

WEBD 162

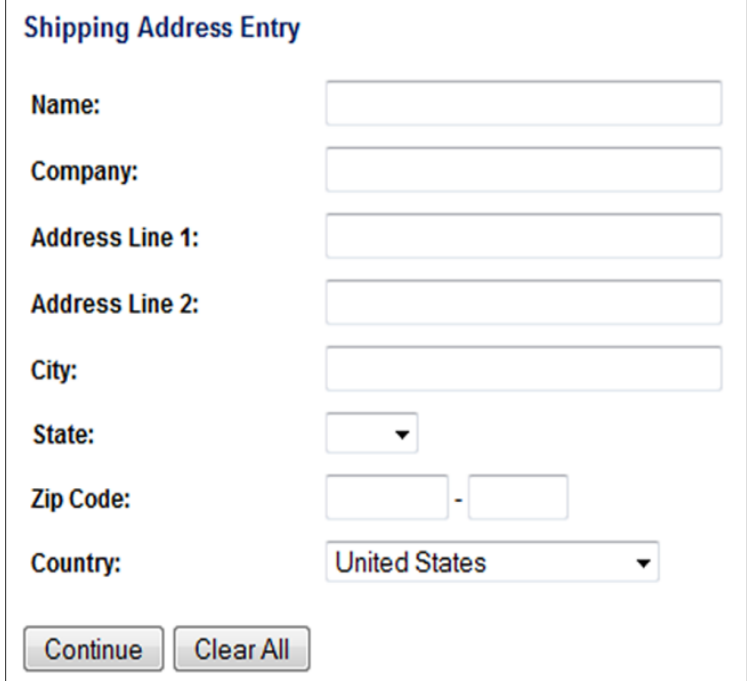
Class 15 Chapter 9 - HTML Forms

Overview of Forms

Form

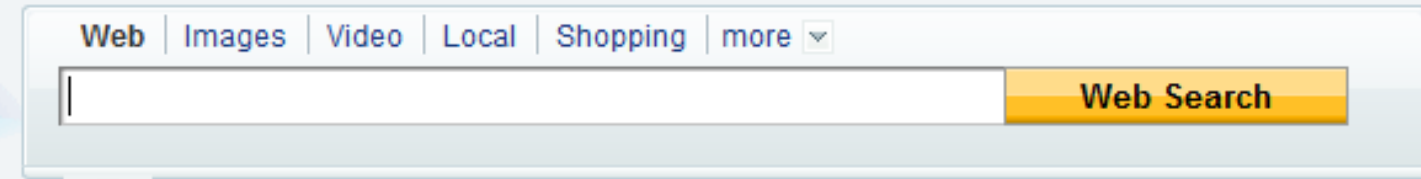
- ▶ **form controls / elements**

- ▶ Text box
- ▶ Check / radio box
- ▶ Dropdown list
- ▶ Buttons



A screenshot of a web form titled "Shipping Address Entry". The form contains several input fields: "Name:", "Company:", "Address Line 1:", "Address Line 2:", "City:", "State:" (a dropdown menu), "Zip Code:" (two separate boxes separated by a hyphen), and "Country:" (a dropdown menu showing "United States"). At the bottom of the form are two buttons: "Continue" and "Clear All".

- ▶ **Accept information from users**



A screenshot of a web search interface. It features a horizontal navigation bar with tabs labeled "Web", "Images", "Video", "Local", "Shopping", and "more" (with a dropdown arrow). Below the tabs is a large text input field. To the right of the input field is a yellow button labeled "Web Search".

Two Components of Using Forms

1. The HTML form

-- the web page user interface

2. **The server-side processing script**

- ▶ sends e-mail
- ▶ writes to a text file
- ▶ updates a database
- ▶ performs some other type of processing **on the server**

Two Components of Using Forms

The information **MUST** be processed through a **program** running on a **Web Server**

- ▶ - CGI / PERL
- ▶ - ASP / ASPX
- ▶ - ColdFusion
- ▶ - C/C++
- **PHP**
- TCL
- the Unix shell
- JSP

Data is sent to server

Lan Gear Quality Networking Hardware & Software
Home Page | Orders | Your Account | Support | Registration |
Routers | Switches | Adapters | Wiring | Bridges | Servers | Software |

Product Registration

First Name: Last Name:
Address #1:
Address #2:
City: State: Zip:
Country:

Item Purchased: Purchase Date:
Serial Number:

Used For (check one):
☒ Home
☐ Business
☐ Religious or Charitable Institution
☐ Government
☐ Educational Institution

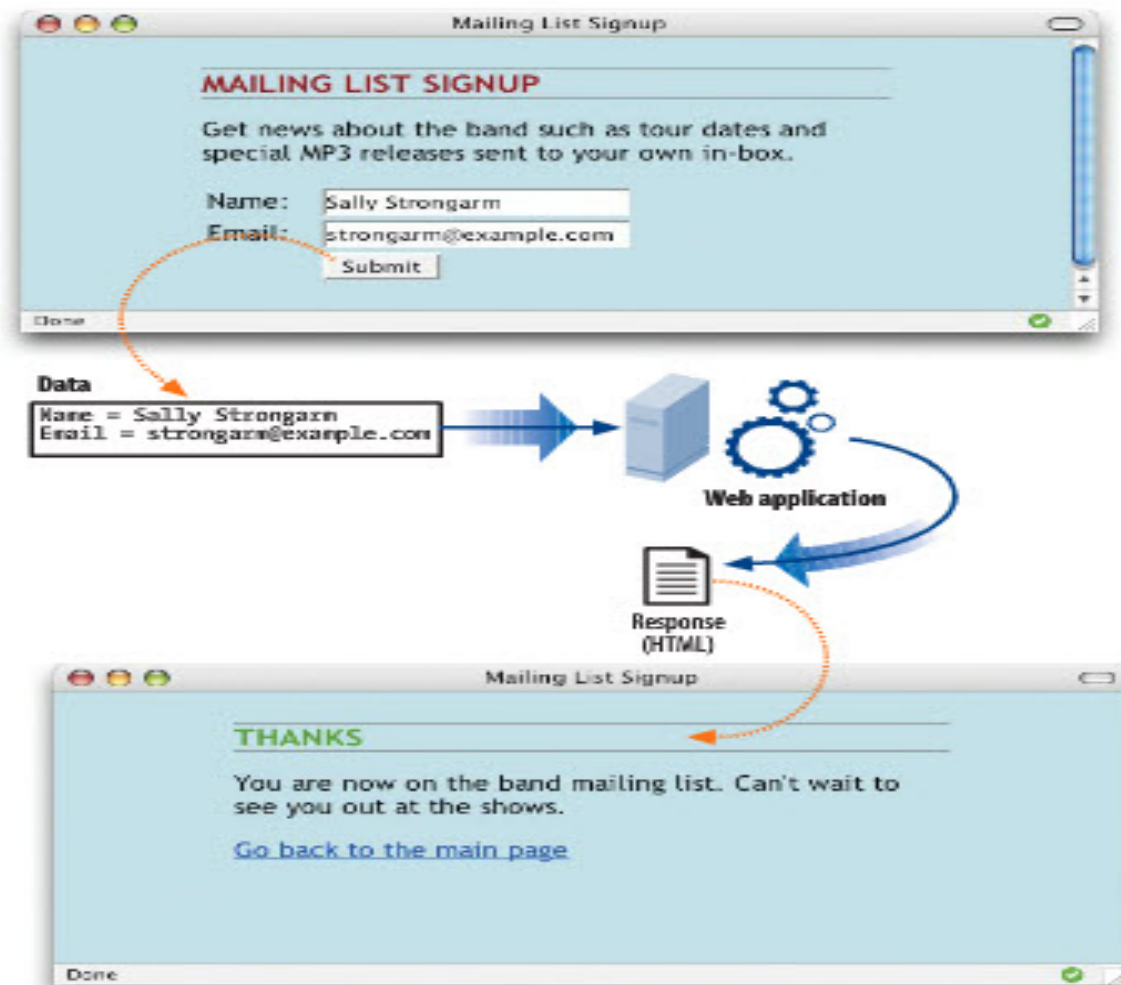
Network Operating System (check all that apply):
☒ Netware
☐ Banyan Vines
☒ Windows
☐ IBM Lan Server
☐ PC/NFS

Comments?



fname/Andrew
lname/Davis
address1 / Room 304
address2 / 211 Hawkins Avenue
...

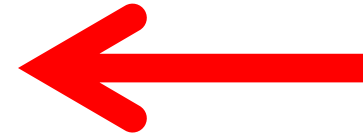
Data is sent to server



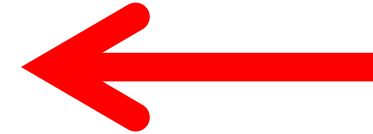
Form element – pg 149 - 150

<form **name**="xyz" **id**="xyz"

action="script.php "



method= "post or get"



enctype=" "

target=" ">

 <!-- form elements / content here -->

</form>

Post vs Get– pg 150 - 151

<form method= “post or get”> </form>

Post

- Data is sent in a separate message
- Can send more data

Get

- Data is sent in the header
- Limited to 1024 KB
- Faster
- Used for search engines / can be bookmarked



```
http://www.bandname.com/maillinglist.php?name=Sally%20Strongarm&email=strongarm%40example.com
```



Text box – naming form elements (variables) – 152



Last Name

```
<input type="text"
```

```
name="last_name"
```

```
id="last_name" >
```

name = for server

id = for JS / CSS

value – what the user enters

Name / Value Pairs are sent to server

Lan Gear Quality Networking Hardware & Software
| Home Page | Orders | Your Account | Support | Registration |
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Product Registration

First Name: Last Name:
Address #1:
Address #2:
City: State: Zip:
Country:

Item Purchased: Purchase Date:
Serial Number:

Used For (check one):
☒ Home
☐ Business
☐ Religious or Charitable Institution
☐ Government
☐ Educational Institution

Network Operating System (check all that apply):
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Comments?



fname/Andrew

lname/Davis

address1 / Room 304

address2 / 211 Hawkins Avenue

...

Label element – pg 154

<label></label>

Associates a text label with a form control

<label>

Email:

<input type="text" name="email" id="email">

</label>

<label for="email">Email: </label>

<input type="text" name="email" id="email">



Input element - text box – pg 154

<input type="text">

- Accepts text information



- Attributes:

- type="text"
- name
- id
- size
- maxlength
- value



textarea = Scrolling Text Box – pg 155

<textarea> </textarea>

- ▶ Configures a scrolling text box

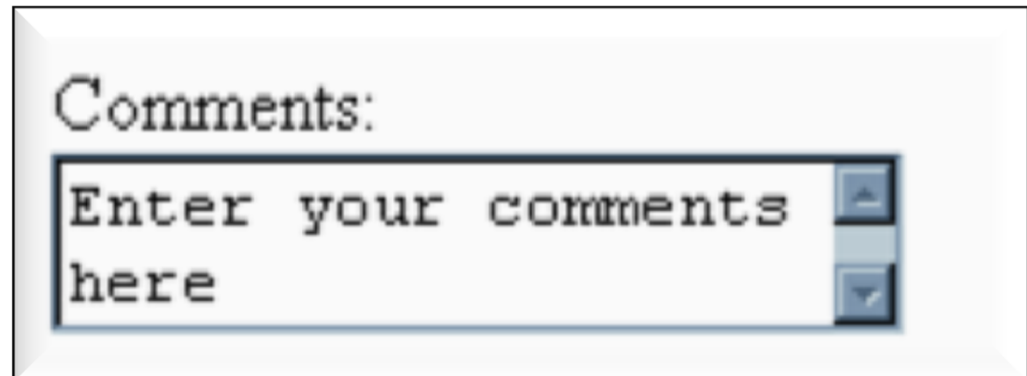
- ▶ Attributes:

- ▶ name

- ▶ id

- ▶ **cols**

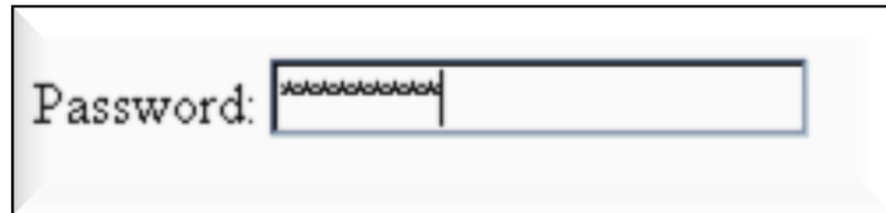
- ▶ **rows**



input –password – pg 157

<input type="password">

- Accepts text information that needs to be hidden as it is entered
- Attributes:
 - type="password"
 - name
 - id
 - size
 - maxlength
 - value



Input – submit / reset/ button– pg 158

```
<p><input type="submit"> <input type="reset" value="Start over"></p>
```



Custom input button

```
<input type="button">
```

**Calls 'action' – send
name/value pairs**

radio buttons / option buttons- pg 161

<input type="radio"

☐ Mr. ☐ Mrs. ☐ Ms.

name="name"

id="id"

value="value" >

Must code in a value

The value
identifies
the choice



radio buttons mutually exclusive

name MUST be the same – values MUST be different

```
<input type="radio" name="xyz"
      id="id1" value="value1" >
```

```
<input type="radio" name="xyz"
      id="id2" value="value2" >
```

```
<input type="radio" name="xyz"
      id="id3" value="value3" >
```

Checked by Default

<input type="radio"

name="name"

id="id"

☐ Mr. ☒ Mrs. ☐ Ms.

value="mrs"

checked > Mrs.



Check box – pg 162

<input type="checkbox" type="checkbox">

☐ Windows XP
☐ Windows 2000

name="name"

id="id"

value="value">

Must code in a value

The value
identifies
the choice

Check box group – same name

```
<input type="checkbox"
      name="os"
      id="os1"
      value="WinXP">
```



```
<input type="checkbox"
      name="os"
      id="os2"
      value="win2000" >
```

→ Name can be the **same!!!**

value MUST be different! id must be different!

Separate check boxes – different name

```
<input type="checkbox" type="checkbox"
      name="os1"
      id="os1"
      value="WinXP" >
```



☒ Windows XP
☐ Windows 2000

```
<input type="checkbox" type="checkbox"
      name="os2"
      id="os2"
      value="win2000" >
```

→ Name can be **different!!!**

value MUST be different! id must be different!

Checked - No Value

```
<input type="checkbox"  
      name="xyz"  
      id="xyz" >
```

If checked – will return “on” as the “value”



Checked by Default

```
<input type="checkbox" checked="checked"
name="os"
id="os"
value="WinXP">
```



<input checked="" type="checkbox"/>	Windows XP
<input type="checkbox"/>	Windows 2000



```
<input type="checkbox" checked="checked" />
```

Select element - drop down menu - 163

```
<p>What is your favorite 80s band?  
<select name="EightiesFave"> ←  
  <option>The Cure</option> ←  
  <option>Cocteau Twins</option>  
  <option>Tears for Fears</option>  
  <option>Thompson Twins</option>  
  <option value="EBTG">Everything But the Girl</option>  
  <option>Depeche Mode</option>  
  <option>The Smiths</option>  
  <option>New Order</option>  
</select>  
</p>
```



What is your favorite 80s band? The Cure

A forced selected option

```
<select name="job" id="job">
```

```
<option value="none"> Please select one</option>
```

```
<option value ="pgmr" selected>Programmer </option>
```

```
<option value ="dbm">Database Manager </option>
```

```
</select>
```



selected



**using
'value'**

Select element - drop down menu

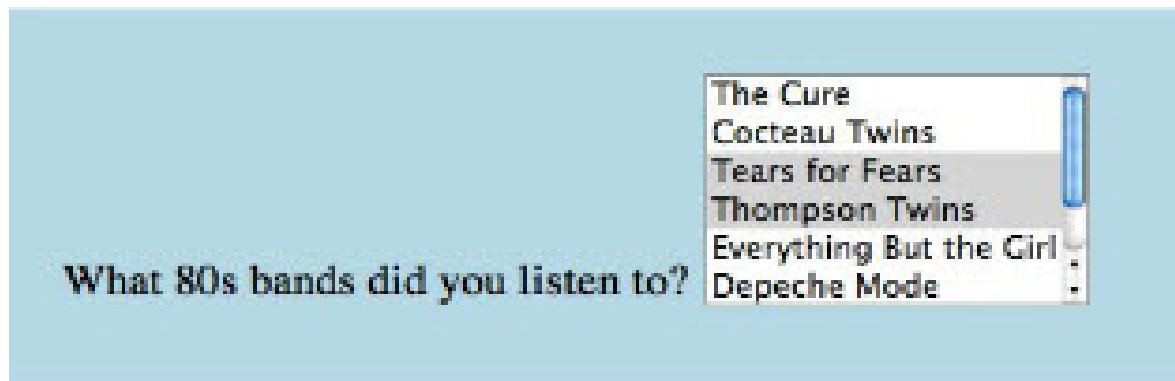



Figure 9-13. A scrolling menu with multiple options selected.

```
<p>What 80s bands did you listen to?
<select name="EightiesBands" size="6" multiple>
  <option>The Cure</option>
  <option>Cocteau Twins</option>
  <option selected>Tears for Fears</option>
  <option selected>Thompson Twins</option>
  <option value="EBTG">Everything But the Girl</option>
  <option>Depeche Mode</option>
  <option>The Smiths</option>
  <option>New Order</option>
</select>
</p>
```

Select element- grouping items - 164

```
<select name="icecream" size="7" multiple>
  <optgroup label="traditional">
    <option>vanilla</option>
    <option>chocolate</option>
  </optgroup>
  <optgroup label="fancy">
    <option>Super praline</option>
    <option>Nut surprise</option>
    <option>Candy corn</option>
  </optgroup>
</select>
```



traditional
vanilla
chocolate
fancy
Super praline
Nut surprise
Candy corn

Input file – upload - 165

```
<form action="/client.php" method="POST" enctype="multipart/form-data">  
  <label>Send a photo to be used as your online icon  
  <em>(optional)</em><br>  
  <input type="file" name="photo" size="28"></label>  
</form>
```



Send a photo to be used as your online icon (*optional*):

Fieldset and Legend Elements

Customer Information

Name:

Email:

<fieldset>

<legend>Customer Information</legend>

<label for="Name">Name: </label>

<input type="text" name="Name" id="Name">

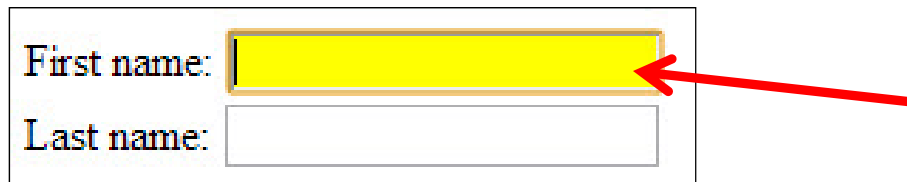
<label for="Email">Email: </label>

<input type="text" name="Email" id="Email">

</fieldset>

CSS: **:focus** pseudo-class

```
input:focus  
{  
background-color:yellow;  
}
```



A form with two input fields. The first field, labeled "First name:", is highlighted with a yellow background, indicating it is the active element. A red arrow points to this field. The second field, labeled "Last name:", is empty and has a white background.

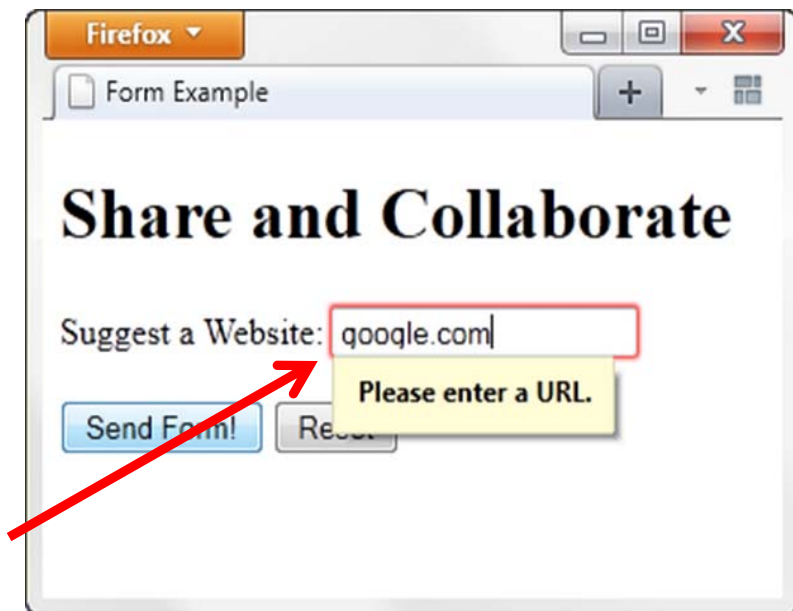
HTML5: Email Text Box – pg 157

- `<input type="email">`
- Only accepts text information in **valid e-mail address format**
- Common Attributes:
 - `type="email"`
 - `name`
 - `id`
 - `size`
 - `maxlength`
 - `value`
 - `placeholder`
 - `required`

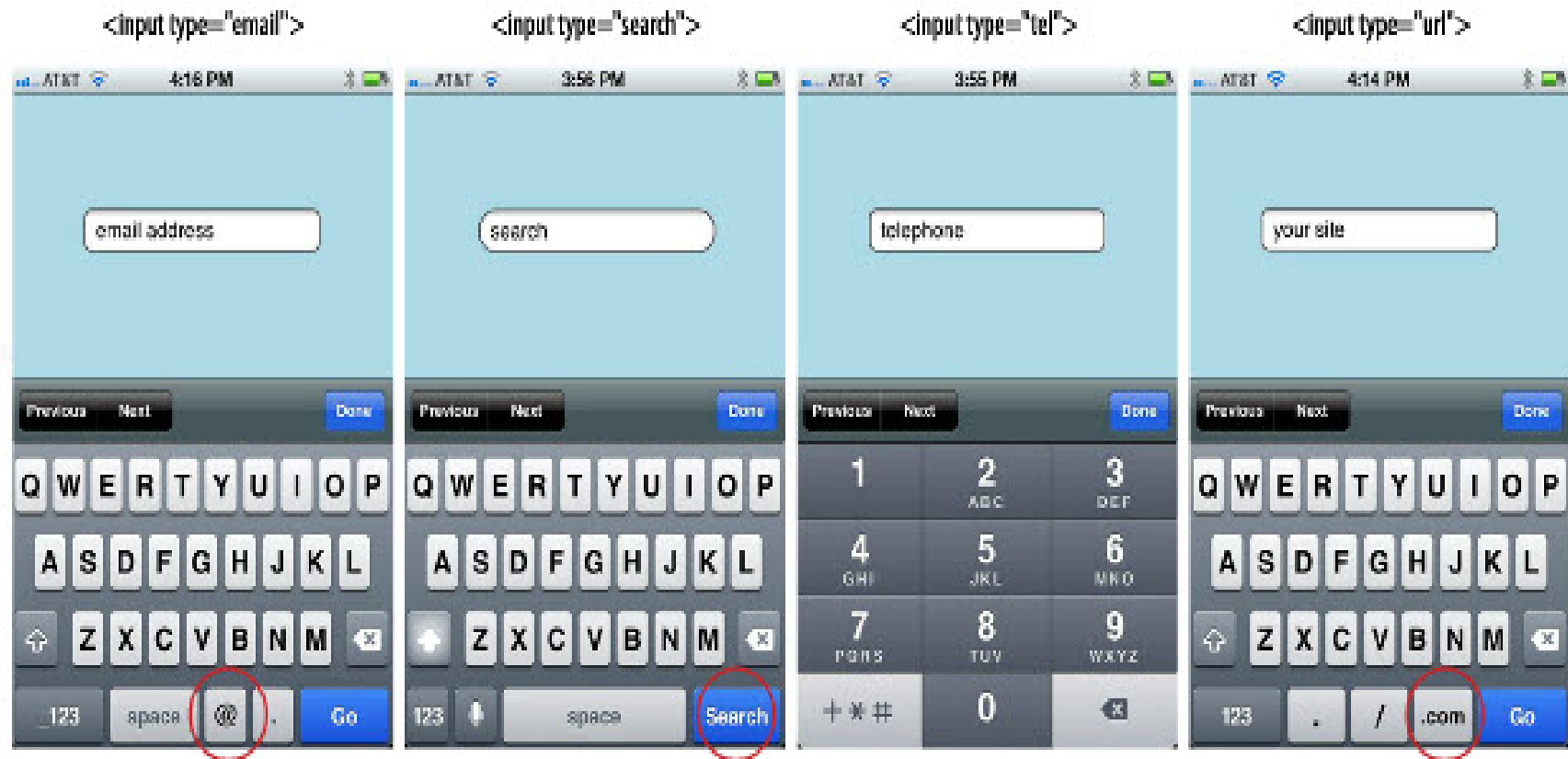


HTML5: URL Text Box

- `<input type="url">`
- Only accepts text information in a **valid URL format**
- Common Attributes:
 - `type="url"`
 - `name`
 - `id`
 - `size`
 - `maxlength`
 - `value`
 - `placeholder`
 - `required`



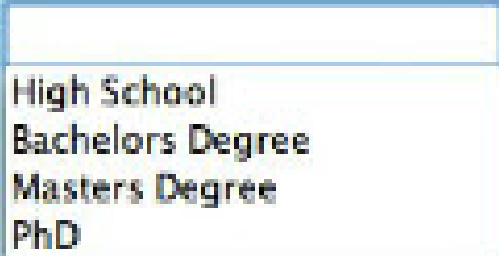
HTML5: Custom key pads on mobile



HTML5: Datalist element – pg 157

```
<p>Education completed: <input type="text"
  list="edulevel" name="education">
<datalist id="edulevel">
  <option value="High School">
  <option value="Bachelors Degree">
  <option value="Masters Degree">
  <option value="PhD">
</datalist>
```

Education completed:



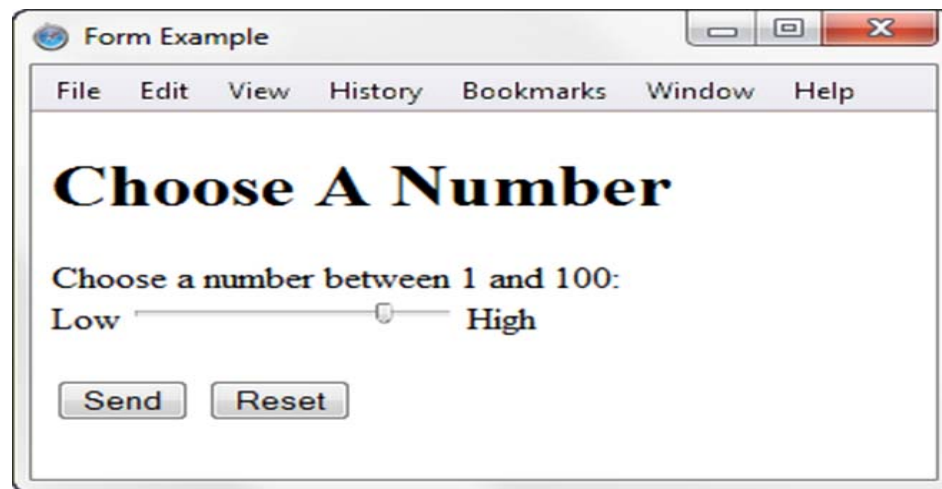
- High School
- Bachelors Degree
- Masters Degree
- PhD

HTML5: Slider / Range Control

<label for="choice">

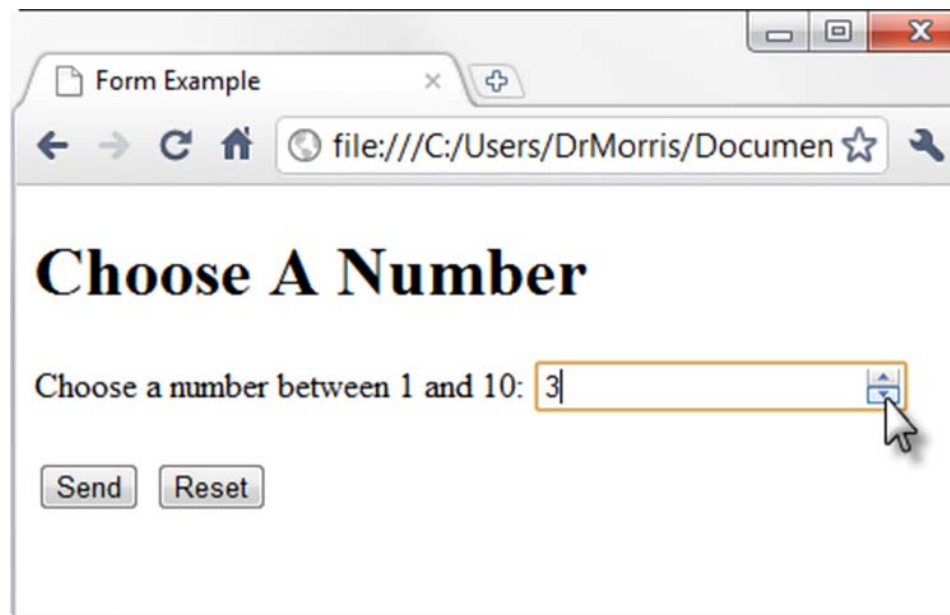
Choose a number between 1 and 100:</label>

Low <input type="range" name="choice" id="choice"
min="1" max="100"> High



HTML5: Spinner Control

```
<label for="choice">Choose a number between 1 and 10:</label>  
<input type="number" name="choice" id="choice"  
      min="1" max="10">
```



HTML5: Calendar Control

<label for="myDate">Choose a Date</label>

<input type="date" name="myDate" id="myDate">

Form Example - Opera

Choose A Date

Choose a Date

Send Reset

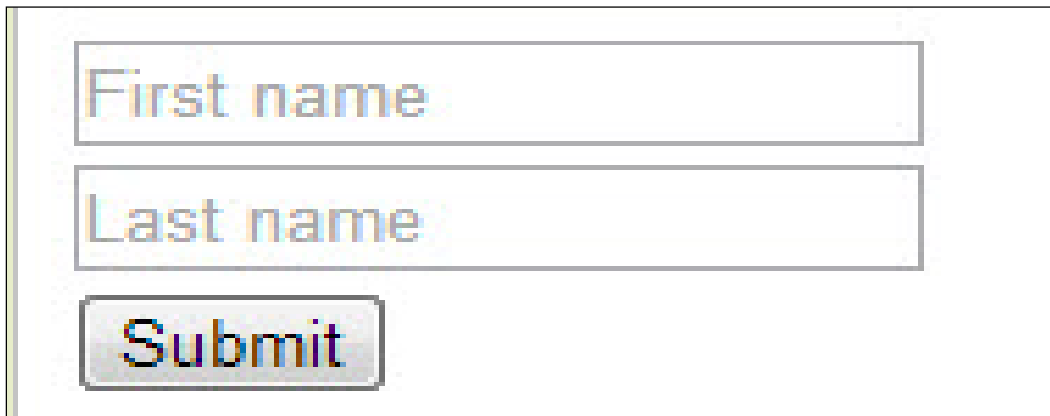
Week	Mon	Tue	Wed	Thu	Fri	Sat	Sun
48	26	27	28	29	30	1	2
49	3	4	5	6	7	8	9
50	10	11	12	13	14	15	16
51	17	18	19	20	21	22	23
52	24	25	26	27	28	29	30
1	31	1	2	3	4	5	6

Today None

HTML5: **placeholder** attribute

```
<label for="fname">First Name</label>
```

```
<input type="text" name="fname" id="fname"  
  placeholder="First name">
```

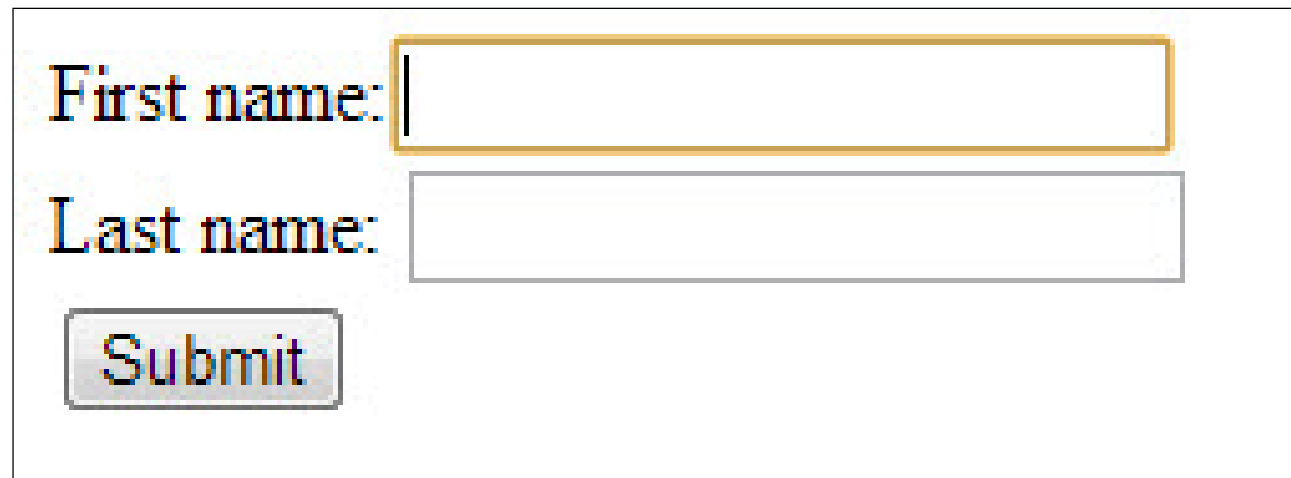


A screenshot of a web form. It contains two text input fields stacked vertically. The top field has the placeholder text "First name" and the bottom field has the placeholder text "Last name". Below these fields is a button labeled "Submit". The entire form is enclosed in a light gray border.

HTML5: autofocus attribute

<label for="fname">First Name</label>

<input type="text" name="fname" id="fname" autofocus>



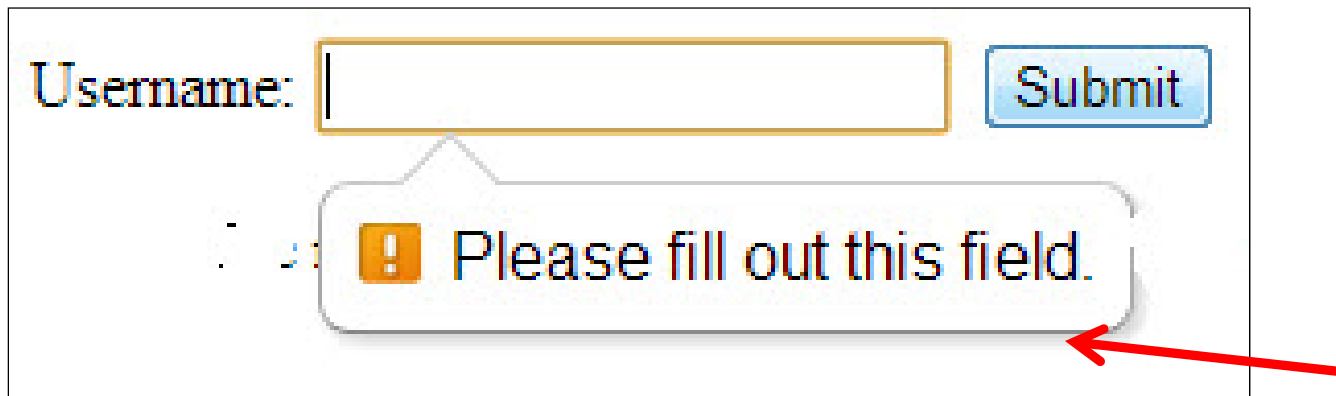
First name:

Last name:

HTML5: **required** attribute

<label for="uname">Username</label>

<input type="text" name="uname" id="uname" **required**>



Username:

! Please fill out this field.