**HTML Forms and Frames**

HTML Basics

Telerik Software Academy

<http://academy.telerik.com>

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**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**

**How to Create a HTML Form?**

* Create a form block with

<form></form>

* *Example*:

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

...

</form>

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

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

**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>

* **Password** input – a text field which masks the entered text with \* signs

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

**Buttons**

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

<input type="reset" name="resetBtn"

value="Reset the form" />

* **Submit** button:

<input type="submit" name="submitBtn" value="Submit" />

**Buttons**

* **Image** button – acts like submit but image is displayed and click coordinates are sent

<input type="image" src="submit.gif"

value="click me" alt="Submit" />

* **Ordinary** button – no default action, used with JS

<input type="button" value="Apply Now" />

**Checkboxes and Radio Buttons**

* **Checkboxes**:

<input type="checkbox" name="fruit" value="apple" />

* **Radio** buttons:

<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" />

**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>

**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

**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 to pass accessibility validation

**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

[**Demo**](https://github.com/TelerikAcademy/HTML/tree/master/Topics/04.%20HTML-Forms-and-Frames/demos/1.%20Form-input-fields.html)

**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**
* Spinboxes **do not work** on all the browsers
  + Shown as regular textboxes

[**Demo**](https://github.com/TelerikAcademy/HTML/tree/master/Topics/04.%20HTML-Forms-and-Frames/demos/2.%20Sliders-spinboxes.html)

**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

**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 (currently supported only in Safari 8)

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

[**Demo**](https://github.com/TelerikAcademy/HTML/tree/master/Topics/04.%20HTML-Forms-and-Frames/demos/3.%20Forms-validation.html)

**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" />

[**Demo**](https://github.com/TelerikAcademy/HTML/tree/master/Topics/04.%20HTML-Forms-and-Frames/demos/4.%20Tab-index.html)

**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.

**HTML Frames – Demo**

<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.

[**Demo**](https://github.com/TelerikAcademy/HTML/tree/master/Topics/04.%20HTML-Forms-and-Frames/demos/5.%20Frames.html)

**Inline Frames: <iframe>**

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

<iframe name="iframeYoutube"

width="600"

height="400"

src="https://www.youtube.com/"

frameborder="yes"

scrolling="yes">

</iframe>