



HTML Forms and Frames

My list of jokes - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address C:\website\joke11.html

My Registration Page

First name:

Last name:

Password:

Re-Type Password:

Additional Information

SEX:

SELECTION OF JOKES:

Do you want more information on jokes?

HTML Basics

Telerik Software Academy

<http://academy.telerik.com>





Table of Contents

- HTML Forms

- Form Fields and Fieldsets
- Buttons
- Checkboxes and Radio Buttons
- Select Fields
- Hidden Fields
- Sliders and Spinboxes
- Validation Fields

- HTML Frames

- Frame and noframe tags
- iframe tag



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HTML Forms

Entering User Data from a Web Page

SchoolForm - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address C:\F-Form.html Go Narten Address

First Name:

Last Name:

Age:

3-7 yrs

8-13 yrs and over

I would like to learn to work with:

watercolors

acrylics

pastels

I am interested in art lessons besides:

Send me an application now!

Registration Form - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Registration Form

User name:

Password:

Gender: Male Female

Click to accept our terms:

Register Reset

Done

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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



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How to Create a HTML Form?

- Create a form block with

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

- *Example:*

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

```
<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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- 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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- **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"  
/>
```

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- **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" />
```

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Checkboxes and Radio Buttons

I accept:

- Checkboxes:

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

Male Female

- Radio buttons:

```
<input type="radio" name="title" value="Mr." />
```

- Radio buttons can be grouped, allowing **only one** to be selected from a group:

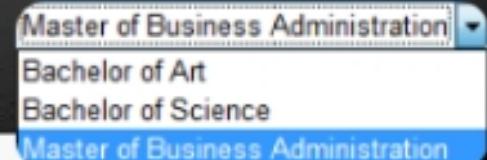
```
<input type="radio" name="city" value="Lom" />
<input type="radio" name="city" value="Ruse" />
```



Select Fields

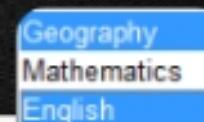
- **Dropdown menus:**

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

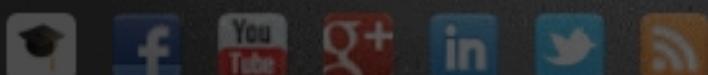


- **Multiple-choice menus:**

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



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- 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 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

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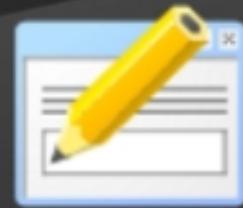




- **Fieldsets** are used to enclose a group of related form fields:

```
<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

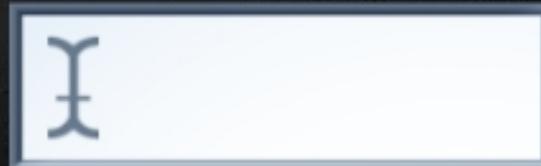


HTML Forms Inputs Fields

Demo



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Sliders and Spinboxes

Lets Make It Spin



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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

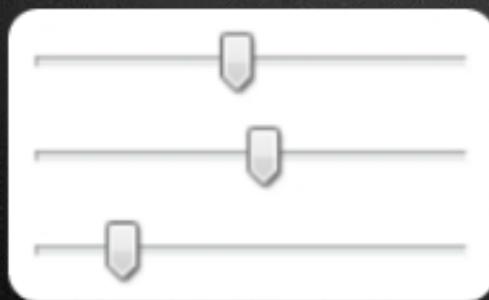
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Sliders and Spinboxes

Demo



63	<input type="button" value="▲"/> <input type="button" value="▼"/>
255	<input type="button" value="▲"/> <input type="button" value="▼"/>
127	<input type="button" value="▲"/> <input type="button" value="▼"/>

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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 (currently supported only in Safari 8)

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

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HTML Forms Validation

Demo



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- 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

Demo



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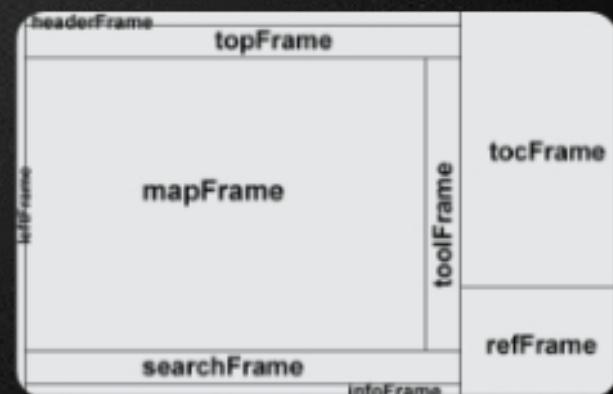


HTML Frames

<frameset>, <frame> and <iframe>



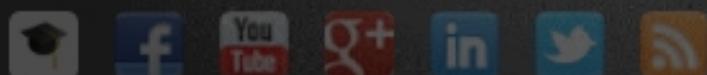
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- **Frames** provide a way to show multiple HTML documents in a single Web page
- The page can be split into separate views (frames) horizontally and vertically
- Frames were popular in the early ages of HTML development, but now their usage is rejected
- 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>
  <head><title>Frames _Example_</title></head>
  <frameset cols="180px, *, 150px">
    <frame src="left.html" ></frame>
    <frame src="middle.html" ></frame>
    <frame src="right.html" ></frame>
  </frameset>
</html>
```

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

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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>
```

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