

HTML5 and CSS3

Introductory

Second Edition

Unit C

Getting Started with CSS

Unit C

HTML Web Elements Review (Should be included in your lab 2)

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <!--
4   Spotted Wren Garden Center main web page
5   Filename: index.html
6
7   Author: Mar Castro
8   Date: 29 September 2017
9   HTML5 and CSS3 Illustrated Unit C, Independent Challenge 1
10 -->
11 <head> <!-- container for meta data-->
12   <title>Spotted Wren Garden Center</title> <!--defines title of the document -->
13   <!--
14     1. UTF-8 is a character encoding capable of encoding all 1,112,064 valid
15       code points in Unicode using one to four 8-bit bytes.
16   -->
17   <meta charset="utf-8">
18   <!-- Gives the browser instructions how to control the page's dimensions and scaling
19   -->
20   <meta name="viewport" content="width=device-width">
21 </head>
22 <body> <!-- contains all the contents of an HTML document, such as text, hyperlinks, images, tables, lists, etc-->
23   <header> <!-- element represents a container for introductory content or a set of navigational links-->
24     <h1>Spotted Wren Garden Center</h1>
25   </header>
26   <article> <!-- tag specifies independent, self-contained content.-->
27
28     <p>For your year-round garden and yard needs</p>
29     <p>Looking for something unusual or hard to find? Ask us!</p>
30   </article>
31   <footer> <!-- defines a footer for a document or section -->
32     <p>548 N. 58th St. | Monterey, CA 68132 | (402) 555-9736</p>
33   </footer>
34 </body>
35 </html>
```

HTML Validator: <https://validator.w3.org/>
CSS Validator: <http://jigsaw.w3.org/css-validator/>

Name, date, &
other pertinent info

Note: These elements
are the foundation of
Signature Assignment.

Unit C

Objectives

- Assess style rules
- Create an embedded style sheet
- Implement an ID selector
- Implement a class selector
- Use multiple selectors
- Create an external style sheet
- Link to an external style sheet
- Add a comment to a style sheet
- Debug and validate CSS code

Assess Style Rules

- CSS (Cascading Style Sheets): adds style information to elements defined in HTML code
- Style rules: lines or blocks of CSS code that specify the presentation of web page elements
- Declarations: basic building block of CSS, includes a property name and a value, e.g. `text-align: center`

Assess Style Rules (continued)

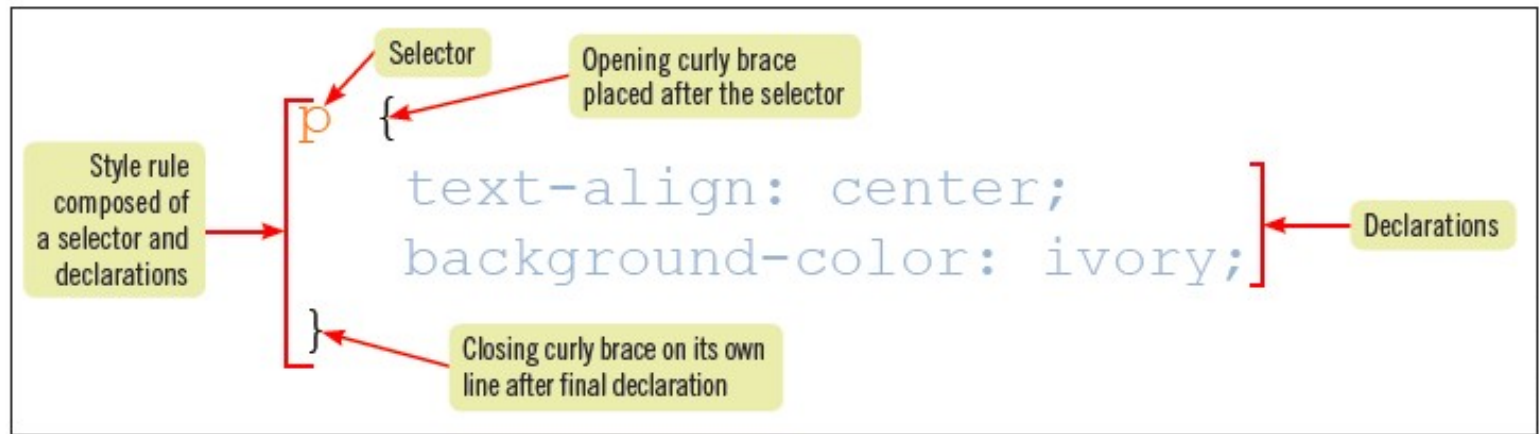
- Style rules contain two main parts
 - Selectors: identify the HTML elements to which the rule applies
 - Declarations: specify CSS property to apply to the selector and value to assign to the property
 - Each declaration (property: value) ends with a semicolon
 - All declarations surrounded by curly braces

Example: next slide →

Unit C

Assess Style Rules (continued)

- CSS style rule



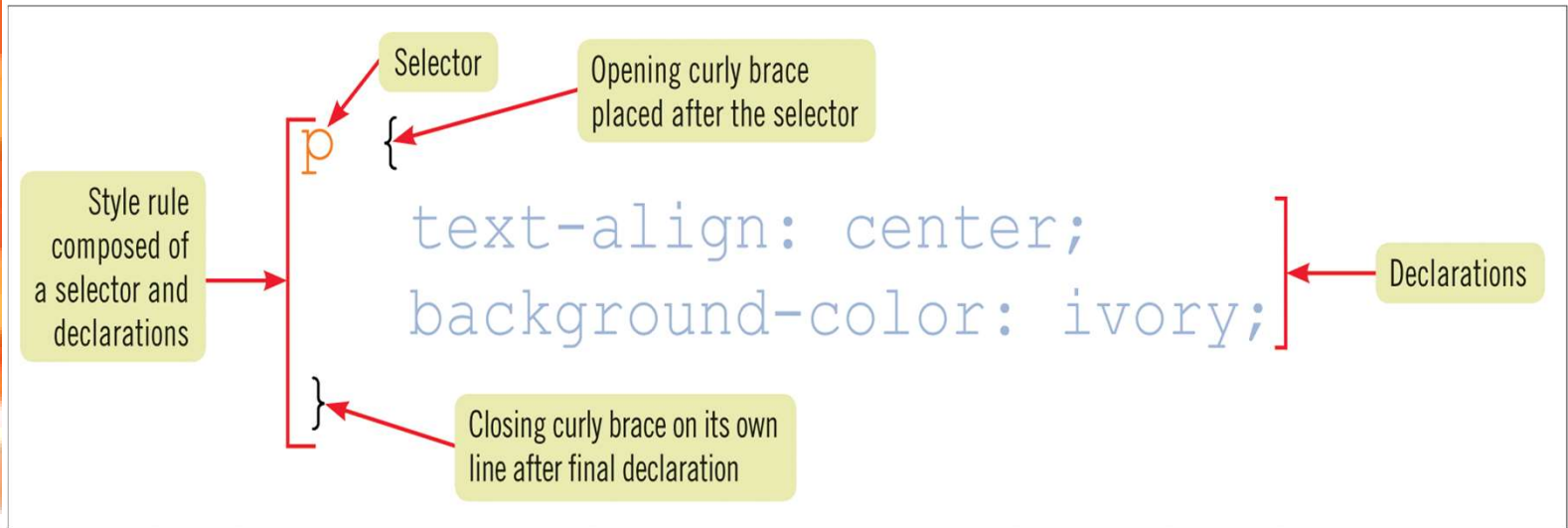
- CSS properties and values

property	affects	allowable values	example
background-color	an element's fill color, behind any content such as text	name from a list of supported colors, or code using one of several systems for specifying color using numeric values	background-color: ivory;
color	an element's foreground color; for elements containing text, this is the text color	name from a list of supported colors, or code using one of several systems for specifying color using numeric values	color: wheat;
text-align	the horizontal alignment of text within the element that contains it	left, right, center, justify, inherit (same value as enclosing element)	text-align: center;

Unit C

Semicolon

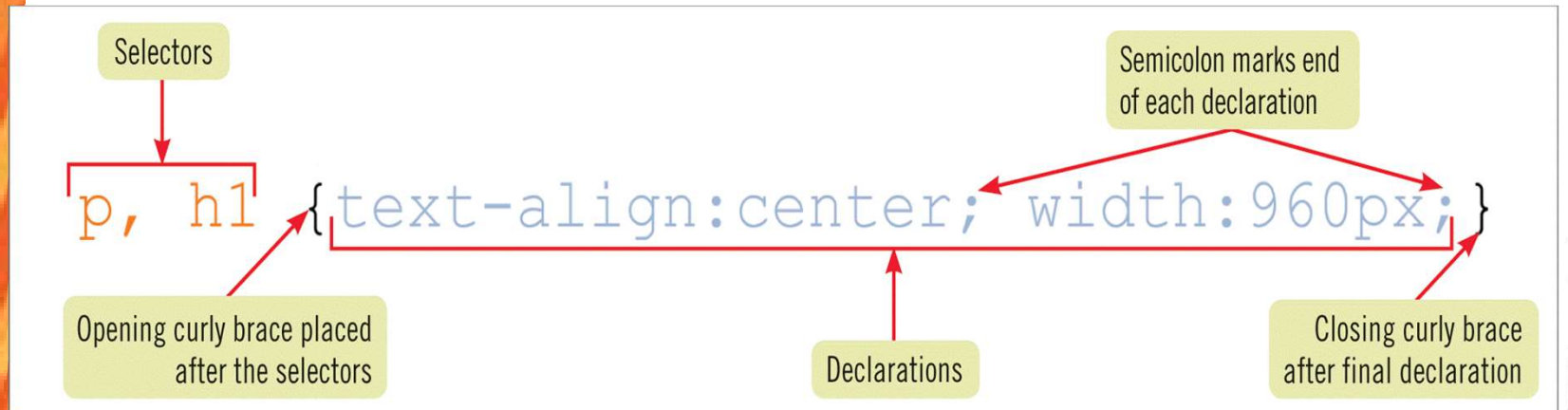
(attribute-value pair ends with a semicolon)



Format advantage: Easier to read.
Each declaration has its own line.

Unit C

Declarations on the same line



NOTE: To keep the code compact is a matter of personal taste.

Unit C

Classroom Activities

Why it is helpful and important to use CSS to format a web page rather than using HTML formatting elements?



Create an Embedded Style Sheet

- Embedded Style Sheet: CSS code inserted in the head element of an HTML document
 - Most straightforward method for affecting the presentation of a single web page
 - Generally used only with a single web page
 - Labor intensive to update embedded styles if added to lots of web pages

Unit C

Create an Embedded Style Sheet (continued)

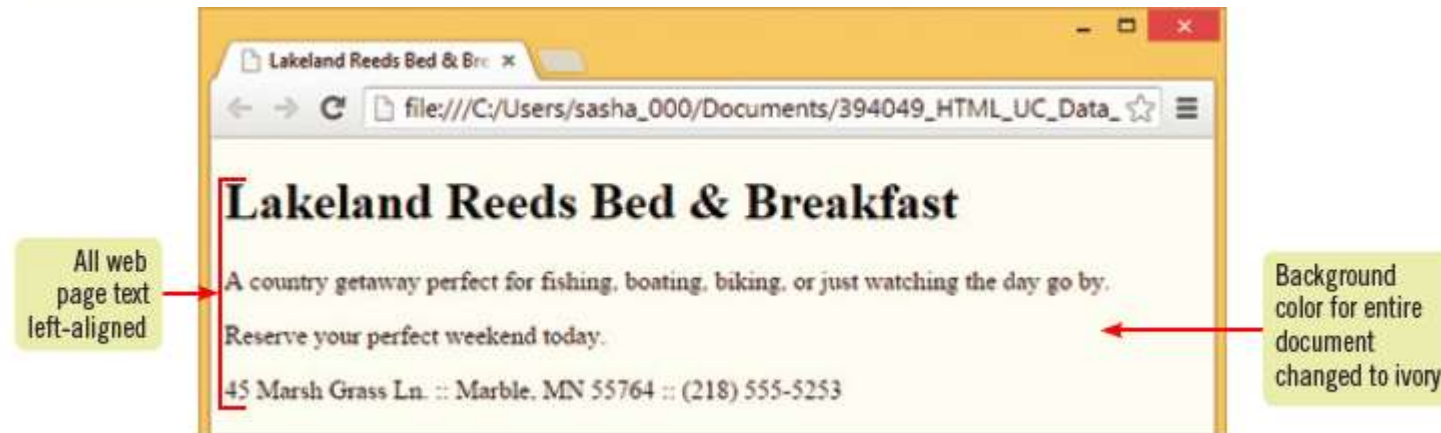
- Embedded style rule and resulting web page

```
14 <meta name="body selector applies declarations vice-width">
15 <script src="to the body element"></script>
16 <style>
17   body {
18     background-color: ivory;
19     text-align: left;
20   }
21 </style>
22 </head>
23 <body>
  <h1>Lakeland Reeds Bed & Breakfast</h1>
  <p>A country getaway perfect for fishing, boating, biking, or just watching the day go by.</p>
  <p>Reserve your perfect weekend today.</p>
  <p>45 Marsh Grass Ln. :: Marble, MN 55764 :: (218) 555-5253</p>
</body>
```

Style rules contained within a `style` element for an embedded style sheet

background-color property sets the color behind content

text-align property sets the horizontal alignment of text



Unit C

Demo css_basic.html

If you go to your EMS, you may download and open css_basic.html for a demo.

```
<!--<script src="modernizr.custom.62074.js"></script>-->
<style>
  h1 {
    background-color: green;
    text-align: center;
  }
  p {
    text-align: center;
  }
  footer {
    background-color: red;
  }
</style>
</head>
<body>
  <header>
    <h1>Welcome to Mar's Game Center</h1>
  </header>
  <article>
    <p>Playing video games is fun.</p>
    <p>But creating videos using HTML, CSS, JavaScript is better using Adobe Phone Gap</p>
    <p><a href="https://phonegap.com/getstarted/">https://phonegap.com/getstarted/</a></p>
  </article>
  <footer>
    <p>548 N. 58th St. | Monterey, Ca 68132 | (402) 555-9736</p>
  </footer>
</body>
```

Unit C

Demo css_basic.html Output

If you go to your EMS, you may download and open css_basic.html for a demo.

Welcome to Mar's Game Center

Playing video games is fun.

But creating videos using HTML, CSS, JavaScript is better using Adobe Phone Gap

<https://phonegap.com/getstarted/>

548 N. 58th St. | Monterey, Ca 68132 | (402) 555-9736

Unit C

Clues



Unit C

Classroom Activities

Assume that you are in the process of creating a draft for a website containing a single page. Because this is a draft, you expect that there will be changes to the layout of the web page. Discuss whether this project is suitable for using an embedded style sheet.



Unit C

Implement an ID Selector

- id selector: affects the presentation of a specific HTML element
- Add `id` attribute to opening tag of an HTML element to give it a unique value
 - e.g., `<p id="name"> John Smith </p>`
- Use `#` and `id` value to create CSS `id` selector for a style rule
 - e.g., `#name {text-align: right;}`

Unit C

Implement an ID Selector (continued)

Syntax: #idValue { attribute:value pairs; }

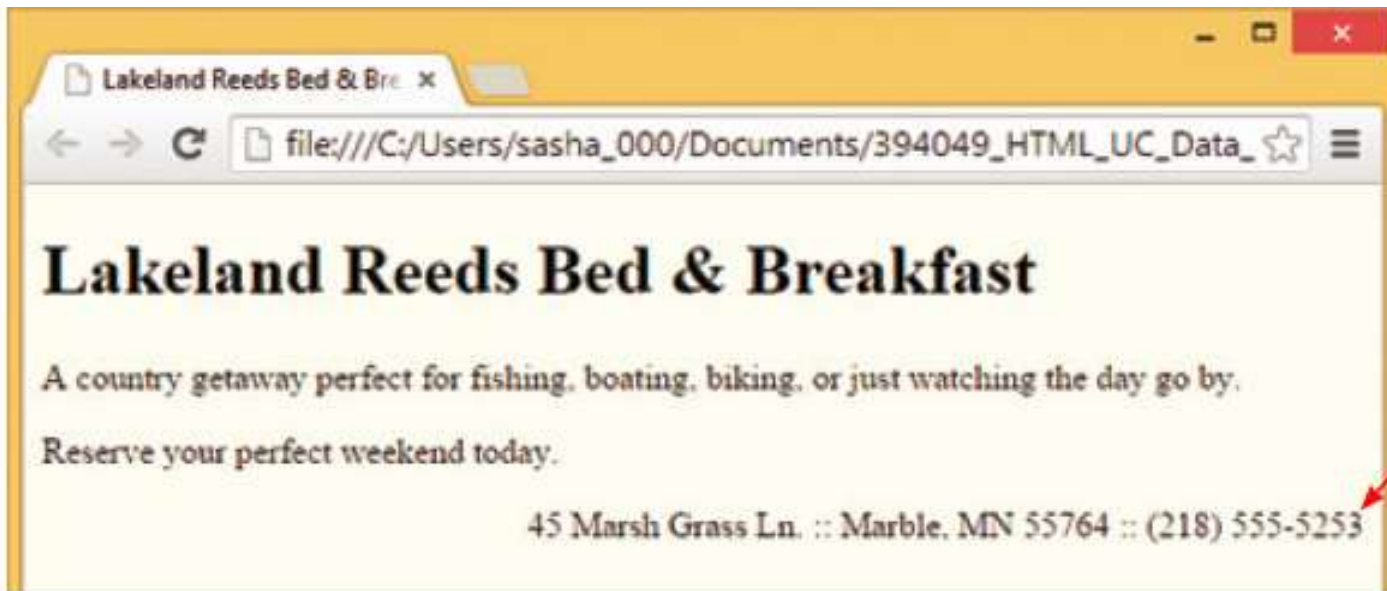
```
16      <style>
17          body {
18              background-color: ivory;
19              text-align: left;
20          }
21      New style rule using an ID selector → #contact {
22          text-align: right;
23      }
24  </style>
25  </head>
26  <body>
27      <header>
28          <h1>Lakeland Reeds Bed & Breakfast</h1>
29      </header>
30      <p>A country getaway perfect for fishing, boating, biking, or just watching the day
31      go by.</p>
32      <p>Reserve your perfect weekend today.</p>
33      <footer>
34          <p id="contact">45 Marsh Grass Ln. :: Marble, MN 55764 :: (218) 555-5253</p>
35      </footer>
36  </body>
37 </html>
```

id attribute with value of contact added to opening <p> tag

Unit C

Implement an ID Selector (continued-example output

Presentation resulting from use of ID selector



p element
with id
attribute
value
contact
right-aligned

Unit C

Demo

css_basic_with_id.html

```
<style>
  h1 {
    background-color: green;
    text-align: center;
  }
  p {
    text-align: center;
  }
  footer {
    background-color: red;
  }

  #myfirstid {
    background-color: yellow;
  }

  #myfirstid {
    background-color: blue;
  }
</style>
```

Added to
Target specific
id.

Unit C

Demo

css_basic_with_id.html

Welcome to Mar's Game Center

My school ID number is 1234

My cat's name is Kathy

Playing video games is fun.

But creating videos using HTML, CSS, JavaScript is better using Adobe Phone Gap

<https://phonegap.com/getstarted/>

548 N. 58th St. | Monterey, Ca 68132 | (402) 555-9736

```
#myfirstid {  
  background-color: yellow;  
}  
  
#myfirstid {  
  background-color: blue;  
}
```

Syntax

```
#id {  
  css declarations;  
}
```

```
<div>  
  <p id="myfirstid">My school ID number is 1234</p>  
  <p id="mycatsname">My cat's name is Kathy</p>  
</div>
```

Added to
Target specific
id.

Unit C

Class Activities

In which a type based style rule and an id selector based style rule contradict each other. For example, an HTML page includes an h1 element with the id "date". A type selector style rule specifies that all h1 elements should be centered, whereas an id selector style rule specifying the element having the id "date" indicates that this element should be aligned to the right. How should the element be displayed? Which of the style rules, if any, should take precedence.

Unit C

CSS Precedence Rules

RULE: !important (highest precedence)

Demo File: css_precedencerule1.html

```
<style>
  div {
    font-family: Arial;
    font-size: 16px !important;
  }
  .specialText {
    font-size: 50px;
  }
</style>
```

```
<div class="specialText">
```

!important is the highest precedence. You apply this rule if you want CSS property for the same HTML elements.

```
</div>
```

Unit C

CSS Precedence Rules

RULE: Specificity of CSS Rule Selectors

Demo File: `css_precedencerule2.html`

Inherited styles : Lowest specificity of all selectors - since an inherited style targets the element's parent, and not the HTML element itself.

* Lowest specificity of all directly targeted selectors

element Higher specificity than universal selector and inherited styles.

attribute Higher specificity than element selector

class Higher specificity than attribute, element and universal selectors.

ID Higher specificity than class selector.

Combined selectors Gets the specificity of the selectors combined.

CSS properties set directly on element, inside style attribute.
Stronger specificity than ID selector.

Unit C

CSS Precedence Rules

RULE: Specificity of CSS Rule Selectors
continue.

Demo File: [css_precedencerule2.html](#)

```
<style>
  body      { font-size: 10px; } /* set for the body element in the
  div       { font-size: 12px; }
  [mymy]    { font-size: 14px; }
  .myText   { font-size: 16px; }
  #myId     { font-size: 18px; }
</style>

<div       > CSC525 Text Sample 1 </div>
<div mymy  > CSC525 Text Sample 2 </div>
<div mymy class="myText" > CSC525 Text Sample 3 </div>
<div mymy class="myText" id="myId" > CSC525 Text Sample 4 </div>
```

Unit C

Implement a Class Selector

- class attribute: can be assigned to multiple HTML elements
- class selector: creates a style rule based on values assigned to the class attribute
 - Allows style rule to be applied to unlimited number of separate elements
 - Consists of period followed by `class` attribute value; e.g. `.accent`

Implement a class Selector (continued **code** example)

- class attribute and style rule with class selector added

```
16      <style>
17          body {
18              background-color: ivory;
19              text-align: left;
20          }
21          #contact {
22              text-align: right;
23          }
24          .accent {
25              color: darkcyan;
26          }
27      </style>
28  </head>
29  <body>
30      <header>
31          <h1>Lakeland Reeds Bed & Breakfast</h1>
32      </header>
33      <p class="accent">A country getaway perfect for fishing, boating, biking, or just
34      watching the day go by.</p>
35      <p class="accent">Reserve your perfect weekend today.</p>
36      <footer>
37          <p id="contact">45 Marsh Grass Ln. :: Marble, MN 55764 :: (218) 555-5253</p>
```

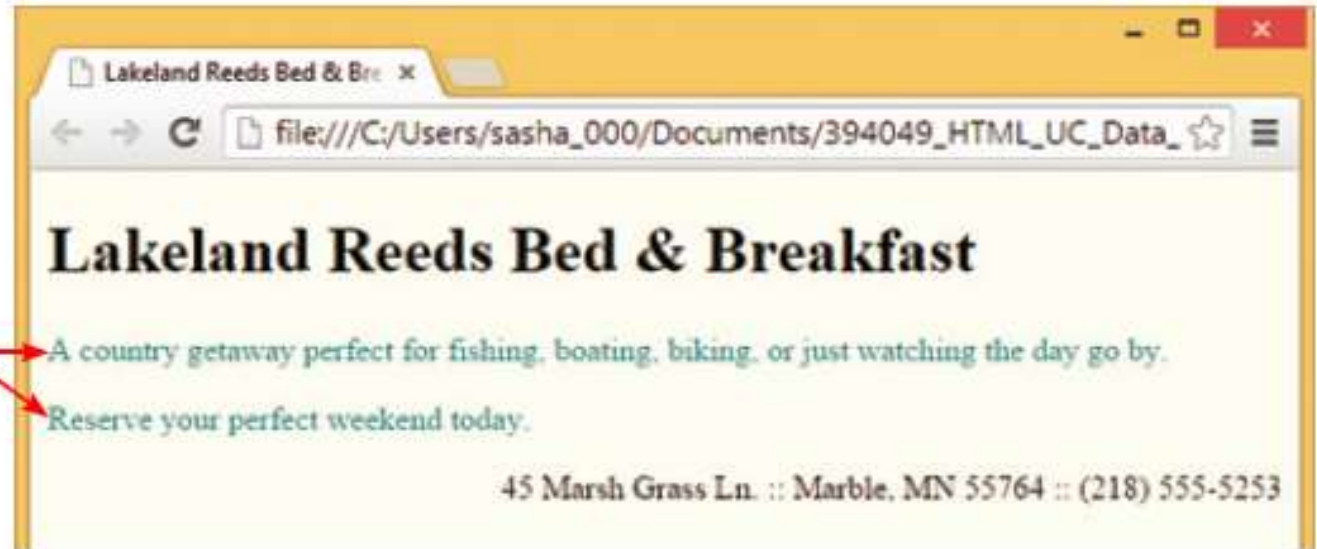
New style rule using a class selector

class attribute with value of accent added to opening <p> tags for two elements

Implement a class Selector (continued sample **output**)

- Presentation resulting from use of `class` selector

Text color
changed for
elements
with `class`
attribute
value
`accent`



class selector Demo

Demo: css_usingclass.html

```
<style>
  header {
    background-color: yellow;
  }
  #tagline {
    text-align: right;
  }
  article {
    text-align: center;
  }
  .contact { /*can be assigned to multiple HTML elements*/
    text-align: right;
    background-color: red;
  }
</style>
```

```
<header>
  <h1>Big J's Deep Dish Pizza</h1>
  <p id="tagline">Authentic Chicago-style pies</p>
</header>
<footer>
  <p class="contact">150 St. Joseph St.</p>
  <p class="contact">Toronto, ON M5S 2C3</p>
  <p class="contact">(416) 555-3337</p>
</footer>
```

class selector Demo output

Demo: css_usingclass.html

Note: Deciding whether to use an ID or a class selector

Big J's Deep Dish Pizza

Authentic Chicago-style pies

150 St. Joseph St.

Toronto, ON M5S 2C3

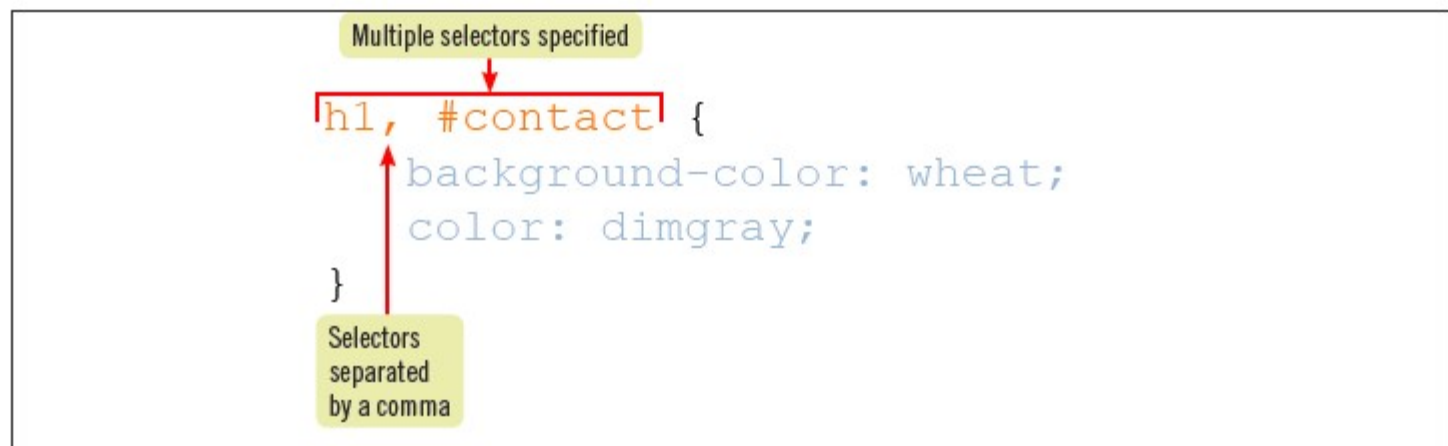
(416) 555-3337

Activities

Although this is not true in practice, assume that you can only apply a single class value to each HTML element. Suppose that Jim is writing a website listing all of his friends and their phone numbers, and wants to format the list according to the interests of his friends. Any friends interested in trains will be listed in **boldface**, any friends interested in cars will be listed in *italic*, and any friends interested in baseball will be listed in **red letters**. How many classes will Jim need to create in order to achieve the desired presentation of his list?

Use Multiple Selectors

- Multiple selectors allow you to add the same style rule to multiple HTML elements
 - Type selector name, comma, space (optional), next selector name
 - Type a curly brace, followed by the declaration(s), followed by a curly brace



Unit C

Applying Multiple Selectors

Multiple selectors specified

```
h1, #contact {  
    background-color: wheat;  
    color: dimgray;  
}
```

Selectors
separated
by a comma

Note: Use comma for each selector

Unit C

Use Multiple Selectors (continued)

Commonly used CSS selectors

selector	description	example	selects
Descendant	Specifies a series of nested elements and selects the final, most deeply nested element	<code>article div p</code>	Each <code>p</code> element nested within a <code>div</code> element that is itself nested within an <code>article</code> element
Direct child	Selects an element that is a child (but not grandchild, etc.) of another specified element	<code>div > p</code>	Each <code>p</code> element whose parent element is a <code>div</code> element
Direct next sibling	Selects an element that is a sibling of another specified element and <i>directly</i> follows that element	<code>h1 + p</code>	Each <code>p</code> element that is a sibling of an <code>h1</code> element and <i>directly</i> follows that <code>h1</code> element
Next sibling	Selects an element that is a sibling of another specified element and follows that element (potentially with other siblings between them)	<code>h1 ~ p</code>	Each <code>p</code> element that is a sibling of an <code>h1</code> element and follows that <code>h1</code> element

Unit C

Demo css_multiple_selectors.html

```
h2, h3 { /*Multiple Selectors*/  
  text-align: right;  
}
```

CSS Multiple Selectors

```
<header>  
  <h1>Spotted Wren Garden Center H1 </h1>  
  <h2>Align to the right multiple selector H2</h2>  
  <h3>Align to the right multiple selector H3 </h2>  
</header>
```

Output

Spotted Wren Garden Center H1

Align to the right multiple selector H2

Align to the right multiple selector H3

For your year-round garden and yard needs

Looking for something unusual or hard to find? Ask us!

Create an External Style Sheet

- External style sheet: separate file containing style information
 - Suitable for maintaining a consistent style in large websites
 - Prevents need to implement style changes on each page of website
 - Changes made to external style sheet are reflected in all web pages linked to that style sheet
 - Can be linked to multiple HTML pages

Unit C

Create an External Style Sheet (continued) – Example

- An external style sheet

```
1  body {  
2    background-color: ivory;  
3    text-align: left;  
4  }  
5  #contact {  
6    text-align: right;  
7  }  
8  .accent {  
9    color: darkcyan;  
10 }  
11 h1, #contact {  
12   background-color: wheat;  
13   color: dimgray;  
14 }
```

Style rules
moved from
embedded
style sheet

Unit C

Link Element Example

```
1  <!DOCTYPE html>
2  <html lang="en">
3    <head>
4      <title>Lakeland Reeds Bed & Breakfast</title>
5      <!--
6        Lakeland Reeds Bed and Breakfast main web page
7        Filename: index.html
8
9        Author:   your first and last name
10       Date:     today's date
11       HTML5 and CSS3 Illustrated Unit C, Lessons
12     -->
13     <meta charset="utf-8">
14     <meta name="viewport" content="width=device-width">
15     <script src="modernizr.custom.62074.js"></script>
16     <link rel="stylesheet" href="styles.css">
17   </head>
18   <body>
```

link element
loads contents
of external CSS
document

Filename of external style sheet

Note: Because the contents of an external style sheet are written entirely in CSS, the file uses the extension .css instead of .html.

Unit C

Implementing CSS Inline Style

```
<h1 style="text-align: center;">Lakeland Reeds Bed and Breakfast</h1>
```

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Incorporate: To incorporate CSS attributes into an HTML document using inline styles, insert into the opening tag.

Benefits: None. It is better to use an embedded or external style sheet.

Note: Many developers avoid this style.

Unit C

Activities

Suppose that you created a website that includes six web pages, all of which are linked to a single external style sheet. You now want to change the font of all the text in your website. How many files will you need to change in order to achieve this? Does your answer change if you are restricted to writing only a single new style rule?

Unit C

Link to an External Style Sheet

- Use the HTML `link` element to link an HTML document to an external style sheet, e.g.

➤ `<link rel="stylesheet" href="mystylesheet.css" />`

- Attributes of the `link` element

attribute	description	example
<code>rel</code>	Indicates the type of content in the linked file; for a style sheet, the value is <code>stylesheet</code>	<code>rel="stylesheet"</code>
<code>href</code>	Specifies the filename of the linked file	<code>href="styles.css"</code>

Unit C

Link to an External Style Sheet (continued)

- Web page linked to an external style sheet and the style sheet

```
15 <script src="modernizr.custom.62074.js"></script>
16 <link rel="stylesheet" href="styles.css">
```

Every document linking to an external style sheet uses the same code for the link element

```
21 </header>
22 <h2>About Us</h2>
23 <p class="accent">Lakeland Reeds is an ideal place to unplug from your daily
24 routine, whether on the shore of Twin Lakes watching the sundown over the cattails
25 or just curled up in a hammock on our screened wraparound porch with a good book.
26 Breakfast is ready whenever you are, and we're happy to accommodate a wide range of
27 appetites, from comfort food like sausage and biscuits to the lighter end of
28 things, such as egg white omelettes a
29 <p class="accent">We're here to help
30 from canoes and life vests for a day
31 quiet evening in. We look forward to
32 <footer>
33 <p id="contact">45 Marsh Grass Ln.
34 </footer>
35 </body>
36 </html>
```

Document contains class and ID values corresponding to selectors in external style sheet

```
1 body {
2   background-color: ivory;
3   text-align: left;
4 }
5 #contact {
6   text-align: right;
7 }
8 .accent {
9   color: darkcyan;
10 }
11 h1, #contact {
12   background-color: wheat;
13   color: dimgray;
14 }
```

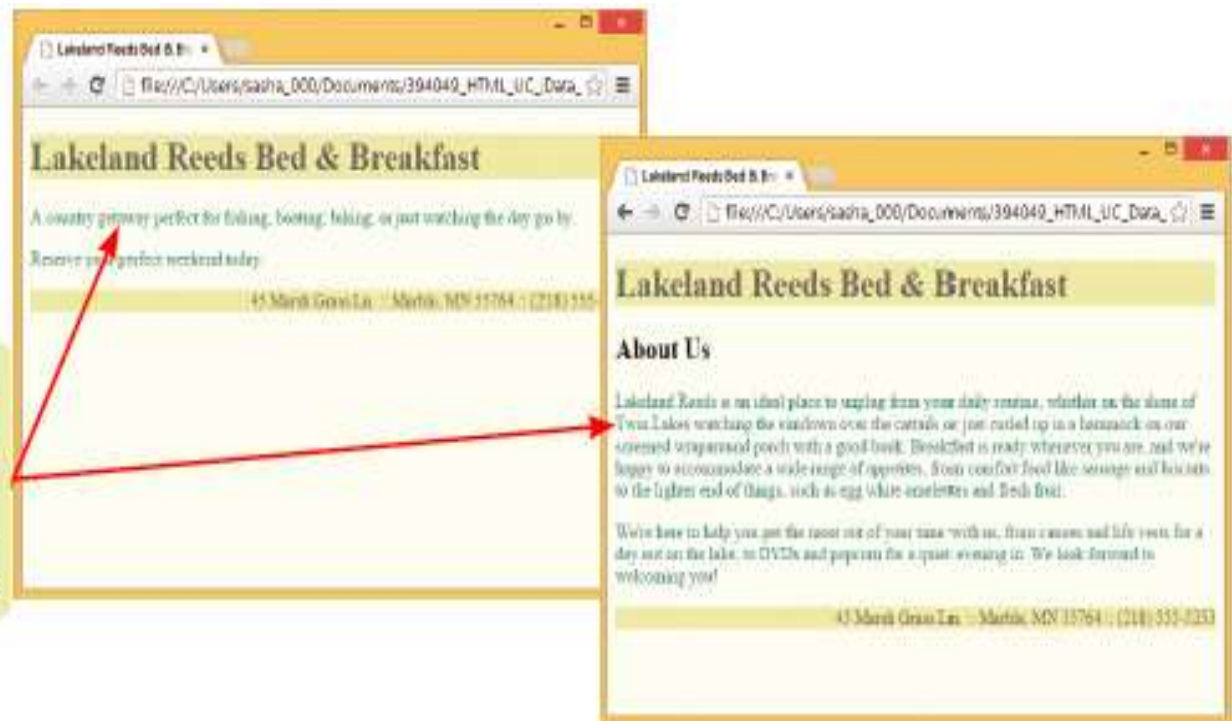
Style rules moved from embedded style sheet

Unit C

Link to an External Style Sheet (continued)

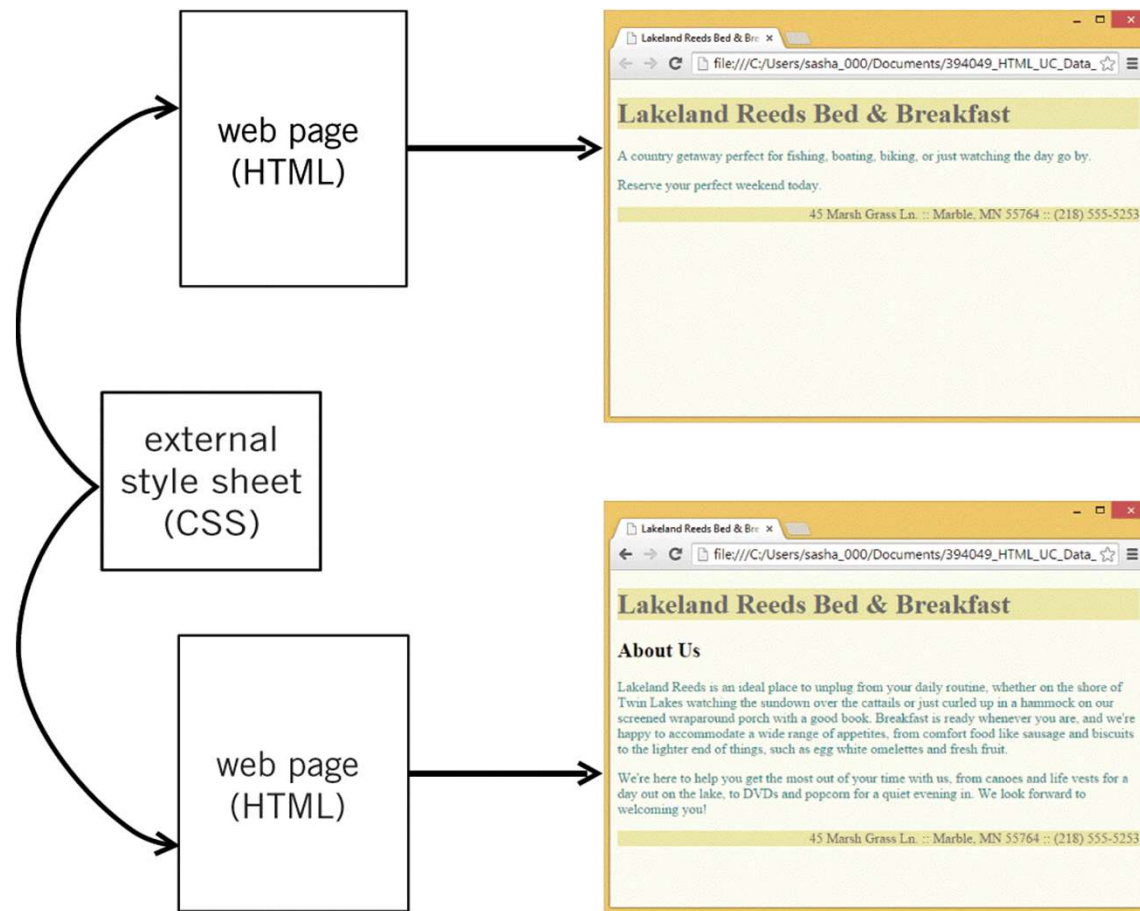
- Multiple pages styled by external style sheet

Corresponding p
elements in both
pages are rendered
with the same
styles



Unit C

Demo css_external.html & mystyleonly.css



Unit C

DEMO

```
15      <script src="modernizr.custom.62074.js"></script>
16      <link rel="stylesheet" href="styles.css">
21      </header>
22      <h2>About Us</h2>
23      <p class="accent">Lakeland Reeds is an ideal place to unplug from your daily
24      routine, whether on the shore of Twin Lakes watching the sundown over the cattails
25      or just curled up in a hammock on our screened wraparound porch with a good book.
26      Breakfast is ready whenever you are, and we're happy to accommodate a wide range of
27      appetites, from comfort food like sausage and biscuits to the lighter end of
28      things, such as egg white omelettes and fresh fruit.</p>
29      <p class="accent">We're here to help you get the most out of your time with us,
30      from canoes and life vests for a day out on the lake, to DVDs and popcorn for a
31      quiet evening in. We look forward to welcoming you!</p>
32      <footer>
33          <p id="contact">45 Marsh Grass Ln. :: Marble, MN 55764 :: (218) 555-5253</p>
34      </footer>
35  </body>
36  </html>
```

Every document linking to an external style sheet uses the same code for the link element

Document contains class and ID values corresponding to selectors in external style sheet

Add a Comment to a Style Sheet

- Use comments in CSS style sheet to document the file
- Syntax for style sheet comments
 - `/*` for opening tag
 - `[comment text]`
 - `*/` for closing tag
- Format for style sheet comments
 - Can be single line
 - Can be multi-line

Unit C

Add a Comment to a Style Sheet (Style sheet with comment added)

What do you put in your comment?

- Help identify sections
- Main ideas.

```
1  /*  
2    Lakeland Reeds Bed and Breakfast style sheet  
3    Filename: styles.css  
4  
5    Author:  your first and last name  
6    Date:    today's date  
7    HTML5 and CSS3 Illustrated Unit C, Lessons  
8  */  
9  
10 body {  
11     background-color: ivory;  
12     text-align: left;  
13 }
```

CSS start comment characters

CSS end comment characters

Unit C

Organizing CSS code (TIPS)

1. Esef
2. Include CSS comment at the start of each section. Example,

`/* footer section */`

- 3.

Unit C

Class Activities

Why would you want to include comments in your HTML and CSS files?

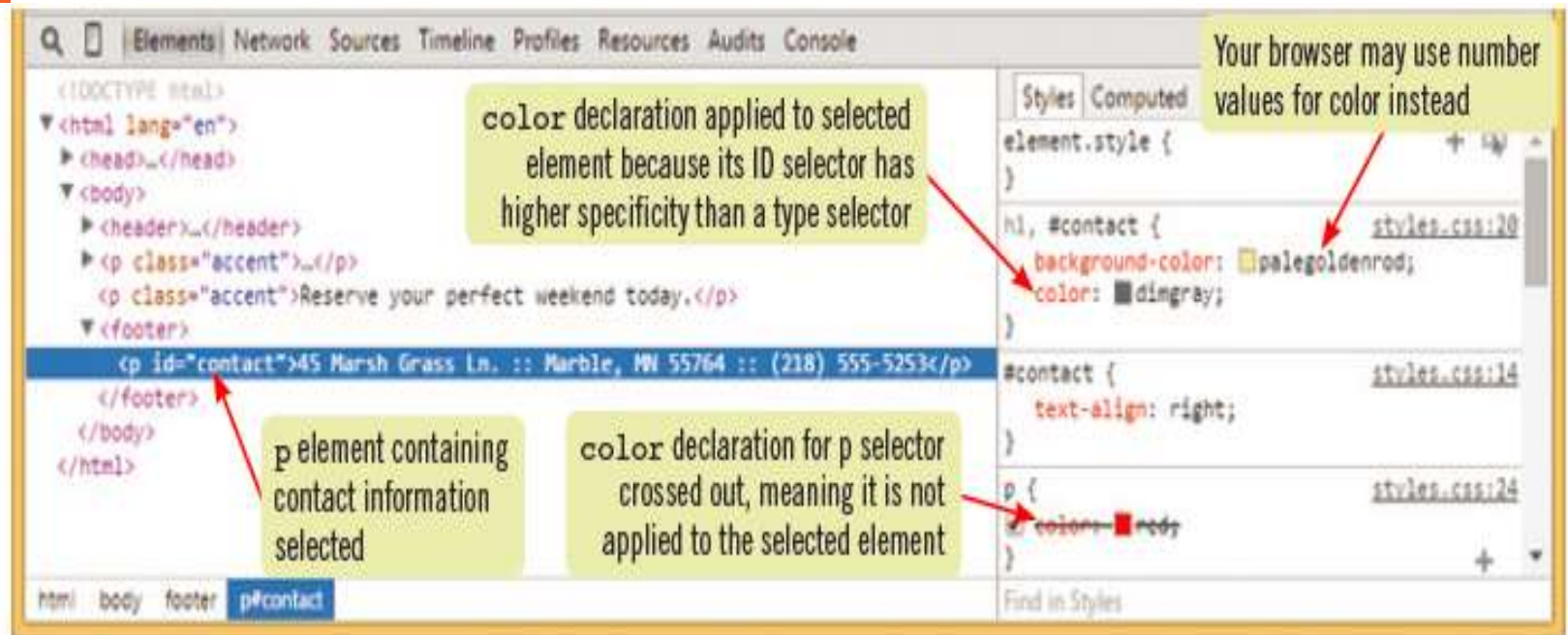
Debug and Validate CSS Code

- Important to debug and validate CSS code against CSS rules even when CSS code works in browser testing
 - Helps ensure compatibility of code with different user agents
 - Helps ensure that code remains usable
- You can use online tools to validate your code

Unit C

Debug and Validate CSS Code (continued)

- Use developer tools to debug code, such as developer tools in Chrome

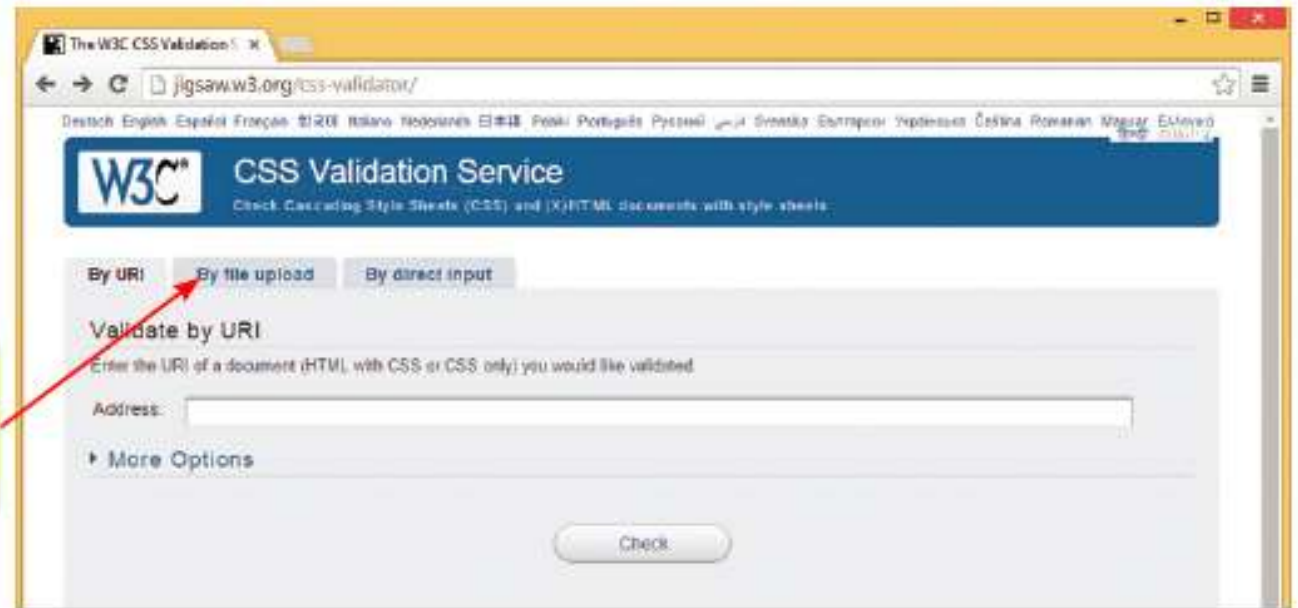


Unit C

Debug and Validate CSS Code (continued)

- Use online service to validate CSS code, such as W3C validation service page

Click to display
options for
uploading
your file



The screenshot shows the W3C CSS Validation Service web page. At the top, there's a navigation bar with the W3C logo and the text "CSS Validation Service". Below this, there are three tabs: "By URI", "By file upload", and "By direct input". The "By URI" tab is currently selected. Under the "By URI" tab, there's a section titled "Validate by URI" with a text input field labeled "Address:". Below the input field is a link that says "More Options". At the bottom of the form is a "Check" button. A red arrow points from the "More Options" link to the "By file upload" tab, indicating that clicking "More Options" will switch the interface to the file upload mode.

Unit C

Built-in Developer Tools (Using Browsers)

color declaration applied to selected element because its ID selector has higher specificity than a type selector

p element containing contact information selected

color declaration for p selector crossed out, meaning it is not applied to the selected element

Your browser may use number values for color instead

```
<!DOCTYPE html>
<html lang="en">
  <head>...</head>
  <body>
    <header>...</header>
    <p class="accent">...</p>
    <p class="accent">Reserve your perfect weekend today.</p>
    <p id="contact">45 Marsh Grass Ln. :: Marble, MN 55764 :: (218) 555-5253</p>
  </body>
</html>
```

```
element.style {
}

h1, #contact {
  background-color: #d4af37;
  color: #666;
}

#contact {
  text-align: right;
}

p {
  color: red;
}
```

Go ahead and open up your computer browsers and press F12 Windows short cut. On a Mac, hold [command] and click the contact information, then click Inspect element.

Unit C

Online CSS validators (W3C CSS Validation Service)

LINK: <http://jigsaw.w3.org/css-validator>

Click to display
options for
uploading
your file

The W3C CSS Validation Service interface is shown in a browser window. The URL bar displays `jigsaw.w3.org/css-validator/`. The page features a blue header with the W3C logo and the text "CSS Validation Service" and "Check Cascading Style Sheets (CSS) and (X)HTML documents with style sheets". Below the header, there are three tabs: "By URI", "By file upload", and "By direct input". The "By URI" tab is currently selected. Under this tab, there is a section titled "Validate by URI" with the instruction "Enter the URI of a document (HTML with CSS or CSS only) you would like validated:". Below this instruction is a text input field labeled "Address:". A red arrow points from the text box on the left to the "By file upload" tab. At the bottom of the form is a "Check" button.

Unit C

Key Terms

class selector (62)

CSS3 (56)

Declaration (56)

developer tools (72)

embedded style sheet (58)

external style sheet (66)

ID selector (60)

Inheritance (56)

inline style (67)

Property (56)

Selector (56)

Specificity (72)

Style rule (56)

type selector (56)

- HTML and CSS are complementary languages
 - HTML specifies the page content
 - CSS indicates how the content should be displayed
- CSS uses style rules
 - Selector, which identifies the HTML element
 - Declaration, which includes a property name and a value

Summary (continued)

- Different types of selectors affect different groups of elements
 - Type selector: applies to all HTML elements of a specific type, such as `h1`
 - `id` selector: applies to a single element having a specific unique `id`
 - `class` selector: applies to elements with a value specific to the `class` attribute
 - Multiple selectors: applies the same rule(s) to different elements

Summary (continued)

- Embedded style sheets are included in the HTML code
 - Suitable for single page websites
- External style sheets can be linked to multiple web pages
 - All linked web pages can be changed by changing a single style sheet
- Use the `link` element to link a web page to a CSS style sheet

Summary (continued)

- Use comments to document the style sheet
 - `/* [comment text] */`
- Use developer tools to debug CSS code
- Use online validation service to validate CSS code against CSS rules