

HTML UNIT 2



1

CREATING A SIMPLE TABLE

```
<table>
```

```
<tr>
```

```
<td>Cell 1</td>
```

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

```
</tr>
```

```
<tr>
```

```
<td>Cell 3</td>
```

```
<td>Cell 4</td>
```

```
</tr>
```

```
</table>
```

```
<table border="1">
```

```
<tr>
```

```
<td>Cell 1</td>
```

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

```
</tr>
```

```
<tr>
```

```
<td>Cell 3</td>
```

```
<td>Cell 4</td>
```

```
<td>Cell 5</td>
```

```
</tr>
```

```
</table>
```

| | | |
|--------|--------|--------|
| Cell 1 | Cell 2 | |
| Cell 3 | Cell 4 | Cell 5 |

SPECIFYING THE SIZE OF A TABLE

- ❑ `<table width=100%>`
- ❑ `<table style="width: 100%">`
- ❑ `table {width: 100%}`
- ❑ `table (height: 100%)`

- ❑ `<table width="750px">`
- ❑ `<table height="400px">`
- ❑ `table (height: 400px)`

SPECIFYING THE WIDTH OF A COLUMN

```
<table border="1">
<tr>
<td width="100px">&nbsp;</td>
<td width="400px">&nbsp;</td>
<td width="100px">&nbsp;</td>
</tr>
<tr>
<td>&nbsp;</td>
<td>&nbsp;</td>
<td>&nbsp;</td>
</tr>
</table>
```

If you enter some text in one of the cells that exceeds the column's width, the browser wraps the text into multiple lines, as needed.

SPECIFYING THE WIDTH OF A COLUMN

```
<table border="1">  
<tr>  
  <td width="20%"> &nbsp;</td>  
  <td width="60%"> &nbsp;</td>  
  <td width="20%"> &nbsp;</td>  
</tr>  
<tr>  
  <td> &nbsp;</td>  
  <td> &nbsp;</td>  
  <td> &nbsp;</td>  
</tr>  
</table>
```



The table is only as large as it needs to be to hold its content.

MERGING TABLE CELLS

- ❑ `<table border="1"><tr>`
- ❑ `<td colspan="2" rowspan="2">Survey Results</td>`
- ❑ `<td colspan="3">Age</td>`
- ❑ `</tr><tr>`
- ❑ `<td>12 to 25</td>`
- ❑ `<td>26 to 40</td>`
- ❑ `<td>Over 40</td>`
- ❑ `</tr><tr>`
- ❑ `<td rowspan="3">"What is your dream vacation destination?"</td>`
- ❑ `<td>Disneyworld</td>`
- ❑ `<td>25%</td>`
- ❑ `<td>50%</td>`
- ❑ `<td>25%</td>`
- ❑ `</tr>`
- ❑ `<tr>`
- ❑ `<td>Las Vegas</td>`
- ❑ `<td>25%</td>`
- ❑ `<td>50%</td>`

```
<TABLE ALIGN="LEFT|CENTER|RIGHT" BORDER="thickness_in_pixels"  
BGCOLOR="color" WIDTH="pixels_or_percentage_of_browser_width"  
COLS="number_of_columns" CELLPADDING="pixels" CELLSPACING="pixels"  
FRAME="outer_border_rendering" RULES="inner_border_rendering"  
SUMMARY="description_of_table_contents_and_structure">  
  
...  
</TABLE>
```


| Attribute | Value | Description |
|-------------|---|---|
| align | Left, center, right | Specifies the alignment of a table according to surrounding text |
| bgcolor | rgb(x, x, x) #xxxxxx colorname | Specifies the background color for a table |
| border | Pixels | Specifies the width of the borders around a table |
| cellpadding | Pixels | Specifies the space between the cell wall and the cell content |
| cellspacing | Pixels | Specifies the space between cells |
| frame | Void, above, below, hside, lhs, rhs, yside, box, border | Specifies which parts of the outside borders that should be visible |
| rules | None, groups, rows, cols, all | Specifies which parts of the inside borders that should be visible |
| summary | text | Specifies a summary of the content of a table |
| width | pixels % | Specifies the width of a table |
| cols | | Set equal to number of columns in the table. |

USING TABLES FOR PAGE LAYOUT



USING TABLES FOR PAGE LAYOUT

- `<tr>`
- `<td style="width: 150px">`
- `<p style="margin:0px">`
- ``
- ...



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FORMATTING TABLES

□ Applying Borders by Using Attributes

- `<table border="1">`
- The *frame* attribute specifies which sides of the outer frame of the table will display the border
 - *above* Top border only
 - ● *below* Bottom border only
 - ● *border* All four sides
 - ● *box* All four sides
 - ● *hsides* Top and bottom only (stands for horizontal sides)
 - ● *vsides* Left and right only (stands for vertical sides)
 - ● *lhs* Left side only (stands for left-hand side)
 - ● *rhs* Right side only (stands for right-hand side)
 - ● *void* No outer border

FORMATTING TABLES

- The *rules* attribute does the same thing for the inner lines of the table (the cell borders).
 - The valid values are:
 - *all* All inner lines
 - *cols* Only vertical inner lines
 - *rows* Only horizontal inner lines
 - *none* No inner lines
 - *groups* Lines around defined groups, if any
- `<table border="1" frame="vsides" rules="cols">`

APPLYING BORDERS BY USING STYLES

- ❑ The *border-width* attribute controls the thickness of the border. Specify a value in pixels.
- ❑ The *border-color* attribute controls the color of the border. Specify a color by name, hexadecimal number, or RGB value.
- ❑ The *border-style* attribute controls the line style. Choose among solid, dotted,
 - ❑ dashed, double, groove, ridge, inset, outset, or none.
- ❑ To set all three attributes at once, use the *border* attribute and then place the settings after it in this order: *width, color, style*.
- ❑ To format the border sides individually, replace the border attribute with the *border-top*, *border-bottom*, *border-left*, or *border-right* attribute.

```
<table style="border-style: dotted;  
border-color: black">  
<tr>  
<td style="border-style: groove;  
border-color: silver">Cell 1</td>  
<td>Cell 2</td>  
</tr>  
<tr>  
<td>Cell 3</td>  
<td>Cell 4</td>  
</tr>  
</table>
```

```
<style>  
table {border-style: dotted; border-color:  
black}  
td {border-style: groove; border-color:  
silver}  
</style>
```



```
<table>
<tr>
<td style="border-style: none">Cell
1</td>
<td>Cell 2</td>
</tr>
<tr>
<td>Cell 3</td>
<td>Cell 4</td>
</tr>
</table>
```

```
table {border-style: outset; border-color:
gray; border-width: 2px}
td {border-style: solid; border-color: gray;
border-width: 1px}
```

Default.css

```
table {border-style: outset; border-color: gray; border-width: 2px}
```

```
td {border-style: solid; border-color: gray; border-width: 1px}
```

product.htm

```
<table style="border-style: none"><tr class="tabletitle">
```

```
<td colspan="4" style="border-style: none"><b>Product Listing  
(Partial)</b></td></tr>
```

```
<tr class="tablehead">
```

```
<td style="width: 100px; border-bottom-width: 3px">Item #</td>
```

```
<td style="width: 300px; border-bottom-width: 3px">Name</td>
```

```
<td style="width: 75px; border-bottom-width: 3px">Price</td>
```

```
<td style="border-bottom-width: 3px">In Stock?</td>
```

```
</tr><tr class="tablehead">
```

```
<td style="width: 100px; border-bottom-width: 3px; border-top-style:none; border-left-style: none; border-right-style:  
none">Item #</td>
```

```
<td style="width: 300px; border-bottom-width: 3px; border-top-style:none; border-left-style: none; border-right-style:  
none ">Name</td>
```

```
<td style="width: 75px; border-bottom-width: 3px; border-top-style:none; border-left-style: none; border-right-style: none  
>Price</td>
```

```
<td style="border-bottom-width: 3px; border-top-style: none;border-left-style: none; border-right-style: none ">In  
Stock?</td>
```

```
</tr><tr class="tablebody">
```

```
<td colspan="4" style="border-style: none"><b>Note: </b>In-stock items
```

```
are available for pick-up or delivery. Please visit our store for
```

```
special sale prices on some items.</td>
```

FILLS

```
<tr style="background-color: orange">
```

Apply the *background-image* attribute to any portion of a table.

```
<table style="background-image: url(images/leaf.gif)>
```

Eg

```
<tr class="tbody" style="background-color:palegreen">
```

```
<td>CH348471</td>
```

```
<td>Sampson & Company All-Natural Pesticide</td>
```

```
<td>$14.99</td>
```

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

```
</tr>
```

```
<tr class="tbody" style="background-color:palegreen">
```

```
<td>CH543295</td>
```

```
<td>Vickers and Vickers Fertilizer Sticks</td>
```

```
<td>$5.98</td>
```

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

```
</tr>
```

```
<tr class="tbody" style="background-color:palegreen">
```

```
<td>CH548571</td>
```

```
<td>Appleton Acres Big Sack of Bulbs, Daffodils</td>
```

```
<td>$22.50</td>
```

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

ALIGNMENT

Top Left

Top Center

Top Right

Middle Left

Middle Center

Middle Right

Bottom Left

Bottom Center

Bottom Right

ALIGNMENT

- ❑ `<table cellpadding="4px">`
- ❑ `<td style="padding: 4px">`
- ❑ `td {padding: 4px}`
- ❑ `<table cellpadding="10px" cellspacing="0px">`
- ❑ `<td align="center" valign="middle">`
- ❑ `<td style="text-align: center; vertical-align: middle">`

CREATING A BASIC FORM

- `<form method="post">`
- ...
- `</form>`

- `<form action="mailto:edward@contoso.com" enctype="text/plain">`

- `<form action="http://www.contoso.com/cgi-bin/feedback.pl">`

CREATING A TEXT BOX

- ❑ `<input type="text" name="phone" size="30" maxlength="100" required>`
- ❑ `<input type="email" name="email-address">`
- ❑ `<input type="URL" name="website">`

- `<textarea name="comments" rows="5" cols="60"></textarea>`
- `<input type="submit" value="Send">`
- `<input type="reset" value="Clear">`

ADDING DEFAULT OR PLACEHOLDER TEXT

- ❑ `<input type="text" name="country" value="United States of America">`
- ❑ `<textarea name="comments" rows="5">Great job! Keep up the good work.</textarea>`
- ❑ `<input type="text" name="country" placeholder="Enter your country here">`

CREATING CHECK BOXES AND OPTION BUTTONS

- ❑ `<input type="checkbox" name="repair">`
- ❑ `<input type="checkbox" name="repair" value="Yes">`
- ❑ `<input type="checkbox" name="newsletter" checked="checked">`
- ❑ `<p><input type="radio" name="category" value="gold" checked="checked"> Gold
`
- ❑ `<input type="radio" name="category" value="silver"> Silver
`
- ❑ `<input type="radio" name="category" value="bronze"> Bronze</p>`

CREATING LISTS

- ❑ `<p>Color: <select name="colors" size="1">`
- ❑ `<option>Red</option>`
- ❑ `<option>Blue</option>`
- ❑ `<option>Green</option>`
- ❑ `<option>Yellow</option>`
- ❑ `<option>Pink</option>`
- ❑ `<option>Brown</option>`
- ❑ `<option>Black</option>`
- ❑ `<option>Teal</option>`
- ❑ `<option>Beige</option>`
- ❑ `</select></p>`



- ❑ `<p>Color: <select name="colors" size="5">`

- ❑ `<p>Select your printer model:`
- ❑ `<select name="printers" size="1">`
- ❑ `<optgroup label="Inkjet">`
- ❑ `<option>SuperJet 1400</option>`
- ❑ `<option>SuperJet 1405</option>`
- ❑ `<option>SuperJet 1405 Plus</option>`
- ❑ `</optgroup>`
- ❑ `<optgroup label="Laser">`
- ❑ `<option>SuperLaser Value Edition</option>`
- ❑ `<option>SuperLaser Pro</option>`
- ❑ `<option>SuperLaser Plus</option>`
- ❑ `</optgroup>`
- ❑ `</select></p>`



```
<nav>
```

```
<hr>
```

```
<p style="margin:0px">
```

```
<a href="index.htm">Home</a>&nbsp;
```

```
<a href="tips.htm">Tips and Tricks</a>&nbsp;
```

```
<a href="problems.htm">Problem-Solving</a>&nbsp;
```

```
<a href="products.htm">Products</a>&nbsp;
```

```
<a href="about.htm">About Our Store</a>&nbsp;
```

```
<a href="contact.htm">Contact Us</a></p>
```

```
<hr>
```

```
</nav>
```

```
<nav>
<hr>
<p style="margin:0px">
<a href="problems.htm"><imgsrc="services.jpg"style="border:none"></a>
<a href="products.htm"><imgsrc="product.jpg" style="border:none"></a>
<a href="about.htm"><imgsrc="aboutus.jpg" style="border:none"></a>
<a href="contact.htm"><imgsrc="contactus" style="border:none"></a></p>
<hr>
</nav>
```

CREATING AN IMAGE MAP

- ❑ An image map is an overlay for a graphic that assigns hyperlinks to specifically defined areas (*hotspots*) on the image
- ❑ The hotspots can be rectangular, circular, or irregularly shaped (called a *poly* hotspot).
- ❑ `<area shape="rect" coords="284,170,352,314" href="enter.htm">`
- ❑ `<area shape="poly" coords="287,71,413,286,314,446,188,267" href="index.htm">`
- ❑ `<area shape="poly" coords="287,71,413,286,314,446,188,267" href="index.htm">`

- ❑ ``
- ❑ `<map name="navbar" id="navbar">`
- ❑ `<area shape="rect" coords="0,0,60,30" href="home.htm" title="Home">`
- ❑ `<area shape="rect" coords="70,0,155,30" href="tips.htm" title="Tips& Trics">`
- ❑ `<area shape="rect" coords="165,0,250,30" href="problem.htm" title="FixProblems">`
- ❑ `<area shape="rect" coords="260,0,325,30" href="products.htm" title="Products">`
- ❑ `<area shape="rect" coords="335,0,400,30" href="about.htm" title="About Us">`
- ❑ `<area shape="rect" coords="410,0,490,30" href="contact.htm" title="Contact Us">`
- ❑ `</map>`
- ❑ `</nav>`

IMAGE AND IMAGEMAPS

```
<IMG SRC="URL_of_image_file"WIDTH="width_in_pixels"  
  HEIGHT="height__in_pixels"  
  ALT="text_description" BORDER="thickness_in_pixels"  
  ALIGN="LEFT|CENTER|RIGHT|TOP|MIDDLE|BOTTOM"  
  HSPACE="horizontal_spacing_in_pixels"  
  VSPACE="vertical_spacing_in_pixels"  
  LONGDESC=URL_of_lonng_description" ISMAP  
  USEMAP="map_name">
```

| Attribute | Value | Description |
|-----------------|--|--|
| align | <u>Top, bottom, middle</u> <u>left, right</u> | Specifies the alignment of an image according to surrounding elements |
| border | <i>pixels</i> | Specifies the width of the border around an image |
| height | <i>pixels</i> % | Specifies the height of an image |
| <u>hspace</u> | <i>pixels</i> | Specifies the whitespace on left and right side of an image |
| <u>ismap</u> | <u>ismap</u> | Specifies an image as a server-side image-map |
| <u>longdesc</u> | <i>URL</i> | Specifies the URL to a document that contains a long description of an image |
| <u>usemap</u> | <u>#mapname</u> | Specifies an image as a client-side image-map |
| <u>vspace</u> | <i>pixels</i> | Specifies the whitespace on top and bottom of an image |
| width | <i>pixels</i> % | Specifies the width of an image |

<MAP>

<MAP NAME="map_name"

---hot region definitions go there---

</MAP>

- ``
- `<map name="planetmap">`
 - `<area shape="rect" coords="0,0,82,126" href="sun.htm" alt="Sun" />`
 - `<area shape="circle" coords="90,58,3" href="mercur.htm" alt="Mercury" />`
 - `<area shape="circle" coords="124,58,8" href="venus.htm" alt="Venus" />``</map>`

<AREA>

- The <area> tag defines an area inside an image-map.
- <AREA SHAPE="RECT|CIRCLE|POLY|DEFAULT"
CORDS="coordinate_list" HREF="URL_of_linked_document"
TARGET="frame_name" ALT="text_alternative"
TABINDEX="tab_order_position" NOREF
ACCESSKEY="key_letter">

| Attribute | Value | Description |
|------------------|------------------------------------|--|
| <u>coords</u> | <i>coordinates</i> | Specifies the coordinates of an area |
| <u>href</u> | <i>URL</i> | Specifies the destination of a link in an area |
| <u>nohref</u> | <i>nohref</i> | Specifies that an area has no associated link |
| <u>shape</u> | <i>Default, rect, circle, poly</i> | Specifies the shape of an area |
| <u>target</u> | <i>_blank, parent, self, top</i> | Specifies where to open the linked page specified in the <u>href</u> attribute |
| <u>alt</u> | <i>text</i> | Specifies an alternate text for an area |
| <u>accesskey</u> | <i>character</i> | Specifies a keyboard shortcut to access an element |
| <u>Tabindex</u> | <i>number</i> | Defines the hot region's position in the tabbing order of the page |

HTML MULTIMEDIA BASICS

- ❑ `<html><head>`
- ❑ `<title>HTML Embed Tag</title>`
- ❑ `</head><body>`
- ❑ `<embed src="helloworld.swf">`
- ❑ `</body></html>`
- ❑
- ❑ OR
- ❑ `<object width="400" height="400" data="helloworld.swf">`
- ❑ `</object>`
- ❑
- ❑ ``

EMBEDDING VIDEO CLIPS

- `<video src="myvideo.ogv"></video>`

- Several attributes are

- ● *autoplay*

- ● *controls*

- ● *height*

- ● *loop*

- ● *preload*

- ● *width*

EMBEDDING VIDEO CLIPS

```
<video src="myvideo.ogv" width="320" height="240"></video>
```

- ```
<video src="myvideo.ogv" controls></video>
```

```
<video src="myvideo.ogv" preload></video>
```

```
<video src="myvideo.ogv" loop></video>
```

- ```
<video src="myvideo.ogv" autoplay></video>
```

- :

- ```
<video src="myvideo.ogv" width="320" height="240"
controls></video>
```

# EMBEDDING VIDEO CLIPS

- ❑ `<video width="320" height="240" controls>`
- ❑ `<source src="myvideo.mp4" type="video/mp4">`
- ❑ `<source src="myvideo.ogv" type="video/ogg">`
- ❑ `<source src="myvideo.webm" type="video/webm">`
- ❑ `</video>`

# THE <EMBED> TAG: YOUR FALLBACK PLAN

Include a Flash version of the video on your page

```
<embed src="myvideo.mp4" type="application/x-shockwave-flash"
width="320" height="240" allowscriptaccess="always"
allowfullscreen="true">
```

# THE <EMBED> TAG: YOUR FALLBACK PLAN

- ❑ `<video width="320" height="240" autoplay controls>`
- ❑ `<source src="myvideo.mp4">`
- ❑ `<source src="myvideo.webm">`
- ❑ `<source src="myvideo.ogv">`
- ❑ `<embed src="myvideo.mp4" type="application/x-shockwave-flash" width="320" height="240" allowscriptaccess="always" allowfullscreen="true">`
- ❑ `</video>`
- ❑ `</div>`
- ❑ `<p><a href="myvideo.avi">Click here</a> to download a high-resolution version of the clip in AVI format.</p>`

# PLAYING AUDIO WITH THE <AUDIO> TAG

```
<audio controls>
<source src="myaudio.mp3"></source>
<source src="myaudio.ogg"></source>
</audio>
```

- ❑ The `<audio>` tag supports attributes such as *controls*, *autoplay*, *loop*, and *preload*

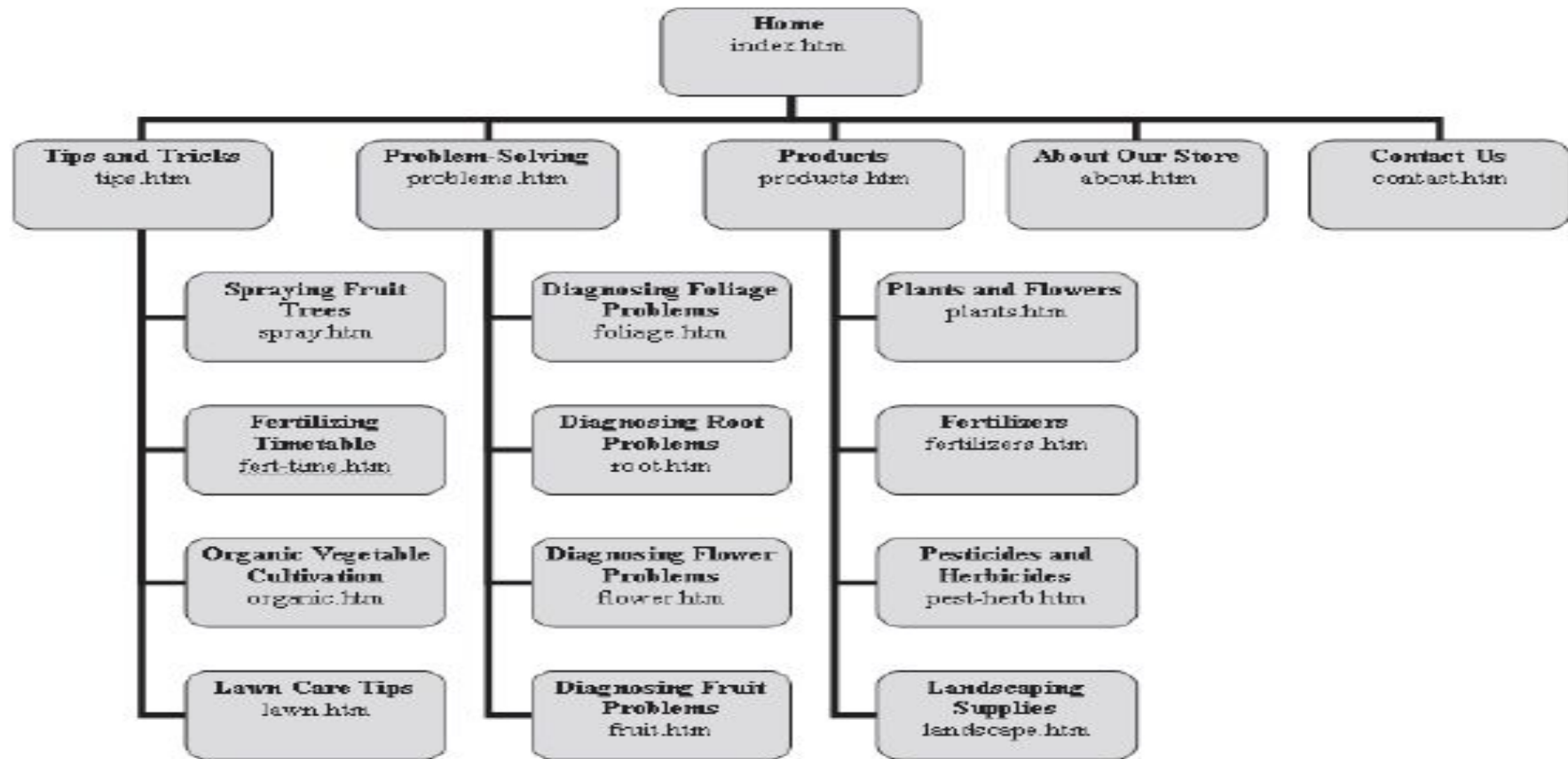
# PLAYING AUDIO IN OLDER BROWSERS

- ❑ `<audio autoplay loop>`
- ❑ `<source src="myaudio.mp3">`
- ❑ `<source src="myaudio.ogg">`
- ❑ `<embed src="myaudio.mp3">`
- ❑ `</audio>`
- ❑

`<embed src="myaudio.mp3" autostart="false">`

# CREATING NAVIGATIONAL AIDS

- A *navigation bar* is a set of hyperlinks that connect to the major pages of your Web site
- Hyperlinks can be either text-based or graphical
- Planning Your Site's Organization



# CREATING A TEXT-BASED NAVIGATION BAR

```
<nav>
<hr>
<p style="margin:0px">
Home
Tips and Tricks
Problem-Solving
Products
About Our Store
Contact Us</p>
<hr>
</nav>
```



# CREATING A GRAPHICAL NAVIGATION BAR

```
<nav>
<hr>
<p style="margin:0px">

</p>
<hr>
</nav>
```

# REDIRECTING TO ANOTHER URL

- ❑ `<html><head>`
- ❑ `<meta http-equiv="refresh" content="2; url=eg1.html"></head>`
- ❑ `<body bgcolor="#FF0509" ><p>This page has been moved. <br>`

# CREATING DIVISION-BASED LAYOUTS

- A *division-based layout* defines the area of a page with `<div>` tags
- Advantage
  - Can place the styles in an external style sheet, and then make style changes to many pages at once simply by modifying the style sheet
  - Reduce the number of lines of code needed to produce a page

# UNDERSTANDING HTML5 SEMANTIC TAGS

- A semantic tag is one in which the name of a tag reflects its purpose
- **<header>** Defines the masthead or other header information on the page
- **<footer>** Defines the text at the bottom of a page, such as the copyright or contact information
- **<article>** Defines a block of text that represents a single article, story, or message
- **<aside>** Defines a block of text that is tangential to the main discussion
- **<section>** Defines a generic content or application section

```

<body>
<div id="masthead">

<h1 class="pagetitle">The Garden Company</h1>
<h5 class="tagline"><i>Helping you help your gardens grow since 1975</i></h5>
</div>
<div id="topnav">
<hr>

<hr>
</div>
<div id="main">
<p>Fruit trees are now in stock! We have just received a large shipment of peach, pear, apple, and plum trees with sturdy root systems and healthy foliage, with prices as low as $29.99.
</div>
<div id="bottomnav">
<hr>
<p style="margin:0px; text-align: center">
Home
Tips and Tricks
Problem-Solving
Products
About Our Store
Contact Us</p>

```

- ❑ <body>
- ❑ <header>
- ❑ <a href="http://www.contoso.com" title="Home page">
- ❑ </a>
- ❑ <h1 class="pagetitle">The Garden Company</h1>
- ❑ <h5 class="tagline"><i>Helping you help your gardens grow since
- ❑ 1975</i></h5>
- ❑ </header>
- ❑ <nav>
- ❑ <hr>
- ❑ <a href="index.htm"></a>
- ❑ <a href="tips.htm"></a>
- ❑ <a href="problems.htm"></a>
- ❑ <a href="products.htm"></a>
- ❑ <a href="about.htm"></a>
- ❑ <a href="contact.htm"></a>
- ❑ <hr>
- ❑ </nav>
- ❑ <article>
- ❑ <p><b>Fruit trees are now in stock! </b>We have just received a large shipment of peach, pear, apple, and plum trees with sturdy root systems and healthy foliage, with prices as low as \$29.99.
- ❑ </article>
- ❑ <aside>
- ❑ <p><b>What does <i>that</i> mean?</b> Run into an unfamiliar gardening term? Look it up in our <a href="glossary.htm" target="\_blank">Glossary</a>.</p>
- ❑ </aside>
- ❑ <footer>