Tag	Description	
<u><!--</u--></u>	Defines a comment	
	Defines the document type	
<u><a></u>	Defines a hyperlink	
<abbr></abbr>	Defines an abbreviation or an acronym	
<address></address>	Defines contact information for the author/owner of a document	
<area/>	Defines an area inside an image map	
<article></article>	Defines an article	
<aside></aside>	Defines content aside from the page content	
<audio></audio>	Defines embedded sound content	
<u></u>	Defines bold text	
<base/>	Specifies the base URL/target for all relative URLs in a document	
<u><bdi></bdi></u>	Isolates a part of text that might be formatted in a different direction from other text outside it	
<bd><bdo></bdo></bd>	Overrides the current text direction	
 	Defines a section that is quoted from another source	
 body>	Defines the document's body	
 	Defines a single line break	
<but></but>	Defines a clickable button	
<canvas></canvas>	Used to draw graphics, on the fly, via scripting (usually JavaScript)	
<caption></caption>	Defines a table caption	
<cite></cite>	Defines the title of a work	
<code></code>	Defines a piece of computer code	
<u><col/></u>	Specifies column properties for each column within a <colgroup> element</colgroup>	
<colgroup></colgroup>	Specifies a group of one or more columns in a table for formatting	
<data></data>	Adds a machine-readable translation of a given content	
<datalist></datalist>	Specifies a list of pre-defined options for input controls	
<u><dd></dd></u>	Defines a description/value of a term in a description list	
	Defines text that has been deleted from a document	

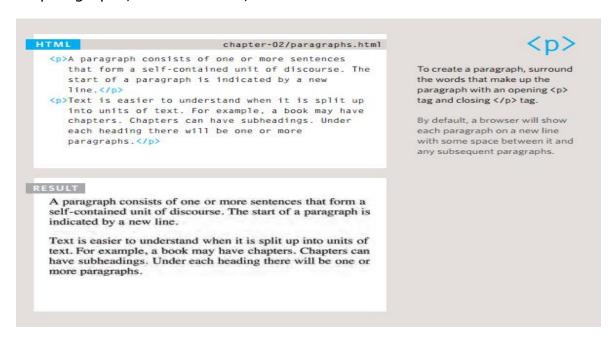
<details></details>	Defines additional details that the user can view or hide	
<u><dfn></dfn></u>	Specifies a term that is going to be defined within the content	
<dialog></dialog>	Defines a dialog box or window	
<div></div>	Defines a section in a document	
< <u>dl></u>	Defines a description list	
<u><dt></dt></u>	Defines a term/name in a description list	
<u></u>	Defines emphasized text	
<embed/>	Defines a container for an external application	
<fieldset></fieldset>	Groups related elements in a form	
<figcaption></figcaption>	Defines a caption for a <figure> element</figure>	
<figure></figure>	Specifies self-contained content	
<footer></footer>	Defines a footer for a document or section	
<form></form>	Defines an HTML form for user input	
<h1> to <h6></h6></h1>	Defines HTML headings	
<head></head>	Contains metadata/information for the document	
<header></header>	Defines a header for a document or section	
<hgroup></hgroup>	Defines a header and related content	
<u><hr/></u>	Defines a thematic change in the content	
<html></html>	Defines the root of an HTML document	
<u><i>></i></u>	Defines a part of text in an alternate voice or mood	
<iframe></iframe>	Defines an inline frame	
	Defines an image	
<input/>	Defines an input control	
<ins></ins>	Defines a text that has been inserted into a document	
<kbd></kbd>	Defines keyboard input	
< <u>label></u>	Defines a label for an <input/> element	
<legend></legend>	Defines a caption for a <fieldset> element</fieldset>	
<u></u>	Defines a list item	
k>	Defines the relationship between a document and an external resource (most used to link to style sheets)	

<main></main>	Specifies the main content of a document	
<u><map></map></u>	Defines an image map	
<mark></mark>	Defines marked/highlighted text	
<menu></menu>	Defines an unordered list	
<meta/>	Defines metadata about an HTML document	
<meter></meter>	Defines a scalar measurement within a known range (a gauge)	
<u><nav></nav></u>	Defines navigation links	
<noscript></noscript>	Defines an alternate content for users that do not support client-side scripts	
<object></object>	Defines a container for an external application	
<u><0 ></u>	Defines an ordered list	
<optgroup></optgroup>	Defines a group of related options in a drop-down list	
<option></option>	Defines an option in a drop-down list	
<output></output>	Defines the result of a calculation	
<u></u>	Defines a paragraph	
<pre><param/></pre>	Defines a parameter for an object	
<pre><picture></picture></pre>	Defines a container for multiple image resources	
<pre><pre><</pre></pre>	Defines preformatted text	
<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	Represents the progress of a task	
<u><q></q></u>	Defines a short quotation	
<u><rp></rp></u>	Defines what to show in browsers that do not support ruby annotations	
<u><rt></rt></u>	Defines an explanation/pronunciation of characters (for East Asian typography)	
<ruby></ruby>	Defines a ruby annotation (for East Asian typography)	
<u><s></s></u>	Defines text that is no longer correct	
<samp></samp>	Defines sample output from a computer program	
<script></td><td>Defines a client-side script</td></tr><tr><td><search></td><td>Defines a search section</td></tr><tr><td><section></td><td>Defines a section in a document</td></tr><tr><td><select></td><td>Defines a drop-down list</td></tr></tbody></table></script>		

<small></small>	Defines smaller text	
<source/>	Defines multiple media resources for media elements (<video> and <audio>)</audio></video>	
	Defines a section in a document	
	Defines important text	
<style></td><td colspan=2>Defines style information for a document</td></tr><tr><td><sub></td><td colspan=2>Defines subscripted text</td></tr><tr><td><summary></td><td>Defines a visible heading for a <details> element</td></tr><tr><td><sup></td><td>Defines superscripted text</td></tr><tr><td><svg></td><td>Defines a container for SVG graphics</td></tr><tr><td></td><td>Defines a table</td></tr><tr><td></td><td>Groups the body content in a table</td></tr><tr><td><u></u></td><td>Defines a cell in a table</td></tr><tr><td><template></td><td>Defines a container for content that should be hidden when the page loads</td></tr><tr><td><textarea></td><td>Defines a multiline input control (text area)</td></tr><tr><td><tfoot></td><td>Groups the footer content in a table</td></tr><tr><td><u>></u></td><td>Defines a header cell in a table</td></tr><tr><td><thead></td><td>Groups the header content in a table</td></tr><tr><td><time></td><td>Defines a specific time (or datetime)</td></tr><tr><td><title></td><td>Defines a title for the document</td></tr><tr><td><u></u></td><td>Defines a row in a table</td></tr><tr><td><track></td><td>Defines text tracks for media elements (<video> and <audio>)</td></tr><tr><td><u><u></u></td><td>Defines some text that is unarticulated and styled differently from normal text</td></tr><tr><td><u></u></td><td>Defines an unordered list</td></tr><tr><td><var></td><td>Defines a variable</td></tr><tr><td><video></td><td>Defines embedded video content</td></tr><tr><td><u><wbr></u></td><td>Defines a possible line-break</td></tr></tbody></table></style>		

What is HTML?

- HTML stands for Hyper Text Markup Language
- HTML is the standard markup language for creating Web pages
- HTML describes the structure of a Web page
- HTML consists of a series of elements
- HTML elements tell the browser how to display the content
- HTML elements label pieces of content such as "this is a heading", "this is a paragraph", "this is a link", etc





chapter-02/superscript-and-subscript.html

- On the 4th of September you will learn about E=MC².
- The amount of CO₂ in the atmosphere grew by 2ppm in 2009₁.

RESULT

On the 4th of September you will learn about E=MC2.

The amount of CO2 in the atmosphere grew by 2ppm in 20091.

<sup>

The <sup> element is used to contain characters that should be superscript such as the suffixes of dates or mathematical concepts like raising a number to a power such as 2².

(sub>

The <sub> element is used to contain characters that should be subscript. It is commonly used with foot notes or chemical formulas such as H₂O.

<i>>

By enclosing words in the tags <1> and </1> we can make characters appear italic.

The <1> element also represents a section of text that would be said in a different way from surrounding content — such as technical terms, names of ships, foreign words, thoughts, or other terms that would usually be italicized.

chapter-02/italic.html

HTML

Captain Cook sailed to Australia on the
<i>Endeavour

This is how we make a word appear italic.

RESULT

It's a potato Solanum teberosum.

Captain Cook sailed to Australia on the Endeavour.

chapter-02/line-breaks.html

The Earth
br />gets one hundred tons heavier every day
br />due to falling space dust.

RESULT

The Earth gets one hundred tons heavier every day due to falling space dust.

As you have already seen, the browser will automatically show each new paragraph or heading on a new line. But if you wanted to add a line break inside the middle of a paragraph you can use the line break tag

br />.

<hr />

To create a break between themes — such as a change of

using the <hr /> tag.

topic in a book or a new scene in a play — you can add a horizontal rule between sections

There are a few elements that do not have any words between an opening and closing tag. They are known as **empty elements** and they are written differently.

An empty element usually has only one tag. Before the closing angled bracket of an empty element there will often be a space and a forward slash character. Some web page authors miss this out but it is a good habit to get into.

HTML

chapter-02/horizontal-rules.html

Venus is the only planet that rotates
 clockwise.
<hr />
Jupiter is bigger than all the other planets
 combined.

RESULT

Venus is the only planet that rotates clockwise.

Jupiter is bigger than all the other planets combined.

The use of the element indicates that its content has strong importance. For example, the words contained in this element might be said with strong emphasis.

By default, browsers will show the contents of a element in bold.

chapter-02/strong.html

HTML

Beware: Pickpockets operate in this area.

This toy has many small pieces and is not suitable for children under five years old.

Beware: Pickpockets operate in this area.

RESULT

This toy has many small pieces and is **not** suitable for children under five years old.

The element indicates emphasis that subtly changes the meaning of a sentence.

By default browsers will show the contents of an element in italic.

chapter-02/emphasis.html

HTML

I think Ivy was the first.

I think Ivy was the first.

I think Ivy was the first.

I think Ivy was the first.

I think Ivy was the first.

I think Ivy was the first.

RESULT

нтмі

chapter-02/quotations.html

<blockquote cite="http://en.wikipedia.org/wiki/
Winnie-the-Pooh">

Did you ever stop to think, and forget to start
again?

</blockquote>

As A.A. Milne said, <q>Some people talk to animals. Not many listen though. That's the problem.</q>

RESULT

Did you ever stop to think, and forget to start again?

As A.A. Milne said, "Some people talk to animals. Not many listen though. That's the problem." There are two elements commonly used for marking up quotations:

<blook
duote>

The <blockquote> element is used for longer quotes that take up an entire paragraph. Note how the element is still used inside the <blockquote> element.

Browsers tend to indent the contents of the <blockquote> element, however you should not use this element just to indent a piece of text — rather you should achieve this effect using CSS.



The <q> element is used for shorter quotes that sit within a paragraph. Browsers are supposed to put quotes around the <q> element, however Internet Explorer does not — therefore many people avoid using the <q> element.

Both elements may use the cite attribute to indicate where the quote is from. Its value should be a URL that will have more information about the source of the quotation.

<abbr>>

If you use an abbreviation or an acronym, then the <abbr> element can be used. A title attribute on the opening tag is used to specify the full term.

In HTML 4 there was a separate <acronym> element for acronyms. To spell out the full form of the acronym, the title attribute was used (as with the <abbr> element above). HTML5 just uses the <abbr> element for both abbreviations and acronyms.

chapter-02/abbreviations.html

HTML

<abbr title="Professor">Prof</abbr> Stephen Hawking is a theoretical physicist and cosmologist.

<acronym title="National Aeronautics and Space Administration">NASA</acronym> do some crazy space stuff.

Prof Stephen Hawking is a theoretical physicist and cosmologist.

NASA do some crazy space stuff.

National Aeronautics and Space Administration RESULT

chapter-02/citations.html

<cite>A Brief History of Time</cite> by Stephen Hawking has sold over ten million copies worldwide.

RESULT

A Brief History of Time by Stephen Hawking has sold over ten million copies worldwide.

<cite>

When you are referencing a piece of work such as a book, film or research paper, the <cite> element can be used to indicate where the citation is from

In HTML5, <cite> should not really be used for a person's name — but it was allowed in HTML 4, so most people are likely to continue to use it.

Browsers will render the content of a <cite> element in italics.

HTML

chapter-02/definitions.html

A <dfn>black hole</dfn> is a region of space from which nothing, not even light, can escape.

RESULT

A black hole is a region of space from which nothing, not even light, can escape.

<dfn>

The first time you explain some new terminology (perhaps an academic concept or some jargon) in a document, it is known as the defining instance of it

The <dfn> element is used to indicate the defining instance of a new term.

Some browsers show the content of the <dfn> element in italics. Safari and Chrome do not change its appearance.

<address>

The <address> element has quite a specific use: to contain contact details for the author of the page.

It can contain a physical address, but it does not have to. For example, it may also contain a phone number or email address.

Browsers often display the content of the <address> element in italics.

You may also be interested in something called the hCard microformat for adding physical address information to your markup.

ONLINE EXTRA:

You can find out more about hCards on the website accompanying this book.



HTML

chapter-02/insert-and-delete.html

It was the worst <ins>best</ins> idea she had ever had.

RESULT

It was the worst best idea she had ever had.

<ins>

The <ins> element can be used to show content that has been inserted into a document, while the element can show text that has been deleted from it.

The content of a <ins> element is usually underlined, while the content of a <de1> element usually has a line through it.

chapter-02/strikethrough.html



Laptop computer:
<s>Was \$995</s>
Now only \$375

RESULT

Laptop computer:

Was \$995

Now only \$375

The <s> element indicates something that is no longer accurate or relevant (but that should not be deleted).

Visually the content of an <s> element will usually be displayed with a line through the center.

Older versions of HTML had a <u> element for content that was underlined, but this is being phased out.

<01>

The ordered list is created with the <o1> element.

<1i>>

Each item in the list is placed between an opening <11> tag and a closing </11> tag. (The 11 stands for list item.)

Browsers indent lists by default.

Sometimes you may see a type attribute used with the
element to specify the type of numbering (numbers, letters, roman numerals and so on). It is better to use the CSS list-style-type property covered on pages 333-335.

chapter-03/ordered-lists.html

HTML

```
    Chop potatoes into quarters
    Simmer in salted water for 15-20
        minutes until tender
    Heat milk, butter and nutmeg
    Drain potatoes and mash
    Mix in the milk mixture
```

RESULT

- 1. Chop potatoes into quarters
- 2. Simmer in salted water for 15-20 minutes until tender
- 3. Heat milk, butter and nutmeg
- 4. Drain potatoes and mash
- 5. Mix in the milk mixture

HTML chapter-03/unordered-lists.html 1i>1kg King Edward potatoes <11>100ml milk <1i>50g salted butter Freshly grated nutmeg <1i>Salt and pepper to taste</1i>

RESULT

- 1kg King Edward potatoes
- · 100ml milk
- 50g salted butter
- Freshly grated nutmeg
- · Salt and pepper to taste

<u1>

The unordered list is created with the <u1> element.



Each item in the list is placed between an opening <11> tag and a closing </11> tag. (The 11 stands for list item.)

Browsers indent lists by default.

Sometimes you may see a type attribute used with the <u1> element to specify the type of bullet point (circles, squares, diamonds and so on). It is better to use the CSS list-styletype property covered on pages 333-335.

<d1>

The definition list is created with the <d1> element and usually consists of a series of terms and their definitions.

Inside the <d1> element you will usually see pairs of <dt> and <dd> elements.

<dt>

This is used to contain the term being defined (the definition term).

chapter-03/definition-lists.html

HTML

```
<dt>Sashimi</dt>
  <dd>Sliced raw fish that is served with
      condiments such as shredded daikon radish or
      ginger root, wasabi and soy sauce</dd>
  <dt>Scale</dt>
  <dd>A device used to accurately measure the
      weight of ingredients</dd>
  <dd>A technique by which the scales are removed
      from the skin of a fish</dd>
  <dt>Scamorze</dt>
  <dt>Scamorzo</dt>
  <dd>An Italian cheese usually made from whole
      cow's milk (although it was traditionally made
      from buffalo milk)</dd>
</d1>
```

<dd>>

This is used to contain the definition.

Sometimes you might see a list where there are two terms used for the same definition or two different definitions for the same term.

RESULT

Sliced raw fish that is served with condiments such as shredded daikon radish or ginger root, wasabi and soy sauce

A device used to accurately measure the weight of

ingredients
A technique by which the scales are removed from the skin of a fish

Scamorze Scamorzo

An Italian cheese usually made from whole cow's milk (although it was traditionally made from buffalo milk)

HTML chapter-03/nested-lists.html \(1i)\)Mousses \(1i)\)Pastries \(1i)\)Croissant \(1i)\)Mille-feuille \(1i)\)Palmier \(1i)\)Profiterole \(1i)\)Tarts

You can put a second list inside an <11> element to create a sublist or nested list.

Browsers display nested lists indented further than the parent list. In nested unordered lists, the browser will usually change the style of the bullet point too.

RESULT

- Mousses
- Pastries
 - o Croissant
 - o Mille-feuille
 - o Palmier
 - o Profiterole
- Tarts



Links are created using the <a> element which has an attribute called href. The value of the href attribute is the page that you want people to go to when they click on the link.

Users can click on anything that appears between the opening <a> tag and the closing tag and will be taken to the page specified in the href attribute.

When you link to a different website, the value of the href attribute will be the full web address for the site, which is known as an absolute URL.

Browsers show links in blue with an underline by default.

```
chapter-04/linking-to-other-sites.html
```

Metacritic

Rotten Tomatoes

Variety

RESULT

HTML

Movie Reviews:

- Empire
- Metacritic
- Rotten Tomatoes
- Variety

HTML chapter-04/linking-to-other-pages.html

 Home
 About
 Movies
 Contact

RESULT

- Home
- About
- Movies
- Contact

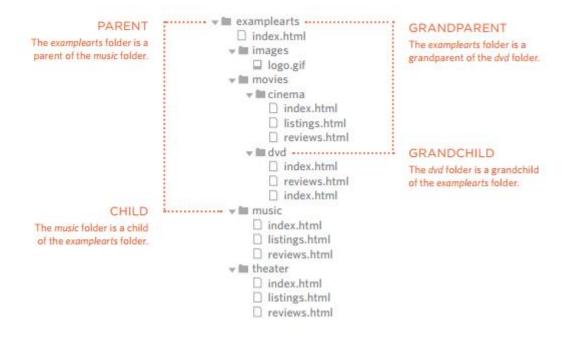
<a>>

When you are linking to other pages within the same site, you do not need to specify the domain name in the URL. You can use a shorthand known as a relative URL.

If all the pages of the site are in the same folder, then the value of the href attribute is just the name of the file.

If you have different pages of a site in different folders, then you can use a slightly more complex syntax to indicate where the page is in relation to the current page. You will learn more about these on the pages 81-84.

If you look at the download code for each chapter, you will see that the index.html file contains links that use relative URLs.



RELATIVE LINK TYPE

EXAMPLE (from diagram on previous page)

SAME FOLDER

To link to a file in the same folder, just use the file name. (Nothing else is needed.) To link to music reviews from the music homepage: Reviews

CHILD FOLDER

For a child folder, use the name of the child folder, followed by a forward slash, then the file name.

To link to music listings from the homepage:
Listings

GRANDCHILD FOLDER

Use the name of the child folder, followed by a forward slash, then the name of the grandchild folder, followed by another forward slash, then the file name.

To link to DVD reviews from the homepage:

Reviews

PARENT FOLDER

Use ... / to indicate the folder above the current one, then follow it with the file name.

To link to the homepage from the music reviews: Home

GRANDPARENT FOLDER

Repeat the .../ to indicate that you want to go up two folders (rather than one), then follow it with the file name. To link to the homepage from the DVD reviews: Home

mailto:

To create a link that starts up the user's email program and addresses an email to a specified email address, you use the <a> element. However, this time the value of the href attribute starts with mailto: and is followed by the email address you want the email to be sent to.

On the right you can see that an email link looks just like any other link but, when it is clicked on, the user's email program will open a new email message and address it to the person specified in the link.





target

If you want a link to open in a new window, you can use the target attribute on the opening <a> tag. The value of this attribute should be _blank.

One of the most common reasons a web page author might want a link to be opened in a new window is if it points to another website. In such cases, they hope the user will return to the window containing their site after finishing looking at the other one.

```
<h1 id="top">Film-Making Terms</h1>
<a href="#arc_shot">Arc Shot</a><br />
<a href="#interlude">Interlude</a><br />
<a href="#prologue">Prologue</a><br /><br />
<h2 id="arc shot">Arc Shot</h2>
A shot in which the subject is photographed by an
   encircling or moving camera
<h2 id="interlude">Interlude</h2>
A brief, intervening film scene or sequence, not
   specifically tied to the plot, that appears
  within a film
<h2 id="prologue">Prologue</h2>
A speech, preface, introduction, or brief scene
   preceding the the main action or plot of a film;
   contrast to epilogue
<a href="#top">Top</a>
```

RESULT

Film-Making Terms

Arc Shot Interlude Prologue

Arc Shot

A shot in which the subject is photographed by an encircling or moving camera

Interlude

A brief, intervening film scene or sequence, not specifically tied to the plot, that appears within a film

Prologue

A speech, preface, introduction, or brief scene preceding the the main action or plot of a film; contrast to epilogue

Top

If you want to link to a specific part of a different page (whether on your own site or a different website) you can use a similar technique.

As long as the page you are linking to has 1d attributes that identify specific parts of the page, you can simply add the same syntax to the end of the link for that page.

Therefore, the href attribute will contain the address for the page (either an absolute URL or a relative URL), followed by the # symbol, followed by the value of the 1d attribute that is used on the element you are linking to.

For example, to link to the bottom of the homepage of the website that accompanies this book, you would write:

To add an image into the page you need to use an element. This is an empty element (which means there is no closing tag). It must carry the following two attributes:

src

This tells the browser where it can find the image file. This will usually be a relative URL pointing to an image on your own site. (Here you can see that the images are in a child folder called *images* — relative URLs were covered on pages 83-84).

chapter-05/adding-images.html

HTML

<img src="images/quokka.jpg" alt="A family of
 quokka" title="The quokka is an Australian
 marsupial that is similar in size to the
 domestic cat." />



alt

This provides a text description of the image which describes the image if you cannot see it.

title

You can also use the title attribute with the element to provide additional information about the image. Most browsers will display the content of this attribute in a tootip when the user hovers over the image.

The text used in the alt attribute is often referred to as alt text. It should give an accurate description of the image content so it can be understood by screen reader software (used by people with visual impairments) and search engines.

If the image is just to make a page look more attractive (and it has no meaning, such as a graphic dividing line), then the alt attribute should still be used but the quotes should be left empty.



chapter-05/height-and-width-of-images.html



You will also often see an element use two other attributes that specify its size:

height

This specifies the height of the image in pixels.

width

This specifies the width of the image in pixels.

Images often take longer to load than the HTML code that makes up the rest of the page. It is, therefore, a good idea to specify the size of the image so that the browser can render the rest of the text on the page while leaving the right amount of space for the image that is still loading.

Where an image is placed in the code will affect how it is displayed. Here are three examples of image placement that produce different results:

1: BEFORE A PARAGRAPH

The paragraph starts on a new line after the image.

2: INSIDE THE START OF A PARAGRAPH

The first row of text aligns with the bottom of the image.

3: IN THE MIDDLE OF A PARAGRAPH

The image is placed between the words of the paragraph that it appears in.

chapter-05/where-to-place-images.html

HTML

<img src="images/bird.gif" alt="Bird" width="100"
height="100" />

There are around 10,000 living species of birds that inhabit different ecosystems from the Arctic to the Antarctic. Many species undertake long distance annual migrations, and many more perform shorter irregular journeys.

<hr />

There are around 10,000 living species of birds that inhabit different ecosystems from the Arctic to the Antarctic. Many species undertake long distance annual migrations, and many more perform shorter irregular journeys.

<hr />

There are around 10,000 living species of birds that inhabit different ecosystems from the Arctic to the Antarctic.Many species undertake long distance annual migrations, and many more perform

RESULT



There are around 10,000 living species of birds that inhabit different ecosystems from the Arctic to the Antarctic. Many species undertake long distance annual migrations, and many more perform shorter irregular journeys.

There are around 10,000 living species of birds that inhabit different ecosystems from the Arctic to the Antarctic. Many species undertake long distance annual migrations, and many more perform shorter irregular journeys.

There are around 10,000 living species of birds that inhabit different



align

The align attribute was commonly used to indicate how the other parts of a page should flow around an image. It has been removed from HTML5 and new websites should use CSS to control the alignment of images (as you will see on pages 411-412).

I have discussed it here because you are likely to come across it if you look at older code, and because some visual editors still insert this attribute when you indicate how an image should be aligned.

chapter-05/aligning-images-horizontally.html

LITAL

There are around 10,000 living species of birds that inhabit different ecosystems from the Arctic to the Antarctic. Many species undertake long distance annual migrations, and many more perform shorter irregular journeys.

<hr />

There are around 10,000 living species of birds that inhabit different ecosystems from the Arctic to the Antarctic. Many species undertake long distance annual migrations, and many more perform shorter irregular journeys.

RESULT



There are around 10,000 living species of birds that inhabit different ecosystems from the Arctic to the Antarctic. Many species undertake long distance annual migrations, and many more perform shorter irregular journeys.

There are around 10,000 living species of birds that inhabit different ecosystems from the Arctic to the Antarctic. Many species undertake long distance annual migrations, and many more perform shorter irregular journeys.



This looks a lot neater than having one line of text next to the image (as shown on the previous example).

When you give the align attribute a value of left, the image is placed on the left and text flows around it.

When you give the align attribute a value of right, the image is placed on the right and the text flows around it.

When text flows right up to the edge of an image it can make it harder to read. You will learn how to add a gap between text and images on pages 313-314 using the CSS padding and margin properties.

HTML

chapter-05/figure-and-figure-caption.html

<figure>
 <figcaption>Sea otters hold hands when they sleep so they don't drift away from each other.</figcaption> </figure>

<figure>

Images often come with captions. HTML5 has introduced a new <figure> element to contain images and their caption so that the two are associated.

You can have more than one image inside the <figure> element as long as they all share the same caption.



Sea otters hold hands when they sleep so they don't drift away from each other.

the same caption.

<figcaption>

The <figcaption> element has been added to HTML5 in order to allow web page authors to add a caption to an image.

Before these elements were created there was no way to associate an element with its caption.

Older browsers that do not understand HTML5 elements simply ignore the new elements and display the content of them.

TABLES

The element is used to create a table. The contents of the table are written out row by row.

>

You indicate the start of each row using the opening tag. (The tr stands for table row.)

It is followed by one or more elements (one for each cell in that row).

At the end of the row you use a closing

```
chapter-06/basic-table-structure.html
                  HTML
15
  15
  30
 45
  60
  45
 60
  90
  90
```

Clusing V/ Cl / tag.

Each cell of a table is represented using a element. (The td stands for table data.)

At the end of each cell you use a closing
tag.

RESULT

15 15 30 45 60 45 60 90 90

chapter-06/table-headings.html


```
Saturday
Sunday
Tickets sold:
120
135
Total sales:
$600
$675
```

The element is used just like the element but its purpose is to represent the heading for either a column or a row. (The th stands for table heading.)

Even if a cell has no content, you should still use a or element to represent the presence of an empty cell otherwise the table will not render correctly. (The first cell in the first row of this example shows an empty cell.)

RESULT

Saturday Sunday

Tickets sold: 120 135 Total sales: \$600 \$675 headings helps people who use screen readers, improves the ability for search engines to index your pages, and also enables you to control the appearance of tables better when you start to use CSS.

You can use the scope attribute on the element to indicate whether it is a heading for a column or a row. It can take the values: row to indicate a heading for a row or col to indicate a heading for a column.

Sometimes you may need the entries in a table to stretch across more than one column.

The colspan attribute can be used on a or element and indicates how many columns that cell should run across.

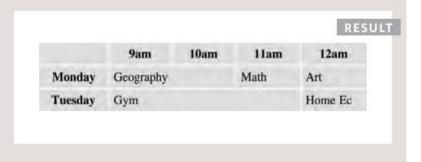
In the example on the right you can see a timetable with five columns; the first column contains the heading for that row (the day), the remaining four represent one hour time slots.

If you look at the table cell that contains the words 'Geography' you will see that the value of the colspan attribute is 2, which indicates that the cell should run across two columns. In the third row, 'Gym' runs across three

```
chapter-06/spanning-columns.html
                   HTML
9am
  10am
  <th>>11am
  12am
 Monday
  Geography
  Math
  Art
 Tuesday
  Gym
  Home Ec
```

columns.

You can see that the second and third rows have fewer elements than there are columns. This is because, when a cell extends across more than one column, the or cells that would have been in the place of the wider cells are not included in the code.



```
HTML
           chapter-06/spanning-rows.html
 ABC
  BBC
  CNN
 6pm - 7pm
  Movie
  Comedy
  News
 7pm - 8pm
  Sport
  Current Affairs
```

You may also need entries in a table to stretch down across more than one row.

The rowspan attribute can be used on a or element to indicate how many rows a cell should span down the table.

In the example on the left you can see that ABC is showing a movie from 6pm - 8pm, whereas the BBC and CNN channels are both showing two programs during this time period (each of which lasts one hour).

If you look at the last
element, it only contains three elements even though there are four columns in the result below. This is because the movie in the

element above it uses the rowspan attribute to stretch

ABC BBC CNN 6pm - 7pm Movie Sport Current Affairs

rowspan attribute to stretch down and take over the cell below.

I have added some CSS styles to this example so that you can see how the cells span more than one row. You will learn how to apply these CSS styles to tables on pages 250, 337-340. There are three elements that help distinguish between the main content of the table and the first and last rows (which can contain different content).

These elements help people who use screen readers and also allow you to style these sections in a different manner than the rest of the table (as you will see when you learn about CSS).

<thead>

The headings of the table should sit inside the <thead> element.

The body should sit inside the element.

<tfoot>

The footer belongs inside the <tfoot> element.

By default, browsers rarely treat the content of these elements any differently than other elements however designers often use CSS styles to change their appearance.

chapter-06/long-tables.html

```
<thead>
 Date
  Income
  Expenditure
 </thead>
1st January
  250
  36
 2nd January
  285
  48
```

HTML

RESULT

Date	Income	Expenditure
1st January	250	36
2nd January	285	48
3rd January	260	42
4th January	290	38
5th January	310	115
6th January	168	14
7th January	226	20
8th January	253	37
9th January	294	33
10th January	216	46
11th January	244	29
12th January	297	32
13th January	328	86
14th January	215	38
15th January	254	30
16th January	256	27
17th January	311	68
18th January	212	39
19th January	234	36
20th January	221	43
20at January	259	48
21st January	259	38
22nd January	246	31
23rd January	248	17
24th January	229	45
25th January	263	34
26th January	258	41
27th January	283	22
28th January	256	30
29th January	278	47
30th January	251	15
31st January	129	64
	7824	1241

Some of the HTML editors that come in content management systems offer tools to help draw tables. If the first row of your table only contains elements then you may find that the editor inserts a <thead> element automatically.

Part of the reason for having separate <thead> and <tfoot> elements is so that, if you have a table that is taller than the screen (or, if printed, longer than one page) then the browser can keep the header and footer visible whilst the contents of the table scroll. This is intended to make it easier for users to see which column the data is in (however this functionality is not implemented by default in any current browser).

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I have added some CSS styles to this example so that you can see the contents of the <thead> and <tfoot> being treated differently than the rest of the rows. You will learn how to apply these CSS styles to tables on pages 309-312 and 337-340.