

HTML – Part 2

from W3Schools and Deitel Book

Transition/Transformation with Anchored Elements

Special Characters

List, Table, Internal Linking, Meta Data

```
<body>
```

```
  <h1>Here are my favorite sites</h1>
```

```
  <p><strong>Click a name to go to that page.</strong> </p>
```

```
  <p><a href = "http://www.deitel.com">Deitel</a> </p>
```

```
  <p><a href = "http://www.prenhall.com">Prentice Hall</a> </p>
```

```
  <p><a href = "http://www.yahoo.com">Yahoo!</a> </p>
```

```
  <p><a href = "http://www.usatoday.com">USA Today</a> </p>
```

```
</body>
```

Try to make a CSS for the given action.

Here are my favorite sites

Click a name to go to that page.

[Deitel](#)

[Prentice Hall](#)

[Yahoo!](#)

[USA Today](#)

Complete the given code, [links_CSS_ex.html](#)

```
<style>
body {
    width: 500px;
    height: 300px;
    background-color: white;
    display: block;
}

a {
    width: 100px;
    height: 50px;
    display: block;
    color: yellow;
    margin-left: 20pt;
    background: purple;
    -webkit-transition: width 2s, height 2s, -webkit-transform 2s;
    transition: width 2s, height 2s, transform 2s;
}
a:hover {
    width: 200px;
    height: 100px;
    -webkit-transform: rotate(180deg); /* Safari */
    transform: rotate(180deg);
}
```

Try to make a CSS for different action of each button.
Complete the file, **links_CSS2_ex.html**.

Here are my favorite sites

Click a name to go to that page.

[Deitel](#)

[Prentice Hall](#)

[Yahoo!](#)

[USA Today](#)

```
<head>
```

```
  <title> How to Program - Links</title>
```

```
  <style>
```

```
    body {
```

```
      width: 500px;
```

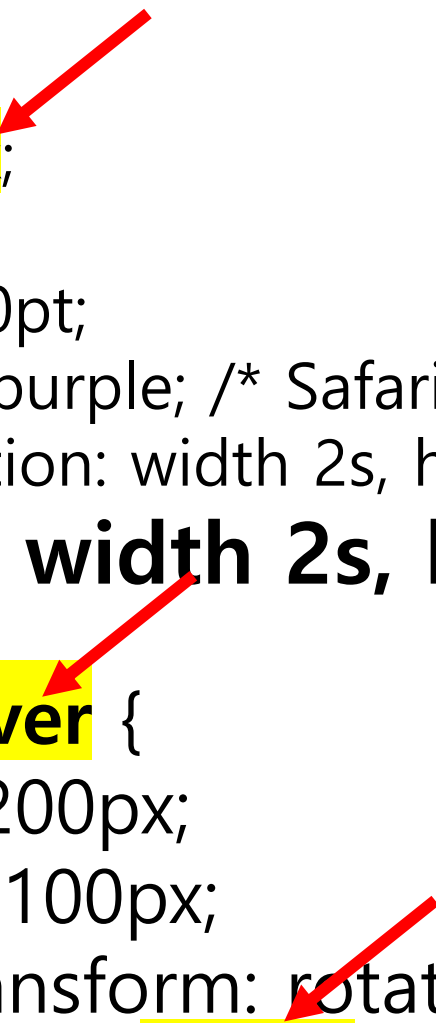
```
      height: 300px;
```

```
      background-color: white;
```

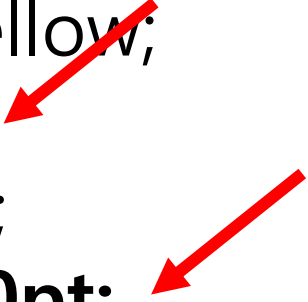
```
      display: block;
```

```
    }
```


```
.rotate {  
  width: 100px;  
  height: 50px;  
  display: block;  
  color: yellow;  
  margin-left: 20pt;  
  background: purple; /* Safari */  
  -webkit-transition: width 2s, height 2s, -webkit-transform 2s;  
  transition: width 2s, height 2s, transform 2s;  
}  
  
.rotate: hover {  
  width: 200px;  
  height: 100px;  
  -webkit-transform: rotate(180deg); /* Safari */  
  transform: rotate(180deg);  
}
```




```
.extend {  
  width: 100px;  
  height: 50px;  
  background: yellow;  
  display: block;  
  color: #000000;  
  margin-left: 20pt;  
  -webkit-transition: width 2s; /* For Safari 3.1 to 6.0 */  
  transition: width 2s;  
}  
  
.extend: hover {  
  width: 300px;  
}
```




```
.delayExtend {  
  width: 100px;  
  height: 50px;  
  background: gray;  
  display: block;  
  color: #000000;  
  margin-left: 20pt;  
  -webkit-transition: width 3s; /* Safari */  
  -webkit-transition-delay: 1s; /* Safari */  
  transition: width 3s;  
  transition-delay: 1s;  
}  
  
.delayExtend:hover {  
  width: 300px;  
}
```



```
.extendWithHeight {  
    width: 100px;  
    height: 50px;  
    display: block;  
    background: cyan;  
    margin-left: 20pt;  
    -webkit-transition: width 2s, height 4s; /* Safari */  
    transition: width 2s, height 4s;  
}  
  
.extendWithHeight: hover {  
    width: 200px;  
    height: 100px;  
}
```



```
<body>
  <h1>Here are my favorite sites</h1>
  <p><strong>Click a name to go to that page.</strong></p>
  <!-- create four text hyperlinks -->
  <p><a class="rotate" href = "http://www.deitel.com">
    Deitel</a></p>
  <p><a class="extend" href = "http://www.prenhall.com">
    Prentice Hall</a></p>
  <p><a class="delayExtend" href =
    "http://www.yahoo.com">Yahoo!</a></p>
  <p><a class="extendWithHeight" href =
    "http://www.usatoday.com">USA Today</a></p>
```

Here are my favorite sites

Click a name to go to that page.

[Deitel](#)

[Prentice Hall](#)

[Yahoo!](#)

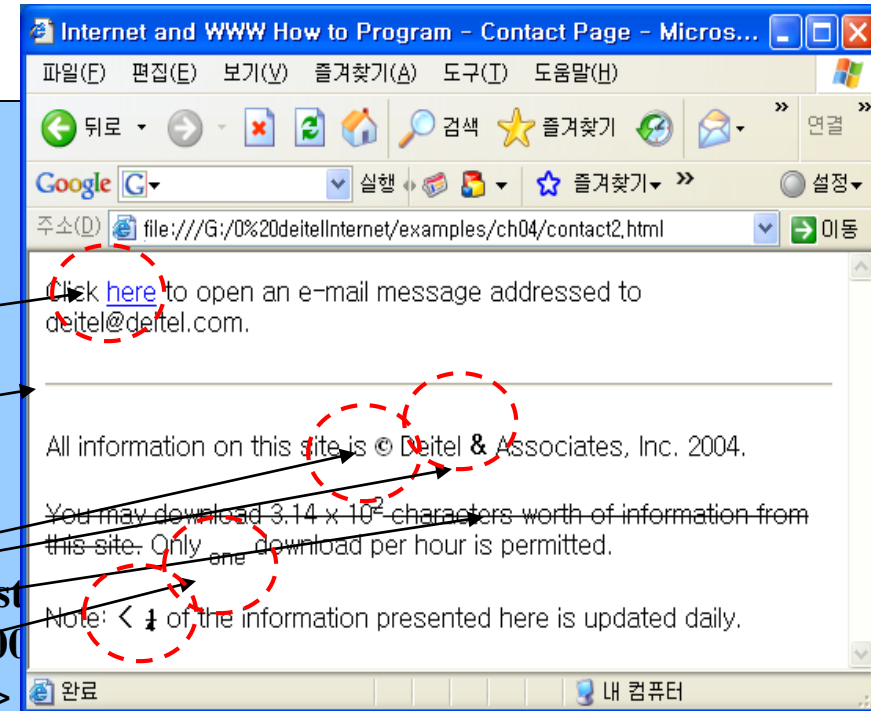
[USA Today](#)

Understanding XHTML Deitel Book

special characters and line breaks

contact2.html

```
<body>
  <p>
    Click
    <a href = "mailto:deitel@deitel.com">here</a>
    to open an e-mail message addressed to
    deitel@deitel.com.
  </p>
  <hr /> <!-- inserts a horizontal rule -->
  <p>All information on this site is <strong>&copy;</strong>
    Deitel<strong>&amp;</strong> Associates, Inc. 2004.
  <p><del>You may download 3.14 x 10<sup>2</sup>
    characters worth of information from this site.</del>
    Only <sub>one</sub> download per hour is permitted.</p>
  <p>Note: <strong>&lt; &frac14;</strong> of the information
    presented here is updated daily.</p>
</body>
```



from w3schools

Formatting elements were designed to display special types of text:

- `` - Bold text
- `` - Important text
- `<i>` - Italic text
- `` - Emphasized text
- `<mark>` - Marked text
- `<small>` - Smaller text
- `` - Deleted text
- `<ins>` - Inserted text
- `<sub>` - Subscript text
- `<sup>` - Superscript text

This text is bold

Type the example elements inside body element.

<i>This text is italic</i>

This text is emphasized

<hr />

<p>Text with strong importance ©
Software & and Design </p>

<small>This is some smaller text.</small>

<hr />

<p>Do not forget to buy <mark>milk</mark> today.</p>

<p>My favorite color is blue red.</p>

<p>My favorite color is blue <ins>red</ins>.</p>

<hr />

<p>This is _{subscripted} text.</p>

<p>This is ^{superscripted} text.</p>

This text is bold *This text is italic* *This text is emphasized*

Text with strong importance © **Software & and Design**

This is some smaller text.

Do not forget to buy milk today.

My favorite color is blue red.

My favorite color is blue red.

This is subscripted text.

This is superscripted text.

An unordered HTML list:

- Item
- Item
- Item
- Item

```
<ul>  
  <li>Coffee</li>  
  <li>Tea</li>  
  <li>Milk</li>  
</ul>
```

An ordered HTML list:

1. First item
2. Second item
3. Third item
4. Fourth item

```
<ol>  
  <li>Coffee</li>  
  <li>Tea</li>  
  <li>Milk</li>  
</ol>
```

```
<!DOCTYPE html>
<html>
<body>

<h2>A Description List</h2>

<dl>
  <dt>Coffee</dt>
  <dd>- black hot drink</dd>
  <dt>Milk</dt>
  <dd>- white cold drink</dd>
</dl>

</body>
</html>
```

A Description List

Coffee

- black hot drink

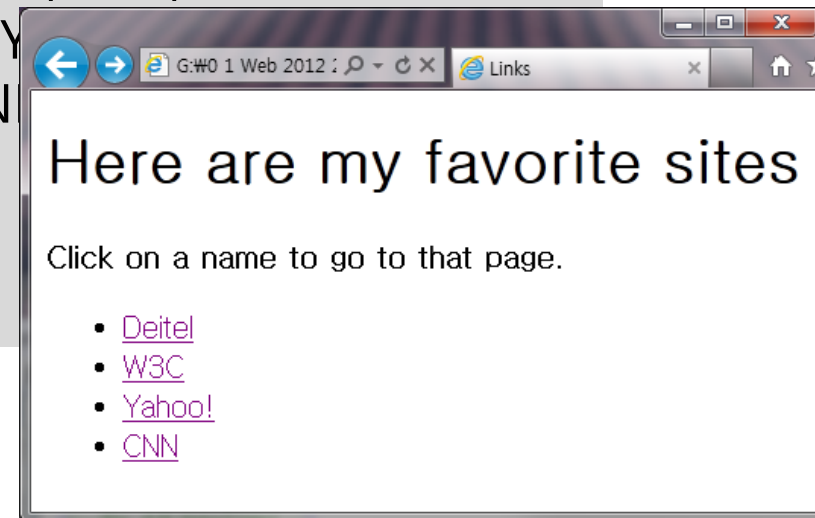
Milk

- white cold drink

```
<html xmlns = "http://www.w3.org/1999/xhtml">
  <head>
    <title>Links</title>
  </head>

  <body>
    <h1>Here are my favorite sites</h1>
    <p><strong>Click on a name to go to that page.</strong></p>
    <!-- create an unordered list -->
    <ul>
      <!-- add four list items -->
      <li><a href = "http://www.deitel.com">Deitel</a></li>
      <li><a href = "http://www.w3.org">W3C</a></li>
      <li><a href = "http://www.yahoo.com">Yahoo!</a></li>
      <li><a href = "http://www.cnn.com">CNN</a></li>
    </ul>
  </body>
</html>
```

links2.html



Nested List, Deitel Book

list.html

Nested and Ordered Lists

```
<body>
  <h1>The Best Features of the Internet</h1>
  <ul> <li>You can meet new people from countries around
    the world.</li>
    <li> You have access to new media as it becomes public:
      <ul>
        <li>New games</li>
        <li> New applications
          <ol> <li>For business</li>
              <li>For pleasure</li> </ol> </li>
        <li>Around the clock news</li>
        <li>Search engines</li>
        <li>Shopping</li>
        <li> Programming
          <ol> <li>XML</li>
              <li>Java</li>
              <li>XHTML</li>
              <li>Scripts</li>
              <li>New languages</li>
            </ol> </li>
        </ul> <!-- ends the nested list of line 27 -->
      </li>
      <li>Links</li>
      <li>Keeping in touch with old friends</li>
      <li>It is the technology of the future!</li>
    </ul> <!-- ends the unordered list of line 18 -->
</body>
```



Unordered HTML List - Choose List Item Marker

The CSS `list-style-type` property is used to define the style of the list item marker. It can have one of the following values:

Value	Description
disc	Sets the list item marker to a bullet (default)
circle	Sets the list item marker to a circle
square	Sets the list item marker to a square
none	The list items will not be marked

```
<!DOCTYPE html>
<html>
<body>

<h2>Unordered List with Disc Bullets</h2>

<ul style="list-style-type:disc;">
  <li>Coffee</li>
  <li>Tea</li>
  <li>Milk</li>
</ul>

</body>
</html>
```

Unordered List with Disc Bullets

- Coffee
- Tea
- Milk

Ordered HTML List - The Type Attribute

The `type` attribute of the `` tag, defines the type of the list item marker:

Type	Description
<code>type="1"</code>	The list items will be numbered with numbers (default)
<code>type="A"</code>	The list items will be numbered with uppercase letters
<code>type="a"</code>	The list items will be numbered with lowercase letters
<code>type="I"</code>	The list items will be numbered with uppercase roman numbers
<code>type="i"</code>	The list items will be numbered with lowercase roman numbers

<h2>Ordered List with Numbers</h2>

```
<ol type="1">  
  <li>Coffee</li>  
  <li>Tea</li>  
  <li>Milk</li>  
</ol>
```

Ordered List with Numbers

1. Coffee
2. Tea
3. Milk

```
<ol type="i">  
  <li>Coffee</li>  
  <li>Tea</li>  
  <li>Milk</li>  
</ol>
```


- i. Coffee
- ii. Tea
- iii. Milk

Table, Deitel Book

table1.html

```
<table border = "1" width = "40%"
  summary = "This table provides information about
the price of fruit">
  <caption><strong>Price of Fruit</strong></caption>
  <thead> <tr> <th>Fruit</th> <th>Price</th> </tr> </thead>
  <tfoot> <tr>
    <th>Total</th>
    <th>$3.75</th>
  </tr>
</tfoot>
<tbody>
  <tr>
    <td>Apple</td> <!-- insert a data cell -->
    <td>$0.25</td>
  </tr>
  <tr>
    <td>Orange</td>
    <td>$0.50</td>
  </tr>
  <tr>
    <td>Banana</td>
    <td>$1.00</td>
  </tr>
  <tr>
    <td>Pineapple</td>
    <td>$2.00</td>
  </tr>
</tbody>
</table>
```

Match the tags and their effects



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

```
<table border = "1" width = "40%"
    summary = "This table provides information about
    the price of fruit">
<caption><strong>Price of Fruit</strong></caption>
<thead>
    <tr> <th>Fruit</th> <th>Price</th> </tr>
</thead>
<tfoot>  <tr>
            <th>Total</th>
            <th>$3.75</th>
        </tr>
</tfoot>
<tbody>
    <tr>
        <td>Apple</td> <!-- insert a data cell -->
        <td>$0.25</td>
    </tr>
```

```
<tr>
<td>Orange</td>  <td>$0.50</td>
</tr>
<tr>
<td>Banana</td>  <td>$1.00</td>
</tr>
<tr>
<td>Pineapple</td>  <td>$2.00</td>
</tr>
</tbody>
</table>
```

```
<head>
<style>
table, th, td {
  border: 1px solid black;
}
</style>
</head>
<body>
```

```
<h2>Table With Border</h2>
```

```
<p>Use the CSS border property to add a border to the table.</p>
```

```
<table style="width:100%">
  <tr>
    <th>Firstname</th>
    <th>Lastname</th>
    <th>Age</th>
  </tr>
  <tr>
    <td>Jill</td>
    <td>Smith</td>
    <td>50</td>
  </tr>
```

Table With Border

Use the CSS border property to add a border to the table.

Firstname	Lastname	Age
Jill	Smith	50
Eve	Jackson	94
John	Doe	80

```
<style>
table, th, td {
  border: 1px solid black;
  border-collapse: collapse;
}
</style>
</head>
<body>
<h2>Collapsed Borders</h2>
<p>If you want the borders to collapse into one border, add the CSS
border-collapse property.</p>
<table style="width:100%">
  <tr>
    <th>Firstname</th>
    <th>Lastname</th>
    <th>Age</th>
  </tr>
  <tr>
    <td>Jill</td>
    <td>Smith</td>
    <td>50</td>
  </tr>
```

Collapsed Borders

If you want the borders to collapse into one border, add the CSS border-collapse property.

Firstname	Lastname	Age
Jill	Smith	50
Eve	Jackson	94
John	Doe	80

Table Example Page

Here is a more complex sample table.


	Camelid comparison			
	Approximate as of 6/2007			
	# of Humps	Indigenous region	Spits?	Produces Wool?
Camels (bactrian)	2	Africa/Asia	Yes	Yes
Llamas	1	Andes Mountains	Yes	Yes

table2.html

```
<thead>
```

```
<!-- rowspans and colspans merge the specified -->
```

```
<!-- number of cells vertically or horizontally -->
```

```
<tr>
```

```
<!-- merge two rows -->
```

```
<th rowspan = "2">
```

```
<img src = "camel.gif" width = "205"
```

```
height = "167" alt = "Picture of a camel" />
```

```
</th>
```

```
<!-- merge four columns -->
```

```
<th colspan = "4">
```

```
<h1>Camelid comparison</h1>
```

```
<p>Approximate as of 6/2007</p>
```

```
</th>
```

```
</tr>
```

```
<tr>
```

```
<th># of Humps</th>
```

```
<th>Indigenous region</th>
```

```
<th>Spits?</th>
```

```
<th>Produces Wool?</th>
```

```
</tr>
```

```
</thead>
```

table2.html

```
<tbody>
```

```
<tr>
```

```
<th>Camels (bactrian)</th>
```

```
<td>2</td>
```

```
<td>Africa/Asia</td>
```

```
<td>Yes</td>
```

```
<td>Yes</td>
```

```
</tr>
```

Table Exercise

Fruit Juice Drinks and Meals

	Fruit Juice Drinks		
	Apple	Orange	Screwdriver
Breakfast	0	1	0
Lunch	1	0	0
Dinner	0	0	1


```

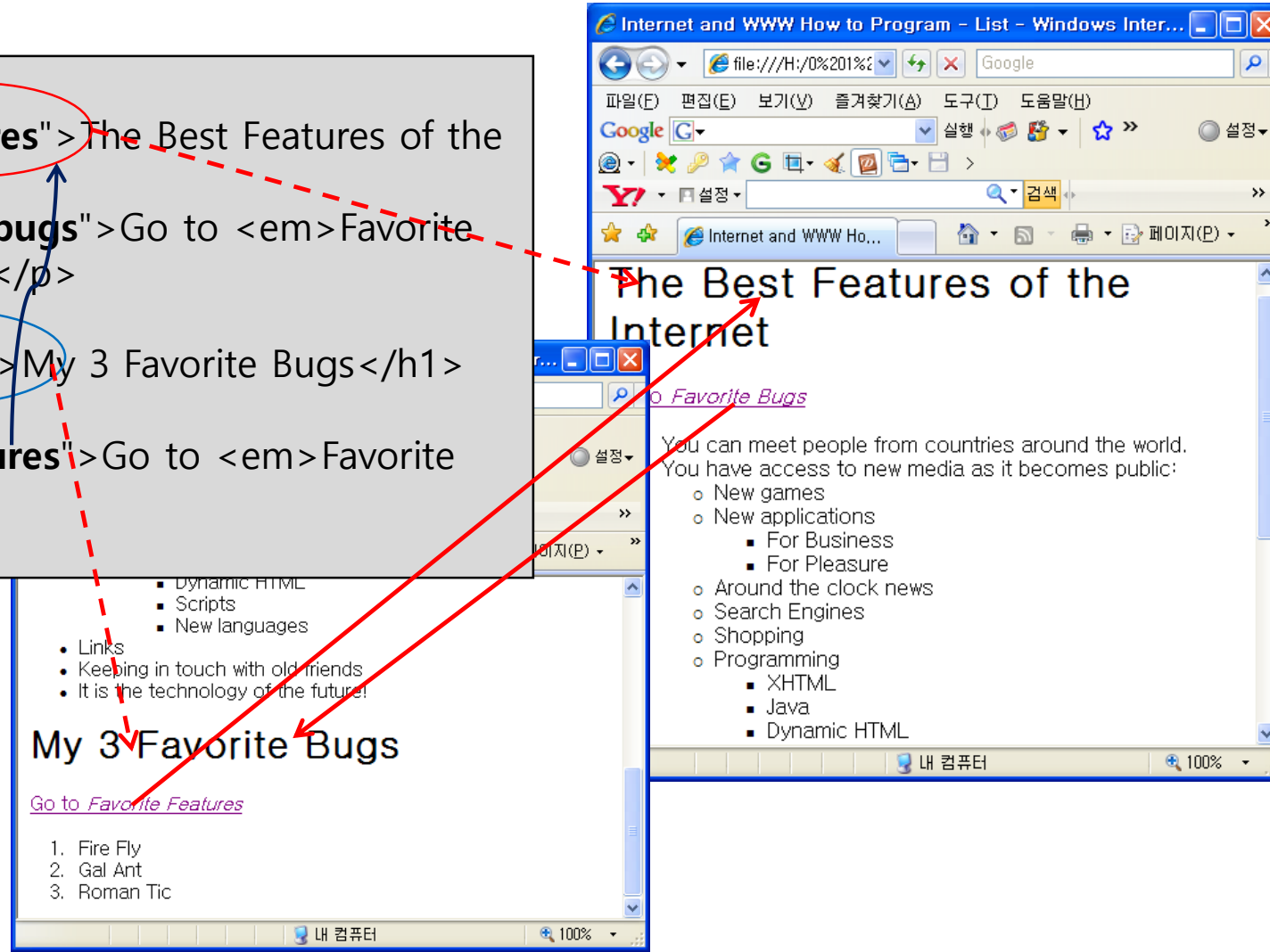
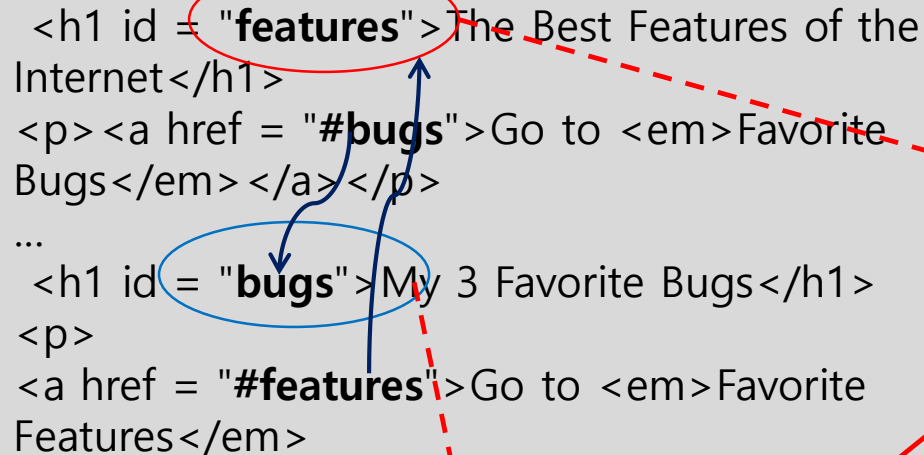
<table border = "border">
  <caption> Fruit Juice Drinks and Meals </caption>
  <tr>
    <td rowspan = "2"> </td>
    <th colspan = "3"> Fruit Juice Drinks </th>
  </tr>
  <tr>
    <th> Apple </th>
    <th> Orange </th>
    <th> Mango </th>
  </tr>
  <tr>
    <th> Breakfast </th>
    <td> 0 </td>
    <td> 1 </td>
    <td> 0 </td>
  </tr>
  <tr>
    <th> Lunch </th>
    <td> 1 </td>
    <td> 0 </td>
    <td> 0 </td>
  </tr>
  <tr>
    <th> Dinner </th>
    <td> 0 </td>
    <td> 0 </td>
    <td> 1 </td>
  </tr>

```

Fruit Juice Drinks and Meals			
	Fruit Juice Drinks		
	Apple	Orange	Screwdriver
Breakfast	0	1	0
Lunch	1	0	0
Dinner	0	0	1

Internal Linking: jumping between locations in the same document

```
<h1 id = "features">The Best Features of the
Internet</h1>
<p><a href = "#bugs">Go to <em>Favorite
Bugs</em></a></p>
...
<h1 id = "bugs">My 3 Favorite Bugs</h1>
<p>
<a href = "#features">Go to <em>Favorite
Features</em>
```



Meta Element

Used to catalog sites by spidering / crawling

```
<meta name = "keywords" content = "Web page, design, XHTML, tutorial, personal, help, index, form, contact, feedback, list, links, frame, deitel" />  
<meta name = "description" content = "This Web site will help you learn the basics of XHTML and Web page design through the use of interactive examples and instruction." />
```

...

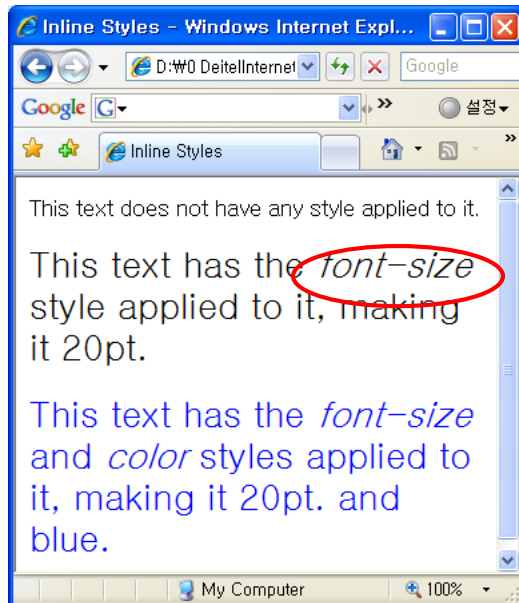
```
<p>We have designed this site to teach about the wonders of <strong><em>XHTML</em></strong>. <em>XHTML</em> is better equipped than <em>HTML</em> to represent complex data on the Internet. <em>XHTML</em> takes advantage of XML's strict syntax to ensure well-formedness. Soon you will know about many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

identify the type of meta

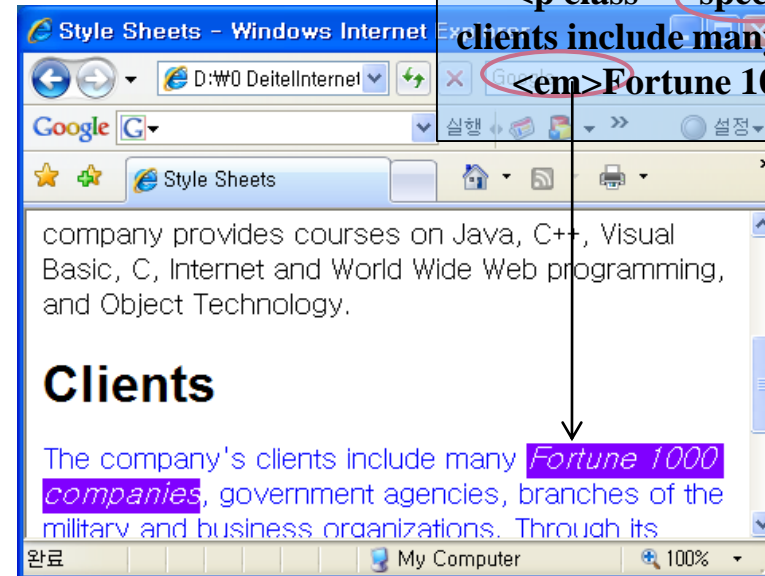
provide search engine the info. to catalog...

Inline and Embedded Style Sheets

```
<p style = "font-size: 20pt">This text has the
<em>font-size</em> style applied to it, making it 20pt.
</p>
<p style = "font-size: 20pt; color: #0000ff">
This text has the <em>font-size</em> and
<em>color</em> styles applied to it, making it
20pt. and blue.</p>
```



```
...
<style type = "text/css">
  em { background-color: #8000ff;
      color: white }
  h1 { font-family: arial, sans-serif }
  p { font-size: 14pt }
  .special { color: blue }
</style>...
<p>Deitel & Associates, Inc. is an
internationally
reco...
<h1>Clients</h1>
<p class = "special"> The company's
clients include many
<em>Fortune 1000 companies</em>, g...
```



Inline.html
declared.html

Inline Style Sheet

```
<body>
```

```
  <p>This text does not have any style applied to it.
```

```
<p style = "font-size: 20pt">This text has the
```

```
  <em>font-size</em> style applied to it, making it 20pt.
```

```
</p>
```

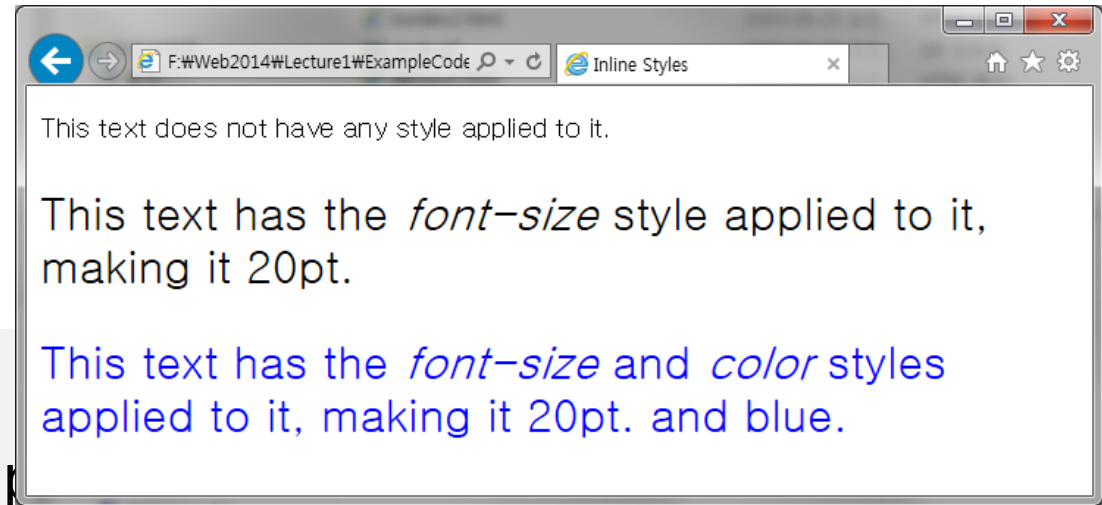
```
<p style = "font-size: 20pt; color: #0000ff">
```

```
  This text has the <em>font-size</em> and
```

```
  <em>color</em> styles applied to it, making it
```

```
  20pt. and blue.</p>
```

```
</body>
```



Embedded Style Sheet

```
<head>
  <title>Style Sheets</title>
  <!-- this begins the style sheet section -->
  <style type = "text/css">
    em      { background-color: #8000ff;
              color: white }
    h1      { font-family: arial, sans-serif }
    p       { font-size: 14pt }
    .special { color: blue }
  </style>
</head>
```

Ex: Change the background color of "em"
Add "Times" font to "h1"
Change the color of ".special"

<body>

<h1 class = "special" >Deitel & Associates, Inc.</h1>

<p>Deitel & Associates, Inc. ...edu

Deitel & Associates, Inc. ... Techno

<h1>Clients</h1>

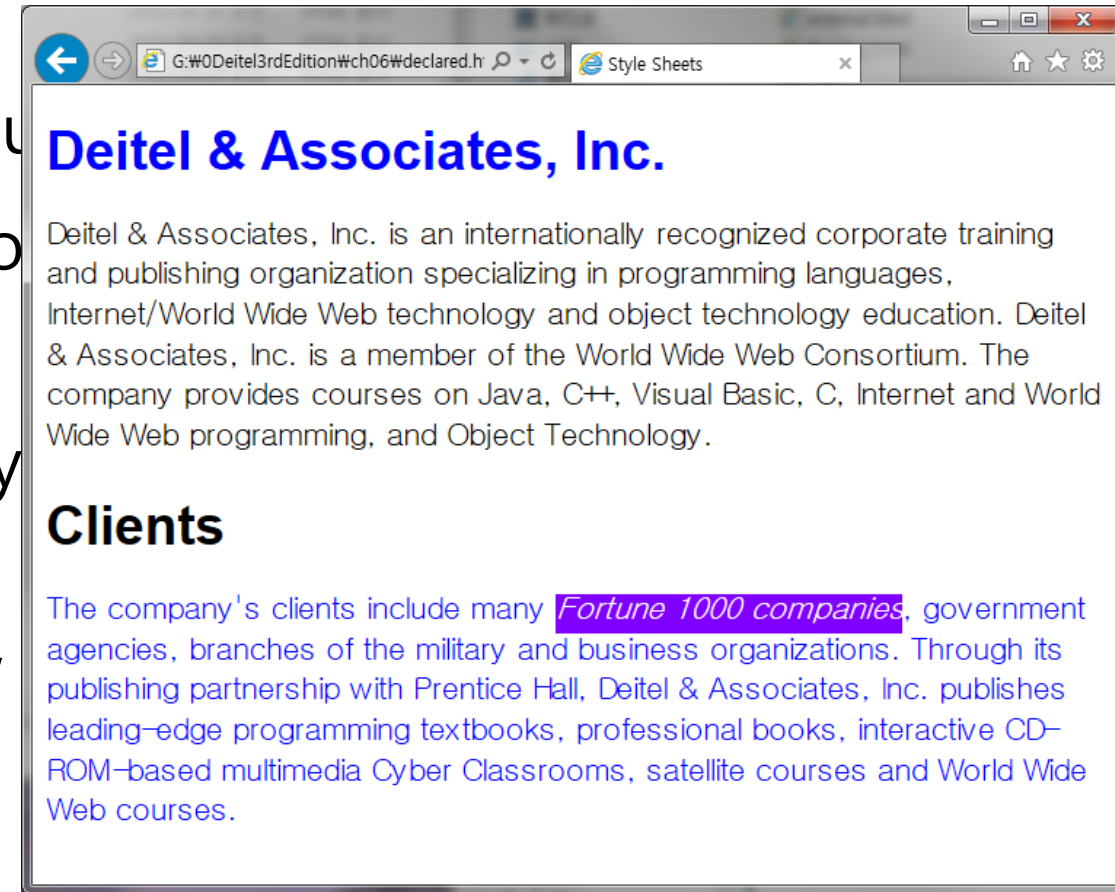
<p class = "special" > The company
include many

Fortune 1000 companies,
government agencies,

...

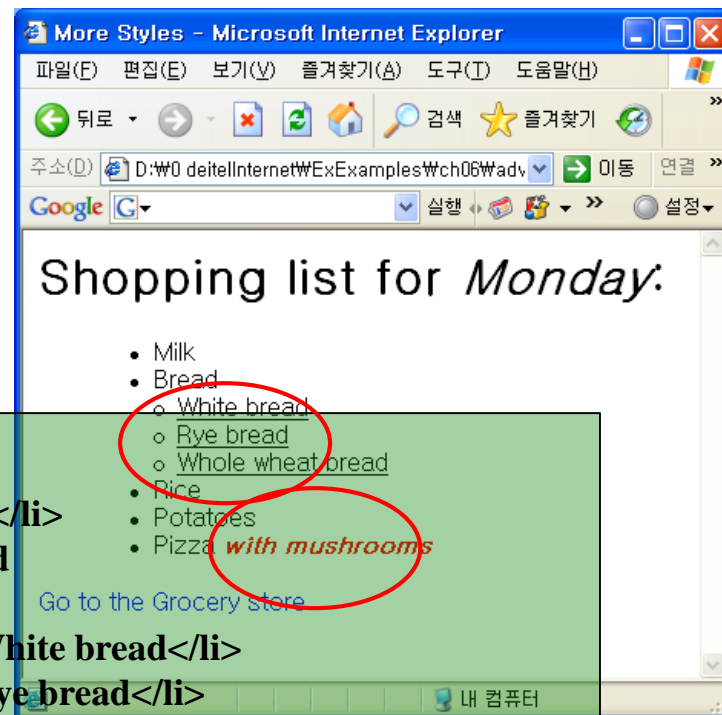
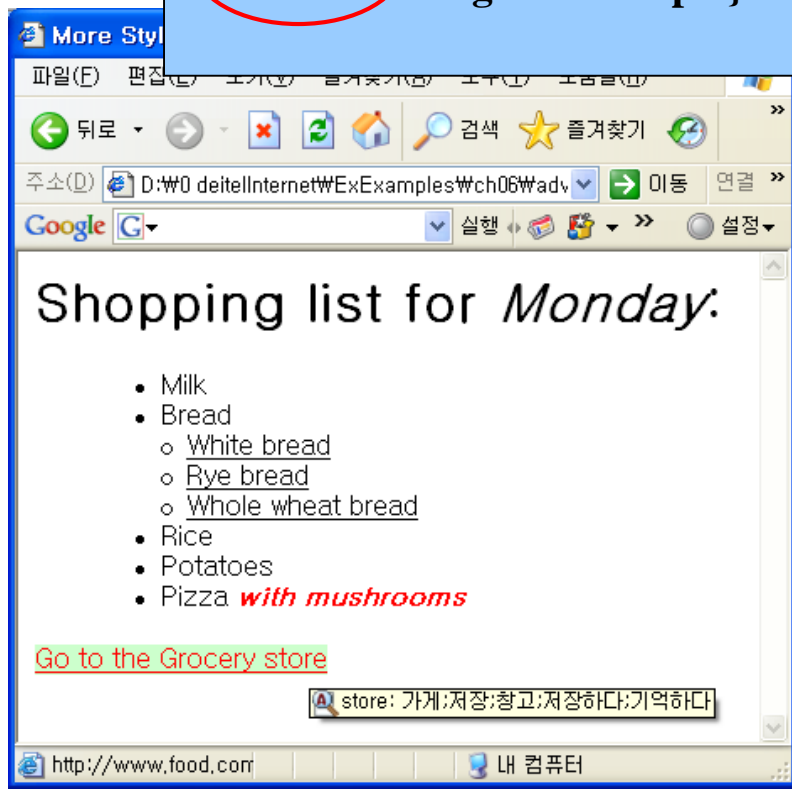
Deitel & ...courses.</p>

</body>



```
em { background-color: #8000ff;  
    color: white }  
h1 { font-family: arial, sans-serif }  
p { font-size: 14pt }  
.special { color: blue }
```

```
<style type = "text/css">
  a.nodect { text-decoration: none }
  a:hover { text-decoration: underline;
            color: red;
            background-color: #ccffcc }
  li em { color: red;
          font-weight: bold }
  ul { margin-left: 75px }
  ul ul { text-decoration: underline;
          margin-left: 15px }
```



```
<ul>
  <li>Milk</li>
  <li>Bread
    <ul>
      <li>White bread</li>
      <li>Rye bread</li>
      <li>Whole wheat bread</li>
    </ul>
  </li>
  <li>Rice</li>
  <li>Potatoes</li>
  <li>Pizza <em>with mushrooms</em></li>
</ul>
<p><a class = "nodect" href =
"http://www.food.com">
  Go to the Grocery store</a></p>
```



```
<style type = "text/css">  
  a.nodect { text-decoration: none }  
  a:hover { text-decoration: underline;  
            color: red;  
            background-color: yellow}  
  li em    { color: red;  
            font-weight: bold }  
  ul       { margin-left: 75px }  
  ul ul    { text-decoration: underline;  
            margin-left: 15px }
```


Milk

Bread

White bread

Rye bread

Whole wheat bread

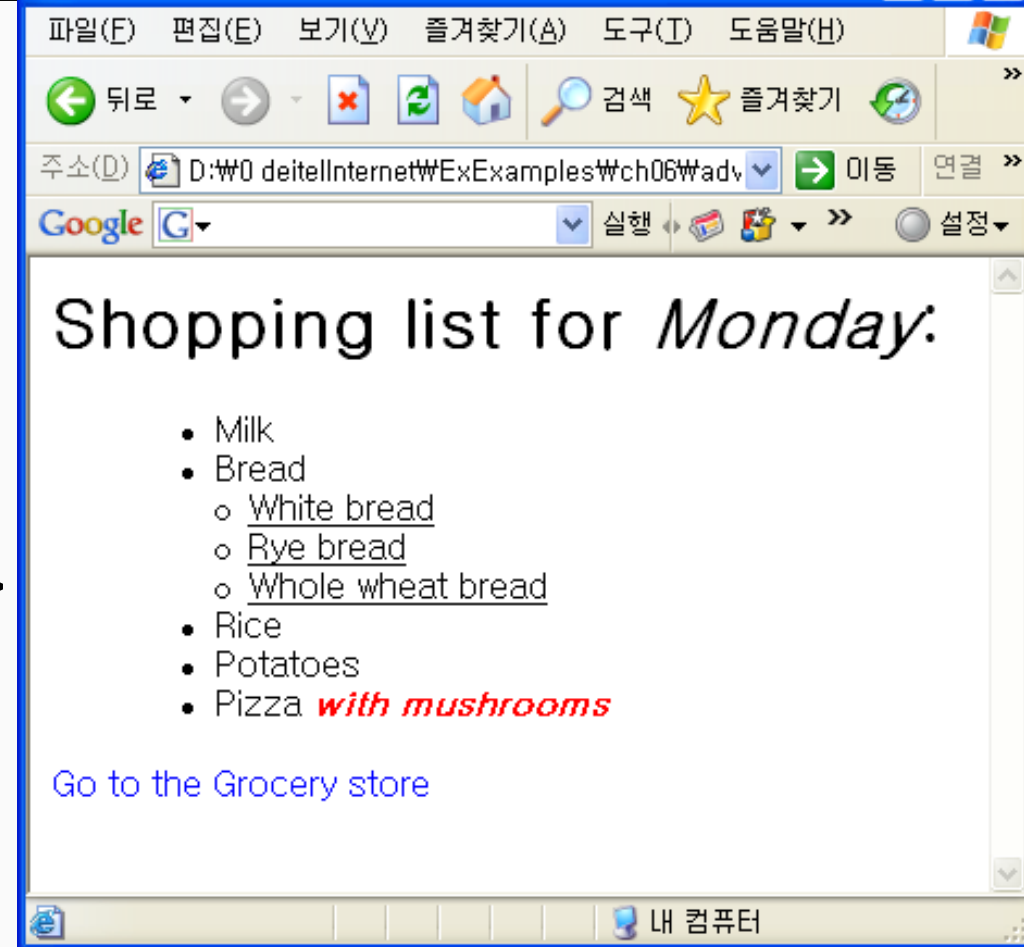
Rice

Potatoes

Pizza with mushrooms

<p><a class = "nodec" href =
"http://www.food.com">

Go to the Grocery store</p>



styles.css

Linking External Style Sheets

```

a      { text-decoration: none }
a:hover { text-decoration: underline;
          color: red;
          background-color: #ccffcc }

li em  { color: red;
          font-weight: bold;
          background-color: #ffffff }

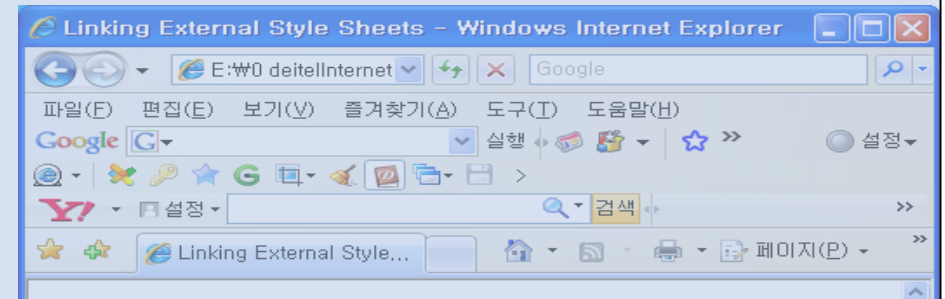
ul      { margin-left: 2cm }
ul ul   { text-decoration: underline;
          margin-left: .5cm }

```

```

<?xml version = "1.0"?>
<!DOCTYPE html<head>
    <title>Linking External Style Sheets</title>
    <link rel = "stylesheet" type = "text/css"
        href = "styles.css" />
</head>
<body>
    <h1> ...

```

Shopping list for *Monday*.

- Milk
- Bread
 - White bread
 - Rye bread
 - Whole wheat bread
- Rice
- Potatoes
- Pizza *with mushrooms*

[Go to the Grocery store](#)
external.html
styles.css

- separation of content from presentation;
- efficient development