

# XHTML (Part 2)

Erick Kurniawan, S.Kom,M.Kom



## Garis Besar

- Pengantar
- Basic XHTML Tables
- XHTML Tables dan Formatting
- Basic XHTML Form
- Complex XHTML Form
- Internal Linking
- Image Map
- meta Elements
- frameset Elements
- Nested Frameset



# Tujuan

- Pada sesi ini kita akan belajar :
  - Bagaimana membuat **table** dengan row & column
  - Bagaimana mengontrol **table formatting**
  - Bagaimana membuat dan menggunakan **form**
  - Bagaimana membuat dan menggunakan **image map** untuk navigasi di halaman web
  - Bagaimana membuat web page dapat ditemukan oleh search engine dengan **meta** element



# Pengantar

- Tables
  - Merepresentasikan informasi
- Forms
  - Mengambil informasi dari pengunjung
- Internal linking and image maps
  - Mempermudah web page navigation
- Frames
  - Menampilkan multiple documents di browser



## Basic XHTML Tables

- Pengorganisasian data kedalam baris dan kolom
- table element
  - Attribute border
    - Lebar pembatas table dalam pixels
  - Attribute summary
    - Mendeskripsikan isi table
  - Attribute caption
    - Mendeskripsikan isi table dan membantu text-based browser untuk membaca data pada table
  - Head section (header cell, didefinisikan dengan thead element)
    - Mengandung informasi header seperti column name
    - tr element (mendefinisikan baris)
    - th element (mendefinisikan kolom pada head section)
  - Foot section (didefinisikan dengan tfoot element)
  - Table body (didefinisikan dengan tbody element)
  - Data cells (didefinisikan dengan 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 >



# XHTML Tables and Formatting

- Element col group
  - Groups dan formats columns
- Element col
  - Attribute align
    - Menentukan alignment dari text dalam kolom
  - Attribute span
    - Menentukan berapa banyak kolom pada col element formats
    - rowspan dan col span
      - Menentukan jumlah baris dan kolom yang digabungkan dalam cell
  - valign
    - Mengatur data secara vertikal
    - Nilai yang disediakan : “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  </col group>
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>Camel id 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>I ndi genous regi on</th>
51         <th>Spi ts?</th>
52         <th>Produces Wool ?</th>
53     </tr>
54
55 </thead>
56
57 <tbody>
58
59     <tr>
60         <th>Camel s (bactri an)</th>
61         <td>2</td>
62         <td>Afri ca/Asi a</td>
63         <td>Yes</td>
64         <td>Yes</td>
65     </tr>
66
67     <tr>
68         <th>LI amas</th>
69         <td>1</td>
70         <td>Andes Mountai ns</td>
71         <td>Yes</td>
72         <td>Yes</td>
```



```
73         </tr>
```

```
74
```

```
75         </tbody>
```

```
76
```

```
77     </table>
```

```
78
```

```
79 </body>
```

```
80 </html >
```



# Basic XHTML Forms

## ■ Element form

### □ Attribute method

- Menentukan bagaimana form's data dikirimkan ke Web server
- method = "post"
  - Menambahkan form data pada browser request
- method = "get"
  - Menambahkan form data langsung pada akhir URL

### □ Attribute action

- Menentukan URL dari script yang ada di Web server

### □ input

- Menentukan jenis objek yang digunakan untuk mengambil inputan dari pengguna

```
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 = "del tel @del tel . com" />
30         <input type = "hidden" name = "subject"
31             value = "Feedback Form" />
32         <input type = "hidden" name = "redirect"
33             value = "mai n. 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 >



# Complex XHTML Forms

- Element textarea
  - Menggunakan multiline text box (text area)
  - Attribute rows
    - Menentukan jumlah baris
  - Attribute col s
    - Menentukan jumlah kolom
  - Input "password"
    - Inputan berupa password
- Element checkbox
  - Memungkinkan pengguna untuk memilih dari kelompok
- Element select
  - Menyediakan drop-down list dari items
- Element option
  - Menambahkan item pada drop-down list
  - Attribute selected
    - Menentukan item yang diberi cekbox

```
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         <i nput type = "hi dden" name = "reci pi ent"
24             val ue = "dei tel @dei tel . com" />
25         <i nput type = "hi dden" name = "subj ect"
26             val ue = "Feedback Form" />
27         <i nput type = "hi dden" name = "redi rect"
28             val ue = "mai n. html " />
29     </p>
30
31     <p><l abel >Name:
32         <i nput name = "name" type = "text" size = "25" />
33     </l abel ></p>
34
35     <!-- <textarea> creates a mul ti li ne textbox -->
36     <p><l abel >Comments: <br />
37         <textarea name = "comments" rows = "4" col s = "36">
38 Enter your comments here.
39         </textarea>
40     </l abel ></p>
41
```



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



## Internal Linking

- Memungkinkan user untuk berpindah baris dalam dokumen yang sama

```
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 appl i cati ons
29              <ul >
30                  <li >For Busi ness</li >
31                  <li >For Pl easure</li >
32              </ul >
33          </li >
34
35          <li >Around the cl ock news</li >
36          <li >Search Engi nes</li >
37          <li >Shoppi ng</li >
38          <li >Programmi ng
39              <ul >
40                  <li >XHTML</li >
41                  <li >Java</li >
42                  <li >Dynami c HTML</li >
43                  <li >Scri pts</li >
44                  <li >New l anguages</li >
45              </ul >
46          </li >
47      </ul >
48  </li >
49
50  <li >Li nks</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>
```



## Image Maps

- Memecah beberapa area dari gambar (disebut hotspots) sebagai links
  - Element map
    - Attribute i d
      - Identitas dari image map
    - Element area
      - Mendefinisikan Hotspot
      - Attribute shape dan coords
        - Menentukan bentuk dan koordinat dari hotspot
      - Rectangular ( shape = "rect" )
      - Polygon ( shape = "pol y" )
      - Circle ( shape = "ci rcl e" )



```
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 Deitel's"
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 Deitel's" />
48 </map>
49
```

```
50      <!-- <img src =... usemap = "#id"> indicates that the -->
51      <!-- speci fied image map is used with this image      -->
52      <img src = "dei tel .gif" width = "200" height = "144"
53          alt = "Dei tel logo" usemap = "#picture" />
54      </p>
55  </body>
56 </html >
```



## meta Elements

- Memberikan informasi dari dokumen
  - Attribute name
    - Mengetahui type dari meta element
    - "keywords" ( name = "keywords" )
      - Kata yang digunakan untuk pencarian bila user mencari dengan search engine
    - "description" ( name = "description" )
      - Deskripsi dari situs
  - Attribute content
    - Menyediakan information search engine yang digunakan pada 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, del tel" />
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>Wel come 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 Wi th the Si te! </p>
38
39 </body>
40 </html >
```



## frameset Element

- Mengizinkan browser menampilkan lebih dari satu dokumen secara bersamaan
  - Element frameset
    - Attribute col s
      - Menentukan frameset's column layout
    - Attribute rows
      - Menentukan jumlah dari rows dan ukuran setiap rownya
    - Element frame
      - Menentukan documents yang akan diload (ditampilkan)
      - Attribute src
        - Menentukan URL dari halaman untuk ditampilkan

```
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 >
```