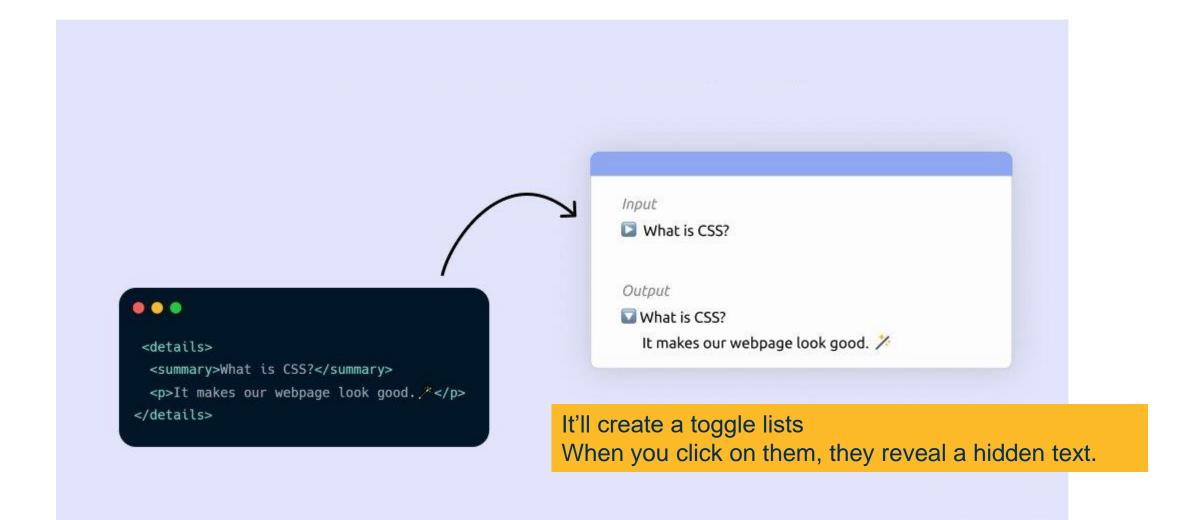














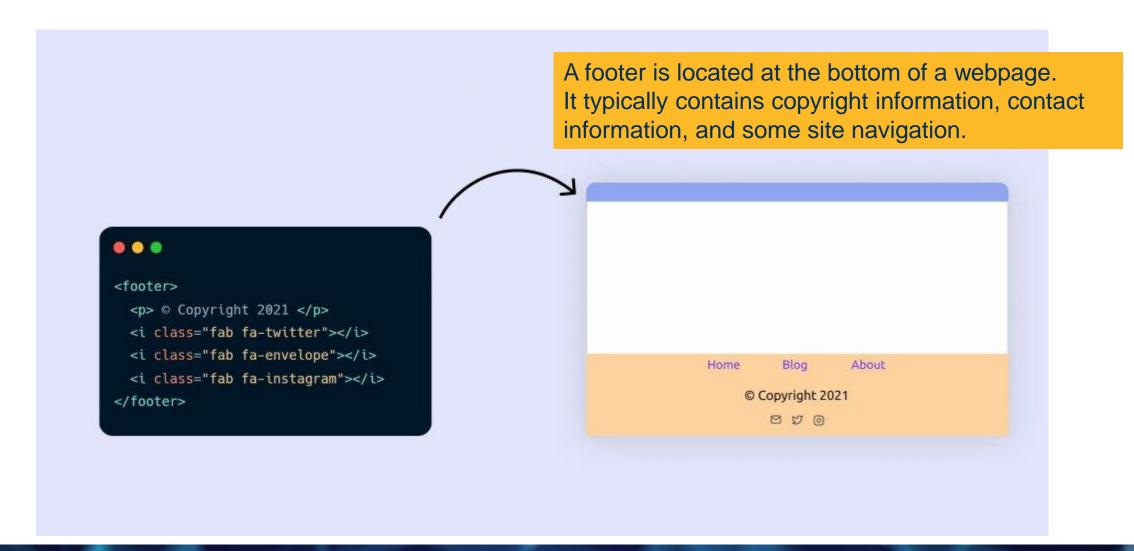


You've probably seen a sidebar on a blog site with related articles or contact information. It all comes under the aside tag.













Tag	Description
<audio></audio>	Defines sound content
<source/>	Defines multiple media resources for media elements (<video>, <audio> and <picture>)</picture></audio></video>
<track/>	Defines text tracks for media elements (<video> and <audio>)</audio></video>
<video></video>	Defines a video or movie





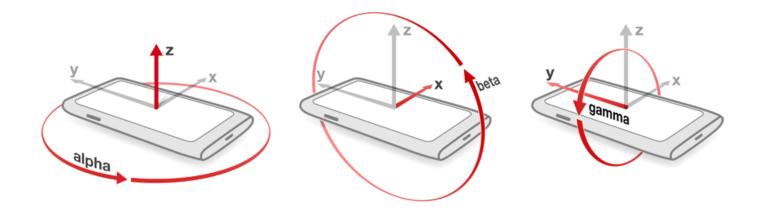
Tag	Description
	Defines an image
<map></map>	Defines a client-side image map
<area/>	Defines an area inside an image map
<canvas></canvas>	Used to draw graphics, on the fly, via scripting (usually JavaScript)
<picture></picture>	Defines a container for multiple image resources
<svg></svg>	Defines a container for SVG graphics





• URI Schemes:

- Making a Call Call Me Now!
- Send a SMS Text me!
- Geolocation API
- Device Orientation Events







Doctype:

 Opportunities to simplify come right at the beginning of your HTML file. Instead of something like this:

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

becomes

<!DOCTYPE html>





- Character encoding
 - We can shorten this:

```
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8"/>
```

becomes

<meta charset="UTF-8"/>





Script/ Style default types

```
<script type="text/javascript">var x=1;</script>
<style type="text/css">body{ margin:0 }</style>
```

becomes

```
<script>var x=1;</script>
<style>body{ margin:0 }</style>
```



Can these HTML produce the same interface layout?

```
<header>
Page title
</header>
<nav>
Page links
</nav>
<article> Blog entry #1
</article>
<article> Blog entry #2
</article>
<section class="thoughts">
Random thoughts
</section>
<footer> copyright </footer>
```

```
<div class="header">
Page title
</div>
<div class="navigation">
Page links
</div>
<div class="article"> Blog
entry #1 </div>
<div class="article"> Blog
entry #2 </div>
<div class="thoughts">
Random thoughts
</div>
<div class="footer"> copyright
</div>
```





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Q&A