

HTML

Important Markups

Topics

- Introduction of Basic Syntax
- Basic Text Markups
- Images
- Hypertext links
- Lists
- Tables
- Forms
- Audio
- Video
- Organization elements
- Time



Image tag by example

Source file location

Display this text if browser cannot not display image

Size in pixels



Normal Image Formats

- GIF (Graphic Interchange Format)
 - 8-bit color (256 different colors)
- JPEG (Joint Photographic Experts Group)
 - 24-bit color (16 million different colors)
 - Both use compression, but JPEG compression is better
- Portable Network Graphics (PNG)
 - Relatively new
 - Should eventually replace both gif and jpeg
 - Files are bigger than jpeg no lost data!
- Other formats
 - bmp, tif, eps



An Image Example

```
<!DOCTYPE html>
< ht.ml>
  <head> <title> Images </title>
    <!-- Other info -->
  </head>
  <body>
    <h1> Aidan's Airplanes </h1>
    <h2> The best in used airplanes </h2>
    <h3> "We've got them by the hangarful"
    </h3>
    <h2> Special of the month </h2>
    >
      1960 Cessna 210 <br />
      577 hours since major engine overhaul
      <br />
      1022 hours since prop overhaul
      <br /><br />
      <imq src = "c210new.jpg"</pre>
           alt = "Picture of a Cessna 210"/>
      <br />
      Buy this fine airplane today at a
      remarkably low price <br />
      Call 999-555-1111 today!
    </body>
</html>
```



An Image Example (continued)

Aidan's Airplanes

The best in used airplanes

"We've got them by the hangarful"

Special of the month

1960 Cessna 210 577 hours since major engine overhaul 1022 hours since prop overhaul



Buy this fine airplane today at a remarkably low price Call 999-555-1111 today!



Hypertext links by example

Source file location or url relative path is preferred

Text content

Hypertext reference

a for anchor



A Hypertext Link Example

```
<!DOCTYPE html>
<!-- link.html
     An example to illustrate a link
     -->
<html lang = "en">
  <head> <title> Links </title>
  </head>
  <body>
    <h1> Aidan's Airplanes </h1>
    <h2> The best in used airplanes </h2>
    <h3> "We've got them by the hangarful" </h3>
    <h2> Special of the month </h2>
    >
      1960 Cessna 210 <br />
      <a href = "C210data.html">
        Information on the Cessna 210 </a>
    </body>
</html>
```



A Hypertext Link Example (Continued)

Aidan's Airplanes

The best in used airplanes

"We've got them by the hangarful"

Special of the month

1960 Cessna 210 Information on the Cessna 210

1960 Cessna 210 Information

577 hours since major engine overhaul 622 hours since prop overhaul



Buy this fine airplane today at a remarkably low price Call 999-555-1111 today!



A link built on an images

```
<a href = "c210data.html">
     <img src = "smallplane.jpg"
        alt = "Small picture of an airplane" />
        </a>
```



Id: mark the target spot

id: the target spot

```
<h1 id = "baskets"> Baskets </h1>
```

If the id is in the same document

```
<a href = "#baskets"> What about baskets? </a>
```

If the target is in a different document

 Baskets



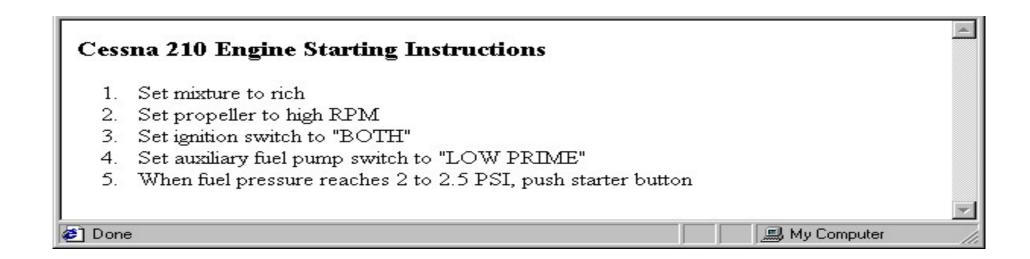
Ordered Lists

```
<h3> Cessna 210 Engine Starting Instructions </h3>

     Set mixture to rich 
     Set propeller to high RPM 
     Set ignition switch to "BOTH" 
     Set auxiliary fuel pump switch to
        "LOW PRIME" 
     When fuel pressure reaches 2 to 2.5 PSI,
push starter button
```



Ordered Lists





Unordered Lists

```
<h3> Some Common Single-Engine Aircraft </h3>

Cessna Skyhawk 
Beechcraft Bonanza 
Piper Cherokee
```

Lists of any type can be nested inside any type list

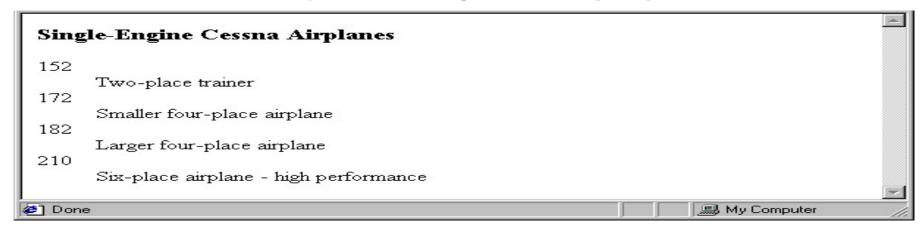


Unordered Lists





Definition Lists





Definition Lists

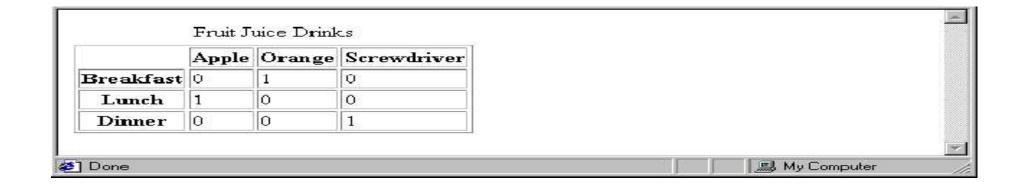
```
Single-Engine Cessna Airplanes

152
    Two-place trainer
172
    Smaller four-place airplane
182
    Larger four-place airplane
210
    Six-place airplane - high performance
```

```
<h3> Single-Engine Cessna Airplanes </h3>
< d1 >
 <dt> 152 </dt>
 <dd> Two-place trainer </dd>
 <dt> 172 </dt>
 <dd> Smaller four-place airplane </dd>
 < dt > 182 < / dt >
 <dd> Larger four-place airplane </dd>
  <dt> 210 </dt>
 <dd> Six-place airplane - high performance
 </dd>
</dl>
```



Tables and Styles





Tables and Styles

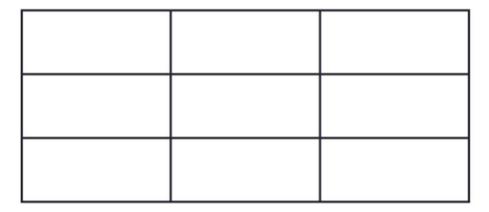
	Apple	Orange	Screwdriver	
reakfast	0	1	0	
Lunch	1	0	0	
Dinner	0	0	1	

```
<style> table, th, td {border:1px solid black; } </style>
<caption> Fruit Juice Drinks </caption>

      Apple 
      Orange 
      Screwdriver 
   <t.r>
      Breakfast 
     0 
     1 
     0 
                          If no style, table has no borders
   Try to style only table, or th, or td
```



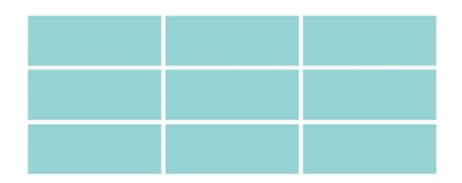
Collapsed Table Borders



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



Style Table Borders and Background



More can be done with CSS: size, color, dotted border, round border

```
    table, th, td {
        border: 1px solid black;
        border-collapse: collapse;
    }
    th, td {
        background-color: #96D4D4;
    }
</style>
```



colspan and rowspan for irregular table





colspan and rowspan for irregular table



```
         Fruit Juice Drinks 

        Orange 
        Apple 
        <<th><</th>
        <</tr>
        Screwdriver 
        <</tr>
```



colspan and rowspan (continued)

	Apple	Orange	Screwdriver	
reakfast		1	0	
Lunch	1	0	0	
Dinner	0	0	1	

```
\langle t.r \rangle
  <td rowspan = "2"> </td>
   Fruit Juice Drinks
  \langle t.r \rangle
   Apple 
   Orange 
   Screwdriver
```



Align text in table cells

- The text-align style property controls the horizontal placement of the contents in a table cell
 - Values are left (default for td), right, and center (default for th)
- The vertical-align style property controls the vertical placement of the contents of a table cell
 - Values are top, bottom, and center (default)



colspan and rowspan (continued)



```
\langle tr \rangle
  <td rowspan = "2"> </td>
  Fruit Juice Drinks
  \langle tr \rangle
   Apple 
   Orange 
   Screwdriver
```

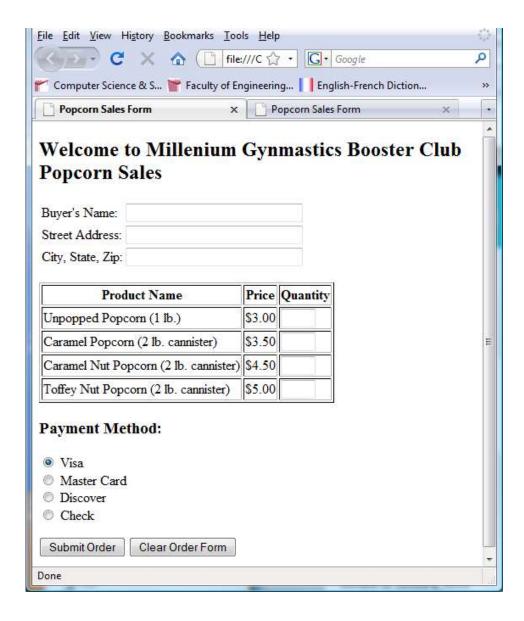


Padding & Spacing in table

- The border-spacing style property of is used to specify the distance between cells in a table
- The padding style property of and is
 used to specify the spacing between the content of a cell and the inner walls of the cell



<form> by popcorn example





How <form> works

 For gathering information from the browser to the server

```
<form action =
"http://www.domain.com/scripts/survey.php"
method = "get">
```



The Submission and Reset Buttons

```
<input type = "reset"
    value = "Reset Form" />
<input type = "submit"
    value = "Submit Form" />
```

- A Submit button is required in every form
- Submit has two actions:
 - Encode the data of the form
 - Request that the server executes the serverresident program specified as the value of the action attribute of <form>



Widgets (or controls)

- Widgets (or controls)
 - Text fields, radio buttons, check boxes, submission buttons, ...
 - They are different <input> types ...



Text Fields

```
<input type = "text" name = "phone" size = "30" />
```

- size: default 20 characters
- type = password: asterisks are displayed
- name: sort of variable name (will see how to use it later)



Text input

```
<input type="text" name="name" />
```



Text input with label

Test

```
<label>
 Test
 <input type="text" name="name" />
</label>
```



Radio Buttons

- Visa
- O Master Card

```
<label>
  <input type="radio" name="payment" value="visa" />
 Visa
</label>
<br />
<label>
  <input type="radio" name="payment" value="Mastercard" />
 Mastercard
</label>
```

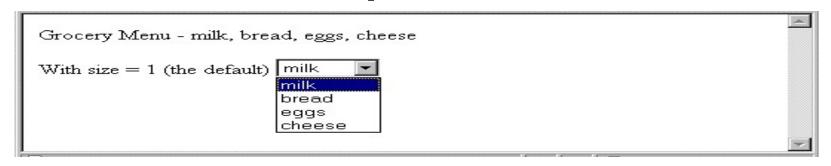


Check Boxes





Dropdown Menu



Size is not supported by all browsers

```
Grocery Menu - milk, bread, eggs, cheese

<select name="groceries" size="1">
  <option>milk</option>
  <option>bread</option>
  <option>eggs</option>
  <option>cheese</option>
  </select>
```

With size = 2 or more, allow multi-selection by:

```
<select name="groceries" size="2" multiple>
```



Some attributes for dropdown menu

- Selected option. An coption> tag can include
 the selected attribute, which when assigned
 selected="true" specifies that the item is
 preselected.
- Number of options displayed. A
 <select> tag can include the size
 attribute, which gives the number of
 options you see.

```
Grocery Menu - milk, bread, eggs, cheese

With size = 2 (specified) | milk | bread | v
```

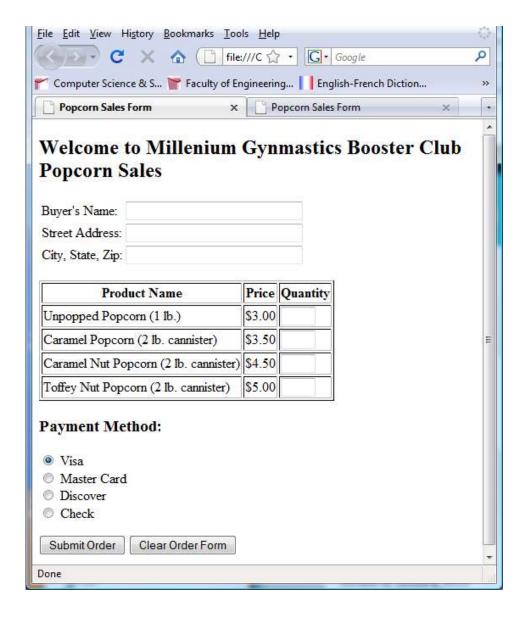


Text Area





Practice





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