Introduction to XHTML: Part 2

<u>Outline</u>

Objectives

- In this lesson, you will learn:
    - To be able to create tables with rows and columns of data.
    - To be able to control table formatting.
    - To be able to create and use forms.
    - To be able to create and use image maps to aid in Web-page navigation.
    - To be able to make Web pages accessible to search engines using `meta` elements.
    - To be able to use the `frameset` element to display multiple Web pages in a single browser window.

5.1 Introduction

- Tables
  - Present information
- Forms
  - Collect information from visitor
- Internal linking and image maps
  - Enhance Web page navigation
- Frames
  - Display multiple documents in the browser

5.2 Basic XHTML Tables

- Organize data into rows and columns
- `table` element
  - Attribute border
    - Specifies the table's border width in pixels
  - Attribute summary
    - Describes the table's contents
  - Attribute caption
    - Describes the table's content and helps text-based browsers interpret table data
  - Head section (header cell, defined with a `thead` element)
    - Contains header information such as column names
    - `tr` element (defines an individual table row)
    - `th` element (defines the columns in the head section)
  - Foot section (defined with a `tfoot` element)
  - Table body (defined with a `tbody` element)
  - Data cells (defined with `td` element)

```
1   <?xml version = "1.0"?>
2   <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.1//EN"
3       "http://www.w3.org/TR/xhtml11/DTD/xhtml11.dtd">
4
5   <!-- Fig. 5.1: table1.html   -->
6   <!-- Creating a basic table  -->
7
8   <html xmlns = "http://www.w3.org/1999/xhtml">
9       <head>
10          <title>A simple XHTML table</title>
11      </head>
12
13      <body>
14
15          <!-- the <table> tag opens a table -->
16          <table border = "1" width = "40%"
17              summary = "This table provides information about
18                  the price of fruit">
19
20              <!-- the <caption> tag summarizes the table's   -->
21              <!-- contents (this helps the visually impaired) -->
22              <caption><strong>Price of Fruit</strong></caption>
23
```

```
24          <!-- the <thead> is the first section of a table -->
25          <!-- it formats the table header area            -->
26          <thead>
27             <tr>                <!-- <tr> inserts a table row -->
28                <th>Fruit</th> <!-- insert a heading cell -->
29                <th>Price</th>
30             </tr>
31          </thead>
32
33          <!-- the <tfoot> is the last section of a table -->
34          <!-- it formats the table footer               -->
35          <tfoot>
36             <tr>
37                <th>Total</th>
38                <th>$3.75</th>
39             </tr>
40          </tfoot>
41
42          <!-- all table content is enclosed  -->
43          <!-- within the <tbody>             -->
44          <tbody>
45             <tr>
46                <td>Apple</td> <!-- insert a data cell -->
47                <td>$0.25</td>
48             </tr>
```

```
49
50          <tr>
51              <td>Orange</td>
52              <td>$0.50</td>
53          </tr>
54
55          <tr>
56              <td>Banana</td>
57              <td>$1.00</td>
58          </tr>
59
60          <tr>
61              <td>Pineapple</td>
62              <td>$2.00</td>
63          </tr>
64      </tbody>
65
66  </table>
67
68  </body>
69 </html>
```

A simple XHTML table - Microsoft Internet Explorer

File   Edit   View   Favorites   Tools   Help

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Address C:\IW3HTP3\examples\ch05\table1.html   Go

Price of Fruit

Fruit	Price
Apple	$0.25
Orange	$0.50
Banana	$1.00
Pineapple	$2.00
Total	**$3.75**

Done   My Computer

5.3 Intermediate XHTML Tables and Formatting

- Element `colgroup`
  - Groups and formats columns

- Element `col`
  - Attribute `align`
    - Determines the alignment of text in the column
  - Attribute `span`
    - Determines how many columns the col element formats
    - `rowspan` and `colspan`
      - Specify the number of rows or columns occupied by a cell
  - `valign`
    - Aligns data vertically
    - One of the four values: "`top`", "`middle`", "`bottom`", "`baseline`"

```
1   <?xml version = "1.0"?>
2   <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.1//EN"
3       "http://www.w3.org/TR/xhtml11/DTD/xhtml11.dtd">
4
5   <!-- Fig. 5.2: table2.html     -->
6   <!-- Intermediate table design -->
7
8   <html xmlns = "http://www.w3.org/1999/xhtml">
9       <head>
10          <title>Internet and WWW How to Program - Tables</title>
11      </head>
12
13      <body>
14
15         <h1>Table Example Page</h1>
16
17         <table border = "1">
18            <caption>Here is a more complex sample table.</caption>
19
20            <!-- <colgroup> and <col> tags are used to -->
21            <!-- format entire columns                 -->
22            <colgroup>
23
```

```
24              <!-- span attribute determines how many columns -->
25              <!-- the <col> tag affects                      -->
26              <col align = "right" span = "1" />
27          </colgroup>
28
29      <thead>
30
31          <!-- rowspans and colspans merge the specified   -->
32          <!-- number of cells vertically or horizontally   -->
33          <tr>
34
35              <!-- merge two rows -->
36              <th rowspan = "2">
37                  <img src = "camel.gif" width = "205"
38                      height = "167" alt = "Picture of a camel" />
39              </th>
40
41              <!-- merge four columns -->
42              <th colspan = "4" valign = "top">
43                  <h1>Camelid comparison</h1><br />
44                  <p>Approximate as of 9/2002</p>
45              </th>
46          </tr>
47
```

```
48              <tr valign = "bottom">
49                  <th># of Humps</th>
50                  <th>Indigenous region</th>
51                  <th>Spits?</th>
52                  <th>Produces Wool?</th>
53              </tr>
54
55          </thead>
56
57          <tbody>
58
59              <tr>
60                  <th>Camels (bactrian)</th>
61                  <td>2</td>
62                  <td>Africa/Asia</td>
63                  <td>Yes</td>
64                  <td>Yes</td>
65              </tr>
66
67              <tr>
68                  <th>Llamas</th>
69                  <td>1</td>
70                  <td>Andes Mountains</td>
71                  <td>Yes</td>
72                  <td>Yes</td>
```
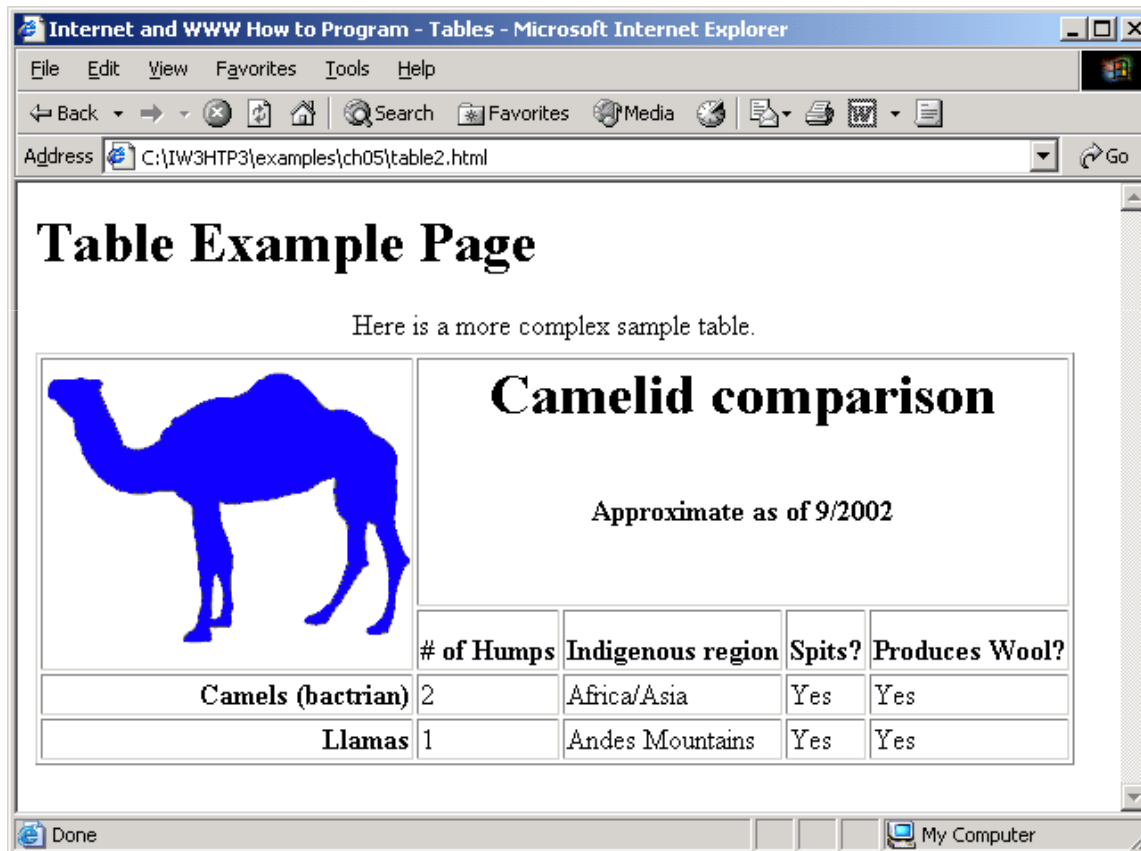
```
73              </tr>
74
75          </tbody>
76
77      </table>
78
79    </body>
80 </html>
```

Internet and WWW How to Program - Tables - Microsoft Internet Explorer

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Address   C:\IW3HTP3\examples\ch05\table2.html   Go

Table Example Page

Here is a more complex sample table.

Camelid comparison

Approximate as of 9/2002

	# of Humps	Indigenous region	Spits?	Produces Wool?
Camels (bactrian)	2	Africa/Asia	Yes	Yes
Llamas	1	Andes Mountains	Yes	Yes

Done   My Computer

5.4 Basic XHTML Forms

- Element form
  - Attribute `method`
    - Specifies how the form's data is sent to Web server
    - `method = "post"`
      - Appends form data to the browser request
    - `method = "get"`
      - Appends form data directly to the end of the URL
  - Attribute `action`
    - Specifies the URL of a script on the Web server
  - `input`
    - Specifies data to provide to the script that processes the form

```
1   <?xml version = "1.0"?>
2   <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.1//EN"
3       "http://www.w3.org/TR/xhtml11/DTD/xhtml11.dtd">
4
5   <!-- Fig. 5.3: form.html   -->
6   <!-- Form Design Example 1 -->
7
8   <html xmlns = "http://www.w3.org/1999/xhtml">
9       <head>
10          <title>Internet and WWW How to Program - Forms</title>
11      </head>
12
13      <body>
14
15          <h1>Feedback Form</h1>
16
17          <p>Please fill out this form to help
18              us improve our site.</p>
19
20          <!-- this tag starts the form, gives the   -->
21          <!-- method of sending information and the -->
22          <!-- location of form scripts              -->
23          <form method = "post" action = "/cgi-bin/formmail">
24
```

```
25          <p>
26              <!-- hidden inputs contain non-visual -->
27              <!-- information                       -->
28              <input type = "hidden" name = "recipient"
29                 value = "deitel@deitel.com" />
30              <input type = "hidden" name = "subject"
31                 value = "Feedback Form" />
32              <input type = "hidden" name = "redirect"
33                 value = "main.html" />
34          </p>
35
36          <!-- <input type = "text"> inserts a text box -->
37          <p><label>Name:
38              <input name = "name" type = "text" size = "25"
39                 maxlength = "30" />
40          </label></p>
41
42          <p>
43              <!-- input types "submit" and "reset" insert  -->
44              <!-- buttons for submitting and clearing the  -->
45              <!-- form's contents                          -->
46              <input type = "submit" value =
47                 "Submit Your Entries" />
48              <input type = "reset" value =
49                 "Clear Your Entries" />
50          </p>
```
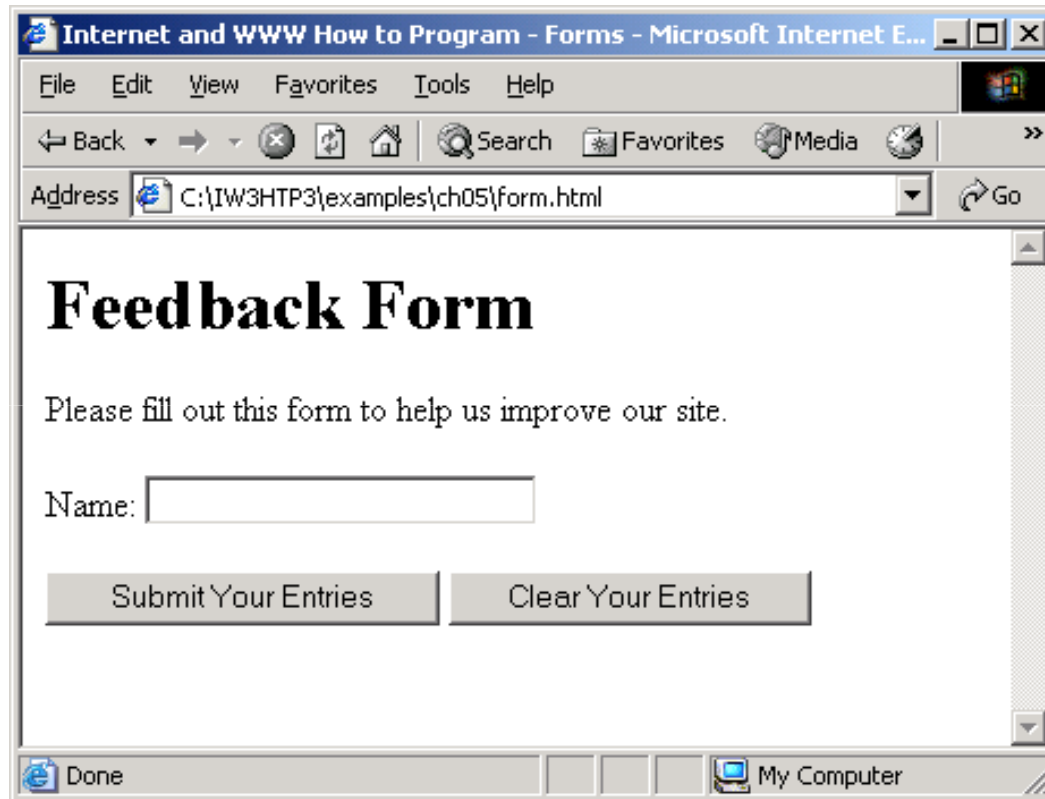
```
51
52        </form>
53
54     </body>
55  </html>
```

5.5 More Complex XHTML Forms

- Element `textarea`
  - Inserts a multiline text box (text area)
  - Attribute `rows`
    - Specifies the number of rows
  - Attribute `cols`
    - Specifies the number columns
  - Input "`password`"
    - Inserts a password box with the specified `size`
- Element `checkbox`
  - Enable users to select from a set of options
- Element `select`
  - Provides a drop-down list of items
- Element `option`
  - Adds items to the drop-down list
  - Attribute `selected`
    - Specifies which item initially is displayed as the selected item

```
1   <?xml version = "1.0"?>
2   <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.1//EN"
3       "http://www.w3.org/TR/xhtml11/DTD/xhtml11.dtd">
4
5   <!-- Fig. 5.4: form2.html  -->
6   <!-- Form Design Example 2 -->
7
8   <html xmlns = "http://www.w3.org/1999/xhtml">
9      <head>
10        <title>Internet and WWW How to Program - Forms</title>
11     </head>
12
13     <body>
14
15        <h1>Feedback Form</h1>
16
17        <p>Please fill out this form to help
18           us improve our site.</p>
19
20        <form method = "post" action = "/cgi-bin/formmail">
21
```

```
22        <p>
23            <input type = "hidden" name = "recipient"
24                value = "deitel@deitel.com" />
25            <input type = "hidden" name = "subject"
26                value = "Feedback Form" />
27            <input type = "hidden" name = "redirect"
28                value = "main.html" />
29        </p>
30
31        <p><label>Name:
32            <input name = "name" type = "text" size = "25" />
33        </label></p>
34
35        <!-- <textarea> creates a multiline textbox -->
36        <p><label>Comments:<br />
37            <textarea name = "comments" rows = "4" cols = "36">
38 Enter your comments here.
39            </textarea>
40        </label></p>
41
```

```
42        <!-- <input type = "password"> inserts a   -->
43        <!-- textbox whose display is masked with  -->
44        <!-- asterisk characters                   -->
45        <p><label>E-mail Address:
46           <input name = "email" type = "password"
47              size = "25" />
48        </label></p>
49
50        <p>
51           <strong>Things you liked:</strong><br />
52
53           <label>Site design
54           <input name = "thingsliked" type = "checkbox"
55              value = "Design" /></label>
56
57           <label>Links
58           <input name = "thingsliked" type = "checkbox"
59              value = "Links" /></label>
60
61           <label>Ease of use
62           <input name = "thingsliked" type = "checkbox"
63              value = "Ease" /></label>
64
65           <label>Images
66           <input name = "thingsliked" type = "checkbox"
67              value = "Images" /></label>
```

```
68
69             <label>Source code
70             <input name = "thingsliked" type = "checkbox"
71                value = "Code" /></label>
72         </p>
73
74         <p>
75             <input type = "submit" value =
76                "Submit Your Entries" />
77             <input type = "reset" value =
78                "Clear Your Entries" />
79         </p>
80
81      </form>
82
83    </body>
84 </html>
```
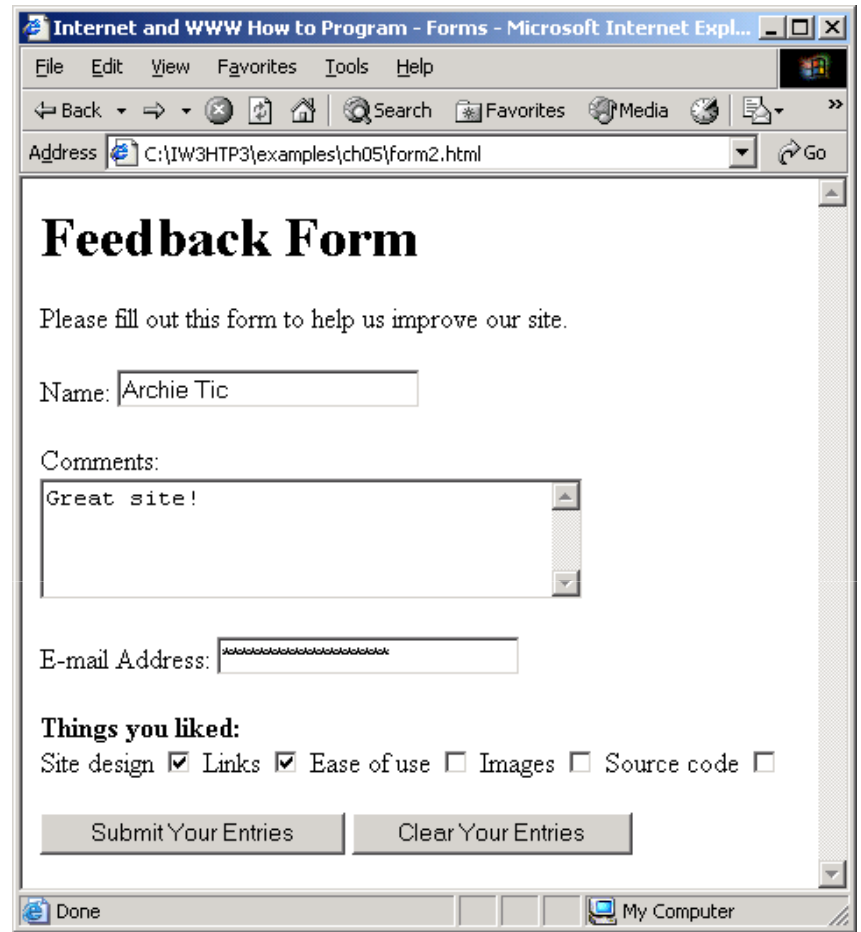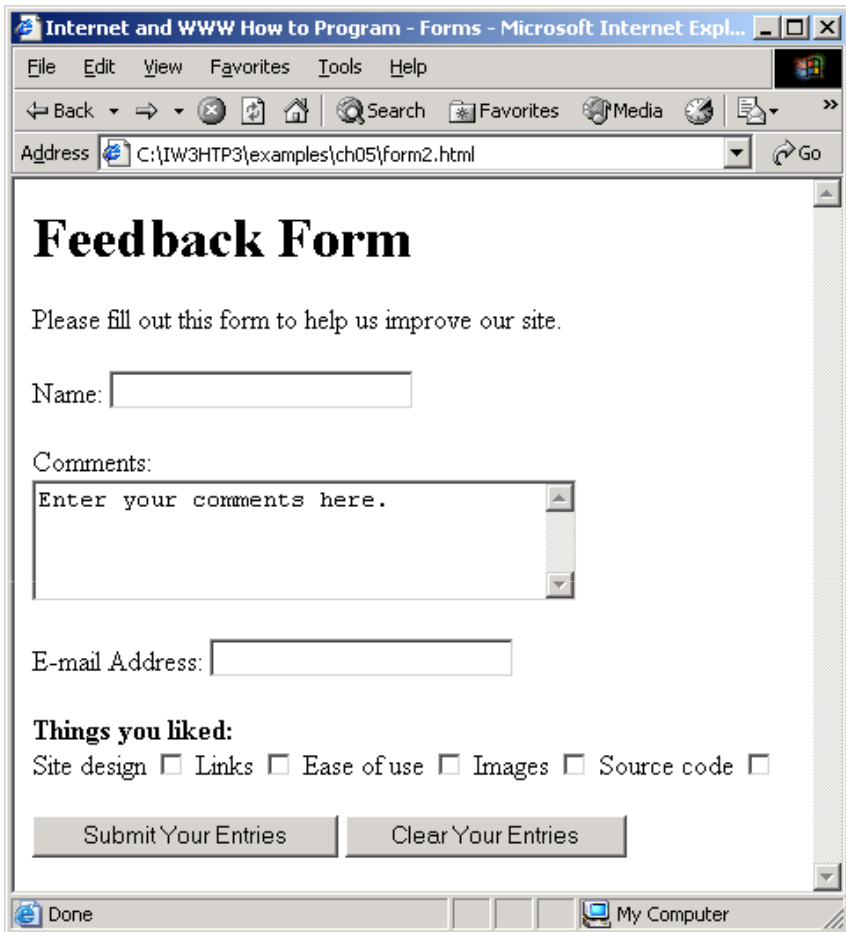
```
1   <?xml version = "1.0"?>
2   <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.1//EN"
3       "http://www.w3.org/TR/xhtml11/DTD/xhtml11.dtd">
4
5   <!-- Fig. 5.5: form3.html  -->
6   <!-- Form Design Example 3 -->
7
8   <html xmlns = "http://www.w3.org/1999/xhtml">
9      <head>
10         <title>Internet and WWW How to Program - Forms</title>
11      </head>
12
13      <body>
14
15         <h1>Feedback Form</h1>
16
17         <p>Please fill out this form to help
18            us improve our site.</p>
19
20         <form method = "post" action = "/cgi-bin/formmail">
21
22            <p>
23               <input type = "hidden" name = "recipient"
24                  value = "deitel@deitel.com" />
25               <input type = "hidden" name = "subject"
```

```
26                    value = "Feedback Form" />
27                <input type = "hidden" name = "redirect"
28                    value = "main.html" />
29            </p>
30
31        <p><label>Name:
32                <input name = "name" type = "text" size = "25" />
33            </label></p>
34
35        <p><label>Comments:<br />
36                <textarea name = "comments" rows = "4"
37                    cols = "36"></textarea>
38            </label></p>
39
40        <p><label>E-mail Address:
41                <input name = "email" type = "password"
42                    size = "25" /></label></p>
43
44        <p>
45            <strong>Things you liked:</strong><br />
46
47            <label>Site design
48                <input name = "thingsliked" type = "checkbox"
49                    value = "Design" /></label>
50
```

```
51              <label>Links
52                  <input name = "thingsliked" type = "checkbox"
53                      value = "Links" /></label>
54
55              <label>Ease of use
56                  <input name = "thingsliked" type = "checkbox"
57                      value = "Ease" /></label>
58
59              <label>Images
60                  <input name = "thingsliked" type = "checkbox"
61                      value = "Images" /></label>
62
63              <label>Source code
64                  <input name = "thingsliked" type = "checkbox"
65                      value = "Code" /></label>
66          </p>
67
68          <!-- <input type = "radio" /> creates a radio    -->
69          <!-- button. The difference between radio buttons -->
70          <!-- and checkboxes is that only one radio button -->
71          <!-- in a group can be selected.                  -->
72          <p>
73              <strong>How did you get to our site?:</strong><br />
74
```

```
75          <label>Search engine
76              <input name = "howtosite" type = "radio"
77                  value = "search engine" checked = "checked" />
78          </label>
79
80          <label>Links from another site
81              <input name = "howtosite" type = "radio"
82                  value = "link" /></label>
83
84          <label>Deitel.com Web site
85              <input name = "howtosite" type = "radio"
86                  value = "deitel.com" /></label>
87
88          <label>Reference in a book
89              <input name = "howtosite" type = "radio"
90                  value = "book" /></label>
91
92          <label>Other
93              <input name = "howtosite" type = "radio"
94                  value = "other" /></label>
95
96      </p>
97
```

```
98          <p>
99              <label>Rate our site:
100
101                  <!-- the <select> tag presents a drop-down -->
102                  <!-- list with choices indicated by the     -->
103                  <!-- <option> tags                           -->
104              <select name = "rating">
105                  <option selected = "selected">Amazing</option>
106                  <option>10</option>
107                  <option>9</option>
108                  <option>8</option>
109                  <option>7</option>
110                  <option>6</option>
111                  <option>5</option>
112                  <option>4</option>
113                  <option>3</option>
114                  <option>2</option>
115                  <option>1</option>
116                  <option>Awful</option>
117              </select>
118
119          </label>
120      </p>
121
```

```
122          <p>
123              <input type = "submit" value =
124                  "Submit Your Entries" />
125              <input type = "reset" value = "Clear Your Entries" />
126          </p>
127
128      </form>
129
130  </body>
131 </html>
```

5.6 Internal Linking

- Enables the user to jump between locations in the same document

```
1   <?xml version = "1.0"?>
2   <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.1//EN"
3       "http://www.w3.org/TR/xhtml11/DTD/xhtml11.dtd">
4
5   <!-- Fig. 5.6: links.html -->
6   <!-- Internal Linking      -->
7
8   <html xmlns = "http://www.w3.org/1999/xhtml">
9      <head>
10         <title>Internet and WWW How to Program - List</title>
11      </head>
12
13      <body>
14
15         <!-- id attribute creates an internal hyperlink destination -->
16         <h1 id = "features">The Best Features of the Internet</h1>
17
18         <!-- an internal link's address is "#id" -->
19         <p><a href = "#bugs">Go to <em>Favorite Bugs</em></a></p>
20
21         <ul>
22            <li>You can meet people from countries
23               around the world.</li>
24
25            <li>You have access to new media as it becomes public:
```

```
26          <ul>
27              <li>New games</li>
28              <li>New applications
29                  <ul>
30                      <li>For Business</li>
31                      <li>For Pleasure</li>
32                  </ul>
33              </li>
34
35              <li>Around the clock news</li>
36              <li>Search Engines</li>
37              <li>Shopping</li>
38              <li>Programming
39                  <ul>
40                      <li>XHTML</li>
41                      <li>Java</li>
42                      <li>Dynamic HTML</li>
43                      <li>Scripts</li>
44                      <li>New languages</li>
45                  </ul>
46              </li>
47          </ul>
48      </li>
49
50      <li>Links</li>
```

```
51          <li>Keeping in touch with old friends</li>
52          <li>It is the technology of the future!</li>
53       </ul>
54
55       <!-- id attribute creates an internal hyperlink destination -->
56       <h1 id = "bugs">My 3 Favorite Bugs</h1>
57
58       <p>
59
60          <!-- internal hyperlink to features -->
61          <a href = "#features">Go to <em>Favorite Features</em>
62          </a></p>
63
64       <ol>
65          <li>Fire Fly</li>
66          <li>Gal Ant</li>
67          <li>Roman Tic</li>
68       </ol>
69
70    </body>
71 </html>
```

Internet and WWW How to Program - List - Microsoft Internet Explorer

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Address C:\IW3HTP3\examples\ch05\links.html

The Best Features of the Internet

Go to *Favorite Bugs*

- You can meet people from countries around the world.
- You have access to new media as it becomes public:
  - New games
  - New applications
    - For Business
    - For Pleasure
  - Around the clock news
  - Search Engines
  - Shopping
  - Programming
    - XHTML
    - Java
    - Dynamic HTML

🔲 Done   My Computer

Internet and WWW How to Program - List - Microsoft Internet Explorer

File   Edit   View   Favorites   Tools   Help

← Back   →   ⊗   ⟳   🏠   🔍Search   📁Favorites   Media   ...

Address C:\IW3HTP3\examples\ch05\links.html

  - Programming
    - XHTML
    - Java
    - Dynamic HTML
    - Scripts
    - New languages
- Links
- Keeping in touch with old friends
- It is the technology of the future!

My 3 Favorite Bugs

Go to *Favorite Features*

1. Fire Fly
2. Gal Ant
3. Roman Tic

🔲 Done   My Computer

5.7 Creating and Using Image Maps

- Designate certain areas of an image (called hotspots) as links
    - Element `map`
        - Attribute `id`
            - Identifies the image map
        - Element `area`
            - Defines hotspot
            - Attribute `shape` and `coords`
                - Specify the hotspot's shape and coordinates
            - Rectangular (`shape = "rect"`)
            - Polygon (`shape = "poly"`)
            - Circle (`shape = "circle"`)

```
1   <?xml version = "1.0" ?>
2   <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
3       "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
4
5   <!-- Fig. 5.7: picture.html        -->
6   <!-- Creating and Using Image Maps -->
7
8   <html xmlns = "http://www.w3.org/1999/xhtml">
9      <head>
10        <title>
11           Internet and WWW How to Program - Image Map
12        </title>
13     </head>
14
15     <body>
16
17        <p>
18
19        <!-- the <map> tag defines an image map -->
20        <map id = "picture">
21
22           <!-- shape = "rect" indicates a rectangular    -->
23           <!-- area, with coordinates for the upper-left -->
24           <!-- and lower-right corners                   -->
```

```
25        <area href = "form.html" shape = "rect"
26           coords = "2,123,54,143"
27           alt = "Go to the feedback form" />
28        <area href = "contact.html" shape = "rect"
29           coords = "126,122,198,143"
30           alt = "Go to the contact page" />
31        <area href = "main.html" shape = "rect"
32           coords = "3,7,61,25" alt = "Go to the homepage" />
33        <area href = "links.html" shape = "rect"
34           coords = "168,5,197,25"
35           alt = "Go to the links page" />
36
37        <!-- value "poly" creates a hotspot in the shape -->
38        <!-- of a polygon, defined by coords           -->
39        <area shape = "poly" alt = "E-mail the Deitels"
40           coords = "162,25,154,39,158,54,169,51,183,39,161,26"
41           href = "mailto:deitel@deitel.com" />
42
43        <!-- shape = "circle" indicates a circular -->
44        <!-- area with the given center and radius -->
45        <area href = "mailto:deitel@deitel.com"
46           shape = "circle" coords = "100,36,33"
47           alt = "E-mail the Deitels" />
48     </map>
49
```
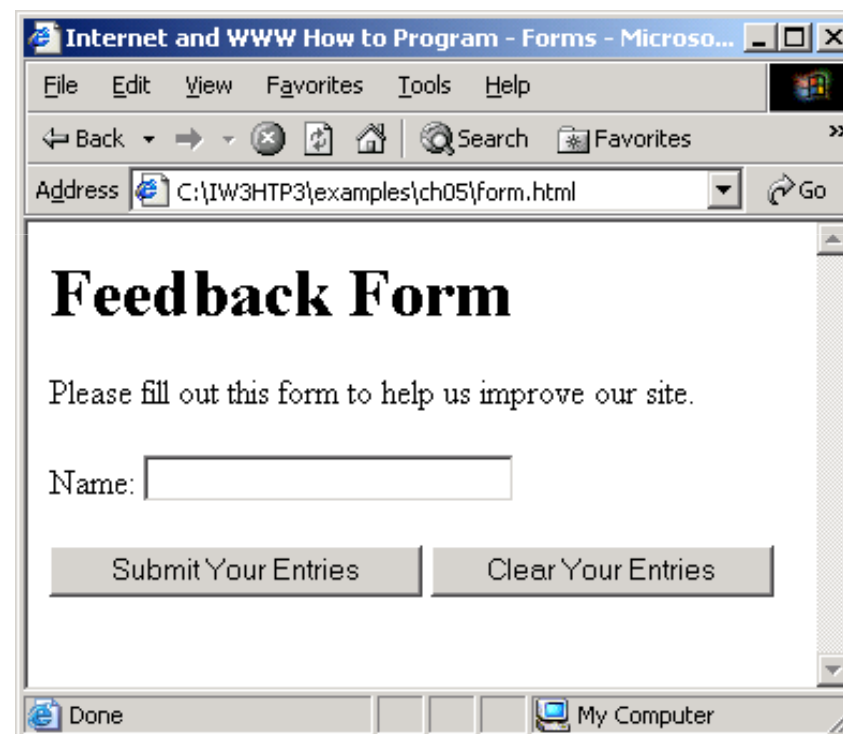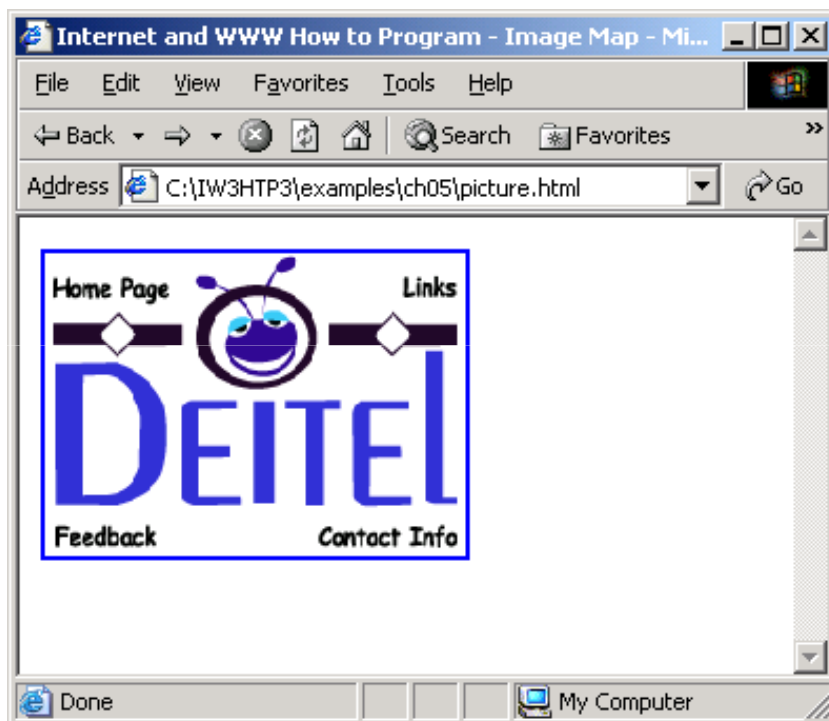
```
50        <!-- <img src =... usemap = "#id"> indicates that the -->
51        <!-- specified image map is used with this image       -->
52        <img src = "deitel.gif" width = "200" height = "144"
53            alt = "Deitel logo" usemap = "#picture" />
54        </p>
55     </body>
56 </html>
```

5.8 `meta` Elements

- Specify information about a document
  - Attribute `name`
    - Identifies the type of meta element
    - "`keywords`" (`name` = "`keywords`")
      - Provides search engines with a list of words that describe a page
    - "`description`" (`name` = "`description`")
      - Provides a description of a site
  - Attribute `content`
    - Provides the information search engine use to catalog pages

```
1   <?xml version = "1.0"?>
2   <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.1//EN"
3       "http://www.w3.org/TR/xhtml11/DTD/xhtml11.dtd">
4
5   <!-- Fig. 5.8: main.html -->
6   <!-- <meta> tag           -->
7
8   <html xmlns = "http://www.w3.org/1999/xhtml">
9       <head>
10          <title>Internet and WWW How to Program - Welcome</title>
11
12          <!-- <meta> tags provide search engines with -->
13          <!-- information used to catalog a site       -->
14          <meta name = "keywords" content = "Web page, design,
15              XHTML, tutorial, personal, help, index, form,
16              contact, feedback, list, links, frame, deitel" />
17
18          <meta name = "description" content = "This Web site will
19              help you learn the basics of XHTML and Web page design
20              through the use of interactive examples and
21              instruction." />
22
23      </head>
24
```

```
25      <body>

26

27          <h1>Welcome to Our Web Site!</h1>

28

29          <p>We have designed this site to teach about the wonders

30          of <strong><em>XHTML</em></strong>. <em>XHTML</em> is

31          better equipped than <em>HTML</em> to represent complex

32          data on the Internet. <em>XHTML</em> takes advantage of

33          XML's strict syntax to ensure well-formedness. Soon you

34          will know about many of the great new features of

35          <em>XHTML.</em></p>

36

37      <p>Have Fun With the Site!</p>

38

39      </body>

40  </html>
```
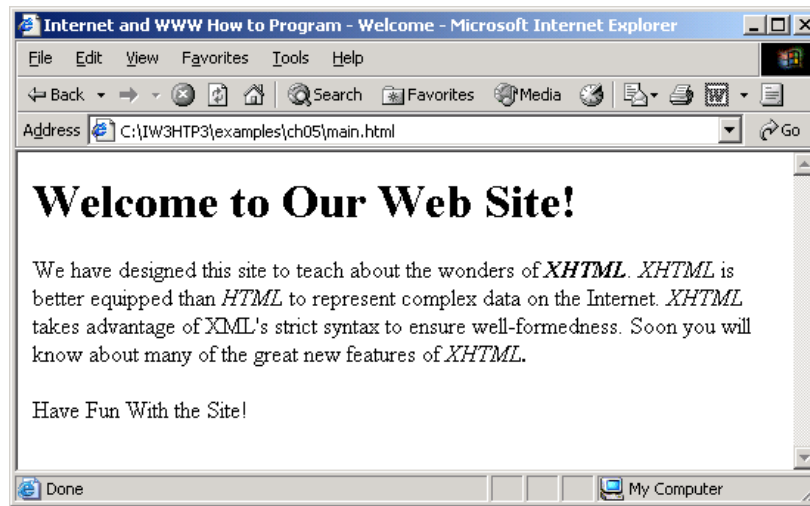
5.9 `frameset` Element

- Allow browser display more than one document simultaneously
  - Element `frameset`
    - Attribute `cols`
      - Specifies the frameset's column layout
    - Attribute `rows`
      - Specifies the number of rows and the size of each row
    - Element `frame`
      - Specifies the documents that will be loaded
      - Attribute `src`
        - Specifies URL of the page to display

```
1   <?xml version = "1.0"?>
2   <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Frameset//EN"
3       "http://www.w3.org/TR/xhtml1/DTD/xhtml1-frameset.dtd">
4
5   <!-- Fig. 5.9: index.html -->
6   <!-- XHTML Frames I         -->
7
8   <html xmlns = "http://www.w3.org/1999/xhtml">
9      <head>
10         <title>Internet and WWW How to Program - Main</title>
11         <meta name = "keywords" content = "Webpage, design,
12            XHTML, tutorial, personal, help, index, form,
13            contact, feedback, list, links, frame, deitel" />
14
15         <meta name = "description" content = "This Web site will
16            help you learn the basics of XHTML and Web page design
17            through the use of interactive examples
18            and instruction." />
19
20      </head>
21
22      <!-- the <frameset> tag sets the frame dimensions     -->
23      <frameset cols = "110,*">
24
```

```
25          <!-- frame elements specify which pages -->
26          <!-- are loaded into a given frame      -->
27          <frame name = "leftframe" src = "nav.html" />
28          <frame name = "main" src = "main.html" />
29
30          <noframes>
31              <body>
32                  <p>This page uses frames, but your browser does not
33                  support them.</p>
34
35                  <p>Please, <a href = "nav.html">follow this link to
36                  browse our site without frames</a>.</p>
37              </body>
38          </noframes>
39
40      </frameset>
41  </html>
```
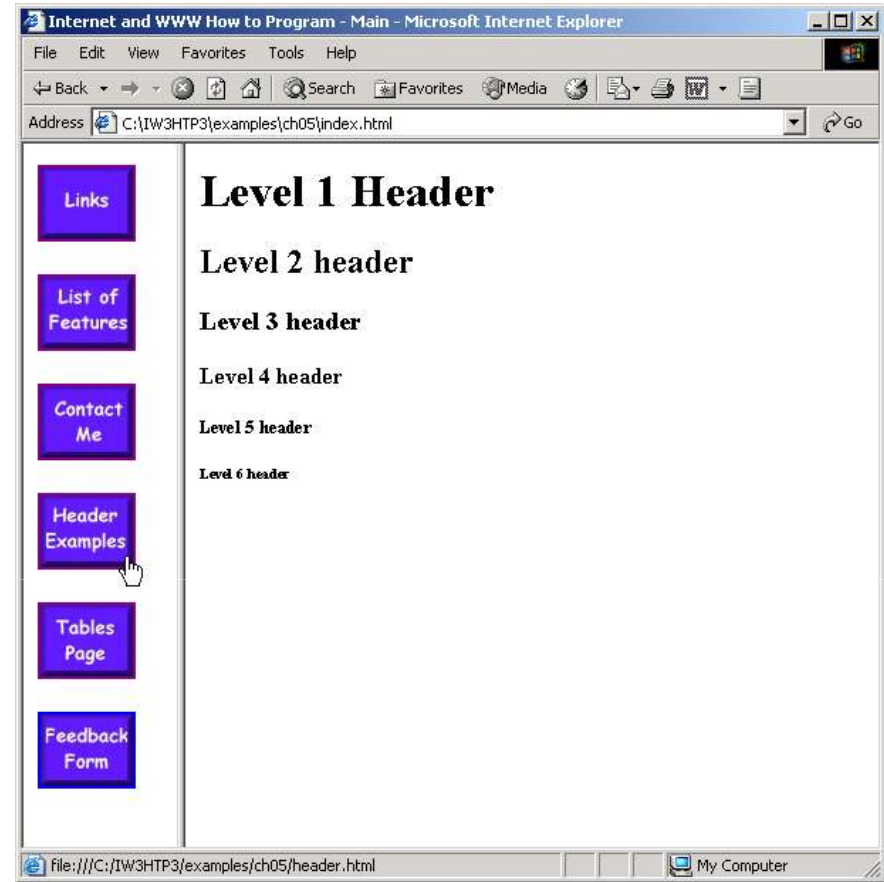
Outline

index.html
(2 of 2)

```
1   <?xml version = "1.0"?>
2   <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
3       "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
4
5   <!-- Fig. 5.10: nav.html          -->
6   <!-- Using images as link anchors -->
7
8   <html xmlns = "http://www.w3.org/1999/xhtml">
9
10     <head>
11        <title>Internet and WWW How to Program - Navigation Bar
12        </title>
13     </head>
14
15     <body>
16
17        <p>
18           <a href = "links.html" target = "main">
19              <img src = "buttons/links.jpg" width = "65"
20                 height = "50" alt = "Links Page" />
21           </a><br />
22
23           <a href = "list.html" target = "main">
24              <img src = "buttons/list.jpg" width = "65"
25                 height = "50" alt = "List Example Page" />
```

```
26           </a><br />
27
28           <a href = "contact.html" target = "main">
29              <img src = "buttons/contact.jpg" width = "65"
30                 height = "50" alt = "Contact Page" />
31           </a><br />
32
33           <a href = "header.html" target = "main">
34              <img src = "buttons/header.jpg" width = "65"
35                 height = "50" alt = "Header Page" />
36           </a><br />
37
38           <a href = "table1.html" target = "main">
39              <img src = "buttons/table.jpg" width = "65"
40                 height = "50" alt = "Table Page" />
41           </a><br />
42
43           <a href = "form.html" target = "main">
44              <img src = "buttons/form.jpg" width = "65"
45                 height = "50" alt = "Feedback Form" />
46           </a><br />
47        </p>
48
49     </body>
50  </html>
```

5.10 Nested framesets

- framesets within framesets

```
1   <?xml version = "1.0"?>
2   <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Frameset//EN"
3       "http://www.w3.org/TR/xhtml1/DTD/xhtml1-frameset.dtd">
4
5   <!-- Fig. 5.11: index2.html -->
6   <!-- XHTML Frames II         -->
7
8   <html xmlns = "http://www.w3.org/1999/xhtml">
9       <head>
10          <title>Internet and WWW How to Program - Main</title>
11
12          <meta name = "keywords" content = "Webpage, design,
13              XHTML, tutorial, personal, help, index, form,
14              contact, feedback, list, links, frame, deitel" />
15
16          <meta name = "description" content = "This Web site will
17              help you learn the basics of XHTML and Web page design
18              through the use of interactive examples
19              and instruction." />
20
21      </head>
22
23      <frameset cols = "110,*">
24          <frame name = "leftframe" src = "nav.html" />
25
```

```
26        <!-- nested framesets are used to change the -->
27        <!-- formatting and layout of the frameset  -->
28        <frameset rows = "175,*">
29            <frame name = "picture" src = "picture.html" />
30            <frame name = "main" src = "main.html" />
31        </frameset>
32
33        <noframes>
34            <body>
35                <p>This page uses frames, but your browser does not
36                support them.</p>
37
38                <p>Please, <a href = "nav.html">follow this link to
39                browse our site without frames</a>.</p>
40            </body>
41        </noframes>
42
43    </frameset>
44 </html>
```
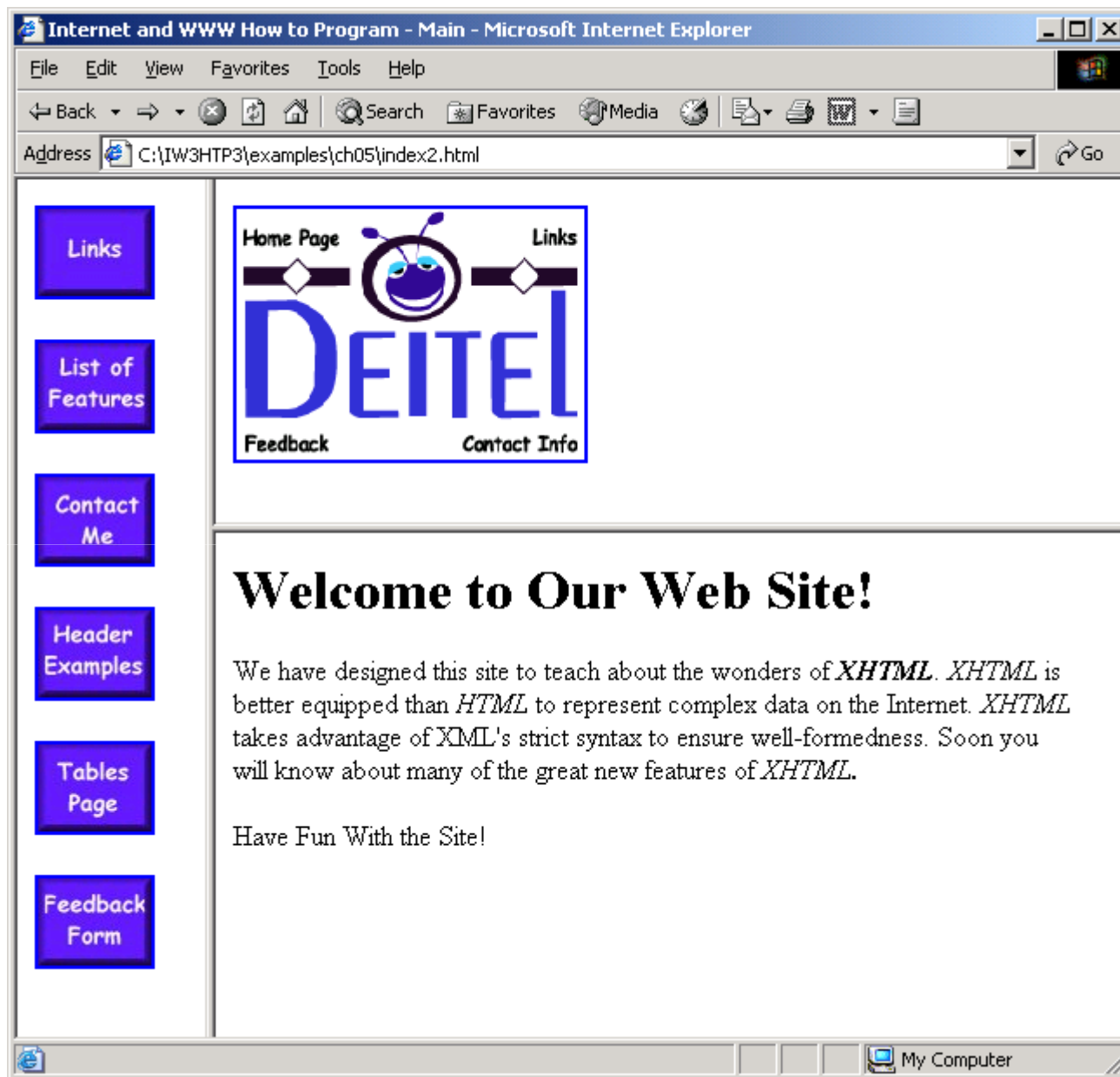
Internet and WWW How to Program - Main - Microsoft Internet Explorer

File   Edit   View   Favorites   Tools   Help

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Address C:\IW3HTP3\examples\ch05\index2.html   ▾ ⟶ Go

Links

List of Features

Contact Me

Header Examples

Tables Page

Feedback Form

Home Page   Links

DEITEL

Feedback   Contact Info

Welcome to Our Web Site!

We have designed this site to teach about the wonders of *XHTML*. *XHTML* is better equipped than *HTML* to represent complex data on the Internet. *XHTML* takes advantage of *XML*'s strict syntax to ensure well-formedness. Soon you will know about many of the great new features of *XHTML*.

Have Fun With the Site!

My Computer

◀   ▶

5.11 Web Resources

- `www.vbxml.com/xhtml/articles/xhtml_tables`
- `www.webreference.com/xml/reference/xhtml.html`