SPARKCHARTS**

| Blockquote | /blockquote> | Offsets long quotations |
|--|---|--|
| Body | <body> </body> | Identifies the body of an HTML document |
| Bold | | Displays text in boldface |
| Break (line break) | | Forces a line break in the document |
| Button | <button> </button> | Creates a push button |
| Caption | <caption> </caption> | Adds a table caption |
| Cite | <cite> </cite> | Identifies a citation or source reference |
| Code | <code> </code> | Identifies a computer code fragment |
| Column (table) | <col/> | Creates a group of table column attributes |
| Column group | <colgroup></colgroup> | Creates a specific column group |
| Comment | | Adds comments not displayed as part of the page |
| Definition description | | Identifies definition in a glossary or definition list |
| and the second s | <dfn> </dfn> | Indicates a defining instance of a given term |
| Defining instance | <dl> </dl> | |
| Definition list | | Creates definition or glossary list |
| Definition term | <dt> </dt> | Identifies a term to be defined |
| Deleted text | | Displays strikethrough text |
| Division | <div> </div> | Sets apart element's contents on separate line |
| Emphasis | | Indicates emphasis (usually, displays in italics) |
| Fieldset | <fieldset></fieldset> | Groups together related controls |
| Font | | Modifies font appearance |
| Form | <form> </form> | Creates an interactive form |
| Frame | <frame/> | Defines a frame |
| Frameset | <frameset> </frameset> | Defines a group of frames |
| Head | <head> </head> | Identifies HTML document header |
| Heading 1-6 | <h1> </h1> , <h2> </h2> | Identifies heading levels 1-6 |
| Horizontal rule | <hr/> <hr/> | Adds a horizontal line |
| HTML | <html> </html> | Identifies HTML document |
| Image | | Embeds an image |
| nline frame | <iframe> </iframe> | Creates an inline subwindow (floating frame) |
| Input | <input/> | Specifies a form control (user input) |
| Inserted text | | |
| nserted техт | <ins> </ins> | Marks up a document, identifying text inserted in a new version |
| talic text | <i></i> | Displays text in italics |
| Keyboard text | <kbd> </kbd> | Identifies text to be entered by the user |
| | < abel> | |
| Label | 100000000000000000000000000000000000000 | Assigns labels to form fields |
| Legend | <legend> </legend> | Sets apart groups of form elements in boxes |
| Link | k/> | Used in document head to create links to other documents |
| List item | | Identifies an item in an ordered or unordered list |
| Мар | <map> </map> | Identifies a client-side image map |
| Meta information | <meta/> | Contains descriptive information |
| Noframes | <noframes></noframes> | Contains alternate content for browsers not |
| | | supporting frames |
| Noscript | <noscript> </noscript> | Contains alternate content for browsers not supporting client-side scripts |
| Object | <object> </object> | Identifies a generic embedded object |
| Option | <option> </option> | Identifies a selectable choice in a form |
| | | 34-10-12-13-20-14-20-14-20-14-20-14-20-14-20-14-20-14-20-14-20-14-20-14-20-14-20-14-20-14-20-14-20-14-20-14-20 |
| Option group Ordered list | <optgroup> </optgroup> | Creates a logical group of options in a form |
| | <0 > 0 | Identifies a numbered list |
| Paragraph Parameter | <param/> | Identifies a paragraph Contains a set of values required by an object at |
| | | run-time |
| Preformatted text | <pre> </pre> | Overrides HTML's text formatting |
| Quotation | <q> </q> | Identifies a short inline quotation |
| Sample text | <samp> </samp> | Sample output |
| Script | <script> </script> | Encloses script statements |
| Select | <select> </select> | Creates a drop-down menu in a form |
| Small | <small> </small> | Renders text in a "small" font |
| Span | | Contains a customizable inline element |
| Strong emphasis | | Displays text as strongly emphasized (usually, as boldface) |
| Style | <style> </style> | Includes style information in the document head |
| Subscript | | |
| Superscript | | Renders text as subscript |
| Table | | Renders text as superscript |
| | | Identifies a table |
| Table body | | Creates a grouping of table body elements |
| Table data | | Creates a table data cell |
| Table footer | <tfoot> </tfoot> | Identifies a table footer |
| Table header | <thead> </thead> | Creates a grouping of rows in a table header |
| | AL FALL | Identifies a table header cell |
| | | identifies a lable header cell |
| Table header cell Table row | | Identifies a row of cells in a table |

| Title (document) | <title> </title> | Used in document header to assign a title |
|------------------|---|---|
| Teletype text | <tt></tt> | Renders text in a monospaced style |
| Unordered list | < /ul><td>Identifies an unordered (bulleted) list</td> | Identifies an unordered (bulleted) list |
| Variable | cyars clyars | Indicates a variable or program groument |

| ATTRIBUTE | ELEMENTE IT | WALLIE TYPES | FUNCTION |
|-------------------|---|-------------------------------------|---|
| ATTRIBUTE NAME | ELEMENTS IT WORKS WITH | VALUE TYPES | FUNCTION |
| abbr | , | Text | Includes an abbreviation for header cell name |
| accept | <form>, <input/></form> | Comma-separated list of media types | Provides a list of MIME types for file upload |
| accept- | <form></form> | Space-separated list of | Provides a list of supported |
| charset | | character encodings | character sets |
| accesskey | <a>>, <area/>, <button>, <input/>, <label>, <legend>, <textarea></td><td>Charset (A single character from ISO-10646)</td><td>Identifies an accessibility key character</td></tr><tr><td>action</td><td><form></td><td>URI (Uniform Resource Identifier)</td><td>Identifies a server-side form handler</td></tr><tr><td>alt</td><td><area>, </td><td>Text</td><td>Displays a short text description of an image</td></tr><tr><td>alt</td><td><input></td><td>CDATA (A sequence of characters from the docu- ment's character set. May include entities.)</td><td>Displays a short text description of form buttons for non-graphical browsers</td></tr><tr><td>archive</td><td><object></td><td>CDATA</td><td>Contains a URL where an archive file is located</td></tr><tr><td>axis</td><td>,</td><td>CDATA</td><td>Includes a comma-separated list of related headers</td></tr><tr><td>bgcolor</td><td><body>, , ,</td><td>Color</td><td>Specifies background color.</td></tr><tr><td>border</td><td>,</td><td>Pixels</td><td>Controls border width around tab</td></tr><tr><td>cellpadding</td><td></td><td>Length (nn for pixels or nn% for percentage length)</td><td>Adds extra space within cells</td></tr><tr><td>cellspacing</td><td></td><td>Length</td><td>Adds extra space between cells</td></tr><tr><td>char</td><td><col>, <colgroup>, , , <lfoot>, ,</td><td>Character (A single character from ISO-10646)</td><td>Identifies alignment character for table elements. For instance, char=";"</td></tr><tr><td>charoff</td><td><thead>, <col>, <colgroup>,</td><td>Length</td><td>Specifies offset for alignment character</td></tr><tr><td>charset</td><td><a>>, k>, <script></td><td>Charset (A character encoding)</td><td>Identifies character encoding of linked resource</td></tr><tr><td>checked</td><td><input></td><td>(checked)</td><td>Identifies a pre-selected option in checkboxes and radio buttons</td></tr><tr><td>cite</td><td><blookquote>, <q></td><td>URI</td><td>Identifies URI for source documen</td></tr><tr><td>cite</td><td>, <ins></td><td>URI</td><td>Includes info on reason for chang</td></tr><tr><td>class</td><td>All except: </td><td>CDATA</td><td>Identifies a space-separated list of classes in an element</td></tr><tr><td>classid</td><td><object></td><td>URI</td><td>Contains a URI for an object's implementation</td></tr><tr><td>codebase</td><td><object></td><td>URI</td><td>Identifies a base URI for classid, data, archive</td></tr><tr><td>codetune</td><td>cobjects</td><td>Media type</td><td>Identifies content type for code</td></tr><tr><td>cols</td><td><frameset></td><td>Multiple lengths</td><td>Define columns in a frames page (default 100%)</td></tr><tr><td>cols</td><td><lextarea></td><td>Number</td><td>Defines the width (in characters) of</td></tr><tr><td>colspan</td><td><1d>, <1h></td><td>Number</td><td>Specifies the number of table</td></tr><tr><td>content</td><td><meta></td><td>CDATA</td><td>columns spanned by a single cell Identifies information types</td></tr><tr><td>coords</td><td><0></td><td>Coords</td><td>included in <meta> element Sets coordinates for clickable area</td></tr><tr><td>coords</td><td><area></td><td>Coords (A comma-</td><td>in client-side image maps Sets the points that define a shape</td></tr><tr><td>data</td><td><object></td><td>separated list of lengths) URI</td><td>in an image map Contains a reference to an object</td></tr><tr><td>datetime</td><td>, <ins></td><td>Date and time in ISO date</td><td>data Identifies date and time of change</td></tr><tr><td>declare</td><td><object></td><td>(declare)</td><td>Declares an object without</td></tr><tr><td>defer</td><td><script></td><td>(defer)</td><td>instantiating it Enables user agent to defer</td></tr><tr><td>dir</td><td>All except: <base>,</td><td>(ltr rtl)</td><td>Specifies direction for weak/</td></tr><tr><td></td><td> <frame>, <frame- set>, <iframe>, <param>, <script></td><td></td><td>neutral text</td></tr></tbody></table></textarea></legend></label></button> | | |



| dir | <bdo></bdo> | (ltr rtl) | Specifies directionality of text | onfocus | <a>>, <area/>, | Script | Causes an action when an |
|----------|---|-------------|----------------------------------|---------|------------------------------|--------|----------------------------|
| disabled | <button>, <input/>,</button> | (disabled) | Disables form elements | | <button>, <input/>,</button> | | element receives the focus |
| | <pre><optgroup>, <option>, <select>, <textarea></pre></td><td></td><td></td><td></td><td><label>, <select>, <textarea></td><td></td><td></td></tr><tr><td>enctype</td><td><form></td><td>Media type</td><td>Sets the encoding method for form data</td><td></td><td></td><td></td><td></td></tr><tr><td>for</td><td><label></td><td>ID reference defined by other attributes</td><td>Matches field ID value</td><td>onkeydown</td><td>All except: <base>, <bdo>, <bdo>, <b</td><td>Script</td><td>Causes an action when a key is pressed down</td></tr><tr><td>frame</td><td></td><td>void above below hsides lhs rhs visdes box border</td><td>Identifies which parts of a table structure should display</td><td></td><td>, <frame>, <frameset>, <head>, <html>,</td><td></td><td></td></tr><tr><td>frameborder headers</td><td><frame>, <iframe> ,</td><td>(1 0) ID reference defined by other attributes</td><td>Turns frame borders on or off Contains a list of IDs for header cells</td><td>a bassassa</td><td><iframe>, <meta>, <param>, <script>, <style>, <title></td><td>College</td><td>Course of the state of the stat</td></tr><tr><td>height height</td><td><iframe> , <object></td><td>Length Length</td><td>Specifies frame height Specifies an image's or object's height in pixels</td><td>onkeypress</td><td>(same as above)</td><td>Script</td><td>Causes an action when a key is pressed and released</td></tr><tr><td>href</td><td><a>, <area>, <link></td><td>URI</td><td>Identifies a URI for a linked resource</td><td>onkeyup</td><td>(same as above)</td><td>Script</td><td>Causes an action when a key is released</td></tr><tr><td>href</td><td><base></td><td>URI</td><td>Identifies a URI that acts as a base URI</td><td>onload</td><td><body></td><td>Script</td><td>Causes an action when the docu- ment has been loaded</td></tr><tr><td>hreflang</td><td><a>>, <link></td><td>A language code</td><td>Specifies a language code</td><td>onload</td><td><frameset></td><td>Script</td><td>Causes an action when all the</td></tr><tr><td>http-equiv</td><td><mela></td><td>Name</td><td>Identifies an HTTP response header name</td><td>onmouse-</td><td>All except: <base>,</td><td>Script</td><td>frames have been loaded Causes on action when a pointer</td></tr><tr><td>id</td><td>All except: <base>, <head>, <html>, <meta>, <script>, <style>, <title></td><td>ID</td><td>Specifies a document-wide unique ID</td><td>down</td><td> </td><td></td><td>or mouse button is pressed down</td></tr><tr><td>ismap label</td><td>, <input></td><td>(ismap) Text</td><td>Identifies a server-side image map Identifies a group of options in</td><td></td><td><pre><poram>, <script>,</pre></td><td></td><td></td></tr><tr><td></td><td></td><td>7117</td><td>a form</td><td>onmouse-</td><td><style>, <title></td><td>Script</td><td>Causes an action when a pointer</td></tr><tr><td>lang</td><td><option> All except:</td><td>Text Language code</td><td>Specifies an option name in a form Indicates the language being used</td><td>move</td><td></td><td></td><td>or mouse is moved within the element</td></tr><tr><td></td><td><pre><base>, , <frame>, <frame-, <frame>, <param>, <script></pre></td><td></td><td>in an element's contents</td><td>onmouseout</td><td>All except: <base>, <bdo>, , <frame>, <frameset>,</td><td>Script</td><td>Causes an action when a pointer is moved away from the element</td></tr><tr><td>longdesc</td><td></td><td>URI</td><td>Provides a link to a long descrip- tion of a frame's contents</td><td></td><td><head>, <html>, <iframe>, <meta>,</td><td></td><td></td></tr><tr><td>longdesc</td><td></td><td>URI</td><td>Provides a link to a long descrip- tion for non-graphical browsers</td><td></td><td><pre><param>, <script>, <style>, <title></pre></td><td></td><td></td></tr><tr><td>marginheight marginwidth</td><td><frame>, <iframe></td><td>Pixels Pixels</td><td>Specifies frame margin height Specifies frame margin width</td><td>onmouseover</td><td>(same as above)</td><td>Script</td><td>Causes an action when a pointer or cursor is moved onto the element</td></tr><tr><td>maxlength</td><td><input></td><td>Number</td><td>Specifies maximum number of characters for text fields</td><td>onmouseup</td><td>(same as above)</td><td>Script</td><td>Causes an action when a pointer or mouse button is released</td></tr><tr><td>media</td><td></td><td>Single or comma-separated list of media descriptors</td><td></td><td>onreset</td><td><form></td><td>Script</td><td>Causes an action when a form is reset</td></tr><tr><td>media</td><td><style></td><td>Single or comma-separated</td><td>Identifies the media an embedded</td><td>onselect</td><td><input>,</td><td>Script</td><td>Causes an action when some text is selected</td></tr><tr><td>method</td><td><form></td><td>list of media descriptors (get post)</td><td>Specifies the HTTP method used to</td><td>onsubmit</td><td><textarea></td><td>Script</td><td>Causes an action when a form is</td></tr><tr><td>multiple</td><td><select></td><td>(multiple)</td><td>submit a form Permits multiple selections in a form</td><td>onunload</td><td><body></td><td>Script</td><td>causes an action when the docu-</td></tr><tr><td>name</td><td><0></td><td>CDATA</td><td>Creates a named marker in a document</td><td>onunload</td><td><frameset></td><td>Script</td><td>ment has been removed Causes an action when all the</td></tr><tr><td>name</td><td><button>, <lextarea></td><td>CDATA</td><td>Allows a form control to be named</td><td>profile</td><td><head></td><td>URI</td><td>frames have been removed Links to a named dictionary of</td></tr><tr><td>name name</td><td><select></td><td>CDATA CDATA</td><td>Assigns a name to a form field Assigns a name to a form for</td><td>readonly</td><td><input>,</td><td>(readonly)</td><td>meta information Prevents editing of text fields in</td></tr><tr><td></td><td></td><td></td><td>scripting purposes</td><td>rel</td><td><textarea></td><td>Link types</td><td>a form Identifies forward link types</td></tr><tr><td>name</td><td><frame>, <iframe></td><td>CDATA</td><td>Assigns a name to a frame for targeting purposes</td><td>rev</td><td><a>, k></td><td>Link types</td><td>Identifies reverse link types</td></tr><tr><td>name</td><td></td><td>CDATA</td><td>Assigns a name to an image for</td><td>rows</td><td><frameset></td><td>Multiple lengths</td><td>Specifies a list of lengths</td></tr><tr><td>name</td><td><input>, <object></td><td>CDATA</td><td>scripting purposes Assigns a name for scripting</td><td>rows</td><td><textarea></td><td>Number</td><td>Sets the number of rows in a text area</td></tr><tr><td>name</td><td><map></td><td>CDATA</td><td>purposes Assigns a name for reference by</td><td>rowspan</td><td>,</td><td>Number</td><td>Specifies the number of rows spanned by a single table cell</td></tr><tr><td>10.000</td><td></td><td>62.00.00</td><td>usemap</td><td>rules</td><td></td><td>none groups rows </td><td>Controls the display of rules within</td></tr><tr><td>name .</td><td><meta></td><td>Name CDATA</td><td>Assigns a name to meta information Specifies the name of the object</td><td>scheme</td><td><meta></td><td>cols all</td><td>a table Identifies the expected format of</td></tr><tr><td>nohref</td><td><area></td><td>(nohref)</td><td>property being set Identifies a region that has no</td><td>scope</td><td>,</td><td>row col rowgroup </td><td>Indicates the scope covered by</td></tr><tr><td>noresize</td><td><frame></td><td>(noresize)</td><td>action in an image map Prevents resizing of frames</td><td>scrolling</td><td><frame>, <iframe></td><td>colgroup (yes no auto)</td><td>header cells Turns scroll bars on or off in a frame</td></tr><tr><td>onblur</td><td><a>>, <area>,</td><td>Script (A script expression</td><td>Causes an action when the</td><td>selected</td><td><option></td><td>(selected)</td><td>Defines preselected option in a form</td></tr><tr><td></td><td><button>, <input>, , <label>, <select>,</td><td>or code segment)</td><td>element loses the focus</td><td>shape</td><td><0></td><td>rect circle poly default</td><td>Defines a selectable region in a client-side image map</td></tr><tr><td>onchange</td><td><textarea> <input>, <select>,</td><td>Script</td><td>Causes an action when the</td><td>shape</td><td><area></td><td>rect circle poly default</td><td>Controls interpretation of coordinates in an image map</td></tr><tr><td>onclick</td><td><textarea> All except: <base>,</td><td>Script</td><td>element value is changed Causes an action when pointer</td><td>size</td><td><input></td><td>CDATA</td><td>Specifies the size (in characters) of a text form control</td></tr><tr><td></td><td><bdo>, , , <frame>,</td><td></td><td>(mouse) button is clicked</td><td>size</td><td><select></td><td>Number</td><td>Specifies the number of rows visible in a drop-down menu</td></tr><tr><td></td><td><frameset>, <head>, <html>,</td><td></td><td></td><td>span</td><td><col></td><td>Number</td><td>Specifies the number of table col- umns affected by COL attributes</td></tr><tr><td></td><td><pre><iframe>, <meta>, <param>, <script>, <style>, <title></pre></td><td></td><td></td><td>span</td><td><colgroup></td><td>Number</td><td>Specifies the default number of table columns in a column group</td></tr><tr><td>ondblclick</td><td>(same as above)</td><td>Script</td><td>Causes an action when pointer</td><td>src</td><td><frame>, <iframe></td><td>URI</td><td>Identifies the source of frame conten</td></tr><tr><td></td><td></td><td>1000</td><td>(mouse) button is double clicked</td><td>src</td><td><input></td><td>URI</td><td>Identifies the URI of an image for form fields with images</td></tr></tbody></table></textarea></select></option></optgroup></pre> | | | | | | |

TIM

CHARTS

- Hypertext: A means of connecting documents by text links.
- HTML: Hypertext Markup Language. A language that uses elements, attributes, and values (markup) to construct and link (hypertext) documents for easy access and display.
- XML: Extensible Markup Language. A customizable markup language
- XHTML: Extensible Hypertext Markup Language. A reformulation of HTML 4 as an XML 1.0
- DHTML: Dynamic Hypertext Markup Language. HTML, CSS, and JavaScript combined to create dynamic (as opposed to static) pages
- SGML: Standard Generalized Markup Language. The mother language from which HTML, XHTML, and XML were created.
- Element: A container that specifies the nature, formatting, or function of a portion of a document. E.g., <form>, , , .
- Tag: Signifies the opening and closing of an element. E.g.,
- Empty element: An element that has no content and is written as a single tag. E.g., .
- Block element: Causes a line break after the element. E.g., , <h1>, ,

- Inline element: Displays inline and does not generate a line break. E.g., , , <i>
- Proprietary element: An element not part of the official HTML recommendation. Often, it is supported only by the browser for which it was developed. E.g., Netscape's &link> element.
- Deprecated element or attribute: An element or attribute that is being phased out of HTML and therefore eventually will not be supported by browsers.
- Attribute: Lists a characteristic of a particular element. E.g,
- Value: Modifies the attribute in which it occurs. E.g.,
- Nesting: The practice of placing elements inside one another (as opposed to overlapping them). Nesting is the correct syntax for HTML. Overlapping is incorrect and can cause problems with your Web page.
- Correctly nested elements: Incorrectly nested (overlapped) elements:
- User agent (UA): The means (e.g., a Web browser) by which one accesses an HTML document.
- Client-side: Describes anything that is done on the user's computer.
- Server-side: Describes anything that is done on the Web server.
- CGI: Common Gateway Interface. A protocol that is used for managing the exchange of information between the user, the server, and the Web site owner.
- Script: A portion of programming code that can function in a Web page or on the server, but not as a stand-alone program.
- Applet: A small program that can be embedded in a Web page.
- Well-formed document: A document that uses correct HTML or XHTML syntax.
- Valid document: A document that conforms to a particular DTD (Document Type Definition).
- DTD: Document Type Definition. A standard that identifies the elements, attributes, and values that comprise HTML, XHTML, XML, or any other language created with SGML.
- W3C: The World Wide Web Consortium. The group responsible for establishing standards for the World Wide Web (www.w3.org).

KHTML DISTINCTIONS

XHTML 1.0 is the current recommendation by the W3C for authoring Web documents. Although it uses the same elements as HTML, there are a number of important distinctions between the two. In particular XHTML is much stricter regarding syntax. The following points are important to remember when writing valid XHTML:

- · Documents must be well-formed (syntactically correct).
- Element and attribute names must be in lowercase
- End tags are required for all non-empty elements.
- Empty elements should be written in a minimized form. E.g.,
.
- Attribute values must always be in quotation marks.
- · All attributes must have values.

Element with content: <elementName attribute="value">Content</elementName>

Ex: LinkName

Empty element: <elementName attribute="value" />

Ex:

NUMBERED (ORDERED) LISTS

- type="I"> displays capital Roman numerals.
- displays small Roman numerals.
 displays capital letters.
- type="a"> displays small letters.
- type="1"> displays Arabic numerals (default).

BULLETED (UNORDERED) LISTS

- type="square"> displays a solid, square bullet.
- displays a solid disc (default).
- displays a circle.

CREATING HYPERLINKS

Text link (internal)

Link to a page on my own site

 Text link (external) Link to someone else's site

Image link (internal)

Image link (external, with blue border turned off)

<img src="button2.gif" border="0" width="50"</p> height="20" alt="Other guy's site" />

· Email (mailto) link

Send me a greeting

CREATING TABLES

Row 1 Cell 1Row 1 Cell 2 Row 2 Cell 1Row 2 Cell 2

Use the element to create a table, the element to define rows, and the element to create cells. To create a dynamic table that resizes according to the browser window size, use % values in the width and/or height attributes.

CONSTRUCTING FORMS

Identify where the form information will be sent.

<form action="mailto:name@emailaddress.com" method="post">

Create a text box.

Name <input type="text" name="name" size="20" maxlength="40" />

· Create a text input area.

Enter text: <textarea name="response" rows="5" cols="25"> </textarea>

Offer a choice of one item with radio buttons.

Choice 1: <input type="radio" name="choices" value="choice 1"
 checked="checked" />

Choice 2: cinput type="radio" name="choices" value="choice 2" />
choice 3: <input type="radio" name="choices" value="choice 3" />

Offer multiple choices with check boxes.

<input type="checkbox" name="selections" value="selection1" />Selection 1&br />
<input type="checkbox" name="selections" value="selection2" />Selection 2&br />
<input type="checkbox" name="selections" value="selection3" />Selection 3&br />

 Use the select and option elements to create a scrolling list box (size attribute value greater than 1) or a pull-down menu (size attribute value of 1).

<select name="pulldownmenu" size="3">
<option value="firstitem">First Item</option>

<option value="seconditem">Second Item</option>

<option value="thirditem">Third Item</option> <option value="fourthitem">Fourth Item</option> </select>

Use the "password" attribute to create a password field.

<input type="password" size="15" /:</pre>

· Use the "submit" and "reset" attributes to create submit/reset buttons

<input type="submit" />
 <input type="reset" />

CREATING A FRAMESET PAGE

<html>

<head><title>Frameset Page</title></head>

<frameset cols="25%,75%">

<frame src="document_a.htm" /> <frame src="document_b.htm" />

</frameset>

</html>

Note: For the frameset page to display properly, the corresponding frame documents must also be created (in this case, document_a.htm and document_b.htm).

APPLYING STYLE SHEETS · Link to an external style sheet:

<heads

<link rel="stylesheet" type="text/css" href="stylesheetdoc.css" /> </head>

· Embed a style sheet:

<head>

<style type="text/css">

selector {property: value;} selector {property: value;}

</style>

</head>

· Apply style inline:

Formatted text

<script type="text/javascript"> <!--</pre> document.write ("This is fun");

-> </script>

The script can be placed in the <head> of the document or in the body. It can also exist as a separate document on the server. To link to an external script, you must add the attribute src="document.js" to the opening script tag.

HTML ELEMENTS

| ELEMENT NAME | SYNTAX | FUNCTION |
|-------------------------|----------------------------------|---|
| Abbreviation | <abbr> </abbr> | Identifies abbreviated text |
| Acronym | <acronym> </acronym> | Identifies acronyms |
| Anchor | <a> | Creates links |
| Area | <area/> | Defines hot spots in client-side image maps |
| Attribution information | <address> </address> | Identifies author and contact information |
| Base URL | <box></box> | Identifies a base URL for a document |
| Bidirectional algorithm | <bdo> </bdo> | Overrides the directionality of language characters |
| Big text | | Makes text one size larger than default |

HTML ATTRIBUTES (continued)

| ATTRIBUTE NAME | ELEMENTS IT WORKS WITH | VALUE TYPES | FUNCTION |
|-------------------|---|-------------|--------------------------------------|
| src | | URI | Identifies the URI of image to embed |
| src | <script></td><td>URI</td><td>Identifies the URI for an external script</td></tr><tr><td>standby</td><td><object></td><td>Text</td><td>Contains a message to display while loading an object</td></tr><tr><td>style</td><td>All except: <base>, </td><td>Slyle rules</td><td>Contains associated style information</td></tr><tr><td>summary</td><td></td><td>Text</td><td>Identifies the purpose/structure of a table for speech output</td></tr><tr><td>tabindex</td><td><a>>, <area>, <button>, <input>, <object>, <select>, <textarea></td><td>Number</td><td>Specifies tabbing order for form fields</td></tr><tr><td>target</td><td><a>>, <area>, <base>, <form>, <link></td><td>Frame name or _blank, _parent, _self, or _top</td><td>Identifies a frame or browser window in which content is to be rendered</td></tr><tr><td>title</td><td>All except: <base>, <meta>, <pre>, <pre>coript>, <title></pre></td><td>Text</td><td>Assigns an advisory title to an element</td></tr><tr><td>type</td><td><a>>, link></td><td>Media type (RFC2045)</td><td>Identifies advisory content type</td></tr><tr><td>type</td><td><button></td><td>button submit reset</td><td>Defines the function of a form button</td></tr><tr><td>type</td><td><input></td><td>text password checkbox radio submit reset file hidden image button</td><td>Defines the kind of input that is needed for a form field</td></tr><tr><td>type</td><td><</td><td>disc square circle or 1 a A i I</td><td>Specifies a list item style</td></tr></tbody></table></script> | | |

| type | <object></object> | Media type (RFC2045) | Identifies content type for object data |
|------|---|----------------------|---|
| type | | 1 0 A i 1 | Specifies numbering style in an ordered list |
| type | <param/> | Media type (RFC2045) | Identifies content type for value when valuetype="ref" |
| type | <script></td><td>Media type (RFC2045)</td><td>Identifies content type of script language</td></tr><tr><td>type</td><td><slyle></td><td>Media type (RFC2045)</td><td>Identifies content type of style language</td></tr><tr><td>type</td><td><l</td><td>disc square circle</td><td>Specifies bullet style in an unordered list</td></tr><tr><td>usemap</td><td>, <input>, <object></td><td>URI</td><td>Instructs user agent to use a client-side image map</td></tr><tr><td>valign</td><td><col>, <colgroup>, , , <tfoot>, , <thead>,</td><td>top middle bottom baseline</td><td>Specifies vertical alignment in cells</td></tr><tr><td>value</td><td><button></td><td>CDATA</td><td>Specifies a value sent to the server when clicked</td></tr><tr><td>value</td><td><input></td><td>CDATA</td><td>Specifies values for radio buttons and checkboxes in forms</td></tr><tr><td>value</td><td><option></td><td>CDATA</td><td>Specifies a value in a form item</td></tr><tr><td>value</td><td><param></td><td>CDATA</td><td>Specifies the value of a parameter</td></tr><tr><td>valuetype</td><td><param></td><td>data ref object</td><td>Specifies how a value should be interpreted</td></tr><tr><td>width</td><td><col>, <colgroup></td><td>Multiple length</td><td>Specifies width</td></tr><tr><td>width</td><td><iframe>, , <object>,</td><td>Length</td><td>Specifies width</td></tr></tbody></table></script> | | |

CASCADING STYLE SHEETS (CSS) I

KEY CSS TERMS

Selector: Identifies which portions of a document will be affected by the style. Frequently a selector is an HTML ele-

Declaration: Identifies which style is to be applied to a selector (contains both a property and value).

Property: Identifies which characteristic of an element is to be modified (similar to an HTML attribute).

Value: Identifies the specific style to be applied.

Inheritance: The passing of style from a parent element to its children and grandchildren (descendants).

Descendant: An element that is nested inside another element.

Rule: A complete style instruction, including a selector and one or more properties and values.

Text properties: Modify how text is displayed.

Font properties: Modify how fonts are displayed.

Box properties: Modify how margins, borders, and padding are displayed.

Background properties: Set background images and background colors.

Classification properties: Set the display and function characteristics of elements.

Linked style sheet: A style sheet that exists on the server as a separate text document and is linked to a Web page or pages through the link> element.

Embedded style sheet: A style sheet that is contained in the <head> portion of an HTML document, inside the <style> </style> element.

Inline style sheet: A style sheet that is inserted directly into an HTML element through the use of the style attribute.

Cascade: The order of priority a Web browser gives to style sheets. Generally (though not always), this order is as follows: inline styles take priority over embedded styles, and embedded styles take priority over linked styles.

CSS SYNTAX

. Style rule:

selector {property: value; property:

value; property: value;}

selector {

property: value; property: value; property: value

 Specifying a URL: url(picture.gif)

· Adding an !important declaration:

selector {property: value !important;}

(The important declaration will usually prevent a user's styles from overriding your own.)

RELATIVE LENGTH UNITS

Ems: em

Exes: ex

Percentage: % Pixels: px

ABSOLUTE LENGTH UNITS

Centimeters: cm Inches: in

Millimeters: mm

Picas: DC

Points: pt

GENERIC FONTS

Cursive

Fantasy Monospace

Sans-serif

Serif

USEFUL PSEUDO CLASSES

a:link

Determine link appearance.

a:visited

Determine appearance of visited links.

a:active

Determine appearance of active links.

Change appearance of links when a cursor moves over them.

SELECTORS

| Selector | Syntax | |
|----------------------------|---|--|
| Type (element) | body {property: value;} (multiple selectors may be separated by commas) hi h2, h3, h4, h5, h6 {property: value;} | |
| Descendant (contextual) | Selects an element <a boldface"="" href="https://documents.org/lines/spans-span</td></tr><tr><td>Class</td><td colspan=2>Selects an element that contains a corresponding class attributeboldface {property: value;} selects: <pre>p class="> | |
| ID | Selects an element that contains a unique ID attribute, #243 {property: value;} selects: <pre> pid="243"></pre> | |
| Pseudo-class | Selects an element based on a potential con- dition that may occur when a page is viewed. a:visited {color: red;} sets the color | |

of visited links to red.

Pseudo-element Selects an element based on a potential situation in which that element occurs. p:first-line {font-size: 2em} increases the font size of the first line of every paragraph.

TEXT PROPERTIES

| Property | Possible Values |
|-----------------|---|
| color | [color] inherit |
| text-align | left right center justify |
| text-decoration | none underline overline line-through blink inherit |
| text-indent | [length] [percentage] inherit |
| text-transform | capitalize uppercase lowercase none inherit |
| text-shadow | none [color] [length] inherit |
| letter-spacing | normal [length] inherit |
| word-spacing | normal [length] [percentage] inherit |
| vertical-align | baseline sub super top text-top middle bottom text-bottom [percent- gge] [length] inherit |

FONT PROPERTIES

| Property | Possible Values |
|------------------|--|
| font-family | (font name) (generic name) inherit |
| font-size | xx-small x-small small medium large x-large xx-large [length] [percentage larger smaller [relative measurement] inherit |
| font-style | normal italic oblique inherit |
| font-variant | normal small-caps inherit |
| font-weight | normal bold lighter bolder 100 200 300 400 500 600 700 800 900 inherit |
| font-stretch | ultra-condensed extra-condensed con- densed semi-condensed normal semi- expanded expanded extra-expanded ultra-expanded inherit |
| font-size-adjust | [number] none inherit |
| line-height | normal [number] [length] [percentage] |

BACKGROUND PROPERTIES

| Property | Possible Values |
|-----------------------|--|
| background-color | transparent [color value] inheri |
| background-image | none [url] inherit |
| background-repeat | repeat repeat-x repeat-y no- repeat inherit |
| background-attachment | scroll fixed inherit |
| background-position | [percentage] [length{1,2}] [top center bottom] [left center right] inherit |

| Property | Possible Values |
|---------------------|---|
| width | length [percentage] auto inherit |
| height | [length] [percentage] auto inherit |
| clear | none left right both inherit |
| float | left right none Inherit |
| border-top-width | (length) thin medium thick inherit |
| border-bottom-width | [length] thin medium thick inherit |
| border-left-width | length thin medium thick inherit |
| border-right-width | (length) thin medium thick inherit |
| border-width | (length) thin medium thick inherit |
| border-color | (calor value) [color name] transparent inherit |
| border-style | none hidden dotted dashed salid dou- ble groove ridge inset outset inherit |
| margin-top | (length) (percentage) auto inherit |
| margin-right | (length) [percentage] auto inherit |
| margin-bottom | [length] [percentage] auto inherit |
| margin-left | (length) (percentage) auto inherit |
| padding-top | length [percentage] inherit |
| padding-right | length [percentage] inherit |

| padding-bottom | (length) [percentage] inherit |
|---------------------|---|
| padding-left | (length) [percentage] inherit |
| CLASSIFICATI | ON PROPERTIES |
| Property | Possible Values |
| display | block inline list-item run-in compact marker table inline-table table-row-group table-header-group table-footer-group table-row table-column-group table-column table-cell table-caption none inherit |
| list-style-type | disc circle square decimal lower-roman upper-roman lower-alpha upper-alpha none inherit |
| list-style-image | url none inherit |
| list-style-position | inside outside inherit |
| white-space | normal pre nowrap inherit |

[background-color || background-image || background-repeat || background-attachment || background-position] | inherit

| font | (font-weight) (font-style) (font-variant) (font-size) Iline-height) (font-family) caption icon menu message-box small- caption status-bar inherit |
|--------------------------------------|--|
| border | [border-width] [border-style] color inherit |
| border-(top, right, bottom, left) | [border-width] [border-style] color inherit |
| margin | margin-width {1,4} inherit |
| padding | padding-width {1,4} inherit |

- When adding values with the border, margin, and padding shorthand properties, the syntax is as follows:
- 1. If a single value is supplied, it applies to all four sides.
- If two values are supplied, they apply to the top and bottom, respectively.
- If three values are supplied, the first and third apply to the top and bottom; the second applies to both the right and left sides.
- If four values are supplied, they apply to the top, right, bottom, and left sides respectively.

ADDING COLOR TO WEB PAGES

METHODS FOR CODING COLOR

- Name (sixteen basic colors only): white
- · Netscape Named (not all browsers support): lemonchiffon
- Hexadecimal: #ffffff
- . Short hex: #fff [CSS only]
- rgb(decimal): rgb(255, 255, 255) [CSS only]
- rgb(%): rgb(100%, 100%, 100%) [CSS only]

APPLYING COLOR WITH HTML (DEPRECATED)

- 1. The bgcolor attribute controls background color:
- · Accepts name, Netscape name, or hexadecimal code.
- May be used with <body>, , , , and
- Syntax:
- <body bgcolor="red">
- 2. The color attribute controls text color:
- · Accepts name, Netscape name, or hexadecimal code.
- May be used with the and <basefont> elements.
- Syntax:
 - <fort color="blue"> <basefort color="#0000ff">

APPLYING COLOR WITH CSS

- 1. The background-color property:
- Accepts colors by name, hexadecimal code, short hex, rgb(decimal), and rgb(%).
- · May be used with any element (selector).
- Syntax:

body {background-color: green;}
table {background-color: #00ff00;}
p {background-color: #0f0;}

div {background-color: rgb(0,255,0);}
span {background-color: rgb(0%,100%,0%);}

2. The color property:

background

- Controls foreground (usually text) color.
- Accepts colors by name, hexadecimal code, short hex, rgb(decimal), and rgb(%).
- · May be used with any element (selector).
- · Syntax:

p {color: black;}
td {color: #00000;}
body {color: #000;}
div {color: rgb(0,0,0,);}
span {color: rgb(0%,0%,0%);}

THE SIXTEEN BASIC COLORS

See chart in next column.

THE WEB SAFE COLORS

LETTERS AND NUMERALS

Non-dithering or *Web safe* colors are constructed using combinations of red, green, and blue in amounts of 0%, 20%, 40%, 60%, 80%, 100%. These values must be expressed in hexadecimal if you are using the HTML *bgcolor* attribute, but may be written in short hex, rgb(decimal), and rgb(%), in CSS.

THE WEB SAFE COLOR PERCENTAGES

| Percent | Hexadecimal | Short Hex | Numerical Value |
|---------|-------------|-----------|-----------------|
| 0% | 00 | 0 | 0 |
| 20% | 33 | 3 | 51 |
| 40% | 66 | 6 | 102 |
| 60% | 99 | 9 | 153 |
| 80% | CC | C | 204 |
| 100% | FF | F | 255 |
| | | | |



SPECIAL CHARACTERS (ENTITIES)

DEFINITION

Character entities are case sensitive combinations of letters and numbers that represent a specific character or letter. For example, ® and ® both represent the registered trademark symbol, ®. Every character in the ISO 8859 Latin 1 Character Set has a numeric reference like ®, but only certain characters have character references like ®.

USE

 Inserting special characters: Entities may be used to insert special characters into your Web page. For example, if you want to represent an amount of money using the Pound (£), you could use either a character entity or numeric entity to represent the pound symbol:

Item price: £ 2.5

or

Item price: £2.5.

In either case, the text will display: Item price: £2.5.

2. Escaping out characters: Some characters, such as the "less than" and "greater than" signs, can cause problems with your pages if you simply type them in from the keyboard. This is because a browser might confuse those characters with HTML, CSS, or JavaScript code. To avoid this problem, you need to escape out those characters by using entities. For example, if you are designing an HTML tutorial page and wish to represent the tag, you would need to write it either as

<table>

or as

< table>

SYNTAX

- All entities are case-sensitive.
- All entities must begin with an & (ampersand).
- All entities must end with a ; (semicolon).
- Numeric entities must have a # (crosshatch) before the entity number.

| A | A | a | a | 0 | 0 |
|---|---|-----|----|---|-------|
| В | B | b | b | 1 | 8#49; |
| С | C | c | c | 2 | 2 |
| D | D | d | d | 3 | 3 |
| E | E | е | e | 4 | 4 |
| F | F | f | f | 5 | 5 |
| G | G | g | g | 6 | 6 |
| H | H | h | h | 7 | 7 |
| 1 | I | - 1 | i | 8 | 8 |
| J | J | 1 | j | 9 | 9 |
| K | K | k | k | | |
| L | L | -1 | l: | | |
| M | M | m | m | | |
| N | N | n | n | | |
| 0 | O | 0 | o | | |
| P | P | Р | p | | |
| Q | Q | q | q | | |
| R | R | (r) | r | | |
| s | S | 5 | s | | |
| T | T | 1 | t | | |
| U | U | U | u | | |
| ٧ | V | ٧ | v | | |
| w | W | w | w | | |
| X | X | × | x | | |
| Υ | Y | У | y | | |
| Z | Z | z | z | | |

| PUNCTUATION AND SYMBOLS | | | | | |
|-------------------------|--------|-------|---|--|--|
| Normal space | (none) | | | | |
| Exclamation point | 1 | ! | | | |
| Quotation mark | | " | " | | |
| Hash mark | # | 8#35: | | | |

| Dollar sign | 5 | \$ | |
|---------------------------|--------|----|------|
| Percent sign | % | % | |
| Ampersand | & | & | & |
| Apostrophe | * | ' | |
| Parenthesis (left) | t . | (| |
| Parenthesis (right) | 1- |) | |
| Asterisk | | * | |
| Plus sign | + | + | |
| Comma | | , | |
| Hyphen/minus sign | - | - | |
| Period | 191 | . | |
| Slash | 1 | / | |
| Colon | 5 | : | |
| Semicolon | ; | ; | |
| Less than | < | < | &11; |
| Equal sign | - | = | |
| Greater than | > | > | > |
| Question mark | ? | ? | |
| Commercial "at" sign | 0 | @ | |
| Square bracket (left) | 1 | [| |
| Backslash | 1 | \ | |
| square bracket (right) | 1. |] | |
| Caret | ٨ | ^ | |
| Underscore | - | _ | |
| Grave accent | 11 | ` | |
| Curly brace (left) | - { | { | |
| /ertical bar | Ŭ. | | |
| Curly brace (right) |) | } | |
| filde | - | ~ | |
| Non-breaking space | (none) | | |
| nverted exclamation point | i | ¡ | ¡ |
| Euro sign | € | € | €: |



| Cent sign | C | ¢ | ¢ |
|------------------------|-----|---|---|
| Pound sign | £ | £ | £ |
| Currency sign | 0 | ¤ | ¤ |
| Yen sign | ¥ | ¥ | ¥ |
| Broken vertical bar | 1 | ¦ | ¦ |
| Section sign | § | § | § |
| Umlaut | ** | ¨ | ¨ |
| Copyright symbol | 0 | © | © |
| Feminine ordinal | q | ª | ª |
| Left angle quote | * | « | « |
| Logical not sign | 7 | ¬ | ¬ |
| Soft hyphen | 181 | ­ | ­ |
| Registered trademark | 0 | ® | ® |
| Macron accent | - | ¯ | ¯ |
| Degree sign | ń | ° | ° |
| Plus or minus | ± | ± | ± |
| Superscript two | 2 | ² | ² |
| Superscript three | 3 | ³ | ³ |
| Acute accent | | ´ | ´ |
| Micro sign | р | µ | µ |
| Paragraph sign | 1 | ¶ | ¶ |
| Middle dot | 7 | · | · |
| Cedilla | | ¸ | ¸ |
| Superscript one | 1 | ¹ | ¹ |
| Masculine ordinal | 0 | º | º |
| Right angle quote | 39 | » | » |
| Fraction one-fourth | 7/4 | ¼ | ¼ |
| Fraction one-half | 1/2 | ½ | ½ |
| Fraction three-fourths | 3/4 | ¾ | ¾ |
| Inverted question mark | ٤ | ¿ | ¿ |
| Multiplication sign | × | × | × |
| Division sign | ÷ | ÷ | ÷ |

| MISCELLANEOUS SPECIAL CHARACTERS | | | | |
|----------------------------------|---|---|---|--|
| Capital A (grave accent) | À | À | À | |
| Capital A (acute accent) | Á | Á | Á | |
| Capital A (circumflex accent) | Ā | Â | Â | |

| Capital A (tilde) | Ā | Ã | Ã |
|--------------------------------|----|------------|---------|
| apital A (umlaut) | Ä | Ä | Ä |
| apital A (ring) | Å | Å | Å |
| apital AE (ligature) | Æ | Æ | Æ |
| apital C (cedilla) | Ç | Ç | Ç |
| apital E (grave accent) | È | È | È |
| apital E (acute accent) | É | É | É |
| apital E (circumflex ccent) | Ē | Ê | Ê |
| apital E (umlaut) | Ë | Ë | Ë |
| apital I (grave accent) | Ţ | Ì | &lgrave |
| apital I (acute accent) | î. | Í | ĺ |
| apital I (circumflex ccent) | 1 | Î | Î |
| apital I (umlaut) | î | Ï | &luml |
| apital ETH (Icelandic) | Đ | Ð | Ð |
| apital N (tilde) | Ñ | Ñ | Ñ |
| apital O (grave accent) | Ò | Ò | Ò |
| apital O (acute accent) | Ó | Ó | Ó |
| apital O (circumflex | Ō | Ô | Ô |
| capital O (tilde) | Ō | Õ | Õ |
| apital O (umlaut) | Ö | Ö | Ö |
| apital O (slash) | Ø | Ø | Ø |
| apital U (grave) | Ù | Ù | Ù |
| apital U (acute) | Ú | Ú | Ú |
| apital U (circumflex) | 0 | Û | Û |
| apital U (umlaut) | Ü | Ü | Ü |
| apital Y (acute) | Ý | Ý | Ý |
| apital Thorn (Icelandic) | þ | Þ ; | Þ |
| mall sz (ligature, erman) | В | ß | ß |
| mall a (grave accent) | à | à | à |
| mall a (acute accent) | à | á | á |
| mall a (circumflex ccent) | â | â | â |
| imall a (tilde) | ā | ã | ã |
| mall a (umlaut) | ä | ä | ä |
| mall a (ring) | à | å: | å |

| Small ae (ligature) | Œ | æ | æ |
|--------------------------------|----|----|----|
| Small c (cedilla) | ç | ç | ç |
| Small e (grave accent) | ė | è | è |
| Small e (acute accent) | ě | é | é |
| Small e (circumflex accent) | ê | ê | ê |
| Small e (umlaut) | ě | ë | ë |
| Small i (grave accent) | î | ì | ì |
| Small i (acute accent) | Ţ | í | í |
| Small i (circumflex accent) | I | î | î |
| Small i (umlaut) | 7 | ï | ï |
| Small eth (Icelandic) | ð | ð | ð |
| Small n (tilde) | ñ | ñ | ñ |
| Small o (grave accent) | ô | ò | ò |
| Small o (acute accent) | ó | ó | ó |
| Small o (circumflex accent) | ō | ô | ô |
| Small o (tilde) | ō | õ | õ |
| Small o (umlaut) | ŏ | ö | ö |
| Small o (slash) | ø | ø | ø |
| Small u (grave accent) | ù | ù | ù |
| Small u (acute accent) | Ú | ú | ú |
| Small v (circumflex accent) | 0 | û | û |
| Small v (vmlavt) | Ü | ü | ü |
| Small y (acute accent) | ý | ý | ý |
| Small thorn (Icelandic) | þ | þ | þ |
| Small y (umlaut) | ÿ | ÿ | ÿ |
| Left arrow | + | ← | ← |
| Up arrow | 1 | ↑ | ↑ |
| Right arrow | - | → | → |
| Down arrow | 1 | ↓ | ↓ |
| Horizontal arrow | ** | ↔ | ↔ |
| Spade suit (black) | | ♠ | ♠ |
| Club suit (black) | | ♣ | ♣ |
| Heart suit (black) | * | ♥ | ♥ |
| Diamond suit (black) | | ♦: | ♦: |