

Basics of Web and HTML

Objective

- Understand Design Layout for UI
- Differentiate between div and span tags in HTML
- Understand how to use tables and forms in HTML



HTML Table

- Tables are defined with the tag.
- A table is divided into rows with the
 tag. (tr stands for table row)
- A row is divided into data cells with the tag. (td stands for table data)
- A row can also be divided into headings with the tag. (th stands for table heading)
- The elements are the data containers in the table.
- The elements can contain all sorts of HTML elements like text, images, lists, other tables, etc.
- The width of a table can be defined using style tag.



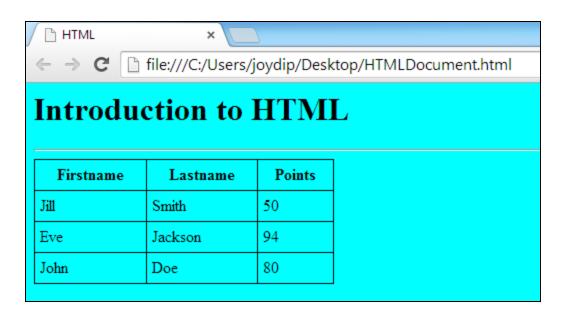
HTML Table Tags

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></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 Table: Example

```
<html>
<head>
<title>HTML</title>
<style>
table,th,td { border:1px solid black; border-collapse:collapse; }
th,td { padding:5px; }
</style>
</head>
<body bgcolor="Aqua">
<h1> Introduction to HTML </h1>
<hr/>
Firstname
Lastname
Points
Jill
Smith
50
Eve
Jackson
94
John
Doe
80
</body>
</html>
```

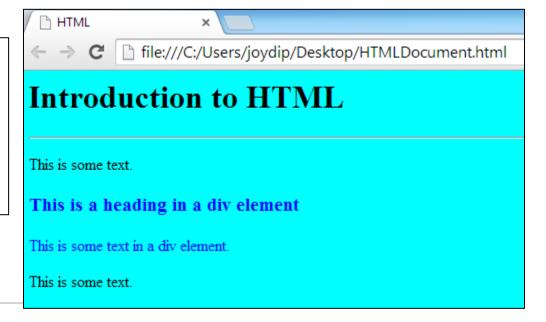




HTML Div Tag

- The <div> tag defines a division or a section in an HTML document.
- The <div> tag is used to group block-elements to format them with style tag.
- Note: By default, browsers always place a line break before and after the
 <div> element. However, this can be changed with style tag

This is some text.
<div style="color:#0000FF">
 <h3>This is a heading in a div element</h3>
 This is some text in a div element.
</div>
This is some text.





HTML Span tag

- The tag is used to group inline-elements in a document.
- The tag provides no visual change by itself.
- The tag provides a way to add a hook to a part of a text or a part of a document

```
My mother has
<span style="color:blue;font-weight:bold">blue</span>
eyes and my father has
<span style="color:darkolivegreen;font-weight:bold">dark green</span> eyes.
```

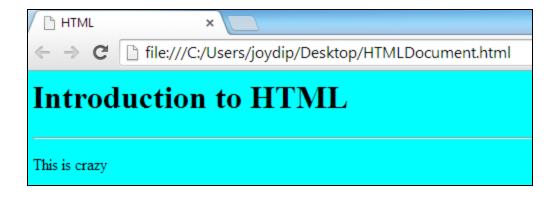




Difference Between Span and Div

• The difference between span and div is that a span element is *in-line* and usually used for a small chunk of HTML inside a line (such as inside a paragraph) whereas a div (division) element is *block-line* (which is basically equivalent to having a line-break before and after it) and used to group larger chunks of code.

```
<div id="scissors">
  This is <span class="paper">crazy</span>
</div>
```

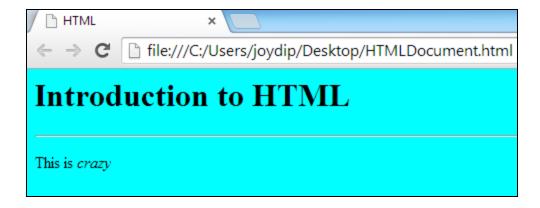




Caution About Span and Div tag

- div and especially span shouldn't actually be used that often. Whenever there is a sensible alternative that should be used instead.
- For example, if you want to emphasize the word "crazy" and the class "paper" is adding italics for visual emphasis, then, for richer, more meaningful content, the code might look like this:

```
<div id="scissors">
  This is <em class="paper">crazy</em>
</div>
```





Understand Design Layout for UI

- Most websites have put their content in multiple columns (formatted like a magazine or newspaper).
- Multiple columns are created by using <div> or elements. CSS are
 used to position elements, or to create backgrounds or colorful look for the
 pages.



HTML Layouts - Using <div> Elements

- Defines a section in a document (block-level)
- The div element is a block level element used for grouping HTML elements

```
<div id="container" style="width:500px">
                                                                      ← → C ☐ file:///C:/Users/joydip/Desktop/HTMLDocument.html
<div id="header" style="background-color:#FFA500;">
                                                                      Introduction to HTML
<h1 style="margin-bottom:0;">
Main Title of Web Page</h1></div>
                                                                     Main Title of Web Page
<div id="menu"
style="background-color:#FFD700;height:200px;width:100px;float:left;">
                                                                                 Content goes here
                                                                      Menu
<b>Menu</b><br>
                                                                     HTML
                                                                      CSS
HTML<br>
                                                                      JavaScript
CSS<br>
JavaScript</div>
<div id="content"
style="background-color:#EEEEEE;height:200px;width:400px;float:left;">
Content goes here </div>
                                                                                         Copyright © mindtree.com
<div id="footer"
style="background-color:#FFA500;clear:both;text-align:center;">
Copyright @ mindtree.com</div>
</div>
```



HTML Layouts - Using Elements

```
<h1>Main Title of Web Page</h1>
                               THTML
← → C 🗋 file:///C:/Users/joydip/Desktop/HTMLDocument.html
Introduction to HTML
<b>Menu</b><br>
                              Main Title of Web Page
HTML<br>
CSS<br>
JavaScript
Menu
Content goes here
                              HTML
Content goes here
                              JavaScript
Copyright © mindtree com
Copyright © mindtree.com
```



HTML Form Tag

- HTML forms are used to pass data to a server.
- An HTML form can contain input elements like text fields, checkboxes, radio-buttons, submit buttons and more. A form can also contain select lists, textarea, fieldset, legend, and label elements.
- The <form> tag is used to create an HTML form
- HTML Forms The Input Element
 - The most important form element is the <input> element.
 - The <input> element is used to select user information.
 - An <input> element can vary in many ways, depending on the type attribute. An < input> element can be of type text field, checkbox, password, radio button, submit button, and more.



HTML Form Tag: Action Attribute

- Action attribute specifies where to send the form-data when a form is submitted.
- Syntax:

- URL: Where to send the form-data when the form is submitted. Possible values:
 - An absolute URL points to another web site (like action="http://www.example.com/example.htm")
 - A relative URL points to a file within a web site (like action="example.htm")



HTML Form Tag: Method Attribute

- The method attribute specifies how to send form-data (the form-data is sent to the page specified in the action attribute).
- The form-data can be sent as URL variables (with method="get") or as HTTP post transaction (with method="post").

GET Method:

- Appends form-data into the URL in name/value pairs
- The length of a URL is limited (about 3000 characters)
- Never use GET to send sensitive data! (will be visible in the URL)
- Useful for form submissions where a user want to bookmark the result
- GET is better for non-secure data, like query strings in Google

POST Method:

- Appends form-data inside the body of the HTTP request (data is not shown is in URL)
- Has no size limitations
- Form submissions with POST cannot be bookmarked
- Syntax:

```
<form method="get|post">
```



HTML Form Tag: Action and Method Attribute Example

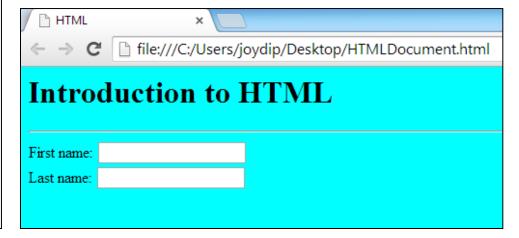
```
<form action="demo_form.asp" method="get">
   First name: <input type="text" name="fname"><br>
   Last name: <input type="text" name="lname"><br>
   <input type="submit" value="Submit">
   </form>
```



Text Fields

<input type="text"> defines a one-line input field that a user can enter text into:

```
<html>
<head>
<title>HTML</title>
</head>
<body bgcolor="Aqua">
<form>
<h1> Introduction to HTML </h1>
<hr/>
First name: <input type="text" name="firstname"> <br>
Last name: <input type="text" name="lastname"> </form>
</body>
</html>
```

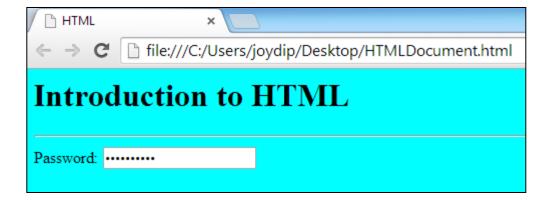




Password Field

<input type="password"> defines a password field:

```
<html>
<head>
<title>HTML</title>
</head>
<body bgcolor="Aqua">
<form>
<h1> Introduction to HTML </h1>
<hr/>
Password: <input type="password" name="pwd">
</form>
</body>
</html>
```

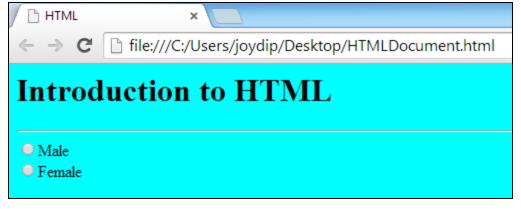




Radio Buttons

<input type="radio"> defines a radio button. Radio buttons let a user select
 ONLY ONE of a limited number of choices:

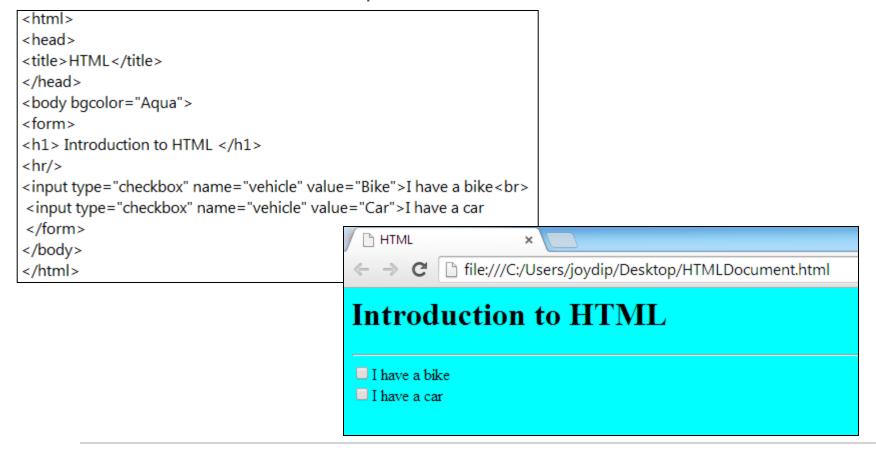
```
<html>
<head>
<title>HTML</title>
</head>
<body bgcolor="Aqua">
<form>
<h1> Introduction to HTML </h1>
<hr/>
<input type="radio" name="sex" value="male">Male<br>
<input type="radio" name="sex" value="female">Female</form>
</body>
</html>
```





Checkboxes

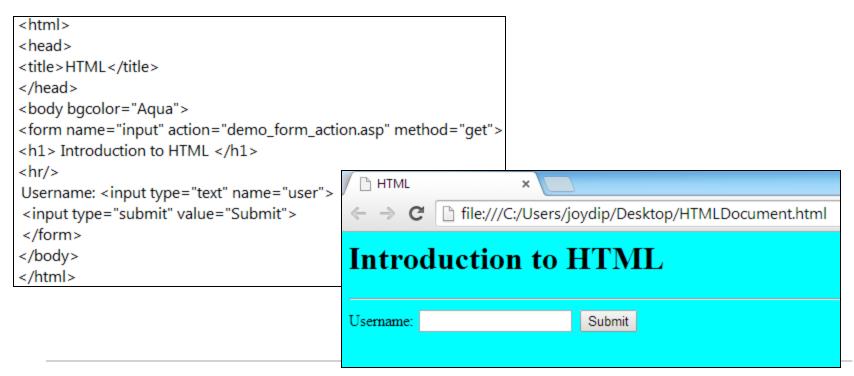
 <input type="checkbox"> defines a checkbox. Checkboxes let a user select ZERO or MORE options of a limited number of choices.





Submit Button

- <input type="submit"> defines a submit button.
- A submit button is used to send form data to a server. The data is sent to the page specified in the form's action attribute. The file defined in the action attribute usually does something with the received input





References

- http://www.w3schools.com/html/DEFAULT.asp
- http://html.net/tutorials/html/
- http://www.codecademy.com/tracks/web
- http://htmldog.com/guides/html/intermediate/spandiv/
- http://stackoverflow.com/questions/183532/what-is-the-difference-betweenhtml-tags-div-and-span
- http://www.tutorialspoint.com/html/html_tables.htm



Thank You

Welcome to possible

www.mindtree.com/social