

HTML LIST & TABLES

SUBJECT: BASICS OF WEB DESIGN

(09CE2102)

DEPTRTMENT: CE-DIPLO

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- List
- >Types of List
- > Hyperlinks
- >Tables

List

- >HTML lists allow web developers to group a set of related items in lists.
- ➤ List is being classified into three types:
 - ✓ Ordered List
 - ✓ Unordered List
 - ✓ Description List

Ordered List

```
An ordered list starts with the  tag.
Each list item starts with the tag.
The list items will be marked with numbers by default.
     syntax:
     <01>
           NAME OF ITEM 
           NAME OF ITEM 
           NAME OF ITEM
```

```
<!DOCTYPE html>
<html>
<body>
<h2>An ordered HTML list</h2>

BWD
CHS
CHS
CFS
CI>CFS
CII>CFS
CII>CFS
CII>CFS
CIII
CIII</
```

An ordered HTML list

- 1. BWD
- 2. CHS
- 3. MATHS
- 4. CFS
- 5. CS
- 6. IC

Unordered List

NAME OF ITEM

```
<!DOCTYPE html>
<html>
<body>
<h2>An unordered HTML list</h2>
<l
 BWD
 CHS
 MATHS
 CFS
 CS
 IC
</body>
</html>
```

An unordered HTML list

- BWD
- CHS
- MATHS
- CFS
- CS
- IC

Description Lists

A Description List

```
name
- my name is.....
hobbies
- my hobbies are .....
```

Attributes for list

Unordered list:

A style attribute can be added to an unordered list to define the style of the marker.

Style	Description
list-style-type:disc	The list items will be marked with bullets (default)
list-style-type:circle	The list items will be marked with circles
list-style-type:square	The list items will be marked with squares
list-style-type:none	The list items will not be marked

```
<!DOCTYPE html>
<html>
<body>
<h2>Unordered List with Disc
Bullets</h2>

        Coffee
        Tea
        Milk
        </body>
</html>
```

Unordered List with Disc Bullets

- Coffee
- Tea
- Milk

```
<!DOCTYPE html>
<html>
<body>
<h2>Unordered List with Circle
Bullets</h2>

        Coffee
        Tea
        Milk
        </body>
</html>
```

Unordered List with Circle Bullets

- Coffee
- Tea
- Milk

Ordered list:

A type attribute can be added to an ordered list, to define the type of the marker.

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

Ordered List with Numbers

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

Ordered List with Letters

- A. Coffee
- B. Tea
- C. Milk

Ordered List with Roman Numbers

I. Coffee

II. Tea

III. Milk

Hyperlink (Anchor tag)

- >HTML links are hyperlinks.
- > You can click on a link and jump to another document.
- ➤ When you move the mouse over a link, the mouse arrow will turn into a little hand.
- The HTML <a> tag defines a hyperlink. It has the following syntax: link text
- The most important attribute of the <a> element is the href attribute, which indicates the link's destination.

Hyperlink (Anchor tag)

- The link text is the part that will be visible to the reader. Clicking on the link text, will send the reader to the specified URL address.
- ▶By default, links will appear as follows in all browsers:
 - An unvisited link is <u>underlined</u> and <u>blue</u>
 - ➤ A visited link is <u>underlined</u> and <u>purple</u>
 - ► An active link is <u>underlined</u> and <u>red</u>

Absolute URLs vs. Relative URLs

```
➤ Both examples above are using an absolute URL (a full web address) in
the href attribute.
A local link (a link to a page within the same website) is specified with
a relative URL (without the "https://www" part):
<h2>Absolute URLs</h2>
<a href="https://www.w3.org/">W3C</a>
<br>
<a href="https://www.google.com/">Google</a>
<h2>Relative URLs</h2>
<a href="html images.asp">HTML Images</a>
<br>
<a href="/css/default.asp">CSS Tutorial</a>
```

Link to an Email Address

➤ Use mailto: inside the href attribute to create a link that opens the user's email program (to let them send a new email):

Example:

Send email

Link Titles

The title attribute specifies extra information about an element. The information is most often shown as a tooltip text when the mouse moves over the element.

Example

Visit our HTML Tutorial

Target Attribute

- ➤ By default, the linked page will be displayed in the current browser window. To change this, you must specify another target for the link.
- The target attribute specifies where to open the linked document.
- The target attribute can have one of the following values:
 - _self Default. Opens the document in the same window/tab as it was clicked
 - _blank Opens the document in a new window or tab
 - _parent Opens the document in the parent frame
 - _top Opens the document in the full body of the window

```
1. <a href="http://www.goolge.com/" target="_blank">Visit google!</a>
```

```
2. <a href="http://www.google.com/html/" target="_top"> Visit google!</a>
```

- 3. Visit
 google!
- 4. Visit google!

Table tag

Tag Description

Defines a table

Defines a header cell in a table

Defines a row in a table

Defines a cell in a table

<caption>
Defines a table caption

<colgroup> Specifies a group of one or more columns in a table for formatting

Specifies column properties for each column within a <colgroup> element

<thead> Groups the header content in a table

Groups the body content in a table

<tfoot> Groups the footer content in a table

The tag defines an HTML table.

An HTML table consists of the element and one or more , , and elements.

The element defines a table row, the element defines a table header, and the element defines a table cell.

A more complex HTML table may also include <caption>, <col>, <colgroup>, <thead>, <tfoot>, and elements.

Defining HTML Tables

Example

Result:

Jill	Smith	50
Eve	Jackson	94
John	Doe	80

Table Cells

```
Each table cell is defined by a  and a  tag.
> td stands for table data.
Everything between  and  are the content of the table cell.
           Syntax:  Table Data 
Example:
Emil
  Tobias
  Linus
 Note: A table cell can contain all sorts of HTML elements: text, images,
lists, links, other tables, etc.
```

Table Rows

are the same in each row.

Note: There are times when a row can have less or more cells than another. You will learn about that in a later chapter.

Table Headers

Sometimes you want your cells to be table header cells. In those cases use the tag instead of the tag.

Syntax: Table Header

```
Example
Let the first row be table header cells:

Person 1
Person 2
```

Person 3

By default, the text in elements are bold and centered, but you can change that with CSS.

HTML <caption > Tag

```
The <caption> tag defines a table caption.
The <caption> tag must be inserted immediately after the  tag.
            Syntax: <caption> Table Caption </caption>
Example:
A table with a caption:
<caption>Monthly savings/caption>
 Month
  Savings
```

HTML Table Borders

HTML tables can have borders of different styles and shapes.

How To Add a Border

When you add a border to a table, you also add borders around each table cell: To add a border, use the CSS border property on table, th, and td elements:

```
Example
table, th, td {
  border: 1px solid black;
}
```



Collapsed Table Borders

```
➤To avoid having double borders like in the example above, set the
CSS border-collapse property to collapse.
>This will make the borders collapse into a single border:
>Syntax:
<style>
table, th, td {
  border: 1px solid black;
  border-collapse: collapse;
}
</style>
```

Example of collapsed border

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

Collapsed Borders

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

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

Style Table Borders

If you set a background color of each cell, and give the border a white color (the same as the document background), you get the impression of an invisible border.

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

Example of style table border

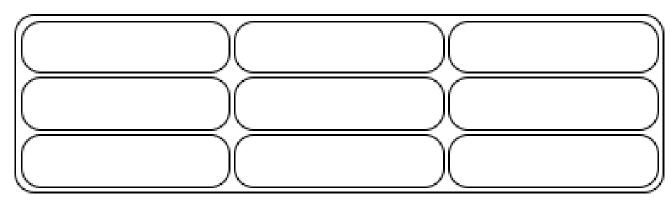
```
<style>
table, th, td {
  border: 1px solid white;
  border-collapse: collapse;
}
th, td {
  background-color: #96D4D4;
}
</style>
```

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

Round Table Borders

With the border-radius property, the borders get rounded corners:

```
Syntax:
table, th, td {
  border: 1px solid black;
  border-radius: 10px;
}
```



To Skip the border around the table by leaving out table from the css selector:

```
Syntax:
th, td {
border: 1px solid black;
border-radius: 10px;
}
```

Table Borders

•Hidden

```
➤ With the border-style property, you can set the appearance of the border.
➤Syntax:
       th, td {
       border-style: dotted;
➤ The following values are allowed:
  dotted
  dashed
  •solid
  •double
  •groove
  ridge
  •inset
  outset
  none
```

Example

```
<html>
<head>
<style>
th, td {
 border-style: dotted;
}
</style>
</head>
```

	Lastname	Age
Jill	Smith	50
	Tackson	94
John		80

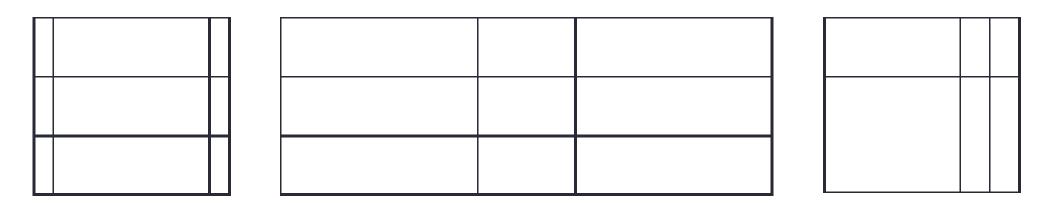
Example

```
<html>
<head>
<style>
th, td {
 border-style: dashed;
}
</style>
</head>
```

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

HTML Table Sizes

- >HTML tables can have different sizes for each column, row or the entire table.
- >Use the style attribute with the width or height properties to specify the size of a table, row or column.



HTML Table Width

To set the width of a table, add the style attribute to the element.

Example:

Set the width of the table to 100%:

```
Firstname
Lastname
Age
Jill
Smith
50
```

100% wide HTML Table

Firstname	Lastname	Age
Jill	Smith	50

Note: Using a percentage as the size unit for a width means how wide will this element be compared to its parent element, which in this case is the <body> element.

HTML Table Column Width

To set the size of a specific column, add the style attribute on a or element.

Example:

Set the width of the first column to 70%:

```
    style="width:70%">Firstname
    th>Lastname
    4

    Age
    4

    th>Age

    th>Age

    th>Age

    th>Age

    th>Age

    th>Age

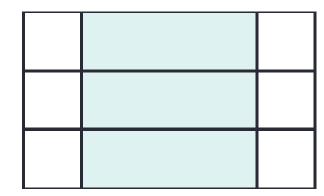
    th>Age

    th>

    th

    th

  <t
```



HTML Table Row Height

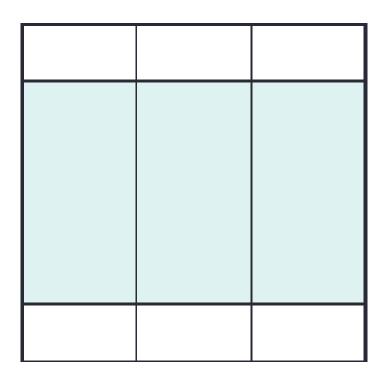
To set the height of a specific row, add the style attribute on a table row element:

Example

Set the height of the second row to 200 pixels:

```
        Firstname
        Lastname
        Age

        <t/table>
```



HTML Table Headers

- HTML tables can have headers for each column or row, or for many columns/rows.
- Table headers are defined with th elements. Each th element represents a table cell.

```
<html>
<head>
<style>
table, th, td {
 border: 1px solid black;
</style>
</head>
<body>
Firstname
  Lastname
  xyx 
   cvy 
 </body>
</html>
```

Firstname	Lastname
xyx	cvy

Vertical Table Headers

To use the first column as table headers, define the first cell in each row as a element:

```
<html>
                     Firstname Jill
                               Eve
<head>
                     Lastname | Smith | Jackson
<style>
table, th, td { border:
1px solid black; }
</style>
</head>
<body>
Firstname
  Jill
  Eve
 Lastname
  Smith
  Jackson
 </body>
</html>
```

HTML Table Padding & Spacing

HTML tables can adjust the padding inside the cells, and also the space between the cells.

With Padding

hello	hello	hello
hello	hello	hello
hello	hello	hello

With Spacing



HTML Table - Cell Padding

```
Cell padding is the space between the cell edges and the cell content.
▶By default the padding is set to 0.
To add padding on table cells, use the CSS padding property:
 th, td {
   padding: 15px;
To add padding only above the content, use the padding-top property and the others sides
with the padding-bottom, padding-left, and padding-right properties:
 th, td {
   padding-top: 10px;
   padding-bottom: 20px;
   padding-left: 30px;
  padding-right: 40px;
```

Example

```
<html>
<head>
<style>
table, th, td {
 border: 1px solid black;
 border-collapse: collapse;
th, td {
 padding-top: 10px;
 padding-bottom: 20px;
 padding-left: 30px;
 padding-right: 40px;
</style>
</head>
</html>
```

HTML Table - Cell Spacing

- Cell spacing is the space between each cell.
- ▶By default the space is set to 2 pixels.
- To change the space between table cells, use the CSS border-spacing property on the table element:

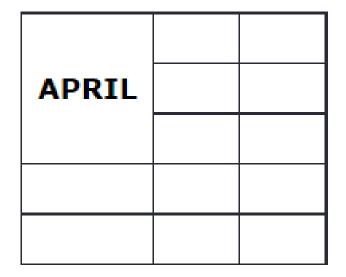
>Example:

```
table {border-spacing: 30px;}
```

HTML Table Colspan & Rowspan

HTML tables can have cells that span over multiple rows and/or columns.

NAME		



2022		
FIESTA		

HTML Table - Colspan

To make a cell span over multiple columns, use the colspan attribute:

Example

```
Name
Age

Jill
Smith
<</td>

43
```

Name		Age
Jill	Smith	43

Note: The value of the colspan attribute represents the number of columns to span.

HTML Table - Rowspan

To make a cell span over multiple rows, use the rowspan attribute:

Example

```
Name
Jill
Phone
555-1234
555-8745
```

Name	Jill
Phone	555-1234
	555-8745

HTML Table Colgroup

- The <colgroup> element is used to style specific columns of a table
- If you want to style the two first columns of a table, use the <colgroup> and <col> elements.
- The <colgroup> element should be used as a container for the column specifications.
- Each group is specified with a <col> element.
- The span attribute specifies how many columns that get the style.
- The style attribute specifies the style to give the columns.

Note: There is a very limited selection of legal CSS properties for colgroups.

HTML<colgroup> Tag

```
The <colgroup> tag specifies a group of one or more columns in a table for formatting.
The <colgroup> tag is useful for applying styles to entire columns, instead of repeating the styles for each cell, for each row.
Example
Set the background color of the three columns with the <colgroup> and <col> tags:

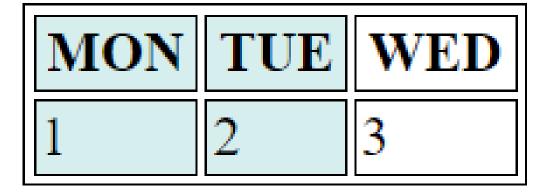
<col span="2" style="background-color:red">
<col style="background-color:yellow">
</colgroup>
</colgroup>
</colgroup>
```

Note: The <colgroup> tag must be a child of a element, after any <caption> elements and before any <thead>, , <tfoot>, and elements.

Tip: To define different properties to a column within a <colgroup>, use the <col> tag within the <colgroup> tag.

Example:

```
<!DOCTYPE html>
<html>
<head>
<style>
table, th, td {border: 1px solid black;}
</style>
</head>
<body>
<colgroup>
 <col span="2" style="background-color:</pre>
#D6EEEE">
</colgroup>
MON
TUE
WED
```



HTML <col> Tag

Example

Set the background color of the three columns with the <colgroup> and <col> tags:

```
<colgroup>
<col span="2" style="background-color:red">
<col style="background-color:yellow">
</colgroup>
```

Multiple Col Elements

If you want to style more columns with different styles, use more <col> elements inside the

Empty Colgroups

If you want to style columns in the middle of a table, insert a "empty" <col> element (with no styles) for the columns before:

```
<colgroup>
<col span="3">
<col span="2" style="background-color: pink">
</colgroup>
```

ANY QUESTION?