

HTML5, CSS3, and JavaScript 6th Edition

Tutorial 2 Getting Started with CSS

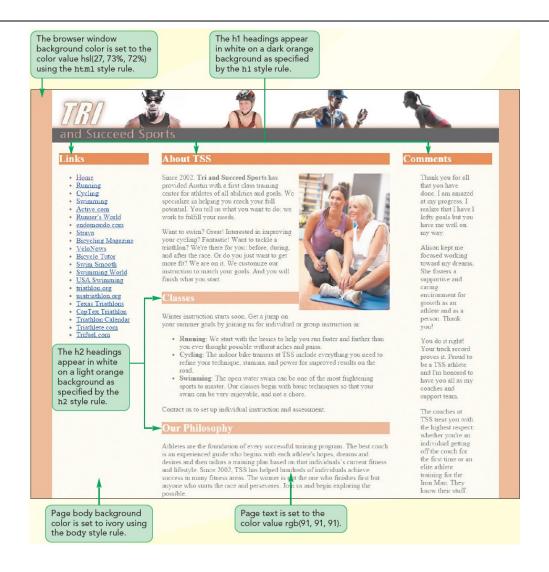
Objectives - 1/2

- Explore the history of CSS
- Study different types of style sheets
- Explore style precedence and inheritance
- Apply color in CSS
- Use contextual selectors
- Work with attribute selectors

Objectives - 2/2

- Apply text and font styles
- Use a web font
- Define list styles
- Work with margins and padding space
- Use pseudo-classes and pseudo-elements
- Insert page content with CSS

2.1 - CSS Styles and Colors



Introducing CSS

 The appearance of the page is determined by one or more style sheets written in the Cascading Style Sheets (CSS) language

The latest version of the CSS language is CSS3

 CSS3 is built upon several modules, where each module is focused on a separate design topic

Types of Style Sheets - 1/3

 Browser styles or user agent styles – Styles built into the browser

- User-defined styles Styles defined by a user based on the configuration setting of the user's browser
- External styles Styles created by a website author, placed within a CSS file, and linked to the page

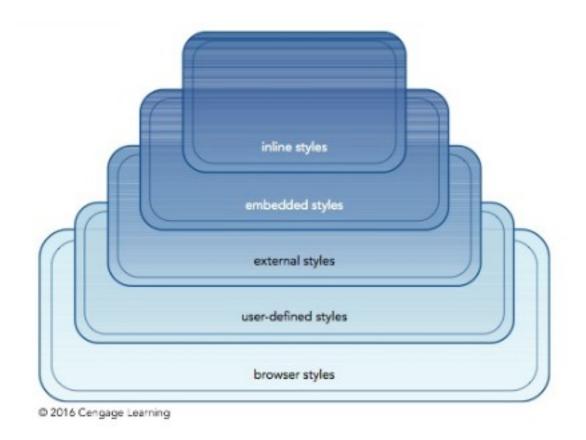
Types of Style Sheets - 2/3

 Embedded styles – Styles added to the head of an HTML document

 Inline styles – Styles added as element attributes within an HTML document and applied to only that particular element

Types of Style Sheets - 3/3

Hierarchy of styles



Exploring Style Rules - 1/2

The general syntax of a CSS style rule is

```
selector{
  property1: value1;
  property2: value2;
  ...
}
```

Exploring Style Rules - 2/2

- Browser extensions are an extended library of style properties in the browser
- Vendor prefix Indicates the browser vendor that created and supports the style property

Vendor prefixes for browser extensions

Vendor Prefix	Rendering Engine	Browsers
-khtml-	KHTML	Konqueror
-moz-	Mozilla	Firefox, Camino
-ms-	Trident	Internet Explorer
-0-	Presto	Opera, Nintendo Wii browser
-webkit-	WebKit	Android browser, Chrome, Safari

Embedded Style Sheets

 They are inserted directly into the HTML file as metadata by adding the following element to the document head

```
<style>
    style rules
</style>
```

where style rules are the different rules embedded in the HTML page

Inline Styles

 They are styles applied directly to specific elements using the following style attribute

where the property: value pairs define the styles applied directly to that element

Style Specificity and Precedence

- The more specific style rule has precedence over the more general style rule
- Specificity is an issue when two or more styles conflict

 If two rules have equal specificity and equal importance, then the one that is defined last has precedence

Style Inheritance

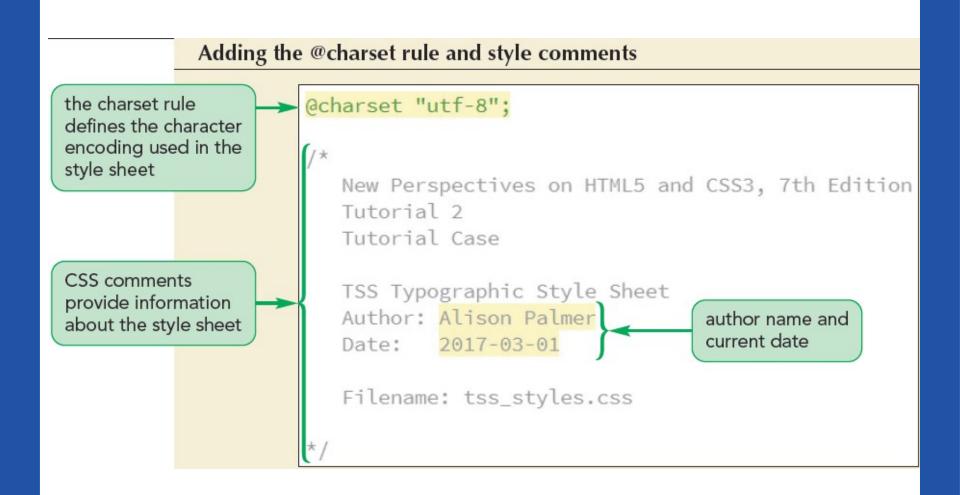
- Style inheritance Process in which properties are passed from a parent element to its children
- For example, the following style rule sets the color of article text to blue and the rule is passed to any paragraph or other elements nested within that article

```
article {color: blue;}
p {text-align: center;}
```

Browser Developer Tools

- They allow designers to view HTML code and CSS styles
- They make it easier to locate the source of a style that has been applied to a specific page element
- They are different in each browser and are updated and improved constantly

Writing Style Comments



Importing Style Sheets

 @import is a CSS at-rule used to import the content of a style sheet file

```
@import url(url);
```

where ur1 is the URL of an external stylesheet file

 It is similar to adding link elements to an HTML file

Working with Color in CSS

 Color values – Values in which the color is given by an exact numeric representation

 RGB triplet – The intensity of primary colors expressed as a set of numbers in CSS

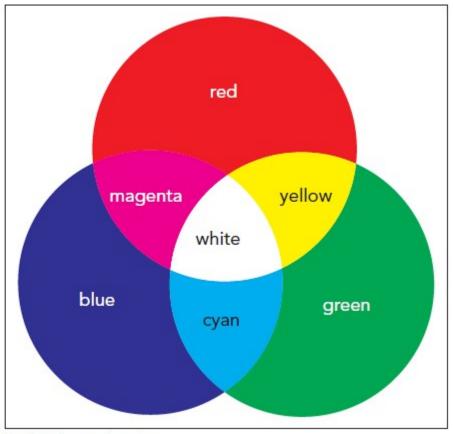
```
rgb(red, green, blue)
```

 Hexadecimal numbers – A number expressed in the base 16 numbering system

RGB Color Values

Figure 2-8

Color addition in the RGB color model



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HSL Color Values - 1/2

 Hue – Tint of a color, represented by a direction on a color wheel

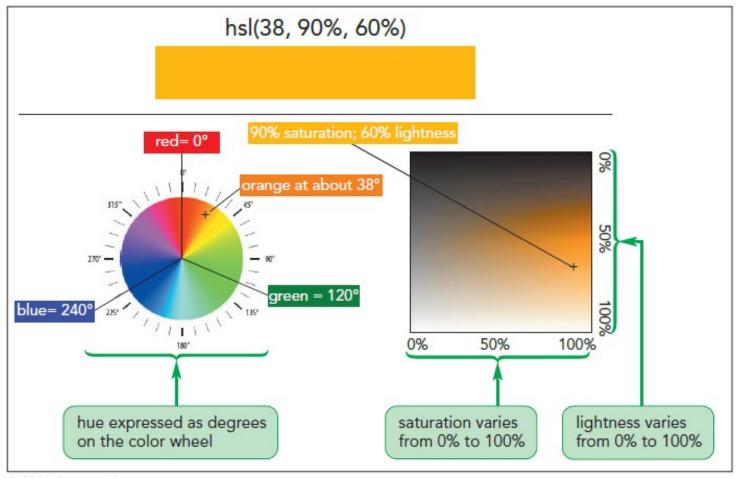
 Saturation – Measures the intensity of a color and ranges from 0% (no color) up to 100% (full color)

• **Lightness** – Measures the brightness of a color and ranges from 0% (black) up to 100% (white)

HSL Color Values - 2/2

Figure 2-9

Defining the color orange under the HSL color model



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Defining Semi-Opaque Colors

Opacity – Defines how solid a color appears

- A color's opacity is specified using the following properties:
 - rgba (red, green, blue, opacity)
 - -hsla(hue, saturation, lightness, opacity)

where opacity sets the opacity of the color ranging from 0 (completely transparent) up to 1.0 (completely opaque)

Setting Text and Background Color

 CSS defines the text and background color for each element on a webpage

```
color: color; //text color
background-color: color;
```

where color is a color name or a color value

Employing Progressive Enhancement

 Progressive enhancement – A technique of placing the code conforming to elder standards before newer properties

 It provides support for older browsers and allows newer standards to be used by the browsers that support them

Contextual Selectors - 1/4

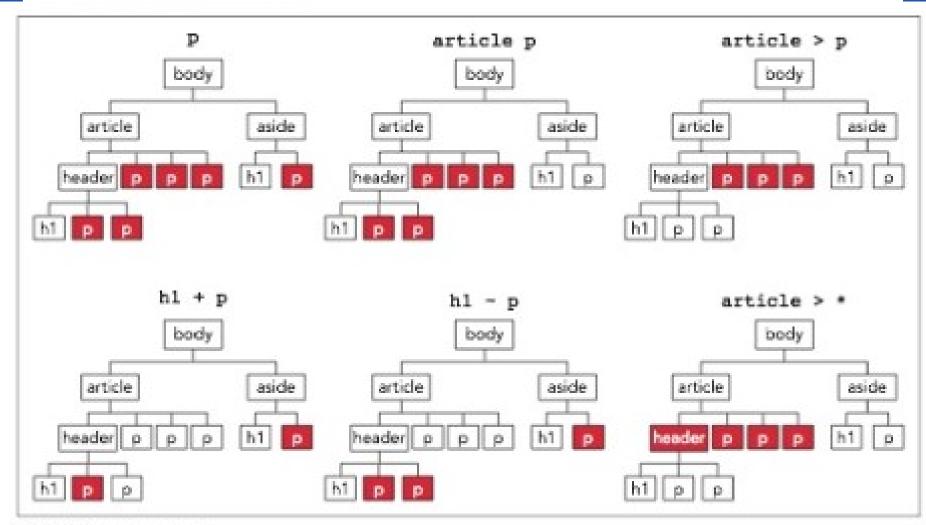
- Contextual selector Specifies the context under which a particular page element is matched
- Context is based on the hierarchical structure of a document, which involves the relationships between a parent element containing one or more child elements and within those child elements several levels of descendant elements

Contextual Selectors - 2/4

Contextual selectors

Selector	Description	
*	Matches any element	
elem	Matches the element elem located anywhere in the document	
elem1, elem2, …	Matches any of the elements elem1, elem2, etc.	
parent descendant	Matches the descendant element that is nested within the parent element at some level	
parent > child	Matches the <i>child</i> element that is a child of the <i>parent</i> element	
elem1 + elem2	Matches elem2 that is immediately preceded by the sibling element elem1	
elem1 ~ elem2	Matches elem2 that follows the sibling element elem1	

Contextual Selectors - 3/4



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Contextual Selectors - 4/4

- To match any element, a wildcard selector with the * character is used
 - Article > * {color: blue;}

- Sibling selectors are used to select elements based on elements that are adjacent to them in the document hierarchy
 - h1+h2 {color: blue;}
 - h1-h2 {color: blue;}

Attribute Selectors - 1/3

- Selectors also can be defined based on attributes and attribute values within elements:
 - id Identifies specific elements within the document
 - #id or elem#id
 - #textColor {color: red;}
 - header#textColor > h1 {color: red;}
 - <header id="textColor"> </header>

Attribute Selectors - 2/3

- Selectors also can be defined based on attributes and attribute values within elements:
 - class- Identifies a group of elements that share a similar characteristic or property
 - .class or elem.class
 - .textColor {color: red;}
 - Header.textColor > h1 {color: red;}
 - <header class="textColor"> </header>

Attribute Selectors - 3/3

Figure 2-15

Attribute selectors

Selector	Selects	Example	Selects
elem#id	Element elem with the ID value id	h1‡intro	The h1 heading with the id intro
#id	Any element with the ID value <i>id</i>	#intro	Any element with the id intro
elem.class	All elem elements with the class attribute value class	p.main	All paragraphs belonging to the <i>main</i> class
.class	All elements with the class value <i>class</i>	.main	All elements belonging to the <i>main</i> class
elem[att]	All elem elements containing the att attribute	a[href]	All hypertext elements containing the href attribute
<pre>elem[att="text"]</pre>	All elem elements whose att attribute equals text	a[href="top.html"]	All hypertext elements whose href attribute equals top.html
elem[att~="text"]	All elem elements whose att attribute contains the word text	a[rel~="glossary"]	All hypertext elements whose rel attribute contains the word glossary
elem[att ="text"]	All elem elements whose att attribute value is a hyphen-separated list of words beginning with text	p[id ="first"]	All paragraphs whose id attribute starts with the word first in a hyphen-separated list of words
<pre>elem[att^="text"]</pre>	All elem elements whose att attribute begins with text [CSS3]	a[rel^="prev"]	All hypertext elements whose rel attribute begins with <i>prev</i>
elem[att\$="text"]	All elem elements whose att attribute ends with text [CSS3]	a[href\$="org"]	All hypertext elements whose href attribute ends with <i>org</i>
elem[att*="text"]	All elem elements whose att attribute contains the value text [CSS3]	a[href*="faq"]	All hypertext elements whose href attribute contains the text string faq

Working with Fonts

 Typography is the art of designing the appearance of characters and letters on a page

 Color and font are one of few properties in the CSS family of typographical styles

Choosing a Font - 1/2

 Text characters are based on **fonts** that define the style and appearance of each character in the alphabet

 The general structure of defining font for any page element is

```
font-family: fonts;
where fonts is a comma-separated list,
also known as a font stack
```

Choosing a Font - 2/2

 Specific font – Identified by name and based on a font definition file stored in a user's computer or accessible on the web

- Generic font Describes the general appearance of the characters in the text but does not specify any particular font definition file
 - Supports the font groups serif, sans-serif, monospace, cursive, and fantasy

Styling Web Page Text

Figure 2-19

Web safe font stacks

Arial

abcdefghijkImnopqrstuvwxyz/1234567890
font-family: Arial, Helvetica, sans-serif;

Arial Black

abcdefghijklmnopqrstuvwxyz/1234567890

font-family: 'Arial Black', Gadget, sans-serif;

Century Gothic

abcdefghijklmnopqrstuvwxyz/1234567890 font-family: 'Century Gothic', sans-serif;

Comic Sans MS

abcdefghijklmnopqrstuvwxyz/1234567890 font-family: 'Comic Sans MS', cursive;

Courier New

abcdefghijklmnopqrstuvwxyz/1234567890 font-family: 'Courier New', Courier, monospace;

Georgia

abcdefghijklmnopqrstuvwxyz/1234567890 font-family: Georgia, serif;

Impact

abcdefghijklmnopgrstuwxyz/1234567890

font-family: Impact, Charcoal, sans-serif;

Lucida Console

abcdefghijklmnopqrstuvwxyz/1234567890
font-family: 'Lucida Console', Monaco, monospace;

Lucida Sans Unicode

abcdefghijklmnopqrstuvwxyz/1234567890 font-family: 'Lucida Sans Unicode', 'Lucida Grande', sans-serif;

Palatino Linotype

abcdefghijklmnopqrstuvwxyz/1234567890 font-family: 'Palatino Linotype', 'Book Antiqua', Palatino, serif;

Tahoma

abcdefghijklmnopqrstuvwxyz/1234567890
font-family: Tahoma, Geneva, sans-serif;

Times New Roman

abcdcfghijklmnopqrstuvwxyz/1234567890 font-family: 'Times New Roman', Times, serif;

Trebuchet MS

abcdefghijklmnopqrstuvwxyz/1234567890
font-family: 'Trebuchet MS', Helvetica, sans-serif;

Verdana

abcdefghijklmnopqrstuvwxyz/1234567890 font-family: Verdana, Geneva, sans-serif;

Exploring Web Fonts

 Web font – Definition font is supplied to the browser in an external file because web safe fonts limit the number of fonts choices

Figure 2-22

Web font formats

Format	Description	Browser
Embedded OpenType (EOT)	A compact form of OpenType fonts designed for use as embedded fonts in style sheets	IE
TrueType (TTF)	Font standard used on the Mac OS and Microsoft Windows operating systems	IE, Firefox, Chrome, Safari, Opera
OpenType (OTF)	Font format built on the TrueType format developed by Microsoft	IE, Firefox, Chrome, Safari, Opera
Scalable Vector Graphics (SVG)	Font format based on an XML vocabulary designed to describe resizable graphics and vector images	Chrome, Safari
Web Open Font Format (WOFF)	The W3C recommendation font format based on OpenType and TrueType with compression and additional metadata	IE, Firefox, Chrome, Safari, Opera

The @font-face Rule - 1/3

 To access and load a web font, add the @fontface rule to the style sheet

 Once a web font is defined using the @fontface rule, it is included in the font stack

The @font-face Rule - 2/3

The general syntax to include @font-face is

```
@font-face {
    font-family: name;
    src: url ('url1') format
  ('text1'),
       url ('url2') format ('text2'),
    ... /
     descriptor1: value1;
     descriptor2: value2;
```

The @font-face Rule - 3/3

where name is the name of the font, url is the location of the font definition file, text is an optional text description of the font format, and the descriptor1: value1; pairs are optional style properties of the font

Setting the Font Size

To set a font size, use the style property

```
font-size: size;
```

where *size* is a CSS unit of length in either relative or absolute units.

- Absolute units Fixed in size regardless of the output device and are used only with printed media
 - body { font-size: 12pt; }
- Relative units Expressed relative to the size of other objects within the web page or to the display properties of the device itself

Scaling Fonts with ems and rems

 Text is made scalable with all font sizes expressed relative to default font sizes

- The three relative measurements used to provide scalability are
 - percentage: h1 { font-size: 200% }
 - em unit: h1 { font-size: 2em } //from parent

Using Viewport Units

 Viewport unit – A relative unit used to express length as a percentage if the width and height if the browser window

- CSS3 introduced four viewport units
 - -1 vw = 1% of the browser window width
 - 1 vh = 1% of the browser window height
 - 1 vmin = 1 vw or 1 vh (whichever is smaller)
 - 1 vmax = 1 vw or 1 vh (whichever is larger)

Sizing Keywords

- Font sizes are expressed using the following keywords (browser use)
 - -xx-small
 - -x-small
 - small
 - medium
 - -large
 - -x-large
 - -xx-large
 - larger
 - smaller

Controlling Spacing and Indentation - 1/3

 Kerning measures the amount of space between characters, while tracking measures the amount of space between words

 The properties to control an element's kerning and tracking are:

```
letter-spacing: value;
letter-spacing: 0.1em;
word-spacing: value;
```

Controlling Spacing and Indentation - 2/3

 Leading – Measures the amount of space between lines of text and is set using the following line-height property:

```
line-height: size;
line-height: 2em;
```

 Text spacing can be controlled by setting the indentation for the first line of text block by using the text-indent property

```
text-indent: size;
text-indent: 2em;
```

Controlling Spacing and Indentation - 3/3

Figure 2-27

Controlling letter spacing and line height

```
h1, h2 {
   font-family: Quicksand, Verdana, Geneva, sans-serif;
   letter-spacing: 0.1em;	←
                                    sets the space between
                                    letters to 0.1em
/* Navigation Styles */
nav {
   font-size: 0.8em;
nav > ul {
                               double spaces the list
   line-height: 2em;
                               of hypertext links
```

Working with Font Styles - 1/3

To specify the font style, use

```
font-style: type;
where type is normal, italic, or oblique
```

To change the weight of the font, use

```
font-weight: weight;
```

where weight is the level of **bold** formatting applied to the text

Working with Font Styles - 2/3

To specify a text decoration, use

```
text-decoration: type; where type is none, underline, overline, or line-through
```

To transform text, use

```
text-transform: type; where type is capitalize, uppercase, lowercase, or none
```

Working with Font Styles - 3/3

To display a font variant of text, use

```
font-variant: type;
```

where type is **normal** or **small-caps**

Aligning Text Horizontally and Vertically - 1/2

To horizontally align the text, use

```
text-align: alignment; where alignment is left, right, center, or justify
```

To vertically align the text within each line, use

```
vertical-align: alignment;
```

where alignment is baseline, bottom, middle, sub, super, text-bottom, text-top, or top

Aligning Text Horizontally and Vertically - 2/2

Figure 2-28

Values of the vertical-align property

Value	Description
baseline	Aligns the baseline of the element with the baseline of the parent element
bottom	Aligns the bottom of the element with the bottom of the lowest element in the line
middle	Aligns the middle of the element with the middle of the surrounding content in the line
sub	Subscripts the element
super	Superscripts the element
text-bottom	Aligns the bottom of the element with the bottom of the text in the line
text-top	Aligns the top of the element with the top of the text in the line
top	Aligns the top of the element with the top of the tallest object in the line

Combining All Text Formatting in a Single Style - 1/2

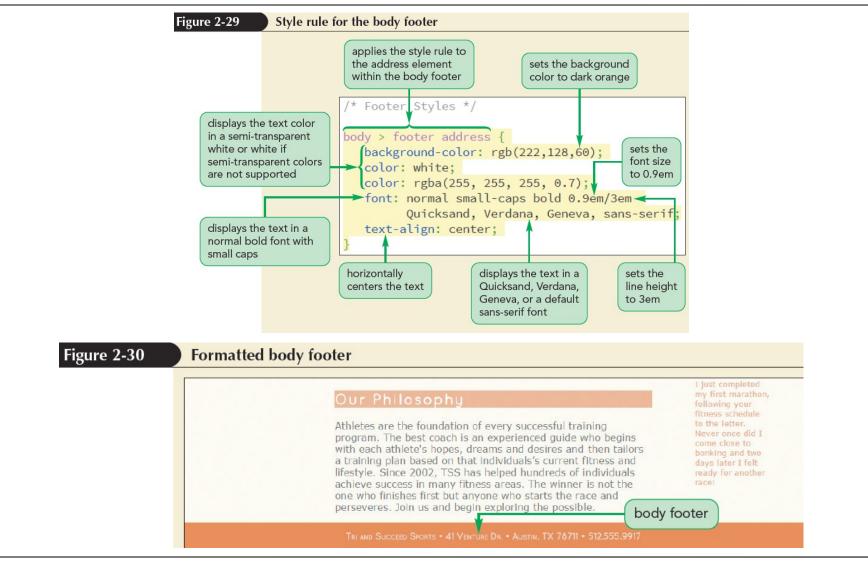
 The text and font styles can be combined using the following shorthand font property:

```
font: style variant weight size/height family;
```

```
font: italic small-caps bold 1.5em/2em
Arial, sans-serif;
```

where style is the font's style, variant is the font variant, weight is the font weight, size is the font size, height is the height of each line, and family is the font stack

Combining All Text Formatting in a Single Style - 2/2



Formatting Lists - 1/2

 List marker – It is the default browser style symbol displayed before each list item for unordered and ordered lists

 To change the type of list marker or to prevent any display of a list marker, use

```
list-style-type: type;
```

where type is the various types of markers

Formatting Lists - 2/2

Figure 2-31

Values of the list-style-type property

list-style-type	Marker(s)
disc	•
circle	0
square	
decimal	1, 2, 3, 4,
decimal-leading-zero	01, 02, 03, 04,
lower-roman	i, ii, iii, iv,
upper-roman	I, II, III, IV,
lower-alpha	a, b, c, d,
upper-alpha	A, B, C, D,
lower-greek	α, β, γ, δ,
upper-greek	Α, Β, Γ, Δ,
none	no marker displayed

Using Images for List Markers - 1/2

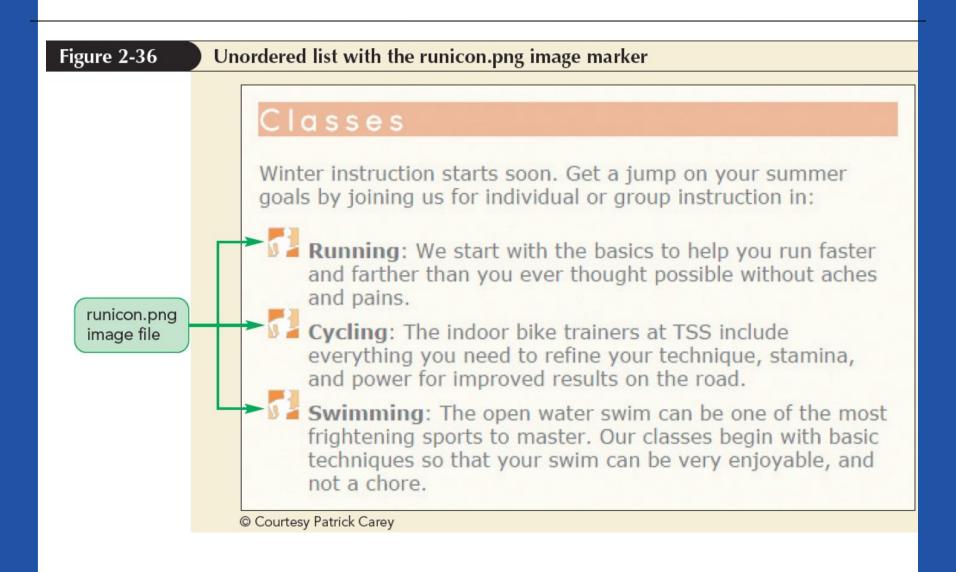
 A customized graphic image for the list marker can be supplied by the user

```
list-style-image: url (url);
```

where ur1 is the URL of a graphic file containing the marker image

Style rule applied to the unordered list within the about_tss article | The property of the unordered list within the about_tss article | The property of the unordered list within the about_tss article | The property of the unordered list within the about_tss article | The property of the unordered list within the about_tss article | The property of the unordered list within the about_tss article | The property of the unordered list within the about_tss article | The property of the unordered list within the about_tss article | The property of the unordered list within the about_tss article | The property of the unordered list within the about_tss article | The property of the unordered list within the about_tss article | The property of the unordered list within the about_tss article | The property of the unordered list within the about_tss article | The property of the unordered list within the about_tss article | The property of the unordered list within the about_tss article | The property of the unordered list within the about_tss article | The property of the unordered list within the about_tss article | The property of the unordered list within the about_tss article | The property of the unordered list within the about_tss article | The property of the unordered list within the about_tss article | The property of the unordered list within the about_tss article | The property of the unordered list within the about_tss article | The property of the unordered list within the about_tss article | The property of the unordered list within the about_tss article | The property of the unordered list within the about_tss article | The property of the unordered list within the unord

Using Images for List Markers - 2/2



Setting the List Marker Position - 1/2

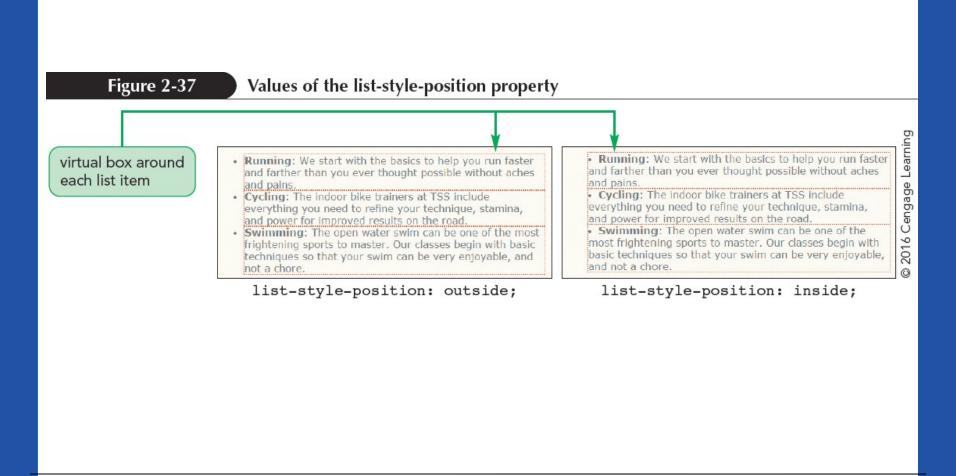
 CSS treats each list item as a block-level element, placed within a virtual box in which the list marker is placed outside of the list text

To change the default behaviour, use

```
list-style-position: position;
```

where position is either outside or inside

Setting the List Marker Position - 2/2



Working with Margins and Padding - 1/2

 Block-level elements follow the structure of the box model

- Contents in a box model are enclosed within the following series of concentric boxes:
 - The content of the element itself
 - The padding space, which extends from the element's content to a border

Working with Margins and Padding - 2/2

- The border surrounding the padding space
- The margin space comprised of the space beyond the border up to the next page element

Figure 2-38

The CSS box model

Athletes are the foundation of every successful training program. The best coach is an experienced guide who begins with each athlete's hopes, dreams and desires and then tailors a training plan based on that individuals's current fitness and lifestyle. Since 2002, TSS has helped hundreds of individuals achieve success in many fitness areas. The winner is not the one who finishes first but anyone who starts the race and perseveres. Join us and begin exploring the possible.

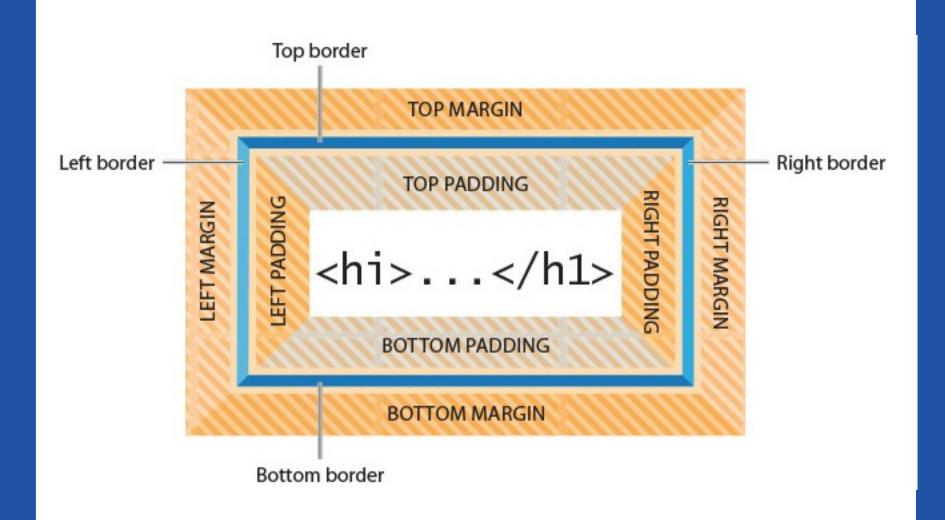
padding

border

margin

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CSS Box Model



Setting the Padding Space - 1/2

 To set the width of the padding space, use the following padding property

```
padding: size;
```

where size is expressed in one of the CSS units of length or the keyword auto to let the browser automatically choose the padding

Setting the Padding Space - 2/2

Setting the size of the left padding space selects unordered lists within the nav element nav > ul { line-height: 2em; list-style-type: none; padding-left: 5px; } sets the padding on the left edge to 5 pixels

Setting the Margin and Border Spaces - 1/2

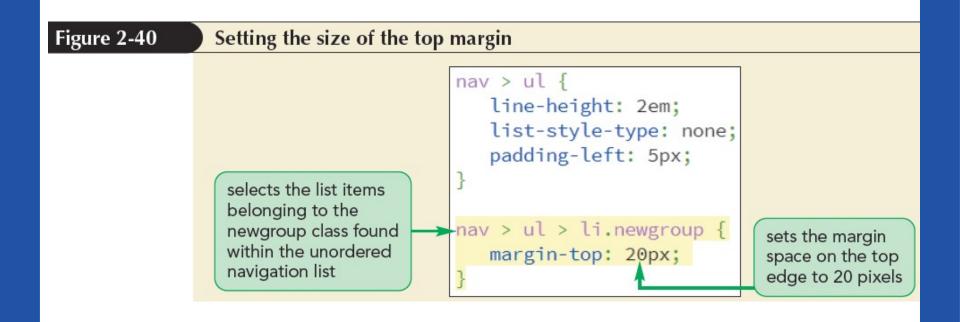
 To set the size of the margin around block-level elements, use

```
-margin: size;
-margin: top right bottom left;
```

To set the size of the border space, use

```
- border-width: size;
- border-width: top right bottom left;
```

Setting the Margin and Border Spaces - 2/2



Using Pseudo-Classes and Pseudo-Elements - 1/3

 Pseudo-class – classifies an element based on its current status, position, or use in the document

```
element: pseudo-class
```

where element is an element from the document and pseudo-class is the name of a css pseudo-class

 Structural pseudo-class – classifies an element based on its location within the structure of the HTML document

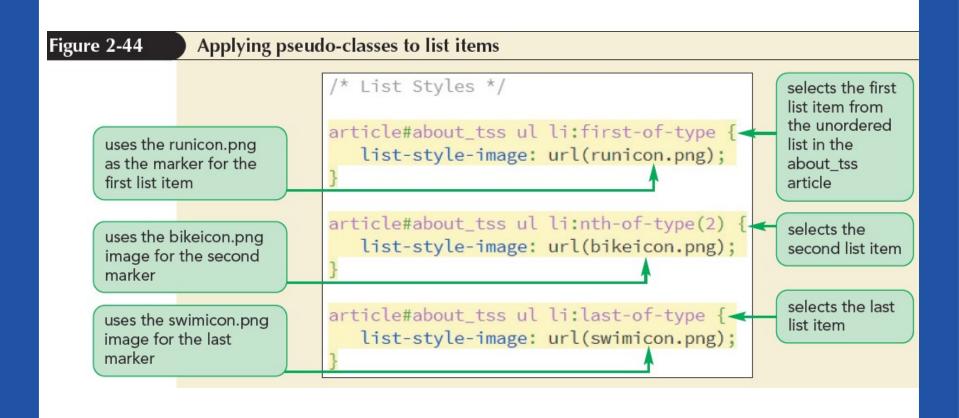
Using Pseudo-Classes and Pseudo-Elements - 2/3

Figure 2-43

Structural pseudo-classes

The top element in the document hierarchy (the html element) empty An element with no content only-child An element with no siblings first-child The first child of the parent element last-child The last child of the parent element first-of-type The first descendant of the parent that matches the specified type last-of-type The last descendant of the parent that matches the specified type nth-of-type(n) The nth element of the parent of the specified type nth-last-of-type(n) The nth from the last element of the parent of the specified type nth-last-of-type An element that has no siblings of the same type lang(code) The element that has the specified language indicated by code not(selector) An element not matching the specified selector	Pseudo-Class	Matches
<pre>:only-child</pre>	:root	The top element in the document hierarchy (the html element)
:first-child The first child of the parent element :last-child The last child of the parent element :first-of-type The first descendant of the parent that matches the specified type :last-of-type The last descendant of the parent that matches the specified type :nth-of-type(n) The nth element of the parent of the specified type :nth-last-of-type(n) The nth from the last element of the parent of the specified type :only-of-type An element that has no siblings of the same type :lang(code) The element that has the specified language indicated by code	:empty	An element with no content
:last-child The last child of the parent element :first-of-type The first descendant of the parent that matches the specified type :last-of-type The last descendant of the parent that matches the specified type :nth-of-type(n) The nth element of the parent of the specified type :nth-last-of-type(n) The nth from the last element of the parent of the specified type :only-of-type An element that has no siblings of the same type :lang(code) The element that has the specified language indicated by code	:only-child	An element with no siblings
:first-of-type The first descendant of the parent that matches the specified type :last-of-type The last descendant of the parent that matches the specified type :nth-of-type(n) The nth element of the parent of the specified type :nth-last-of-type(n) The nth from the last element of the parent of the specified type :only-of-type An element that has no siblings of the same type :lang(code) The element that has the specified language indicated by code	:first-child	The first child of the parent element
:last-of-type The last descendant of the parent that matches the specified type The nth element of the parent of the specified type The nth from the last element of the parent of the specified type The nth from the last element of the parent of the specified type The nth from the last element of the specified type An element that has no siblings of the same type The element that has the specified language indicated by code	:last-child	The last child of the parent element
:nth-of-type(n)The n^{th} element of the parent of the specified type:nth-last-of-type(n)The n^{th} from the last element of the parent of the specified type:only-of-typeAn element that has no siblings of the same type:lang($code$)The element that has the specified language indicated by $code$:first-of-type	The first descendant of the parent that matches the specified type
 :nth-last-of-type(n) :only-of-type :lang(code) The nth from the last element of the parent of the specified type :nth-last-of-type(n) An element that has no siblings of the same type :lang(code) The element that has the specified language indicated by code 	:last-of-type	The last descendant of the parent that matches the specified type
 :only-of-type An element that has no siblings of the same type :lang(code) The element that has the specified language indicated by code 	:nth-of-type(n)	The n^{th} element of the parent of the specified type
:lang(code) The element that has the specified language indicated by code	:nth-last-of-type(n)	The n^{th} from the last element of the parent of the specified type
z, , , , , , , , , , , , , , , , , , ,	:only-of-type	An element that has no siblings of the same type
:not(selector) An element not matching the specified selector	:lang(code)	The element that has the specified language indicated by code
	:not(selector)	An element not matching the specified selector

Using Pseudo-Classes and Pseudo-Elements - 3/3



Using Pseudo-Classes and Pseudo-Elements - 3/3



Pseudo-classes for Hypertext

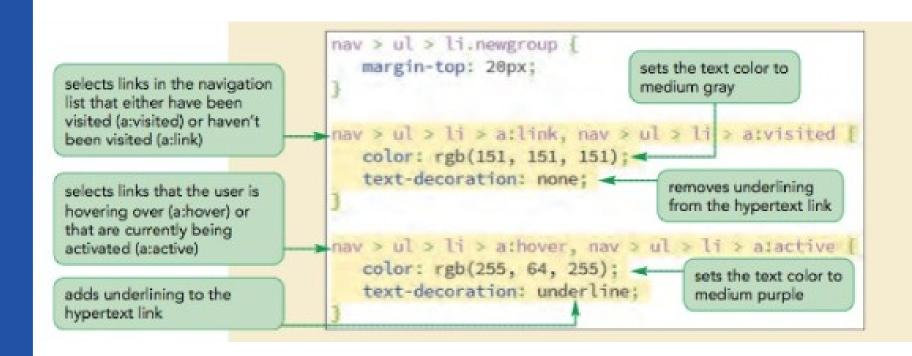
 Dynamic pseudo-class – A type of pseudoclass in which the class can change state based on the actions of the user

Figure 2-46

Dynamic pseudo-classes

Pseudo-Class	Description
:link	The link has not yet been visited by the user.
:visited	The link has been visited by the user.
:active	The element is in the process of being activated or clicked by the user.
:hover	The mouse pointer is hovering over the element.
:focus	The element is receiving the focus of the keyboard or mouse pointer.

Pseudo-classes for Hypertext



Pseudo-Elements - 1/2

 Pseudo-element – An object that exists only in the rendered page

 Pseudo-elements can be selected using the following CSS selector:

```
element::pseudo-element
```

where element is an element from the HTML file and pseudo-element is the name of a CSS pseudo-element

Pseudo-Elements - 2/2

Figure 2-49

Pseudo-elements

Pseudo-Element	Description
::first-letter	The first letter of the element text
::first-line	The first line of the element text
::before	Content inserted directly before the element
::after	Content inserted directly after the element

Generating Content with CSS - 1/2

 New content can be added either before or after an element using the following before and after pseudo-elements:

```
element::before {content: text;}
element::after {content: text;}
```

where *text* is the content to be inserted into the rendered web page

Generating Content with CSS - 2/2

Figure 2-50

Values of the content property

Value	Description
none	Sets the content to an empty text string
counter	Displays a counter value
attr(attribute)	Displays the value of the selector's attribute
text	Displays the specified text
open-quote	Displays an opening quotation mark
close-quote	Displays a closing quotation mark
no-open-quote	Removes an opening quotation mark, if previously specified
no-close-quote	Removes a closing quotation mark, if previously specified
url(url)	Displays the content of the media (image, video, etc.) from the file located at url

Displaying Attribute Values

 The content property can be used to insert an attribute value into the rendered web page using the attr() function

```
content: attr(attribute);
```

where attribute is an attribute of the selected element

Inserting Quotation Marks - 1/2

 The blockquote and q elements are used for quoted material

 Decorative opening and closing quotation marks can be inserted using the content property as follows:

```
content: open-quote;
content: close-quote;
```

Inserting Quotation Marks - 2/2

Figure 2-51 Adding quotation marks to block quotes aside blockquote { character codes for the " and " curly quotes color: rgb(232, 165, 116); margin: 20px 5px; quotes: "\201C" "\201D"; displays the open quote character before each block quote before pseudo-element aside blockquote::before { content: open-quote; font-family: 'Times New Roman', Times, serif; font-size: 1.6em; font-weight: bold; displays the close quote character after after pseudo-element format applied to the each block quote opening and closing aside blockquote::after { quotation marks content: close-quote; < font-family: 'Times New Roman', Times, serif; font-size: 1.6em; font-weight: bold;