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### **CTEC 31052**

**Web Programming - I** 

**Chapter 5** 

More on HTML

Reference: <a href="https://www.w3schools.com/">https://www.w3schools.com/</a>



# HTML Links



### HTML Links

- HTML uses a hyperlink to link to another document on the web.
- 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.
- Syntax

```
<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*

```
Ex: Anchor defines a link to google ->
```

```
<a href="https://www.google.com/"> Visit Google! </a>
```



 The Target attribute is used to define where the linked document will be opened.

The below link will open the document in a new browser window or tab:

<a href="https://www.google.com/" target="\_blank"> Visit Google! </a>

Target attribute value	Definition
_blank	Opens the linked document in a new window or tab
_self	Opens the linked document in the same window/tab as it was clicked (this is default)
_parent	Opens the linked document in the parent frame
_top	Opens the linked document in the full body of the window
framename	Opens the linked document in a named frame



# The anchor Tag and the Name attribute

- 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.
- Syntax to 'Named Anchor'

<a name="label"> Text to be display! </a>

Syntax to link an Name Anchor

<a href="#label"> Text to be display! </a>



```
<h3>Link to google</h3>
     >
        <a href="https://www.google.com/" target=" top">Visit
Google!</a>
     <h3>Image as Link to UoK official web site</h3>
     >
        <a href="https://www.kln.ac.lk/" target=" blank">
        <img src="Kelaniya.png" style="width:100;"/>
       </a>
      <h3>Link to another page</h3>
     >
        <a href="0 linktemp.html" target=" self">Visit My HTML
Page!</a>
      <h3>Link to Specific Section in another page</h3>
     >
       <a href="0 linktemp.html#CTEC31052" target=" top">Visit
CTEC 31052!</a>
```

#### Link to google

Visit Google!

#### Image as Link to UoK official web site



#### Link to another page

Visit My HTML Page!

### Link to Specific Section in another page

Visit CTEC 31052!



This is a sample paragraph!

#### **CTEC 31052**

This is a sample paragraph need to be jump!

This is a sample paragraph need to be jump!

Name of the anchor is CTEC 31052

```
<a name="CTEC31052">
<h2>CTEC 31052</h2>
</a>
```

This is a sample paragraph need to be jump! This is a sample paragraph need to be jump!





#### Link to Specific Section in same page

#### Visit CTEC 31052!

This is a sample paragraph!

Link to the section in the same page which have "CTEC31052" as the Name of the anchor

<h3>Link to Specific Section in same page</h3>

<a href="#CTEC31052">Visit CTEC 31052!</a>

Check the URL: file:///D:/HTML/L5/0\_linktemp.html#CTEC31052

fragment



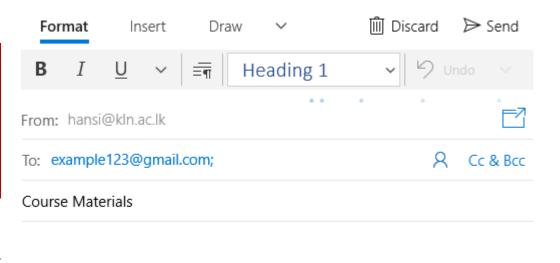
## Mailto link

 mailto link is used to link to a mail message (it will only work if you have installed mail).

```
>
This is an email link:
 <a href="mailto:example123@gmail.com?Subject=Course%20Materials" >
   Send Mail
 </a>
<q\>
  This is another mailto link:
    <a
href="mailto:example123@gmail.com?cc=someoneelse@example.com&bcc=andsomeoneelse@exa
mple.com&subject=Course%20Advices&body=Study%20hard%20to%20get%20good%20results!">
     Send mail!
   </a>
  >
   <b>Note:</b> Spaces between words should be replaced by %20 to ensure that the browser will
display the text properly.
  Introduction to XHTML
```







This is an email link: Send Mail

This is another mailto link: Send mail!

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

Sent from Mail for Windows 10



### Advance 'mailto' Link

<a

href="mailto:example123@gmail.com?cc=someoneelse@example.com&bcc=andsomeoneelse@example.com&subject=Course%20Advices&body=Study%20hard%20to%20get%20good%20results!"> Send mail!

</a>

From: hansi@kln.ac.lk	
To: example123@gmail.com;	A
Cc: someoneelse@example.com;	٨
Bcc: andsomeoneelse@example.com;	٨
Course Advices	
Study hard to get good results! Sent from Mail for Windows 10	



# HTML iframe



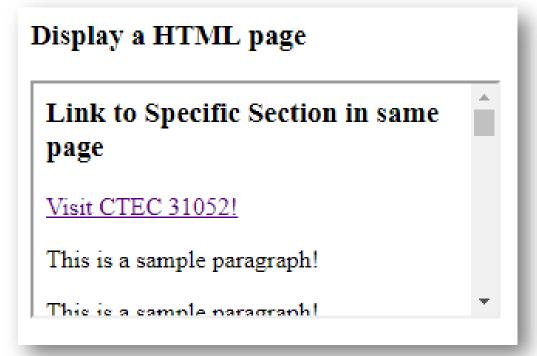
### Inline Frame <iframe>

 A Frame inside a HTML page known as Inline Frame 'iframe'.

<iframe src="URL"></iframe>

• Example:

<h3>Display a HTML page</h3>
<iframe src="0\_linktemp.html"></iframe>







#### Display a image

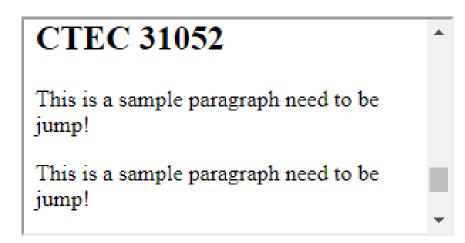


Load Kelaniya Logo! ----- Load Earth back!



```
<h3>Jump to a specified section withing iframe</h3>
<iframe src="0_linktemp.html#CTEC31052">
</iframe>
```

### Jump to a specified section withing iframe





# HTML Image



## **HTML** Images

- Images are defined with the <img> standalone tag.
- Src (Source) attribute defines the URL of the image
- Syntax of defining and image;

```
<img src="url">
```

You can use only the name of the image if html doc and image are in same directory path.

Normal Image

Moving Image



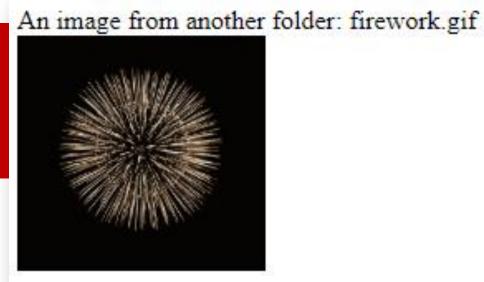
## **HTML Paths**

- A file path defines the location of a file in a web site's folder structure.
- File paths are used to link different files. They are:
  - Web pages
  - Images
  - Style sheets
  - JavaScripts

Path	Description
<img src="Kelaniya.jpg"/>	Kelaniya.jpg is located in the same folder as the current page.
<img src="images/firework.gif"/>	firework.gif is located in the images folder in the current folder.
<img src="/images/picture.jpg"/>	picture.jpg is located in the images folder at the root of the current web
<img src="/picture.jpg"/>	picture.jpg is located in the folder one level up from the current folder



## Insert an image in different location



An image from W3School: ie.gif



```
An image from W3School: ie.gif <br/><img
src="https://www.w3schools.com/images/ie.gif"
style="width:50;">
```



## Adjust images to different sizes

- Use "height" & "width" attributes to adjust the image width and height
- Can be used percentages and pixel values to set the image size. (10% screen width/height \* 0.1)

```
<img src="Kelaniya.png" width="100" height="100" >
```

```
<img src="Kelaniya.png" width="10%" height="10%" >
```

```
<img src="Kelaniya.png" width="120" >
```

Automatically adjust the height by keeping same proportion of the image. (avoid vertical or horizontal Stretch)



## The "alt" Attribute

- Tells the reader what he or she is missing on a page if the browser can't load images
- Then browser will display the alternate text instead of the image

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



# Aligning Images

Defining the text alignment within the text. Use the *vertical-align* property inside style tag.

vertical-align: baseline | length | sub | super | top | text-top | middle | bottom | text-bottom | initial | inherit;

An image <img src="Kelaniya.png" style="width:115;"> in the text.(Default Alignment)

An image <img src="Kelaniya.png" style="width:115; vertical-align:baseline"> in the text.

An image <img src="Kelaniya.png" style="width:115; vertical-align:text-top"> in the text.

An image <img src="Kelaniya.png" style="width:115; vertical-align:text-bottom"> in the text.

An image <img src="Kelaniya.png" style="width:115; vertical-align:middle"> in the text.

An image in the text.(Default Alignment)

An image in the text.

An image in the text.

An image in the text

An image on in the text.



# Floating Images

float: left | right | none | inherit;

<img src="Kelaniya.png" style="width:25;float:left" >

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 ......

<img src="Kelaniya.png" style="width:25;float:right" >

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. A paragraph with an image.......

#### Floating image

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 "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 "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. 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. 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.





# Make a hyperlink of an image

Use image as a hyperlink

```
<a href="http://www.kln.ac.lk">
<imgsrc="KelaniLogo.png" alt="UokLogo">
</a>
```



## Turn an image into an image map

```
>
```

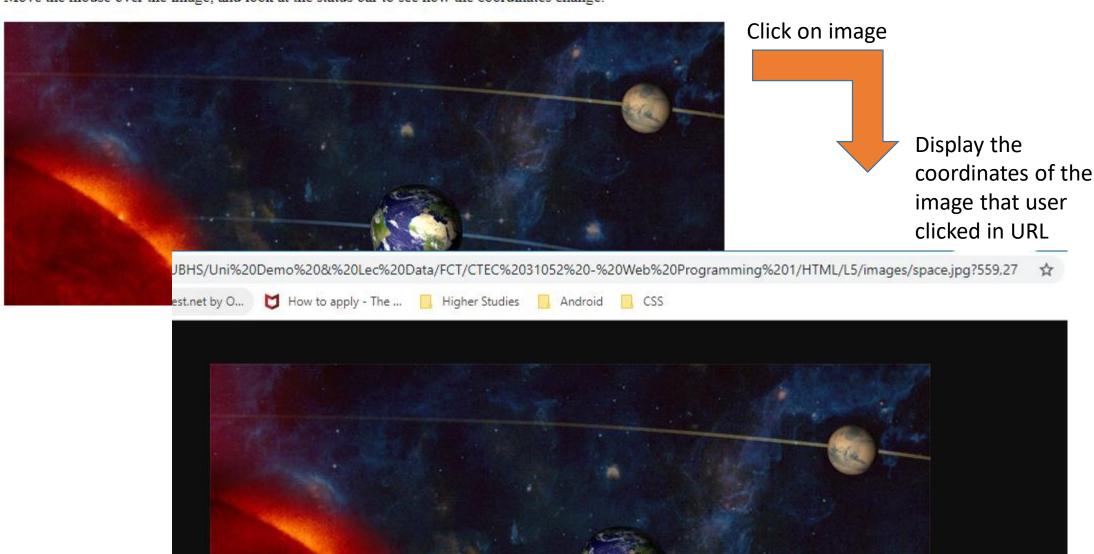
Move the mouse over the image, and look at the status bar to see how the coordinates change.

```
<a href="images/space.jpg">
<img src="images/space.jpg" ismap</p>
style="width:720;height:540">
```



### Turn an image to a map

Move the mouse over the image, and look at the status bar to see how the coordinates change.

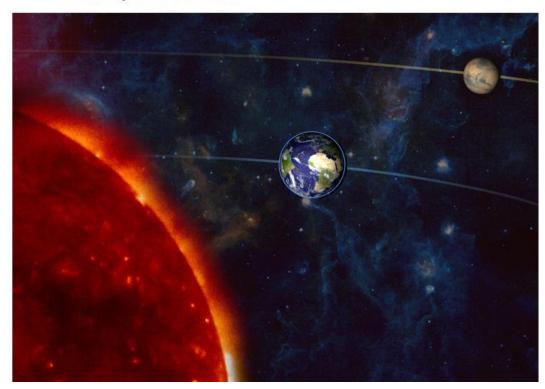


## Create an Image Map



#### Image Map

Click on the one of the planets to watch it closer:



Click on specified area in image open given source





# HTML Table



### HTML Table

- 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 borderproperty to define a border
- Use the CSS border-collapse property to collapse cell borders



## HTML Table (contd)...

- Use the CSS paddingproperty to add padding to cells
- Use the CSS text-alignproperty to align cell text
- Use the CSS border-spacing property to set the spacing between cells
- Use the colspanattribute to make a cell span many columns
- Use the rowspanattribute to make a cell span many rows
- Use the **id**attribute to uniquely define one table



#### Table with one cell



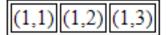
```
<h3>Table with one cell</h3>

A cell
```

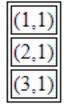
```
<h3>Table with 3 column and 1 rows</h3>

        (1,1)
        (1,2)
        (1,3)
        (1,3)
        (1,3)
        (1,3)
        (1,3)
        (1,3)
        (1,3)
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        (1,3)
        (1,3)
        (1,3)
        (1,3)
        (1,3)
        (1,3)
        (1,3)
```

#### Table with 3 column and 1 rows

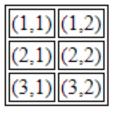


#### Table with 3 row and 1 columns





#### Table with 3 row and 2 columns



```
<h3>Table with 3 row and 2
columns</h3>
 (1,1)
   (1,2)
  (2,1)
   (2,2)
  (3,1)
   (3,2)
```



### **Table Borders**

#### Table with no borders...

(1,1)(1,2)

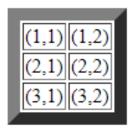
(2,1)(2,2)

(3,1)(3,2)

#### Table with normal borders...

(1,1) (1,2) (2,1) (2,2) (3,1) (3,2)

#### Table with thick borders...



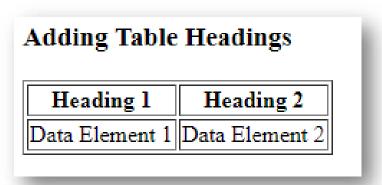
Note: The border attribute is not supported in HTML5. Use CSS instead as in previous slide.

```
<h3>Table with normal borders...</h3>
 (1,1)
   (1,2)
   (2,1) 
   (2,2)
  (3,1)
   (3,2)
```



# Headings in a Table

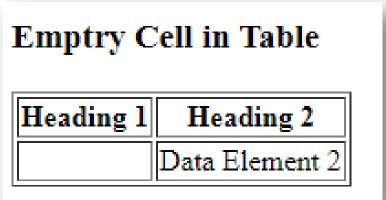
```
<h3>Adding Table Headings</h3>
  Heading 1
    Heading 2
   Data Element 1
    Data Element 2
```





# Empty cells in Table

```
<h3>Emptry Cell in Table</h3>
  Heading 1
   Heading 2
    <!--EmptyCell-->
   Data Element 2
```





# Table with a caption

```
<h3>Table with a caption</h3>
  <caption>CAPTION OF THE TABLE</caption>
   Heading 1
    Heading 2
   Data Element 1
    Data Element 2
```

```
Table with a caption

CAPTION OF THE TABLE

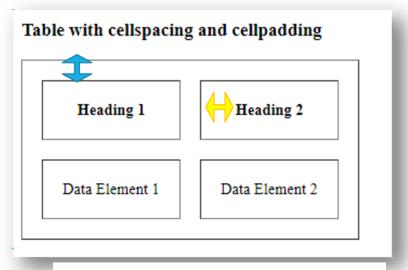
Heading 1 Heading 2

Data Element 1 Data Element 2
```

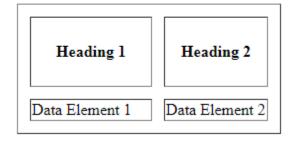


# Add 'border-spacing' & 'padding'

```
<h3>Table with cellspacing and cellpadding </h3>
  <table border="1" style="border-
spacing:12px">
    Heading 1
     Heading 2
    Data Element 1
     Data Element 2
```



#### Table with cellspacing and cellpadding





# Cells span more than one row/column

```
<h3>Table cells that span more than one row/column
</h3>
  Data Element 1
   Data 2
     Data 3
                       Table cells that span more than one row/column
   Data Element 1
                           Data 3
                       Data 2
     Data 5
```

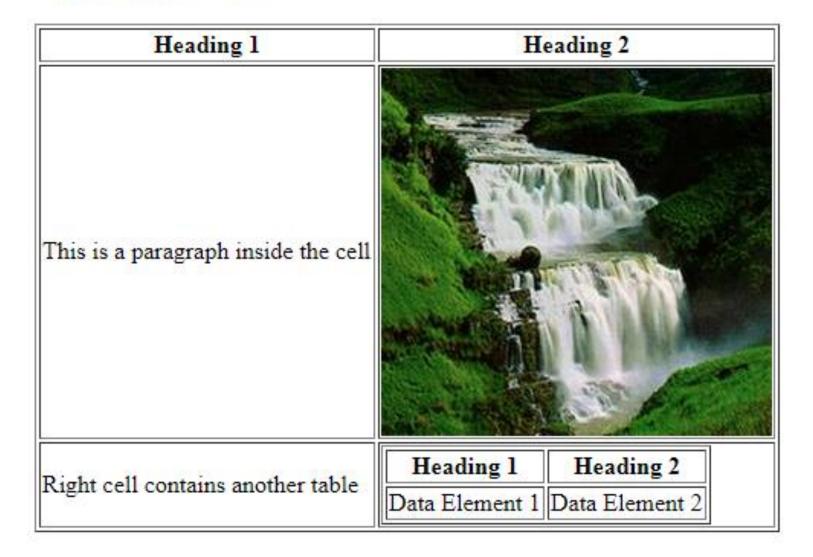


# Tags inside the table

```
<h3>Tags inside the table</h3>
                           Right cell contains another table
                               Heading 1
                               Heading 2
                                Heading 1
                                  Heading 2
    This is a paragraph inside the cell
                                 Data Element 1
    Data Element 2
                                 <img src="Waterfall.jpg">
                                Introduction to XHTML
```



#### Tags inside the table





# Content Alignment

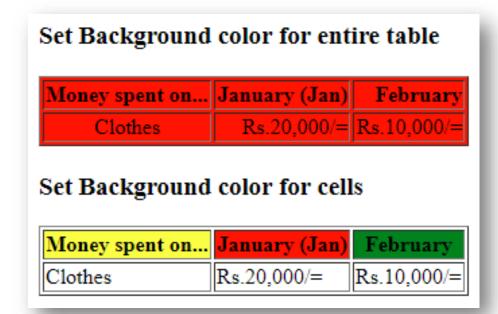
```
<h3>Content Alignment</h3>
 Money spent on...
  January (Jan)
  February
 Clothes
  Rs.20,000/=
  Rs.10,000/=
```

# Content Alignment | Money spent on... | January (Jan) | February | | Clothes | Rs.20,000/= | Rs.10,000/= |



# **Set Background Colors**

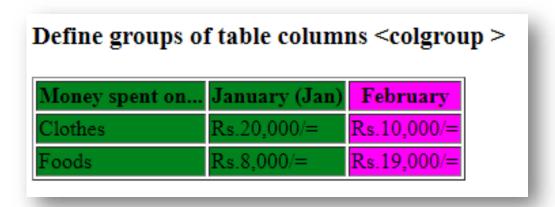
```
<h3>Set Background color for cells</h3>
 Money spent
on...
   January (Jan)
   February
  Clothes
   Rs.20,000/=
   Rs.10,000/=
```





# <colgroup>

- 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.





Introduction to XHTML

### tfoot, thead, tbody

- The <tfoot> tag is used to group footer content in an HTML table.
- The <tfoot> element is used in conjunction with the <thead> and elements to specify each part of a table (footer, header, body).



# HTML Table Tags

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



# **HTML Lists**



### **HTML Lists**

- Use tag to add an ordered List
- Use 

   ul> tag to add an unordered List
- Use <dl> tag to add a definition List
- Use <dt> tag to define data element in a Definition List
- Use <dd> tag to define data definition in Definition List



### An Unordered List

```
<h3>An Unordered List</h3>

Coffee
Tea
Milk
```

#### An Unordered List

- Coffee
- Tea
- Milk



### An Ordered List

```
<h3>An Ordered List</h3>

Coffee
Tea
Milk
```

#### An Ordered List

- Coffee
- 2. Tea
- Milk



### A Definition List

<h3>A Definition List</h3>

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

#### A Definition List

Coffee

Black hot drink

Tea

Black hot drink

Milk

White cold drink



### Different types of ordered lists

```
<h4>Numbered List</h4>

Coffee
Coffee
Ali>Milk

<h4>Uppercase letters List</h4>

Coffee
Milk

<h4>Lowercase letters List</h4>

Coffee
Ali>Milk

Coffee
Milk
Milk
Milk
```

#### Numbered List

- 1. Coffee
- Milk

#### Uppercase letters List

- A. Coffee
- B. Milk

#### Lowercase letters List

- a. Coffee
- b. Milk

#### Roman numbers List

- I. Coffee
- II. Milk

#### Lowercase Roman numbers List

- i. Coffee
- ii. Milk

```
<h4>Roman numbers List</h4>

Coffee
Hillowercase Roman numbers List</hd>
```



# Different types of unordered lists

```
<h4>Disc bullets List</h4>
 Coffee
  Milk
 <h4>Circle bullets List</h4>
 Coffee
  Milk
 <h4>Square bullets List</h4>
 Coffee
  Milk
```

#### Disc bullets List

- Coffee
- Milk

#### Circle bullets List

- Coffee
- o Milk

#### Square bullets List

- Coffee
- Milk

#### List with no bullets or numbers

Coffee Milk

#### Image List



```
<h4>List with no bullets or numbers</h4>

Coffee
Hi>Milk

<h4>Image List</h4>

Coffee
Hi>Milk

Coffee
Hi>Milk

Hi>Coffee
Hi>Coffee
Hi>Coffee
Hi>Milk

Hi>Milk
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```



### **Nested Lists**

```
<h3>Nested Lists</h3>
  ul>
   Coffee
   Tea
    <0|>
      Black Tea
      Green Tea
    Milk
```

#### Nested Lists

- Coffee
- Tea
  - 1. Black Tea
  - 2. Green Tea
- Milk



### 'start' Attribute in Ordered List

```
<h3>Lists which start at different position</h3>

    start="14">

     Coffee
     Tea
      start="5" style="list-style-type:1">
        Black Tea
        Green Tea
      Milk
```

#### Lists which start at different position

```
14. Coffee
```

15. Tea

Black Tea

6. Green Tea

Milk



# HTML Head



### HTML < head>

- The <head> element is a container for metadata (data about data) and is placed between the <html> tag and the <body> tag.
- HTML metadata is data about the HTML document. Metadata is not displayed.
- Metadata typically define the document title, character set, styles, links, scripts, and other meta information.
- The following tags describe metadata:

```
<title>
```

<style>

<meta>

k>

<script>

<base>



### Meta data

| Tag  | Definition |
|--|------------|
| <title>&lt;/td&gt;&lt;td&gt;defines the title of the document, and is required in all HTML/XHTML documents.&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;style&gt;&lt;/td&gt;&lt;td&gt;define style information for a single HTML page.&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;li&gt;k&gt;&lt;/td&gt;&lt;td&gt;used to link to external style sheets.&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;meta&gt;&lt;/td&gt;&lt;td&gt;used to specify which character set is used, page description, keywords, author, and other metadata.&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;script&gt;&lt;/td&gt;&lt;td&gt;used to define client-side JavaScripts.&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;base&gt;&lt;/td&gt;&lt;td&gt;specifies the base URL and base target for all relative URLs in a page.&lt;/td&gt;&lt;/tr&gt;&lt;/tbody&gt;&lt;/table&gt;</title> |            |



### Meta data

 The <meta> element is used to specify which character set is used, page description, keywords, author, and other metadata.

 Metadata is used by browsers (how to display content), by search engines (keywords), and other web services.



### Meta Data

| Tag   | Definition  |
|---|---|
| charset="UTF-8"   | Define the character set used   |
| name="description" content=""                                     | Define a description of your web page   |
| name="keywords" content=""  | Define keywords for search engines  |
| name="author" content=""  | Define the author of a page   |
| http-equiv="refresh"<br>content="#"                               | Refresh document every # seconds  |
| name="viewport" content="width=devic e-width, initial- scale=1.0" | Gives the browser instructions on how to control the page's dimensions and scaling. |



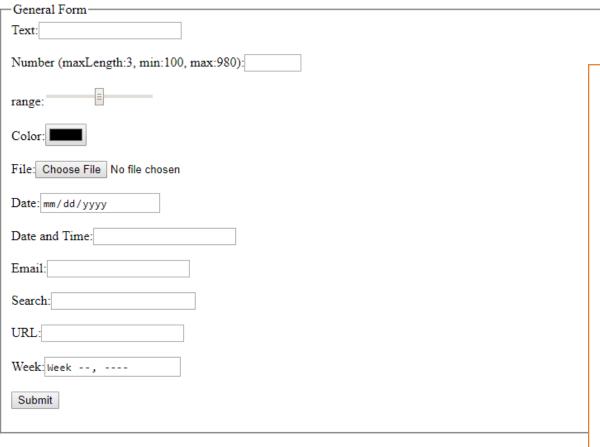


# **HTML Forms**



### **HTML Forms**

#### General Form



- An HTML form contains form elements.
- Form elements are different types of input elements, like text fields, checkboxes, radio buttons, submit buttons, and more.



# Adding Text Fields

| HTML Forms         |  |  |
|--------------------|--|--|
| Adding Text Fields |  |  |
| First Name :       |  |  |
| Last Name :        |  |  |



# **Adding Password Fields**

| Adding Password Fields |  |  |
|------------------------|--|--|
| User Name :            |  |  |
| Password :             |  |  |



# **Adding Text Area**

```
<form action="">
      User Name : <input type="text" name="username"> <br> <br>
      Password : <input type="password" name="pass"> <br> <br>
      Address: <textarea name="address" cols="20" rows="5">
              Address
                                    Adding Textarea
            </textarea><br>
                                    User Name:
    </form>
                                    Password:
                                            Address
                                    Address
```



# **Adding Radio Buttons**

```
<form action="">
      User Name : <input type="text" name="username"> <br> <br>
      Password : <input type="password" name="pass"> <br> <br>
      Gender: <input type="radio" name="sex" value="male"> Male
      <input type="radio" name="sex" value="female"> Female<br> <br>
    </form>
                                Adding Radio Buttons
                                User Name:
                                Password:
                                Gender: Male Female
```



### Grouping the radio buttons

```
<input type="radio" name="sex" value="male"> Male
<input type="radio" name="sex" value="female"> Female<br> <br> <input type="radio" name="sex1" value="female"> Test<br> <br> <br> <br>
```

```
Gender: Male Female
Test
```



### **Adding Checkboxes**

```
<input type="checkbox" name="privacy" value="nic"> National Identity Card (NIC)<br> <br>
         <input type="checkbox" name="privacy" value="strecrd"> Student Record
Book<br> <br>>
         <input type="checkbox" name="privacy" value="stdc"> Student Identity Card<br>
<br>
         <input type="checkbox" name="privacy" value="birth"> Birth Certificate<br> <br>
                                    Tick on type of documents to identify you:

    National Identity Card (NIC)

                                       Student Record Book
                                       Student Identity Card
                                       Birth Certificate
```



### **Checked Attribute**

<input type="checkbox" name="privacy" value="nic" checked="checked"> National Identity Card (NIC)<br> <br>

Tick on type of documents to identify you:



National Identity Card (NIC)



### Simple Drop-down Box

Simple Drop-down box		
User Name :		
Password :		
Gender : Female ▼		
Male Calaster Attribute		



### selected Attribute

```
<select name="gender">
       <option name="female">Female</option>
       <option name="male" selected="selected">Male</option>
</select>
                      Password:
                      Gender:
                               Male
```



### **HTML Buttons**

HTML Buttons		
User Name :		
Password :		
Back		



# Adding submit & reset Buttons

```
<h3>Adding Submit/Reset Buttons</h3>
    <form action="12 Forms.html" method="get">
      First Name : <input type="text" name="firstname"> <br>
      Last Name: <input type="text" name="lastname"> <br> <br>
      <input type="submit" value="Go to HTML Form 1">
      <input type="reset" value="Clear">
                                          Adding Submit/Reset Buttons
    </form>
                                          First Name:
                                          Last Name:
                                           Go to HTML Form 1
                                                        Clear
```



#### POST & GET methods

- GET-Requests data from a specified resource <form action="8\_1\_Forms.html" method="get"> check the URL
- POST-Submits data to be processed to a specified resource



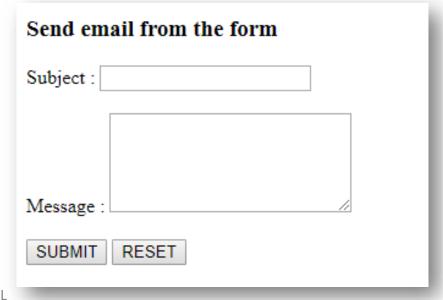
#### Send email from the form

<form action="MAILTO:someone@gmail.com" method="post" enctype="multipart/formdata">

Subject : <input name="subject" type="text"> <br> <br>

Message: <textarea name="textmsg" cols="25" rows="5"></textarea> <br> <br>

<input type="submit" value="SUBMIT"> <input type="reset" value="RESET"> </form>





#### HTML Form elements

```
<fieldset>
                                                <legend>
                                                                General Form
                                                 </legend>
                                                 <form>
                                                                  Text:<input maxlength="3" type="text" required><br> <br>>
                                                                Number (maxLength: 3, min: 100, max: 980): <i nput type="number" size="3" min=100 max="980" >
<br> <br>>
                                                              range:<input type="range" min=100 max="980"><br> Color:<input type="color"><br> File:<input type="file"><br> Color:<input type="file"><br/> Color:<input type="file"><b
                                                              Search:<input type="search"><br> URL:<input type="url"><br> <br> Week:<input type="week"><br> <input type="submit"><br> <br> /s
                                                 </form>
                                 </fieldset>
```



# **HTML** Input Types

#### Here are the different input types you can use in HTML:

```
<input type="button">
                                            <input type="radio">
<input type="checkbox">
                                            <input type="range">
<input type="color">
                                            <input type="reset">
<input type="date">
                                            <input type="search">
<input type="datetime-local">
                                            <input type="submit">
<input type="email">
                                            <input type="tel">
                                            <input type="text">
<input type="file">
<input type="hidden">
                                            <input type="time">
<input type="image">
                                            <input type="url">
<input type="month">
                                            <input type="week">
<input type="password">
```



## **HTML Form Elements**

Tag	Description
<form></form>	Defines an HTML form for user input
<input/>	Defines an input control
<textarea>&lt;/td&gt;&lt;td&gt;Defines a multiline input control (text area)&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;label&gt;&lt;/td&gt;&lt;td&gt;Defines a label for an &lt;input&gt; element&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;fieldset&gt;&lt;/td&gt;&lt;td&gt;Groups related elements in a form&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;legend&gt;&lt;/td&gt;&lt;td&gt;Defines a caption for a &lt;fieldset&gt; element&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;select&gt;&lt;/td&gt;&lt;td&gt;Defines a drop-down list&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;optgroup&gt;&lt;/td&gt;&lt;td&gt;Defines a group of related options in a drop-down list&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;option&gt;&lt;/td&gt;&lt;td&gt;Defines an option in a drop-down list&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;button&gt;&lt;/td&gt;&lt;td&gt;Defines a clickable button&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;datalist&gt;&lt;/td&gt;&lt;td&gt;Specifies a list of pre-defined options for input controls&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;output&gt;&lt;/td&gt;&lt;td&gt;Defines the result of a calculation&lt;/td&gt;&lt;/tr&gt;&lt;/tbody&gt;&lt;/table&gt;</textarea>	





#### HTML5 Attributes

#### HTML5 added the following attributes for <input>:

- autocomplete
- autofocus
- •form
- formaction
- formenctype
- formmethod
- •formnovalidate
- formtarget
- height and width
- List

- •min and max
- multiple
- pattern (regexp)
- placeholder
- required
- step

#### and the following attributes for <form>:

- •Autocomplete specifies whether a form or input field should have autocomplete on or off. When autocomplete is on, the browser automatically completes the input values based on values that the user has entered before.
- Novalidate the form data should not be validated when submitted



# autocomplete

- specifies whether a form or input field should have autocomplete on or off.
- When autocomplete is on, the browser automatically completes the input values based on values that the user has entered before.

Ex:

https://www.w3schools.com/html/tryit.asp?filename=tryhtml5\_input\_autocomplete



#### autofocus

• The autofocus attribute specifies that the input field should automatically get focus when the page loads.

Ex:

https://www.w3schools.com/html/tryit.asp?filename=tryhtml5\_input\_autofocus



#### The form Attribute

• The form attribute specifies one or more forms an <input> element belongs to.



### formaction

 Specifies the URL of a file that will process the input control when the form is submitted.

 The formaction attribute overrides the action attribute of the <form> element.

 The formaction attribute is used with type="submit" and type="image".

Ex:

https://www.w3schools.com/html/tryit.asp?filename=tryhtml5\_input\_formaction



# formenctype

 The formenctype attribute specifies how the form data should be encoded when submitted (only for forms with method="post").

 The formenctype attribute overrides the enctype attribute of the <form> element.

 The formenctype attribute is used with type="submit" and type="image".



### formmethod

 The formmethod attribute defines the HTTP method for sending form-data to the action URL.

 The formmethod attribute overrides the method attribute of the <form> element.

 The formmethod attribute can be used with type="submit" and type="image".

Ex:

https://www.w3schools.com/html/tryit.asp?filename=tryhtml5\_input\_formmethod



### formnovalidate

• The formnovalidate attribute overrides the novalidate attribute of the <form> element.

 The formnovalidate attribute can be used with type="submit".

Ex:

https://www.w3schools.com/html/tryit.asp?filename=tryhtml5\_input\_formnovalidate



# formtarget

 The formtarget attribute specifies a name or a keyword that indicates where to display the response that is received after submitting the form.

 The formtarget attribute overrides the target attribute of the <form> element.

 The formtarget attribute can be used with type="submit" and type="image".

Ex: <a href="https://www.w3schools.com/html/tryit.asp?filename=tryhtml5">https://www.w3schools.com/html/tryit.asp?filename=tryhtml5</a> input formtarget



### The list Attribute

 The list attribute refers to a <datalist> element that contains pre-defined options for an <input> element.

```
<input list="browsers">

<datalist id="browsers">
    <option value="Internet Explorer">
     <option value="Firefox">
     <option value="Chrome">
     <option value="Opera">
     <option value="Safari">
     </datalist>
```



# multiple

• The multiple attribute specifies that the user is allowed to enter more than one value in the <input> element.

 The multiple attribute works with the following input types: email, and file.

Ex:

https://www.w3schools.com/html/tryit.asp?filename=tryhtml5\_input\_multiple



## pattern

• The pattern attribute specifies a regular expression that the <input> element's value is checked against.

 The pattern attribute works with the following input types: text, search, url, tel, email, and password.

```
pattern="[A-Za-z]{3}"
//should contains 3 alphabetic character in upper or lowercase
```

Ex:

https://www.w3schools.com/html/tryit.asp?filename=tryhtml5\_input\_pattern



# placeholder

• The placeholder attribute specifies a hint that describes the expected value of an input field (a sample value or a short description of the format).

• The hint is displayed in the input field before the user enters a value.

 The placeholder attribute works with the following input types: text, search, url, tel, email, and password.

Ex:

https://www.w3schools.com/html/tryit.asp?filename=tryhtml5\_input\_placeholder



# required

• The required attribute specifies that an input field must be filled out before submitting the form.

 The required attribute works with the following input types: text, search, url, tel, email, password, date pickers, number, checkbox, radio, and file.

Ex:

https://www.w3schools.com/html/tryit.asp?filename=tryhtml5\_input\_required



## step

 The step attribute specifies the legal number intervals for an <input> element.

• Example: if step="3", legal numbers could be -3, 0, 3, 6, etc.

Ex:

https://www.w3schools.com/html/tryit.asp?filename=tryhtml5\_input\_step





https://padlet.com/hansi3/CTEC31052



