# HTML TABLES & LISTS

Computer-Human Interaction

# **HTML TABLE**

#### HTML Table Example

Company	Contact	Country
Alfreds Futterkiste	Maria Anders	Germany
Centro comercial Moctezuma	Francisco Chang	Mexico
Ernst Handel	Roland Mendel	Austria
Island Trading	Helen Bennett	UK
Laughing Bacchus Winecellars	Yoshi Tannamuri	Canada
Magazzini Alimentari Riuniti	Giovanni Rovelli	Italy

### **HTML TABLE**

- An HTML table is defined with the tag.
- Each table row is defined with the 
   A table header is defined with the tag.

   By default, table headings are bold and centered. A table data/cell is defined with the tag.
- Note: The elements are the data containers of the table.
- They can contain all sorts of HTML elements; text, images, lists, other tables, etc.

#### Example

```
Firstname
 Lastname
 Age
Jill
 Smith
 50
Eve
 Jackson
 94
```

### ADDING A BORDER

### **COLLAPSED BORDERS**

- If you do not specify a border for the table, it will be displayed without borders.
- A border is set using the CSS border property:

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

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

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

### ADDING A BORDER

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

#### **Bordered Table**

Use the CSS border property to add a border to the table.

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

```
<!DOCTYPE html>
<html>
<head>
 k rel="stylesheet" href="styles.css">
</head>
<body>
<h2>Bordered Table</h2>
Use the CSS border property to add a border to the table.
<
  Firstname
  Lastname
  Age
 <
  >Jill
  Smith
  >50
 ktrs
  Evec/td>
  Jackson
  94
 ktrs
  >John
  >Doe
  80
 </body>
</html>
```

```
<!DOCTYPE html>
<html>
<head>
```

### COLLAPSED BORDERS

#### k rel="stylesheet" href="styles.css">

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

```
</head>
<body>
<h2>Collapsed Borders</h2>
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
 </body>
</html>
```

#### 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

# Adding Cell Padding

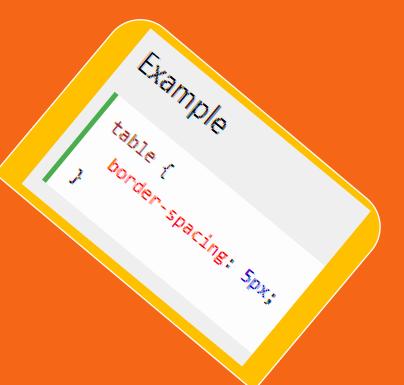
# Left-align Headings

# Adding Border Spacing



## Example

```
th {
  text-align: left;
}
```



#### **CELLS THAT SPAN MANY**

# COLUMNS

# ROWS

### Example

```
Name
 Telephone
>Bill Gates
 55577854
 55577855
```

#### Example

```
Name:
 Bill Gates
Telephone:
 55577854
<
 55577855
```

# CELLS THAT SPAN MANY COLUMNS

To make a cell span more than one column, use the colspan attribute.

Name	Telephone	
Bill Gates	55577854	55577855

# CELLS THAT SPAN MANY ROWS

To make a cell span more than one row, use the rowspan attribute.

Name:	Bill Gates
Telephone:	55577854
Telephone.	55577855

## **ADDING A CAPTION**

```
table, th, td {
  border: 1px solid black;
  border-collapse: collapse;
}
th, td {
  padding: 5px;
  text-align: left;
}
```

#### **Table Caption**

To add a caption to a table, use the caption tag.

#### Monthly savings

Month	Savings
January	\$100
February	\$50

```
<!DOCTYPE html>
<html>
cheads.
<link rel="stylesheet" href="styles.css">
</head>
<body>
<h2>Table Caption</h2>
To add a caption to a table, use the caption tag.
<caption>Monthly savings</caption>
 ktrs
  Month
  Savings
 ktrs
  >January
  $100
 ktrs
  February
  $50
 </body>
</html>
```

## A SPECIAL STYLE FOR ONE TABLE

### Example

```
Firstname
 Lastname
 Age
Eve
 Jackson
 94
```

```
table#t01 {
  width: 100%;
  background-color: #f1f1c1;
}
```

#### And add more styles:

```
table#t01 tr:nth-child(even) {
   background-color: #eee;
}
table#t01 tr:nth-child(odd) {
   background-color: #fff;
}
table#t01 th {
   color: white;
   background-color: black;
}
```

#### Styling Tables

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

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

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

## **CHAPTER SUMMARY**

- Use the HTML element to define a table
- Use the HTML 

   element to define a table row
- Use the HTML element to define a table data
- Use the HTML element to define a table heading
- Use the HTML <caption> element to define a table caption
- Use the CSS border property to define a border
- Use the CSS border-collapse property to collapse cell borders
- Use the CSS padding property to add padding to cells
- Use the CSS text-align property to align cell text
- Use the CSS border-spacing property to set the spacing between cells
- Use the colspan attribute to make a cell span many columns
- Use the rowspan attribute to make a cell span many rows
- Use the id attribute to uniquely define one table

# **HTML TABLE TAGS**

Tag	Description
<u></u>	Defines a table
<u>&gt;</u>	Defines a header cell in a table
<u></u>	Defines a row in a table
<u>&gt;</u>	Defines a cell in a table
<u><caption></caption></u>	Defines a table caption
<colgroup></colgroup>	Specifies a group of one or more columns in a table for formatting
<u><col/></u>	Specifies column properties for each column within a <colgroup> element</colgroup>
<u><thead></thead></u>	Groups the header content in a table
<u></u>	Groups the body content in a table
<u><tfoot></tfoot></u>	Groups the footer content in a table

R Y ] S

Name	Age	Occupation	Location
Luke Peters	25	Freelance Web Developer	Brookine, MA
Joseph Smith	27	Project Manager	Somerville, MA
Maxwell Johnson	26	UX Architect & Designer	Arlington, MA
Harry Harrison	25	Front-End Developer	Boston, MA

Product	Unit Price	Quantity	Date Sold	Status
Solid oak work table	\$800	10	03/15/2014	Waiting for Pickup
Leather iPhone wallet	\$45	120	02/28/2014	in Transit
27" Apple Thunderbolt displays	\$1000	25	02/10/2014	Delivered
Bose studio headphones	\$60	90	01/14/2014	Delivered

Username	Email	Password	Active
ninjalug	misterninja@hotmat.com	***************************************	Yes
pmith41	joseph.smith@gmail.com		No
1337hax0r15	hackerdude1000@aol.com	***********	Yes
hairyharry19	harrytarry@gmail.com	**********	Yes

# HTML LISTS

# **HTML LISTS**

#### HTML List Example

#### An Unordered List:

- Item.
- Item
- Item
- Item

#### An Ordered List:

- 1. First item.
- 2. Second item
- 3. Third item
- 4. Fourth item

- An unordered list starts with the 
   tag.
   Each list item starts with the tag.
- The list items will be marked with bullets (small black circles) by default
- An ordered list starts with the tag.
   Each list item starts with the tag.
- 2. The list items will be marked with numbers by default:

# UNORDERED HTML LIST – CHOOSE LIST ITEM MARKER

#### The CSS list-style-type property is used to define the style of the list item marker:

Value	Description
disc	Sets the list item marker to a bullet (default)
circle	Sets the list item marker to a circle
square	Sets the list item marker to a square
none	The list items will not be marked

#### Example - Disc

#### Example - Circle

```
     Coffee
     Tea
     Milk
```

#### Example - Square

```
     Coffee
     Tea
     Milk
```

#### Example - None

```
CoffeeTeaMilk
```

# UNORDERED HTML LIST – CHOOSE LIST ITEM MARKER

#### **Unordered List with Disc Bullets**

- Coffee
- Teal
- Milk

#### **Unordered List with Circle Bullets**

- Coffee
- o Tea
- Milk

#### Unordered List with Square Bullets

- Coffee
- Tea
- Milk

#### Unordered List without Bullets

Coffee

Tea

Milk

# ORDERED HTML LIST – THE TYPE ATTRIBUTE

#### The type attribute of the tag, defines the type of the list item 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

#### Numbers:

```
     Coffee
     Tea
     Milk
```

#### Uppercase Letters:

#### Lowercase Letters:

```
     Coffee
     Tea
     Milk
```

#### Lowercase Roman Numbers:

```
    Coffee
    Tea
    Milk
```

#### Uppercase Roman Numbers:

```
    Coffee
    Tea
    Milk
```

# ORDERED HTML LIST – THE TYPE ATTRIBUTE

#### Ordered List with Numbers

- 1. Coffee
- 2. Teal
- Milk

#### Ordered List with Letters

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

#### Ordered List with Lowercase Letters

- a. Coffee
- b. Tea
- c. Milk

#### Ordered List with Roman Numbers

- I. Coffee
- II. Tea
- III. Milk

#### Ordered List with Lowercase Roman Numbers

- i. Coffee
- ii. Tea
- iii. Milk

## HTML DESCRIPTION LISTS

- HTML also supports description lists.
- A description list is a list of terms, with a description of each term.
- The <dl> tag defines the description list, the <dt> tag defines the term (name), and the <dd> tag describes each term:

## Example

## HTML DESCRIPTION LISTS

```
<!DOCTYPE html>
<html>
<body>
<h2>A Description List</h2>
< d1 >
  <dt>Coffee</dt>
  <dd>- black hot drink</dd>
  <dt>Milk</dt>
  <dd>- white cold drink</dd>
</dl>
</body>
</html>
```

## A Description List

Coffee

- black hot drink

Milk

white cold drink

# **NESTED HTML LISTS**

```
<!noctype html>
chtml>
<body>
<h2>A Nested List</h2>
List can be nested (lists inside lists):
Coffee
 Tea
  culs.
    kli>Black teak/li>
    Green tea
   Milk
</body>
</html>
```

#### A Nested List

List can be nested (lists inside lists):

- Coffee
- Tea
  - Black tea
  - Green tea
- Milk

Note: List items can contain new list, and other HTML elements, like images and links, etc.

# **CONTROL LIST COUNTING**

By default, an ordered list will start counting from 1. If you want to start counting from a specified number, you can use the start attribute:

```
<!DOCTYPE html>
<html>
<body>
<h2>The start attribute</h2>
By default, an ordered list will start counting from 1. Use the start attribute to start counting from
a specified number:
The start attribute
 Coffee
 Tea
 Milk
                                 By default, an ordered list will start counting from 1. Use the start attribute to start counting from a specified number:
</01>
                                   50 Coffee
51 Tea
 Coffee
                                   52. Milk
 Teak/li>
 Milk
</01>
                                    I. Coffee
                                   LI. Tea
</body>
                                   LII. Milk
</html>
```

# HORIZONTAL LIST WITH CSS

```
<!DOCTYPE html>
                 Home
                       News
                            Contact
                                   About
<html>
<head>
</head>
<body>
<u1>
  <a href="#home">Home</a>
  <a href="#news">News</a>
  <a href="#contact">Contact</a>
  <a href="#about">About</a>
</body>
</html>
```

```
ul {
  list-style-type: none;
  margin: 0;
  padding: 0;
  overflow: hidden;
  background-color: #333333;
1i {
 float: left;
li a {
  display: block;
  color: white;
  text-align: center;
  padding: 16px;
 text-decoration: none;
li a:hover {
  background-color: #111111;
```

# **CHAPTER SUMMARY**

- Use the HTML 
   element to define an unordered list
- Use the CSS list-style-type property to define the list item marker
- Use the HTML element to define an ordered list
- Use the HTML type attribute to define the numbering type
- Use the HTML element to define a list item
- Use the HTML <dl> element to define a description list
- Use the HTML <dt> element to define the description term
- Use the HTML <dd> element to describe the term in a description list
- Lists can be nested inside lists
- List items can contain other HTML elements
- Use the CSS property float:left or display:inline to display a list horizontally