# **HTML**

### WHAT IS HTML?

HTML is a language for describing web pages.

HTML stands for Hyper Text Markup Language

HTML is not a programming language, it is a markup language

A markup language is a set of markup tags

The markup tags describe how text should be displayed

# HTML MARKUP TAGS

HTML markup tags are usually called HTML tags

HTML tags are keywords surrounded by **angle brackets** like <html>

HTML tags normally **come in pairs** like <b> and </b>

The first tag in a pair is the **start tag**, the second tag is the **end tag** 

**Note:** The start and end tags are also called the opening and closing tags.

# WHAT IS AN HTML FILE

-An HTML file is a text file with HTML tags

-An HTML file name must end with .htm or .html

-An HTML file can be created using a **simple text** editor

-An HTML file is often called an **HTML document** or a **Web Page** 

# **HTM or HTML EXTENSION**

When you save an HTML file, you can use either the .htm or the .html extension. We use .htm in our examples. It is a habit from the past when commonly used software allowed only three letters in file extensions. With newer software it is perfectly safe to use .html.

# **BASIC HTML TAGS**

# **EXAMPLE**

- <html>
- <body>

The content of the body element is displayed in your browser.

- </body>
- </html>

The content of the body element is displayed in your browser.

### HTML PARAGRAPHS

<html> <body> This is a paragraph. This is a paragraph. This is a paragraph. Paragraph elements are defined by the p tag. </body> </html>

This is a paragraph.

This is a paragraph.

This is a paragraph.

Paragraph elements are defined by the p tag.

# **HTML HEADINGS**

Headings are defined with the <h1> to <h6> tags. <h1> defines the largest heading. <h6> defines the smallest heading.

- <h1>This is a heading </h1>
- <h2>This is a heading </h2>
- <h3>This is a heading </h3>

# Result:

This is a heading
This is a heading
This is a heading

HTML automatically displays an empty line before and after headings.

### **EXAMPLE**

```
<html>
<body>
<h1>This is heading 1</h1>
<h2>This is heading 2</h2>
<h3>This is heading 3</h3>
<h4>This is heading 4</h4>
<h5>This is heading 5</h5>
<h6>This is heading 6</h6>
Use heading tags only for headings.
Don't use them to make something <b>BIG or BOLD</b>.
Use other tags for that.
</body>
</html>
```

This is heading 1

This is heading 2

This is heading 3

This is heading 4

This is heading 5

This is heading 6

Use heading tags only for headings. Don't use them to make something **BIG or BOLD**. Use other tags for that.

### HTML PARAGRAPHS

Paragraphs are defined with the tag.

This is a paragraph

This is another paragraph

HTML automatically displays an empty line before and after a paragraph.

#### **EXAMPLE**

```
<html>
<body>
This is a paragraph.
This is a paragraph.
This is a paragraph.
Paragraph elements are defined by the p
tag.
</body>
</html>
```

This is a paragraph.

This is a paragraph.

This is a paragraph.

Paragraph elements are defined by the p tag.

# HTML LINE BREAKS

Use the <br/>br> tag if you want a line break (a new line) without starting a new paragraph:

This is<br/>praq<br/>prage with line breaks

The <br/>br> tag is an empty tag. It has no end tag like </br>.

### HTML COMMENTS

Comments can be inserted in the HTML code to make it more readable and understandable. Comments are ignored by the browser and not displayed.

Comments are written like this:

<!-- This is a comment -->

**Note:** There is an exclamation point after the opening bracket, but not before the closing bracket.

### **EXAMPLE**

- <html>
- <body>

- <!--This comment will not be displayed-->
- This is a regular paragraph
- </body>
- </html>

This is a regular paragraph

### **EXAMPLE**

```
<html>
<body>
>
  My Bonnie lies over the ocean.
  My Bonnie lies over the sea.
  My Bonnie lies over the ocean.
  Oh, bring back my Bonnie to me.
Note that your browser ignores your layout!
</body>
</html>
```

My Bonnie lies over the ocean. My Bonnie lies over the sea. My Bonnie lies over the ocean. Oh, bring back my Bonnie to me.

Note that your browser ignores your layout!

# **HOW TO VIEW HTML SOURCE**

Have you ever seen a Web page and wondered "Hey! How did they do that?"

To find out, click the VIEW option in your browser's toolbar and select SOURCE or PAGE SOURCE. This will open a window that shows you the HTML code of the page.

# HORIZONTAL RULE

This example demonstrates how to insert a horizontal rule.

```
<html>
<body>
The hr tag defines a horizontal rule:
<hr>
This is a paragraph
<hr>
This is a paragraph
<hr>
This is a paragraph
</body>
</html>
```

The hr tag defines a horizontal rule:

This is a paragraph

This is a paragraph

This is a paragraph

# Revision

Tag	Description	
<html></html>	Defines an HTML document	
<body></body>	Defines the document's body	
<h1> to <h6></h6></h1>	Defines header 1 to header 6	
	Defines a paragraph	
 br>	Inserts a single line break	
<hr/>	Defines a horizontal rule	
	Defines a comment	

# **HTML ELEMENT**

An HTML Element		
Start	Element	ContentEnd
<	This is a paragraph	

### WHY LOWERCASE TAGS?

HTML tags are not case sensitive:

<P> means the same as .

Plenty of web sites use uppercase HTML tags in their pages.

**Recommends** lowercase in HTML 4, and **demands** lowercase tags in newer versions of (X)HTML.

# **HTML ATTRIBUTES**

Attributes provide additional information about HTML elements.

### HTML ATTRIBUTES

HTML tags can have attributes. Attributes provide additional information about the HTML element.

Attributes always come in name/value pairs like this: name="value".

Attributes are always specified in the start tag of an HTML element.

# **ATTRIBUTES EXAMPLE-1**

<body> defines the body of an HTML
document.

<body bgcolor="yellow"> has additional
information about the background color.

#### **CENTER ALIGNED HEADING**

<html>

<body>

<h1 align="center">This is heading 1</h1>

The heading above is aligned to the center of this page.
The heading above is aligned to the center of this page. The heading above is aligned to the center of this page.

</body>

</html>

# This is heading 1

The heading above is aligned to the center of this page. The heading above is aligned to the center of this page. The heading above is aligned to the center of this page.

# **ATTRIBUTES EXAMPLE-2**

<body> defines the body of an HTML document.

<body bgcolor="yellow"> has additional information
about the background color.

# **EXAMPLE: BACKGROUND COLOR**

```
<html>
<body>
<html>
<h2>Look: Colored Background!</h2>
</body>
</html>
```

LOOK: COLORED BACKGROUND!				

#### **ATTRIBUTES EXAMPLE-3**

defines an HTML table.

has additional information
about the border around the table.

#### HTML TEXT FORMATTING

This text is bold

This text is big

This text is italic

This is computer output

This is and superscript subscript

#### **EXAMPLE**

```
<html>
<body>
<b>This text is bold</b>
<big>This text is big</big>
<i>This text is italic</i>
<code>This is computer output</code>
This is<sub> subscript</sub> and
<sup>superscript</sup>
</body>
</html>
```

#### HTML FORMATTING TAGS

HTML uses tags like <b> and <i> for formatting output, like bold or *italic* text.

These HTML tags are called formatting tags.

#### **EXAMPLE - TEXT FORMATTING**

```
<html>
<body>
<b>This text is bold</b>
<strong>This text is strong</strong>
<big>This text is big</big>
<em>This text is emphasized</em>
<i>This text is italic</i>
<small>This text is small</small>
This is<sub> subscript</sub> and <sup>superscript</sup>
</body>
</html>
```

This text is bold

This text is strong

This text is big

This text is emphasized

This text is italic

This text is small

This is subscript

and superscript

## **EXAMPLE – PREFORMATTED TEXT**

```
<html>
<body>
<
This is
preformatted text.
It preserves
             both spaces
and line breaks.
The pre tag is good for displaying computer code:
<
for i = 1 to 10
  print i
next i
</body>
</html>
```

This is preformatted text. It preserves both spaces and line breaks.

The pre tag is good for displaying computer code:

```
for i = 1 to 10
print i
next i
```

#### **ADDRESS**

```
<html>
<body>
<address>
Donald Duck<br>
BOX 555<br>
Disneyland<br>
USA
</address>
</body>
</html>
```

Donald Duck BOX 555 Disneyland USA

#### **ABBREVIATIONS AND ACRONYMS**

```
<html>
<body>
<abbr title="United Nations">UN</abbr>
<hr>
<acronym title="World Wide Web">WWW</acronym>
The title attribute is used to show the spelled-out version when
holding the mouse pointer over the acronym or abbreviation.
This only works for the acronym element in IE 5.
This works for both the abbr and acronym element in Netscape
6.2.
</body>
</html>
```

UN WWW

The title attribute is used to show the spelled-out version when holding the mouse pointer over the acronym or abbreviation.

This only works for the acronym element in IE 5.

This works for both the abbr and acronym element in Netscape 6.2.

## **EXAMPLE – QUOTATIONS**

<html> <body> Here comes a long quotation: <blook<br/>duote> This is a long quotation. </blockquote> Here comes a short quotation: <**q>** This is a short quotation </q> > With the block quote element, the browser inserts line breaks and margins, but the q element does not render as anything special. </body> </html>

Here comes a long quotation:

This is a long quotation. This is a long quotation.

Here comes a short quotation: This is a short quotation

With the block quote element, the browser inserts line breaks and margins, but the q element does not render as anything special.

#### **DELETED AND INSERTED TEXT**

```
<html>
<body>
>
a dozen is
<del>twenty</del>
<ins>twelve</ins>
pieces
>
Most browsers will overstrike deleted text and underline inserted text.
>
Some older browsers will display deleted or inserted text as plain text.
</body>
</html>
```

a dozen is twenty twelve pieces

Most browsers will overstrike deleted text and underline inserted text.

Some older browsers will display deleted or inserted text as plain text.

## Revision

Tag	Description		
<u><b></b></u>	Defines bold text		
   	Defines big text		
<u><em></em></u>	Defines emphasized text		
<u>&lt; &gt;</u>	Defines italic text		
<small></small>	Defines small text		
<strong></strong>	Defines strong text		

Tag	Description
<u><sub></sub></u>	Defines subscripted text
<sup></sup>	Defines superscripted text
<ins></ins>	Defines inserted text
<del></del>	Defines deleted text
<u><s></s></u>	Deprecated. Use <del> instead</del>
<strike></strike>	Deprecated. Use <del> instead</del>
<u><u></u></u>	Deprecated. Use styles instead
	5

#### **NON-BREAKING SPACE**

The most common character entity in HTML is the non-breaking space.

Normally HTML will truncate spaces in your text. If you write 10 spaces in your text HTML will remove 9 of them.

To add lots of spaces to your text, use the character entity.

## **COMMONLY USED CHARACTER**

Result	Description	Entity Name	Entity Number
	non-breaking space		<b>&amp;</b> #160;
<	less than	<	<
>	greater than	>	>
&	ampersand	&	<b>&amp;</b> #38;
¢	cent	¢	¢

Result	Description	Entity Name	Entity Number
£	pound	£	<b>&amp;</b> #163;
¥	yen	¥	<b>&amp;</b> #165;
€	euro	€	<b>&amp;</b> #8364;
§	section	§	<b>&amp;</b> #167;
©	copyright	©	<b>&amp;</b> #169;
®	registered trademark	®	<b>®</b> ;

## **HTML LINKS**

HTML uses a hyperlink to link to another document on the Web.

#### **EXAMPLES**

## Create hyperlinks

This example demonstrates how to create links in an HTML document.

## An image as a link

This example demonstrates how to use an image as a link.

#### **EXAMPLE - CREATE HYPERLINKS**

```
<html>
<body>
>
<a href="lastpage.htm">
This text</a> is a link to a page on
this Web site.
>
<a href="http://www.microsoft.com/">
This text</a> is a link to a page on
the World Wide Web.
</body>
</html>
```

This text is a link to a page on this Web site.

This text is a link to a page on the World Wide Web.

#### AN IMAGE AS A LINK

```
<html>
<body>
>
You can also use an image as a link:
<a href="lastpage.htm">
<img border="0" src="buttonnext.gif" width="65"
height="38">
</a>
</body>
</html>
```

You can also use an image as a link:



#### THE ANCHOR TAG AND THE href ATTRIBUTE

HTML uses the <a> (anchor) tag to create a link to another document.

An anchor can point to any resource on the Web: an HTML page, an image, a sound file, a movie, etc.

The syntax of creating an anchor:

## THE ANCHOR TAG AND THE Href ATTRIBUTE

<a href="url">Text to be displayed</a>

The <a> tag is used to create an anchor to link from, the href attribute is used to address the document to link to, and the words between the open and close of the anchor tag will be displayed as a hyperlink.

#### THE TARGET ATTRIBUTE

With the target attribute, you can define where the linked document will be opened. The line below will open the document in a new browser window:

<a href= "www.staloysiuscollege.ac.in"
target="\_blank">Visit St.Aloysius College.</a>

# The Anchor Tag and the Name Attribute

The name attribute is used to create a named anchor. When using named anchors we can create links that can jump directly into a specific section on a page, instead of letting the user scroll around to find what he/she is looking for.

Below is the syntax of a named anchor:

<a name="label">Text to be displayed</a>

#### OPEN A LINK IN A NEW BROWSER WINDOW

```
<html>
<body>
<a href="lastpage.htm" target="_blank">Last Page</a>
>
If you set the target attribute of a link to " blank",
the link will open in a new window.
</body>
</html>
```

## **Last Page**

If you set the target attribute of a link to "\_blank", the link will open in a new window.

#### LINK TO A LOCATION ON THE SAME PAGE

```
<html>
<body>
>
<a href="#C4">See also Chapter 4.</a>
<h2>Chapter 1</h2>
This chapter explains ba bla bla
<h2>Chapter 2</h2>
This chapter explains ba bla bla
<h2>Chapter 3</h2>
This chapter explains ba bla bla
</body>
</html>
```

#### See also Chapter 4.

#### **Chapter 1**

This chapter explains ba bla bla

#### **Chapter 2**

This chapter explains ba bla bla

#### **Chapter 3**

This chapter explains ba bla bla

#### CREATE A MAILTO LINK

```
<html>
<body>
>
This is a mail link:
<a href="mailto:someone@microsoft.com?subject=Hello%20again">
Send Mail</a>
>
<b>Note:</b> Spaces between words should be replaced by %20 to
<br/> <b>ensure</b> that the browser will display your text properly.
</body>
</html>
```

This is a mail link: Send Mail

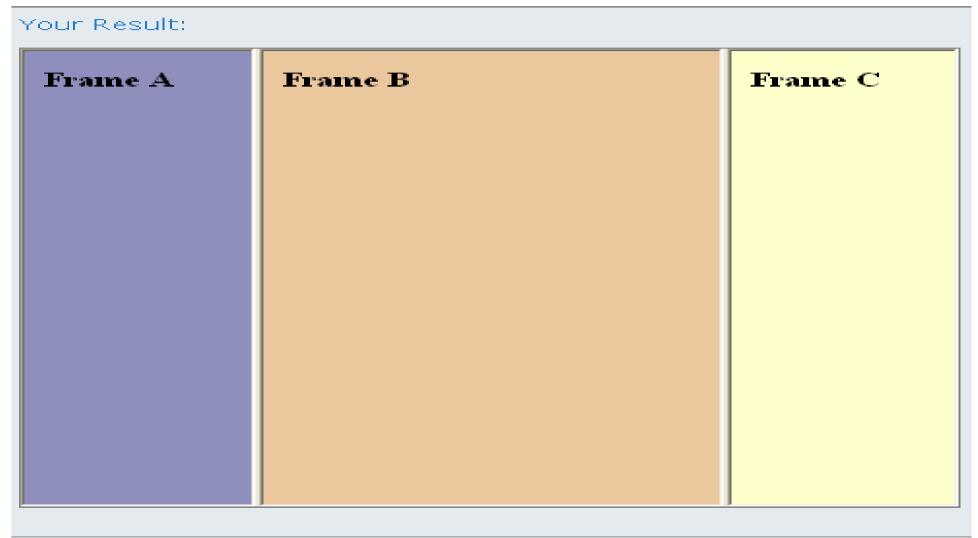
Note: Spaces between words should be replaced by %20 to ensure that the browser will display your text properly.

### **HTML FRAMES**

With frames, you can display more than one Web page in the same browser window.

#### **VERTICAL FRAMESET**

```
<html>
<frameset cols="25%,50%,25%">
 <frame src="frame a.htm">
 <frame src="frame b.htm">
 <frame src="frame c.htm">
</frameset>
</html>
```



#### HORIZONTAL FRAMESET

```
<html>
<frameset rows="25%,50%,25%">
  <frame src="frame a.htm">
  <frame src="frame b.htm">'
  <frame src="frame c.htm">
</frameset>
</html>
```

Frame A
Frame B
Frame C

#### **FRAMES**

With frames, you can display more than one HTML document in the same browser window. Each HTML document is called a frame, and each frame is independent of the others.

The disadvantages of using frames are:

The web developer must keep track of more HTML documents

It is difficult to print the entire page

#### THE FRAMESET TAG

The <frameset> tag defines how to divide the window into frames.

Each frameset defines a set of rows **or** Columns.

The values of the rows/columns indicate the amount of screen area each row/column will occupy.

#### THE FRAME TAG

The <frame> tag defines what HTML document to put into each frame.

In the example below we have a frameset with two columns.

The first column is set to 25% of the width of the browser window. The second column is set to 75% of the width of the browser window. The HTML document "frame\_a.htm" is put into the first column, and the HTML document "frame\_b.htm" is put into the second column:

#### THE FRAME TAG

```
<frameset cols="25%,75%">
    <frame src="frame_a.htm">
    <frame src="frame_b.htm">
    </frameset>
```

**Note:** The frameset column size value can also be set in pixels (cols="200,500"), and one of the columns can be set to use the remaining space (cols="25%,\*").

#### **BASIC NOTES - USEFUL TIPS**

If a frame has visible borders, the user can resize it by dragging the border. To prevent a user from doing this, you can add noresize="noresize" to the <frame> tag.

Add the <noframes> tag for browsers that do not support frames.

Important: You cannot use the <body></body> tags together with the <frameset></frameset> tags! However, if you add a <noframes> tag containing some text for browsers that do not support frames, you will have to enclose the text in <body></body> tags! See how it is done in the first example below.

# HOW TO USE THE <NOFRAMES> TAG

```
<html>
<frameset cols="25%,50%,25%">
  <frame src="frame_a.htm">
  <frame src="frame_b.htm">
  <frame src="frame c.htm">
<noframes>
<body>Your browser does not handle frames!</body>
</noframes>
</frameset>
</html>
```

Frame A	Frame B	Frame C

#### MIXED FRAMESET

```
<html>
<frameset rows="50%,50%">
<frame src="frame a.htm">
<frameset cols="25%,75%">
<frame src="frame b.htm">
<frame src="frame c.htm">
</frameset>
</frameset>
</html>
```

Frame A	
Frame B	Frame C

# FRAMESET WITH NORESIZE'

```
<html>
<frameset rows="50%,50%">
<frame noresize="noresize" src="frame_a.htm">
<frameset cols="25%,75%">
<frame noresize="noresize" src="frame b.htm">
<frame noresize="noresize" src="frame_c.htm">
</frameset>
</frameset>
</html>
```

Frame A	
Frame B	Frame C

#### NAVIGATION FRAME

```
<html>
<frameset cols="120,*">
<frame src="tryhtml_contents.htm">
<frame src="frame_a.htm"</pre>
name="showframe">
</frameset>
</html>
```

<u>Frame a</u> <u>Frame b</u> <u>Frame c</u>	Frame A

# JUMP TO A SPECIFIED SECTION WITHIN A FRAME

```
<html>
```

<frameset cols="20%,80%">

<frame src="frame\_a.htm">

<frame src="link.htm#C10">

</frameset>

</html>

#### Frame A

#### Chapter 1

This chapter explains ba bla bla

#### Chapter 2

This chapter explains ba bla bla

#### Chapter 3

This chapter explains ba bla bla

#### Chapter 4

This chapter explains ba bla bla

#### Chapter 5

This chapter explains ba bla bla

# JUMP TO A SPECIFIED SECTION WITH FRAME NAVIGATION

```
<html>
<frameset cols="180,*">
<frame src="content.htm">
<frame src="link.htm" name="showframe">
</frameset>
</html>
```

<u>Link without Anchor</u> <u>Link with Anchor</u>

#### Chapter 1

This chapter explains ba bla bla

#### Chapter 2

This chapter explains ba bla bla

#### Chapter 3

This chapter explains ba bla bla

#### Chapter 4

This chapter explains ba bla bla

#### Chapter 5

This chapter explains ba bla bla

## FRAME TAGS

Tag	Description
<frameset></frameset>	Defines a set of frames
<frame/>	Defines a sub window (a frame
<noframes></noframes>	Defines a noframe section for browsers that do not handle frames

#### HTML TABLES

With HTML you can create tables.

#### **Examples**

#### <u>Tables</u>

This example demonstrates how to create tables in an HTML document.

Table borders

This example demonstrates different table borders. (You can find more examples at the bottom of this page)

### **EXAMPLE: TABLES**

```
<html>
<body>
>
Each table starts with a table tag.
Each table row starts with a tr tag.
Each table data starts with a td tag.
<h4>One column:</h4>
100
<h4>One row and three columns:</h4>
100
200
```

### **EXAMPLE: TABLES**

```
300
<h4>Two rows and three columns:</h4>
100
200
300
400
500
600
</body>
</html>
```

Each table starts with a table tag. Each table row starts with a tr tag. Each table data starts with a td tag.

#### One column:

100

#### One row and three columns:

100 200 300

#### Two rows and three columns:

100 200 300 400 500 600

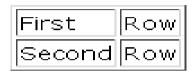
#### TABLE BORDERS

```
<html>
<body>
<h4>With a normal border:</h4>
First
Row
Second
Row
<h4>With a thick border:</h4>
```

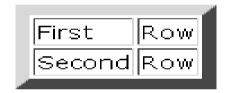
#### TABLE BORDERS

```
First
Row
Second
Row
<h4>With a very thick border:</h4>
First
Row
Second
Row
</body>
</html>
```

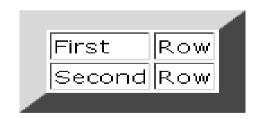
#### With a normal border:



#### With a thick border:



#### With a very thick border:



### **TABLES**

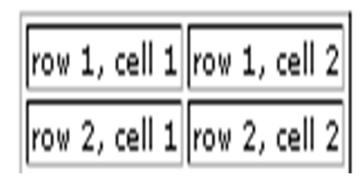
Tables are defined with the tag. A table is divided into rows (with the tag), and each row is divided into data cells (with the tag). The letters td stands for "table data," which is the content of a data cell. A data cell can contain text, images, lists, paragraphs, forms, horizontal rules, tables, etc.

### **TABLES**

```
row 1, cell 1
row 1, cell 2
row 2, cell 1
row 2, cell 2
```

### **TABLES**

How it looks in a browser:



#### TABLES AND THE BORDER ATTRIBUTE

If you do not specify a border attribute the table will be displayed without any borders. Sometimes this can be useful, but most of the time, you want the borders to show. To display a table with borders, you will have to use the border attribute:

```
Row 1, cell 1
```

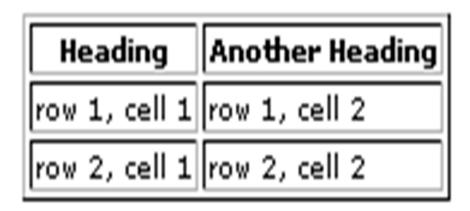
## **HEADINGS IN A TABLE**

Headings in a table are defined with the

```
 tag.
Heading
Another Heading 
row 1, cell 1
row 1, cell 2 
row 2, cell 1
row 2, cell 2
```

## **HEADINGS IN A TABLE**

How it looks in a browser:



### **TABLE WITH NO BORDER**

This example demonstrates a table with no borders.

```
<html>
<body>
<h4>This table has no borders:</h4>
100
200
300
400
500
600
```

### TABLE WITH NO BORDER

```
<h4>And this table has no borders:</h4>
100
200
300
400
500
600
</body>
</html>
```

### This table has no borders:

100 200 300

400 500 600

### And this table has no borders:

100 200 300

400 500 600

## To do....

#### Table headers:

Name	Telephone		Telephone		
Bill Gates	555 77	854	555	フフ	855

#### Vertical headers:

```
First Name: Bill Gates
Telephone: 555 77 854
Telephone: 555 77 855
```

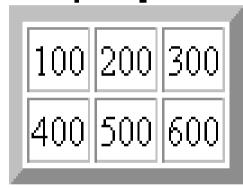
### **TABLE WITH CAPTION**

This example demonstrates a table with a caption.

```
<html>
<body>
<h4>
This table has a caption,
and a thick border:
</h4>
<caption>My Caption</caption>
100
200
300
400</td
500
600
</body>
</html>
```

This table has a caption, and a thick border:

My Caption



# TABLE CELLS THAT SPAN MORE THAN ONE ROW/COLUMN

This example demonstrates how to define table cells that span more than one row or one column.

```
<html>
<body>
<h4>Cell that spans two columns:</h4>
Name
Telephone
Bill Gates
555 77 854
555 77 855
```

# TABLE CELLS THAT SPAN MORE THAN ONE ROW/COLUMN

```
<h4>Cell that spans two rows:</h4>
First Name:
Bill Gates
Telephone:
555 77 854
555 77 855
</body>
</html>
```

### Cell that spans two columns:

Name	Telephone		
Bill Gates	555 77 854	555 77 855	

### Cell that spans two rows:

First Name:	Bill Gates		
Telephone:	555 77 854		
	555 77 855		

#### **CELL PADDING**

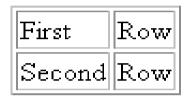
This example demonstrates how to use cell padding to create more white space between the cell content and its borders.

```
<html>
<body>
<h4>Without cellpadding:</h4>
First
Row
Second
Row
```

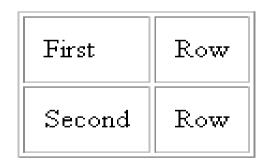
### **EXAMPLE: CELL PADDING**

```
<h4>With cellpadding:</h4>
<table border="1"
cellpadding="10">
First
Row
Second
Row
</body>
</html>
```

#### Without cellpadding:



#### With cellpadding:



### **EXAMPLE: CELL SPACING**

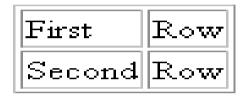
This example demonstrates how to use cellspacing to increase the distance between the cells.

```
<html>
<body>
<h4>Without cellspacing:</h4>
First
Row
Second
Row
```

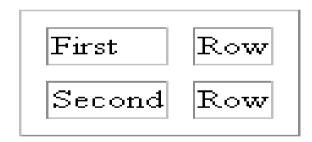
### **EXAMPLE: CELL SPACING**

```
<h4>With cellspacing:</h4>
<table border="1"
cellspacing="10">
First
Row
Second
Row
</body>
</html>
```

#### Without cellspacing:



#### With cellspacing:



# ADD A BACKGROUND COLOR OR A BACKGROUND IMAGE TO A TABLE

This example demonstrates how to add a background to a table.

```
<html>
<body>
<h4>A background color:</h4>
<table border="1"
bgcolor="red">
First
Row
Second
Row
```

# ADD A BACKGROUND COLOR OR A BACKGROUND IMAGE TO A TABLE

```
<h4>A background image:</h4>
<table border="1"
background="bgdesert.jpg">
First
Row
Second
Row
</body>
</html>
```

#### A background color:



#### A background image:



# ADD A BACKGROUND COLOR OR A BACKGROUND IMAGE TO A TABLE CELL

This example demonstrates how to add a background to one or more table cells.

```
<html>
<body>
<h4>Cell backgrounds:</h4>
First
Row
<td
background="bgdesert.jpg">
Second
Row
</body>
</html>
```

### Cell backgrounds:



#### ALIGN THE CONTENT IN A TABLE CELL

This example demonstrates how to use the "align" attribute to align the content of cells, to create a "nice-looking" table.

```
<html>
<body>
Money spent on....
January
February
Clothes
$241.10
$50.20
```

#### ALIGN THE CONTENT IN A TABLE CELL

```
Make-Up
$30.00
$44.45
Food
$730.40
$650.00
Sum
$1001.50
$744.65
</body>
</html>
```

# To Do..

Money spent on	January	February	
Clothes	\$241.10	\$50.20	
Make-Up	\$30.00	\$44.45	
Food	\$730.40	\$650.00	
Sum	\$1001.50	\$744.65	

### **HTML LIST**

HTML supports

An unordered list
An ordered list
An defination list

### AN UNORDERED LIST

```
<html>
<body>
<h4>An Unordered List:</h4>
<l
Coffee
Tea
Milk
</body>
</html>
```

### **An Unordered List:**

- Coffee
- Tea
- Milk

### **AN ORDERED LIST**

```
<html>
<body>
<h4>An Ordered List:</h4>
<0|>
Coffee
Tea
 <|i>Milk</|i>
</0|>
</body>
</html>
```

### **An Ordered List:**

- 1.Coffee
- 2.Tea
- 3. Milk

### **DEFINITION LISTS**

A definition list is **not** a list of items. This is a list of terms and explanation of the terms.

A definition list starts with the <dl> tag. Each definition-list term starts with the <dt> tag.

Each definition-list definition starts with the <dd> tag.

```
<dl>
<dl>
<dt>Coffee</dt>
<dd>Black hot drink</dd>
<dt>Milk</dt>
<dt>Milk</dt>
<dd>White cold drink</dd>
</dl>
```

### **DEFINITION LISTS**

Here is how it looks in a browser:

Coffee

Black hot drink

Milk

White cold drink

### DIFFERENT TYPES OF ORDERED LISTS

This example demonstrates different types of ordered lists.

```
<html>
<body>
<h4>Numbered list:</h4>
<0|>
Apples
Bananas
Lemons
Oranges
</0|>
```

### **Numbered list:**

- 1. Apples
- 2.Bananas
- 3.Lemons
- 4.Oranges

# DIFFERENT TYPES OF ORDERED LISTS

```
<h4>Letters list:</h4>
Apples
Bananas
Lemons
Oranges
</0|>
```

### **Letters list:**

- A. Apples
- B. Bananas
- C. Lemons
- D. Oranges

# DIFFERENT TYPES OF ORDERED LISTS

- <h4>Lowercase letters list:</h4>
- - Apples
  - Bananas
  - Lemons
- Oranges
- </0|>

#### **Lowercase letters list:**

- a. Apples
- b. Bananas
- c. Lemons
- c. Oranges

# DIFFERENT TYPES OF ORDERED LISTS

```
<h4>Roman numbers list:</h4>
Apples
Bananas
Lemons
Oranges
</0|>
```

#### Roman numbers list:

- I. Apples
- II. Bananas
- III. Lemons
- IV. Oranges

# DIFFERENT TYPES OF ORDERED LISTS

```
<h4>Lowercase Roman numbers list:</h4>
Apples
Bananas
Lemons
Oranges
</0|>
</body>
</html>
```

#### **Lowercase Roman numbers list:**

- i. Apples
- ii. Bananas
- iii. Lemons
- iv. Oranges

# DIFFERENT TYPES OF UNORDERED LISTS

This example demonstrates different types of unordered lists.

```
<html>
<body>
<h4>Disc bullets list:</h4>
Apples
Bananas
Lemons
Oranges
```

## Disc bullets list:

- Apples
- Bananas
- Lemons
- Oranges

# DIFFERENT TYPES OF UNORDERED LISTS

### Circle bullets list:

- Apples
- o Bananas
- o Lemons
- Oranges

# DIFFERENT TYPES OF UNORDERED LISTS

```
<h4>Square bullets list:</h4>
Apples
Bananas
Lemons
Oranges
</body>
</html>
```

## Square bullets list:

- Apples
- Bananas
- Lemons
- Oranges

# To do..

#### A nested List:

- Coffee
- Tea
  - Black tea
  - o Green tea
- Milk.

# To do...

#### A nested List:

- Coffee
- Tea
  - Black tea
  - Green tea
    - China
    - Africa
- Milk

## Revision

Tag	Description
<0 >	Defines an ordered list
<u><ul></ul></u>	Defines an unordered list
<u>&lt; i&gt;</u>	Defines a list item
<u><dl></dl></u>	Defines a definition list

## **LIST TAGS**

Tag	Description
<u><dt></dt></u>	Defines a definition term
<u><dd></dd></u>	Defines a definition description

#### HTML FORMS AND INPUT

HTML Forms are used to select different kinds of user input.

#### **Examples**

#### Text fields

This example demonstrates how to create text fields on an HTML page. A user can write text in a text field.

Password fields

This example demonstrates how to create a password field on an HTML page.

#### **EXAMPLE: TEXT FIELDS**

```
<html>
<body>
<form action="">
First name:
<input type="text" name="firstname">
<br>
Last name:
<input type="text" name="lastname">
</form>
</body>
</html>
```

First name:	
Last name:	

#### PASSWORD FIELDS

```
<html>
<body>
<form action="">
Username:
<input type="text" name="user">
<br>
Password:
<input type="password" name="password">
</form>
>
Note that when you type characters in a password field, the
browser displays asterisks or bullets instead of the
characters.
</body>
</html>
```

Username:	
Password:	

Note that when you type characters in a password field, the browser displays asterisks or bullets instead of the characters.

### **FORMS**

A form is an area that can contain form elements.

Form elements are elements that allow the user to enter information (like text fields, textarea fields, drop-down menus, radio buttons, checkboxes, etc.) in a form.

A form is defined with the <form> tag.

- <form>
- <input>
- </input>
- </form>

#### **INPUT**

The most used form tag is the <input> tag. The type of input is specified with the type attribute. The most commonly used input types are explained below.

### **TEXT FIELDS**

Text fields are used when you want the user to type letters, numbers, etc. in a form.

```
<form>
First name:
<input type="text" name="firstname">
    <br>
    Last name:
    <input type="text" name="lastname">
    </form>
```

### **TEXT FIELDS**

How it looks in a browser:

First name:

Last name:

Note that the form itself is not visible. Also note that in most browsers, the width of the text field is 20 characters by default.

### **RADIO BUTTONS**

Radio Buttons are used when you want the user to select one of a limited number of choices.

```
<form>
<input type="radio" name="sex" value="male"> Male
<br>
<br>
<input type="radio" name="sex" value="female"> Female
</form>
```

### **RADIO BUTTONS**

How it looks in a browser:

- Male
- Female

Note that only one option can be chosen.

### **CHECKBOXES**

Checkboxes are used when you want the user to select one or more options of a limited number of choices.

```
<form>
I have a bike:
<input type="checkbox" name="vehicle" value="Bike">
<br>
I have a car:
<input type="checkbox" name="vehicle" value="Car">
<br>
I have an airplane:
<input type="checkbox" name="vehicle" value="Airplane">
</form>
```

## **CHECKBOXES**

How it looks in a browser:

- I have a bike: 🔲
- I have a car:
- I have an airplane:

# THE FORM'S ACTION ATTRIBUT AND THE SUBMIT BUTTON

When the user clicks on the "Submit" button, the content of the form is sent to the server. The form's action attribute defines the name of the file to send the content to. The file defined in the action attribute usually does something with the received input.

```
<form name="input" action="html_form_submit.jsp"
method="get">
Username:
<input type="text" name="user">
<input type="submit" value="Submit">
</form>
```

# THE FORM'S ACTION ATTRIBUT AND THE SUBMIT BUTTON

How it looks in a browser:

Username:	Submit

If you type some characters in the text field above, and click the "Submit" button, the browser will send your input to a page called "html\_form\_submit.jsp". The page will show you the received input.

#### SIMPLE DROP DOWN BOX

This example demonstrates how to create a simple drop-down box on an HTML page. A drop-down box is a selectable list.

```
<html>
<body>
<form action="">
<select name="cars">
<option value="volvo">Volvo</option>
<option value="saab">Saab</option>
<option value="fiat">Fiat</option>
<option value="audi">Audi</option>
</select>
</form>
</body>
</html>
```



#### ANOTHER DROP DOWN BOX

This example demonstrates how to create a simple dropdown box with a pre-selected value.

```
<html>
<body>
<form action="">
<select name="cars">
<option value="volvo">Volvo</option>
<option value="saab">Saab</option>
<option value="fiat" selected="selected">Fiat</option>
<option value="audi">Audi</option>
</select>
</form>
</body>
</html>
```



#### **EXAMPLE: TEXTAREA**

This example demonstrates how to create a text-area (a multi-line text input control). A user can write text in the text-area. In a text-area you can write an unlimited number of characters.

```
<html>
<body>

This example cannot be edited
because our editor uses a textarea
for input,
and your browser does not allow
a textarea inside a textarea.

<textarea rows="10" cols="30">
The cat was playing in the garden.
</body>
```

This example cannot be edited because our editor uses a textarea for input, and your browser does not allow a textarea inside a textarea.

The cat was playing in the garden.

#### **CREAT A BUTTON**

This example demonstrates how to create a button. On the button you can define your own text.

```
<html>
<body>
<form action="">
<input type="button" value="Hello world!">
</form>
</body>
</html>
```

Hello world!

#### **EXAMPLE: INSERT IMAGES**

```
<html>
<body>
>
An image:
<img src="constr4.gif"</pre>
width="144" height="50">
>
A moving image:
<img src="hackanm.gif"</pre>
width="48" height="48">
>
Note that the syntax of inserting a moving image is no
different from that of a non-moving image.
</body>
</html>
```



An image:



A moving image:

Note that the syntax of inserting a moving image is no different from that of a non-moving image.

#### THE ALT ATTRIBUTE

The alt attribute is used to define an "alternate text" for an image. The value of the alt attribute is an author-defined text:

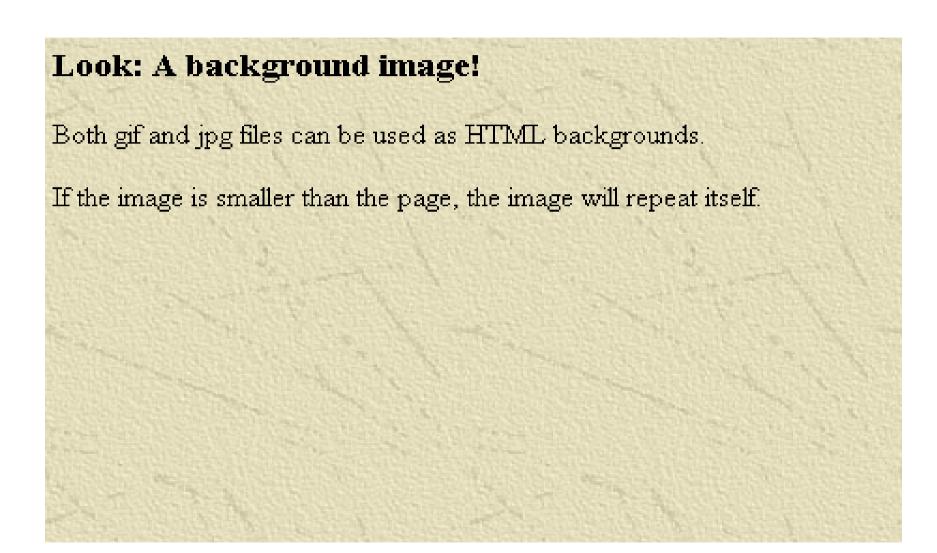
<img src="boat.gif" alt="Big Boat">

The "alt" attribute tells the reader what he or she is missing on a page if the browser can't load images. The browser will then display the alternate text instead of the image. It is a good practice to include the "alt" attribute for each image on a page, to improve the display and usefulness of your document for people who have text-only browsers.

#### **BACKGROUND MAGE**

This example demonstrates how to add a background image to an HTML page.

```
<html>
<body background="background.jpg">
<h3>Look: A background image!</h3>
Both gif and jpg files can be used as HTML backgrounds.
If the image is smaller than the page, the image will repeat itself.
</body>
</body>
</html>
```



#### **ALIGNING IMAGES**

This example demonstrates how to align an image within the text.

```
<html>
<bodv>
<q>>
An image
<img src="hackanm.gif"</pre>
align="bottom" width="48" height="48">
in the text
<q>>
An image
<img src ="hackanm.gif"</pre>
align="middle" width="48" height="48">
in the text
<q>>
An image
<img src ="hackanm.gif"</pre>
align="top" width="48" height="48">
in the text
```



An image

in the text

An image



in the text

An image



in the text

#### **ALIGNING IMAGES**

```
Note that bottom alignment is the default alignment
>
An image
<img src ="hackanm.gif"</pre>
width="48" height="48">
in the text
>
<img src ="hackanm.gif"</pre>
width="48" height="48">
An image before the text
>
An image after the text
<img src ="hackanm.gif"</pre>
width="48" height="48">
</body>
</html>
```

Note that bottom alignment is the default alignment

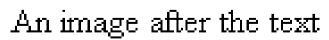


An image

in the text



An image before the text





#### LET THE IMAGE FLOAT

This example demonstrates how to let an image float to the left or right of a paragraph.

```
<html>
<body>
<q>>
<img src ="hackanm.gif"</pre>
align ="left" width="48" height="48">
A paragraph with an image. The align attribute of the image
is set to "left". The image will float to the left of this
text.
>
<img src ="hackanm.gif"</pre>
align ="right" width="48" height="48">
A paragraph with an image. The align attribute of the image
is set to "right". The image will float to the right of
this text.
</body>
</html>
```



A paragraph with an image. The align attribute of the image is set to "left". The image will float to the left of this text.

A paragraph with an image. The align attribute of the image is set to "right". The image will float to the right of this text.



#### **ADJUST IMAGE TO DIFFERENT SIZES**

This example demonstrates how to adjust images to different sizes.

```
<html>
<body>
>
<img src="hackanm.gif"</pre>
width="20" height="20">
>
<img src="hackanm.gif"</pre>
width="45" height="45">
<q>>
<img src="hackanm.gif"</pre>
width="70" height="70">
>
You can make a picture larger or smaller changing the
values in the "height" and "width" attributes of the
img tag.
</body>
</html>
```







You can make a picture larger or smaller changing the values in the "height" and "width" attributes of the img tag.

#### MAKE A HYPERLINK OF AN IMAGE

This example demonstrates how to use an image as a link.

```
<html>
<body>
>
You can also use an image as a link:
<a href="lastpage.htm">
<img border="0" src="buttonnext.gif" width="65" height="38">
</a>
</body>
</html>
```

You can also use an image as a link:



#### HTML META

#### **Document description**

Information inside a meta element describes the document.

#### **Document keywords**

Information inside a meta element describes the document's keywords.

#### Redirect a user

This example demonstrates how to redirect a user if your site address has changed.

#### DOCUMENT DESCRIPTION

```
<html>
<head>
<meta name="author"
content="Jan Egil Refsnes">
<meta name="revised"</pre>
content="Jan Egil Refsnes, 6/10/99">
<meta name="generator"
content="Microsoft FrontPage 4.0">
</head>
<body>
>
The meta attributes of this document identify the author
and the editor software.
</body>
</html>
```

The meta attributes of this document identify the author and the editor software.

#### **DOCUMENT KEYWORDS**

```
<html>
<head>
<meta name="description"
content="HTML examples">
<meta name="keywords"
content="HTML, DHTML, CSS, XML, XHTML, JavaScript,
VBScript">
</head>
<body>
>
The meta attributes of this document describe the document
and its keywords.
</body>
</html>
```

The meta attributes of this document describe the document and its keywords.

#### **KEYWORDS FOR SEARCH ENGINES**

Some search engines on the WWW will use the name and content attributes of the meta tag to index your pages.

#### This meta element defines a description of your page:

<meta name="description" content="Free Web tutorials on
HTML, CSS, XML, and XHTML">

#### This meta element defines keywords for your page:

<meta name="keywords" content="HTML, DHTML, CSS,
XML, XHTML, JavaScript, VBScript">

# Thank you