

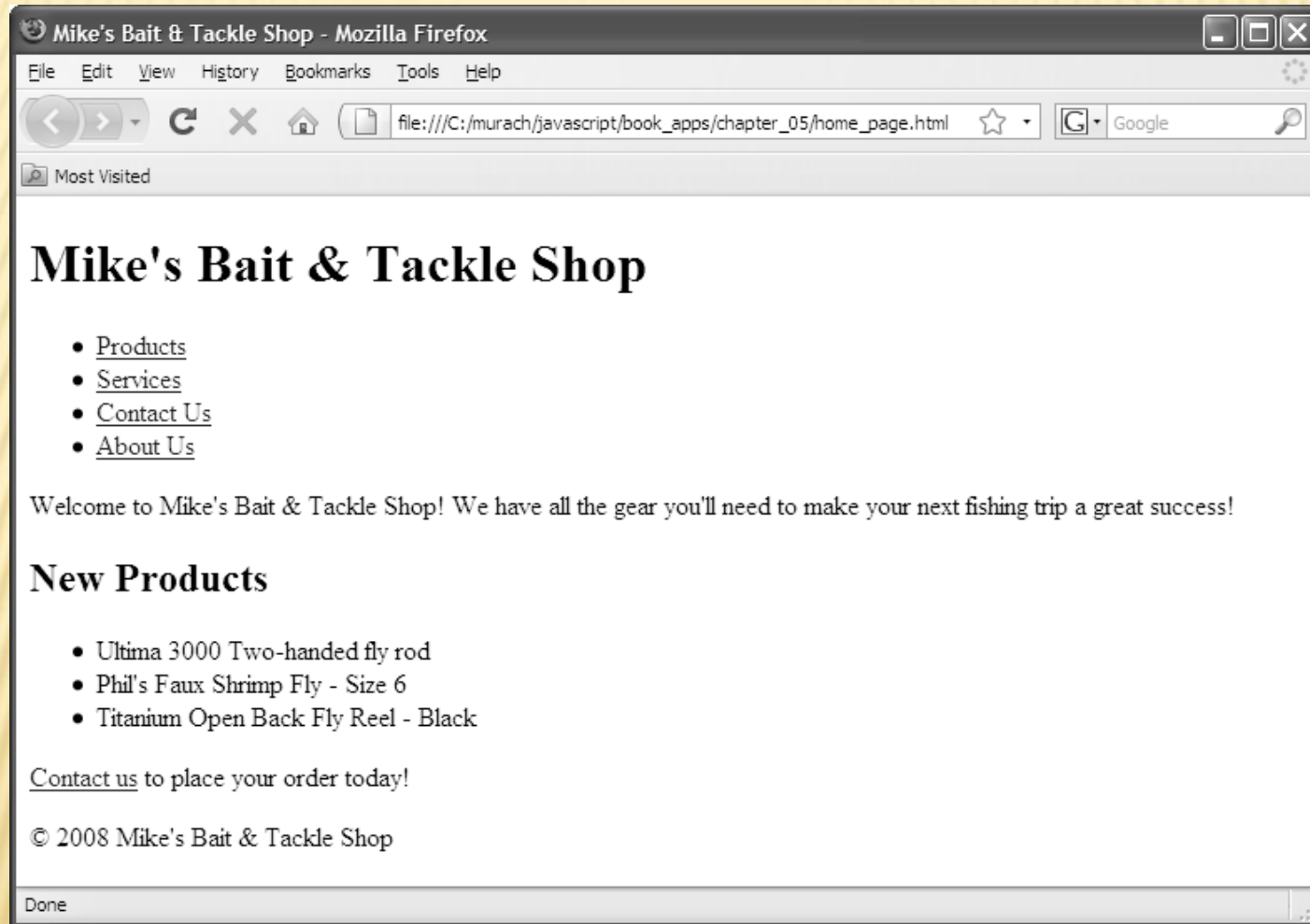
Chapter 5

A crash course in CSS

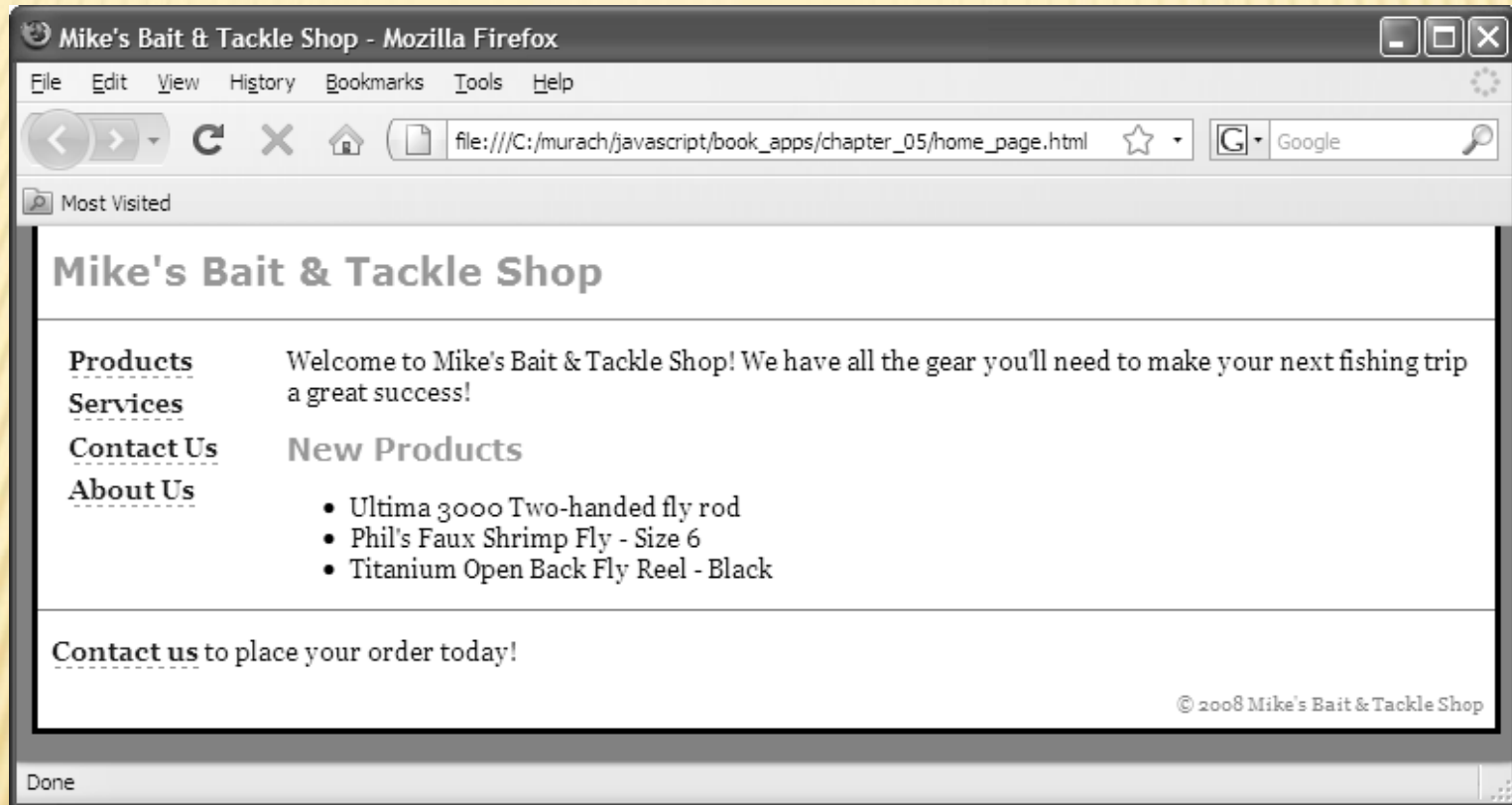
Ronald Kessler

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A web page before CSS has been applied



The same page after CSS has been applied



The XHTML for the home page

```
<!-- the head section -->
<head>
  <title>Mike's Bait & Tackle Shop</title>
  <link rel="stylesheet" type="text/css"
        href="home_page.css" />
</head>

<!-- the body section -->
<body>
<div id="page">

  <div id="header">
    <h1>Mike's Bait & Tackle Shop</h1>
  </div>
```

The XHTML for the home page (continued)

```
<div id="main">
  <div id="sidebar">
    <ul class="nav">
      <li><a href="products.html">Products</a></li>
      <li><a href="services.html">Services</a></li>
      <li><a href="contact.html">Contact Us</a>
        </li>
      <li><a href="about.html">About Us</a></li>
    </ul>
  </div>
```

The XHTML for the home page (continued)

```
<div id="content">
  <p class="first">Welcome to Mike's Bait
    & Tackle Shop!
    We have all the gear you'll need to make your
    next fishing trip a great success!</p>
  <h2>New Products</h2>
  <ul>
    <li>Ultima 3000 Two-handed fly rod</li>
    <li>Phil's Faux Shrimp Fly - Size 6</li>
    <li>Titanium Open Back Fly Reel - Black</li>
  </ul>
</div>
</div>
```

The XHTML for the home page (continued)

```
<div id="footer">  
  <p><a href="contact.html">Contact us</a>  
    to place your order today!</p>  
  <p class="copyright">&copy; 2008 Mike's Bait  
    &amp; Tackle Shop</p>  
</div>  
</div>  
</body>  
</html>
```

The CSS for the home page

```
/* the styles for the body tag */
body {
    margin-top: 0;
    background-color: dodgerBlue;
    font-family: Georgia, "Times New Roman", Times, serif;
    font-size: 81.25%;
}

/* the styles for the div tags
#page {
    width: 760px;
    margin: 0 auto;
    background-color: white;
    border: 3px solid black;
    border-top: none;
}
```

The CSS for the home page (continued)

```
#header, #main, #footer {
    padding-left: 0.5em;
    padding-right: 0.5em;
}
#header {
    border-bottom: 1px solid gray;
}

#main {
    padding-top: 1em;
    padding-left: 0;
}

#sidebar {
    position: absolute;
    width: 10em;
}
```

The CSS for the home page (continued)

```
#content {  
    margin-left: 10em;  
}  
  
#footer {  
    border-top: 1px solid gray;  
    padding-bottom: 0.5em;  
}
```

The CSS for the home page (continued)

```
/* the styles for the XHTML elements */
h1, h2 {
    color: darkOrange;
    font-family: Verdana, Arial, Helvetica, sans-serif;
}
h1 {
    font-size: 150%;
    margin-top: 0;
    padding-top: 0.5em;
}
h2 {
    font-size: 120%;
}
```

The CSS for the home page (continued)

```
ul {
  margin: 0 0 1em 0;
  padding: 0 0 0 2.5em;
}
li {
  margin: 0;
  padding: 0;
}

a {
  color: mediumBlue;
  text-decoration: none;
  font-weight: bold;
  border-bottom: 1px dashed darkOrange;
}
a:hover {
  border-bottom: 1px solid darkOrange;
}
```

The CSS for the home page (continued)

```
/* the styles for the XHTML classes */  
.copyright {  
    color: gray;  
    font-size: 80%;  
    text-align: right;  
    margin-bottom: 0;  
}  
p.first {  
    margin-top: 0;  
}  
ul.nav {  
    margin: 0;  
    padding-left: 1.25em;  
    list-style-type: none;  
}  
ul.nav li {  
    padding-bottom: 0.5em;  
}
```

The parts of a CSS rule set

selector



```
h1 {
```

```
  color: blue;
```

```
  font-size: 14pt; ← declaration
```

```
}
```

property

value

Another CSS rule set

```
body {  
    margin-top: 0;  
    background-color: dodgerBlue;  
    font-family: Georgia, "Times New Roman",  
        Times, serif;  
    font-size: 10pt;  
}
```

A CSS rule set with a complex selector

```
h1, #footer, .gray {  
    color: gray;  
}
```

A CSS comment

```
/* This is a CSS comment */
```

Two ways to include an external style sheet

With the <link> tag (the best practice)

```
<link rel="stylesheet" type="text/css"  
      href="../styles/main.css" />
```

With the <style> tag and the @import directive

```
<style type="text/css">  
  @import "../styles/main.css";  
</style>
```

Embedding styles (not recommended)

Embedding a style sheet in the head section

```
<style type="text/css">
  h1 {
    color: blue;
    font-size: 14pt;
  }
</style>
```

Using the style attribute of an inline tag

```
<span style="color: red; font-size: 14pt;">
  Warning!</span>
```

Including external style sheets for specific media

Including a style sheet for printing the page

```
<link rel="stylesheet" type="text/css"  
      href="../styles/main_print.css"  
      media="print" />
```

Including a style sheet for a handheld device

```
<link rel="stylesheet" type="text/css"  
      href="../styles/main_handheld.css"  
      media="handheld" />
```

Common units of measurement

Symbol	Name	Type
px	pixels	absolute
pt	points	absolute
em	ems	relative
%	percentages	relative

Four ways to specify font size

```
font-size: 12pt;  
font-size: 16px;  
font-size: 1em;  
font-size: 100%;
```

Two ways to specify width

```
width: 760px;  
width: 80%;
```

Three ways to specify colors

With a color name

```
color: silver;
```

With an RGB (red-green-blue) value

```
color: rgb(50%, 25%, 25%);  
color: rgb(128, 64, 64);  
/* Using three integers from 0 to 255 */
```

With an RGB value that uses hexadecimal numbers

```
color: #cd5c5c;  
color: #a6f;  
/* Expands to #aa66ff */
```

Elements that can be selected by tag, id, or class

```
<body>
  <div id="main">
    <p>Here is a list of links:</p>
    <ul class="nav">
      <li><a href="products.html">Products</a></li>
      <li><a href="services.html">Services</a></li>
    </ul>
  </div>
  <div id="footer">
    <p class="copyright inactive">Copyright 2009</p>
  </div>
</body>
```

CSS rule sets that select by tag and id

Tag

```
body {  
    font-family: Arial, sans-serif;  
}
```

ID

```
#main {  
    border: 2px solid black;  
    padding: 0.2em;  
}
```

CSS rule sets that select by class

```
.nav {  
    list-style-type: square;  
}  
.copyright {  
    text-align: right;  
}  
.inactive {  
    color: gray;  
}
```

The elements displayed in a browser

Here is a list of links:

- [Products](#)
- [Services](#)

Copyright 2009

Other ways to code selectors

The universal selector

```
* { color: black; }
```

Tag and class

```
ul.nav { list-style-type: square; }
```

Descendant elements

```
#footer p { font-size: 10pt; }  
ul a { color: green; }  
ul * { color: green; }
```

Child elements

```
#main > p { font-size: 12pt; }  
ul.nav > li { margin-left: 20px; }
```

Other ways to code selectors (continued)

Attributes

```
input[type=submit] {  
    border: 1px solid black;  
    color: white;  
    background-color: blue;  
}
```

Multiple selectors

```
h1, h2, h3 { color: blue; }  
p, ul.nav > li {  
    font-family: "Times New Roman", serif;  
}
```

Pseudo-class selectors

Name	Description
:link	A link that hasn't been visited.
:visited	A link that has been visited.
:hover	An element when the mouse is hovering over it.
:active	An element that's currently active.
:first-child	An element that's the first child element.

XHTML for pseudo-class selectors

```
<div id="main">
  <p>Welcome to Mike's Bait and Tackle Shop.
    We have all the gear
    you'll need to make your next fishing trip a great
    success!</p>
  <ul class="nav">
    <li><a href="products.html">Products</a></li>
    <li><a href="services.html">Services</a></li>
  </ul>
  <p><a href="contact.html">Contact us</a> to place
    your order today!</p>
</div>
```

The CSS for pseudo-class selectors

```
a:link {
    color: black;
}
a:visited {
    color: gray;
}
a:hover {
    font-weight: bold;
}
a:active {
    color: green;
}
#main > p:first-child {
    text-indent: 1em;
}
```

The pseudo-class selectors in a web browser

Welcome to Mike's Bait and Tackle Shop. We have all the gear you'll need to make your next fishing trip a great success!

- [Products](#)
- **[Services](#)**

[Contact us](#) to place your order today!

How to identify a rule as important

```
.highlight {  
  font-weight: bold !important;  
}
```

How to specify a font family

```
font-family: "Times New Roman", Times, serif;  
font-family: Arial, Helvetica, sans-serif;  
font-family: "Courier New", Courier, monospace;
```

How to specify font styles, weights, and variants

```
font-style: italic;  
font-weight: bold;  
font-variant: small-caps;
```

How to specify font size and line height

```
font-size: 12pt;
```

```
font-size: 150%;
```

```
font-size: 1.5em;
```

```
/* same as 150% for font-size */
```

```
line-height: 14pt;
```

```
line-height: 120%;
```

```
line-height: 1.2em;
```

```
/* same as 120% for line-height */
```

The syntax for the shorthand font property

```
font: [style]
      [weight]
      [variant]
      size[/line-height]
      family;
```

How to use the shorthand font property

```
font: italic bold 14px/16px Arial, sans-serif;
```

```
font: small-caps 150% "Times New Roman", Times, serif;
```

```
font: 90%/120% "Comic Sans MS", Impact, sans-serif;
```

How to transform text

```
text-transform: uppercase;
```

Valid values

```
uppercase lowercase capitalize none
```

How to add decorations to text

```
text-decoration: underline;
```

Valid values

```
underline overline line-through blink none
```

How to indent the first line of text

```
text-indent: 2em;  
text-indent: 25px;  
text-indent: 10%;
```

How to horizontally align text

```
text-align: left;
```

Valid values

```
left center right justify
```

The XHTML for one heading and three paragraphs

```
<h3>Mike's Bait & Tackle Shop</h3>
<p>We have all the gear you'll need to make your next
  fishing trip a great success!</p>
<p class="contact"><a href="contact.html">Contact us</a>
  to place your order today!</p>
<p class="copyright">&copy; 2008</p>
```

The CSS for the text

```
h3 {
  text-align: center;
  text-transform: uppercase;
  text-decoration: underline overline;
}
p { text-indent: 2em; }
.contact { text-indent: 0em; }
.copyright { text-align: right; }
```

The text in a browser

MIKE'S BAIT & TACKLE SHOP

We have all the gear you'll need to make your next fishing trip a great success!

Contact us to place your order today!

© 2008

How to format the numbers for ordered lists

```
list-style-type: decimal;  
/* default value, 1, 2, 3, ... */
```

```
list-style-type: decimal-leading-zero;  
/* 01, 02, 03, ... */
```

```
list-style-type: lower-alpha;  
/* a, b, c, ... */
```

```
list-style-type: upper-alpha;  
/* A, B, C, ... */
```

```
list-style-type: lower-roman;  
/* i, ii, iii, iv, v, ... */
```

```
list-style-type: upper-roman;  
/* I, II, III, IV, V, ... */
```

```
list-style-type: lower-greek;  
/*  $\alpha$ ,  $\beta$ ,  $\gamma$ ,  $\delta$ ,  $\epsilon$ , ... */
```

How to format the bullet for unordered lists

```
list-style-type: disc;  
/* default value, solid circle */
```

```
list-style-type: circle;  
/* hollow circle */
```

```
list-style-type: square;  
/* square */
```

XHTML for a list example

```
<ol>
  <li>Windows</li>
  <li>Mac OS</li>
  <li>Linux</li>
</ol>
<ul>
  <li>Internet Explorer</li>
  <li>Firefox</li>
  <li>Safari</li>
</ul>
```

CSS for a list example

```
ol { list-style-type: upper-alpha; }
ul { list-style-type: circle; }
```

The list example displayed in a web browser

- A. Windows
- B. Mac OS
- C. Linux
 - Internet Explorer
 - Firefox
 - Safari

How to use an image as a bullet

```
list-style-image: none;    /* default value */  
list-style-image: url("star.gif");
```

An image as a bullet in the web browser

- ★ Internet Explorer
- ★ Firefox
- ★ Safari