



# HTML Forms and Frames



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# HTML Forms

## Entering User Data from a Web Page

First Name: \_\_\_\_\_

Last Name: \_\_\_\_\_

Age:

1-17 yrs  
 18 yrs and over

I would like to learn to work with:

watercolors  
 acrylics  
 pastels

I am interested in art lessons because:

Send me an application now!

# 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>
```

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

# Text Fields

- ◆ Single-line text input fields:

```
<input type="text" name="FirstName"  
value="This is a text field" />
```

- ◆ Multi-line text input fields (textarea):

TERMS AND CONDITIONS...

```
<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" 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" />
```

# 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." />
```

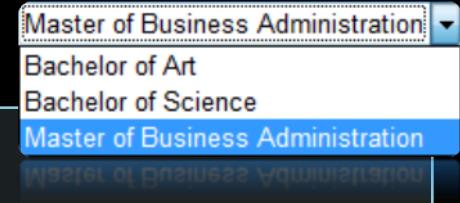
- ◆ **Radio buttons can be grouped, allowing only one to be selected from a group:**

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

# Select Fields

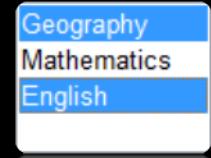
## ◆ Dropdown menus:

```
<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 in to pass accessibility validation

# Fieldsets

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

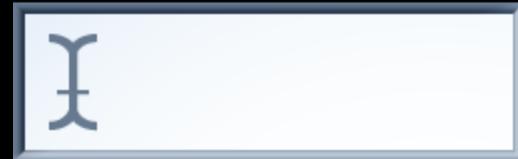
```
<form method="post" action="form.aspx">
    <fieldset>
        <legend>Client Details</legend>
        <input type="text" id="Name" />
        <input type="text" id="Phone" />
    </fieldset>
    <fieldset>
        <legend>Order Details</legend>
        <input type="text" id="Quantity" />
      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

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



# 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

# Sliders and Spinboxes

Live Demo



# 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

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

Name:  \*req

Email:  \*req

School:  \*req

**SUBMIT**

# HTML Forms Validation

Live Demo



# Tab Index

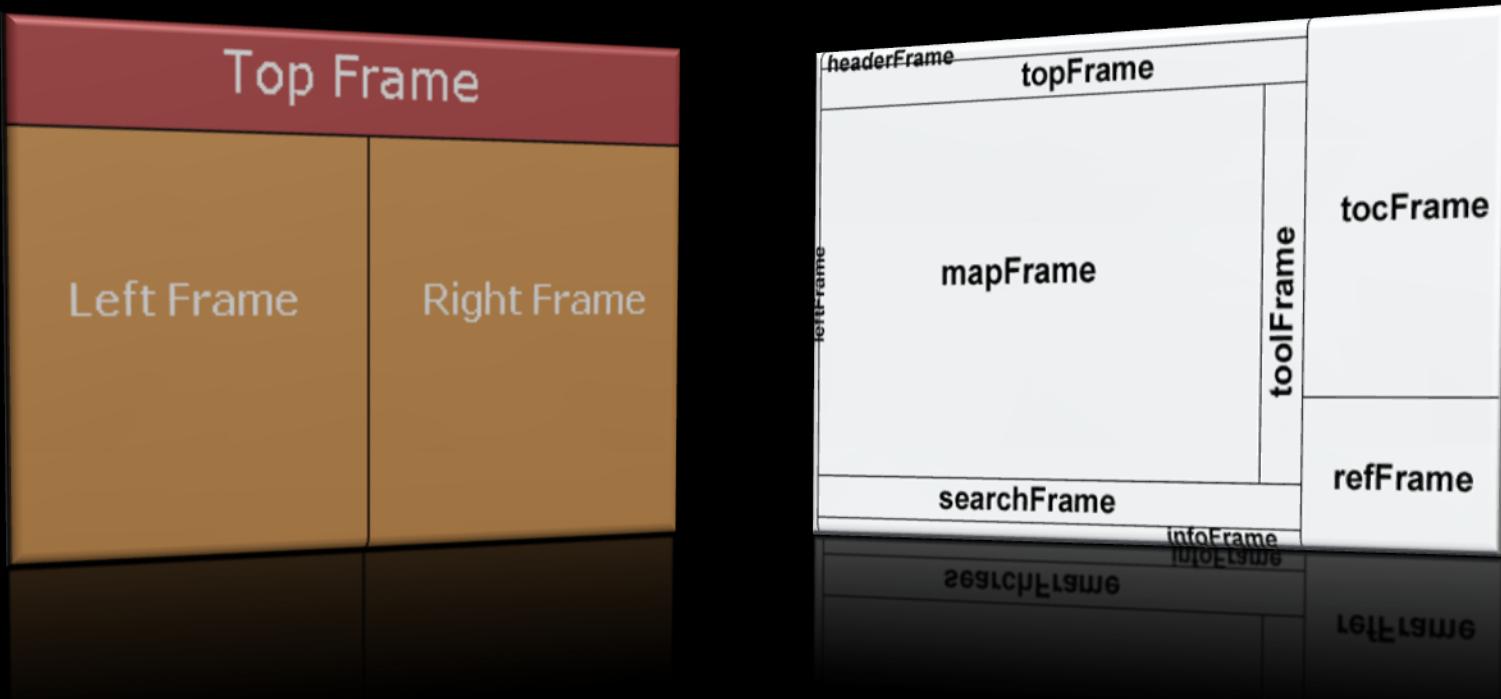
- ◆ The **tabindex** HTML attribute controls the order in which form fields and hyperlinks are focused when repeatedly pressing the TAB key
  - ◆ **tabindex="0"** (zero) – "natural" order
  - ◆ If **X < Y**, then elements with **tabindex="X"** are iterated before elements with **tabindex="Y"**
  - ◆ 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" />
```

# 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.

# 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  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="iframeW3schools" width="600"  
height="400" src="http://www.w3schools.com"  
frameborder="yes" scrolling="yes"></iframe>
```

# HTML Forms and Frames

Questions?

# Homework (I)

## I. Create a Web form that looks like this sample:

size attribute  
(for input)

placeholder attribute  
(for input)

maxlength attribute  
(for input)

tfoot  
(for table)

Last Name - Mozilla Firefox

File Edit View Go Bookmarks Tools Help

Back Forward Stop Home /sample-form.htm Go G

Last Name	Nakov					
First Name	Svetlin					
Address	17 Hristo Botev Str. floor 3, apt. 12					
City	Kaspichan	State				
Zip/Postal Code	9325					
Country	Bulgaria					
Phone (country code, area code, number)	( +359 ) 88 - 8334343					
E-mail	nakov@kaspichan.org					
Birth date	Month	06	Day	14	Year (4 digit)	1980
Gender	Male					
Starting date	<input checked="" type="radio"/> Spring 2006 <input type="radio"/> Summer 2006					
Comments/Questions	Please send me mor information about the lodging.					
<input type="button" value="Submit"/> <input type="button" value="Clear This Form"/>						

# Homework (2)

## 2. Create the following using tables and forms:

th included in thead  
(for table)

border-collapse: collapse;  
border: 1px solid #B5A6A6;  
(css formatting for table)

tfoot  
(for table)

button type  
(for form)

Order	Personal Info				University Marks				
	First Name	Last Name	Faculty Number	English	Math	Biology	Physics	Total	
1	Pesho	Yordanov	123456	2	3	4	5	3.50	
2	Pesho	Yordanov	123456	2	3	4	5	3.50	
3	Pesho	Yordanov	123456	2	3	4	5	3.50	
4	Pesho	Yordanov	123456	2	3	4	5	3.50	
5	Pesho	Yordanov	123456	2	3	4	5	3.50	
6	Pesho	Yordanov	123456	2	3	4	5	3.50	
7	Pesho	Yordanov	123456	2	3	4	5	3.50	
8	Pesho	Yordanov	123456	2	3	4	5	3.50	
9	Pesho	Yordanov	123456	2	3	4	5	3.50	
10	Pesho	Yordanov	123456	2	3	4	5	3.50	
Previous				1, 2, 3, 4, ..., 10				Next	

# Homework (3)

3. \*Create the following HTML Page

◆ Hint: Use Fieldsets and Nested tables

[Apple](#) [Toshiba](#) [Lenovo](#) [Dell](#) [Asus](#) [Hacer](#) [HP](#)

Apple MacBook Air	Apple MacBook Air
 64GB SSD 2GB DDR 1300 USD Intel Core i5	 64GB SSD 2GB DDR 1300 USD Intel Core i5
Apple MacBook Air	Apple MacBook Air
 64GB SSD 2GB DDR 1300 USD Intel Core i5	 64GB SSD 2GB DDR 1300 USD Intel Core i5
Apple MacBook Air	Apple MacBook Air
 64GB SSD 2GB DDR 1300 USD Intel Core i5	 64GB SSD 2GB DDR 1300 USD Intel Core i5

Min price: 500 USD

Max price: 1500 USD

Min RAM: 4 GB

Max RAM: 16 GB

# Homework (4)

## 4. Construct the following Grid component:

Drag a column header and drop it here to group by that column

ProductID	Product name	Unit price	Quantity per unit	Units in stock	Discontinued
1	Chai	\$18.00	10 boxes x 20 bags	39	<input type="checkbox"/>
2	Chang	\$19.00	24 - 12 oz bottles	17	<input type="checkbox"/>
3	Aniseed Syrup	\$10.00	12 - 550 ml bottles	13	<input type="checkbox"/>
4	Chef Anton's Cajun Seasoning	\$22.00	48 - 6 oz jars	53	<input type="checkbox"/>
5	Chef Anton's Gumbo Mix	\$21.35	36 boxes	0	<input checked="" type="checkbox"/>
6	Grandma's Boysenberry Spread	\$25.00	12 - 8 oz jars	120	<input type="checkbox"/>
7	Uncle Bob's Organic Dried Pears	\$30.00	12 - 1 lb pkgs.	15	<input type="checkbox"/>
8	Northwoods Cranberry Sauce	\$40.00	12 - 12 oz jars	6	<input type="checkbox"/>
9	Mishi Kobe Niku	\$97.00	18 - 500 g pkgs.	29	<input checked="" type="checkbox"/>
10	Ikura	\$31.00	12 - 200 ml jars	31	<input type="checkbox"/>

1 2 3 4 5 6 7 8 9 10 ... Page size: 10 335104 items in 33511 pages

- ◆ Try to make a HTML page, that looks just like the example
- ◆ Not required to style for the homework