

Column and Row Span – Example

table-colspan-rowspan.html

```
<table cellspacing="0">
  <tr class="1">
    <td>Cell[1,1]</td>
    <td colspan="2">Cell[2,1]</td>
  </tr>
  <tr class="2">
    <td>Cell[1,2]</td>
    <td rowspan="2">Cell[2,2]</td>
    <td>Cell[3,2]</td>
  </tr>
  <tr class="3">
    <td>Cell[1,3]</td>
    <td>Cell[2,3]</td>
  </tr>
</table>
```

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Column and Row Span – Example (2)

table-colspan-rowspan.html

```
<table cellspacing="0">
  <tr class="1">
    <td>Cell[1,1]</td>
    <td colspan="2">Cell[2,1]</td>
  </tr>
  <tr class="2">
    <td>Cell[1,2]</td>
    <td rowspan="2">Cell[2,2]</td>
    <td>Cell[3,2]</td>
  </tr>
  <tr class="3">
    <td>Cell[1,3]</td>
    <td>Cell[2,3]</td>
  </tr>
</table>
```

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Row and Column Spans

Live Demo

123			
1	2	3	+
4	5	6	-
7	8	9	*
0	.		/

- Create Web Pages like the following using tables:

Fresh Fruits
It has long been known that a diet that includes at least a few servings of fresh fruit every day will help keep you healthy, fit and trim.



Title goes here	A	B
D	E	G
C	H	I
K	L	M
N	O	J

- Create a Web Page like the following using forms:

Member name :	<input type="text"/>	*req
Email :	<input type="text"/>	*req
School :	<input type="text"/>	*req
		

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Homework (3)

3. Create a Calculator-like table.
You should use a HTML 5 form for the Calculator

- Buttons for all the numbers and operators (+, -, etc.)
- Textbox for the result
- Do not make the same styles as the example

123			
1	2	3	+
4	5	6	-
7	8	9	*
0	.		/

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HTML Forms and Frames



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HTML Forms

Entering User Data from a Web Page

What are HTML Forms?

- The primary method for gathering data from site visitors
- HTML Forms can contain
 - Text fields for the user to type
 - Buttons for interactions like "Register", "Login", "Search"
 - Menus, Sliders, etc...
- Check Google, Yahoo, Facebook
 - Google search field is a simple Text field



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How to Create a HTML Form?

- Create a form block with


```
<form></form>
```

The "method" attribute tells how the form data should be sent – via GET or POST request
- Example:


```
<form name="myForm" method="post" action="path/to/some-script.php">
        ...
      </form>
```

The "action" attribute tells where the form data should be sent

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Text Fields

- Single-line text input fields:


```
<input type="text" name="FirstName" value="This is a text field" />
```
- Multi-line text input fields (textarea):


```
<textarea name="Comments">This is a multi-line text field</textarea>
```

TERMS AND CONDITIONS...
- Password input – a text field which masks the entered text with * signs


```
<input type="password" name="pass" />
```

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Buttons

- ♦ **Reset button** – brings the form to its initial state


```
<input type="reset" name="resetBtn" value="Reset the form" />
```
- ♦ **Submit button:**

```
<input type="submit" value="Apply Now" />
```
- ♦ **Image button** – acts like submit but image is displayed and click coordinates are sent


```
<input type="image" src="submit.gif" name="submitBtn" alt="Submit" />
```
- ♦ **Ordinary button** – no default action, used with JS


```
<input type="button" value="click me" />
```

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Checkboxes and Radio Buttons

- ♦ **Checkboxes:**
 I accept:

```
<input type="checkbox" name="fruit" value="apple" />
```
- ♦ **Radio buttons:**
 Male Female


```
<input type="radio" name="title" value="Mr." />
```
- ♦ **Radio buttons can be grouped, allowing only one to be selected from a group:**

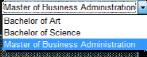
```
<input type="radio" name="city" value="Lom" />
<input type="radio" name="city" value="Ruse" />
```

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Select Fields

- ♦ **Dropdown menus:**

```
<select name="gender">
  <option value="Value 1" selected="selected">Male</option>
  <option value="Value 2">Female</option>
  <option value="Value 3">Other</option>
</select>
```


- ♦ **Multiple-choice menus**

```
<select name="products" multiple="multiple">
  <option value="Value 1" selected="selected">keyboard</option>
  <option value="Value 2">mouse</option>
</select>
```



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Hidden Fields

- ♦ **Hidden fields contain invisible data**

```
<input type="hidden" name="Account" value="This is a hidden text field" />
```
- ♦ **Not shown to the user**
- ♦ **Used by JavaScript and server-side code**
- ♦ **ViewState, SessionState in ASP.NET**

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Labels

- Labels are used to associate an explanatory text to a form field using the field's ID

```
<label for="fn">First Name</label>
<input type="text" id="fn" />
```

- Clicking on a label focuses its associated field
 - Checkboxes are toggled
 - Radio buttons are checked
- Labels are
 - Both a usability and accessibility feature
 - Required in to pass accessibility validation

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Fieldsets

- Fieldsets are used to enclose a group of related form fields:

```
<form method="post" action="form.aspx">
  <fieldset>
    <legend>Client Details</legend>
    <input type="text" id="Name" />
    <input type="text" id="Phone" />
  </fieldset>
  <fieldset>
    <legend>Order Details</legend>
    <input type="text" id="Quantity" />
    <textarea cols="40" rows="10"
      id="Remarks"></textarea>
  </fieldset>
</form>
```

- The **<legend>** is the fieldset's title

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HTML Forms Inputs Fields

Live Demo

Sliders and Spinboxes

Lets Make It Spin

Range and Spinbox

- Restricts users to enter only numbers
 - Additional attributes min, max and step and value
 - Can become Spinbox or Slider, depending on the input type

```
<input type="range" min="0" max="100" />
<input type="number" min="0" max="100" />
```

- Have some differences on different browsers
- Sliders and Spinboxes do not work on Firefox
 - Shown as regular textboxes

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Sliders and Spinboxes

Live Demo

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255
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Field Attributes from HTML 5

- Autocomplete
 - The browser stores the previously typed values
 - Brings them back on a later visit
- Autofocus
 - The field becomes on focus on page load

```
<input type="text" name="firstName"
      autofocus="autofocus" />
```

- Required
 - The field is required to be filled/selected

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Input Fields with Validation

- ♦ Email – provides a simple validation for email
 - Can be passed a pattern for validation
 - In a mobile device brings the email keyboard

```
<input type="email" required="true"
      pattern="[^@]+@[^\@].[^\@]"/>
```

- ♦ URL – has validation for url
 - In a mobile device brings the url keyboard

```
<input type="url" required="true" />
```

- ♦ Telephone
 - Brings the numeric keyboard

```
<input type="tel" required="true" />
```

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HTML Forms Validation

Live Demo



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Tab Index

- The **tabindex** HTML attribute controls the order in which form fields and hyperlinks are focused when repeatedly pressing the TAB key
 - **tabindex="0"** (zero) – "natural" order
 - If $X < Y$, then elements with **tabindex="X"** are iterated before elements with **tabindex="Y"**
 - Elements with negative **tabindex** are skipped, however, this is not defined in the standard

```
<input type="text" name="second" tabindex="10" />
<input type="text" name="first" tabindex="5" />
```

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Tab Index

Live Demo



HTML Frames

<frameset>, <frame> and <iframe>

HTML Frames

- **Frames provide a way to show multiple HTML documents in a single Web page**
 - ◆ The page can be split into separate views (frames) horizontally and vertically
 - ◆ Frames were popular in the early ages of HTML development, but now their usage is rejected
 - ◆ Frames are not supported by all user agents (browsers, search engines, etc.)
 - ◆ A `<noframes>` element is used to provide content for non-compatible agents.

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HTML Frames – Demo

frames.html

```
<html>  
  <head><title>Frames Example</title></head>  
  <frameset cols="180px,*,150px">  
    <frame src="left.html" />  
    <frame src="middle.html" />  
    <frame src="right.html" />  
  </frameset>  
</html>
```

- Note the target attribute applied to the <a> elements in the left frame.

Inline Frames: <iframe>

- **Inline frames provide a way to show one website inside another website:**

[iframe-demo.html](#)

```
<iframe name="iframeGoogle" width="600" height="400"  
src="http://www.google.com" frameborder="yes"  
scrolling="yes"></iframe>
```

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Semantic Web

How to Use HTML Elements Properly?



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