

Forms

RWD I1

The image shows a login form interface. At the top, the text "Log In" is displayed in a large, bold, dark blue font. Below this, there are two input fields. The first field is labeled "Username" in a dark grey font. The second field is labeled "Password" in a dark grey font. Below these fields is a large, blue button with the text "Log In" in white, bold font. The entire form is set against a white background with a subtle shadow, and it is framed by a colorful, blurred border.

Today's Agenda

- How forms work
- The form element
- The input element
- Drop-down lists
- Radio buttons
- Labels and legends
- Exercise

Exercises from last time

Questions

What is a form?

VOTE FOR YOUR FAVORITE JAZZ
MUSICIAN OF ALL TIME

Username:

I vote for:

- ☐ Ella Fitzgerald
- ☒ Herbie Hancock
- ☐ John Coltrane
- ☐ Miles Davis
- ☐ Thelonius Monk

Why forms?

amazon.com  [SIGN IN](#) [SHIPPING & PAYMENT](#) [GIFT-WRAP](#) [PLACE ORDER](#)

facebook [Log In](#)
☐ Keep me logged in [Forgot your password?](#)

Facebook helps you connect and share with the people in your life.



Sign Up
It's free and always will be.

First Name:

Last Name:

Your Email:

Re-enter Email:

New Password:

I am: Select Sex:

Birthday: Month: Day: Year:

Why do I need to provide my birthday?

By clicking Sign Up, you agree to our [Terms](#) and that you have read and understand our [Data Use Policy](#).

[Sign Up](#)

[Create a Page for a celebrity, band or business.](#)

[Ship to this address](#)

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Form controls

ADDING TEXT:

Text input (single-line)

Password input

Text area (multi-line)

MAKING CHOICES:

Radio buttons

☒ Rock ☐ Pop ☐ Jazz

Checkboxes

☒ iTunes ☐ Last.fm ☐ Spotify

Drop-down boxes

iPod

SUBMITTING FORMS:

Submit buttons

Image buttons

UPLOADING FILES:

File upload

How forms work

VOTE FOR YOUR FAVORITE JAZZ
MUSICIAN OF ALL TIME

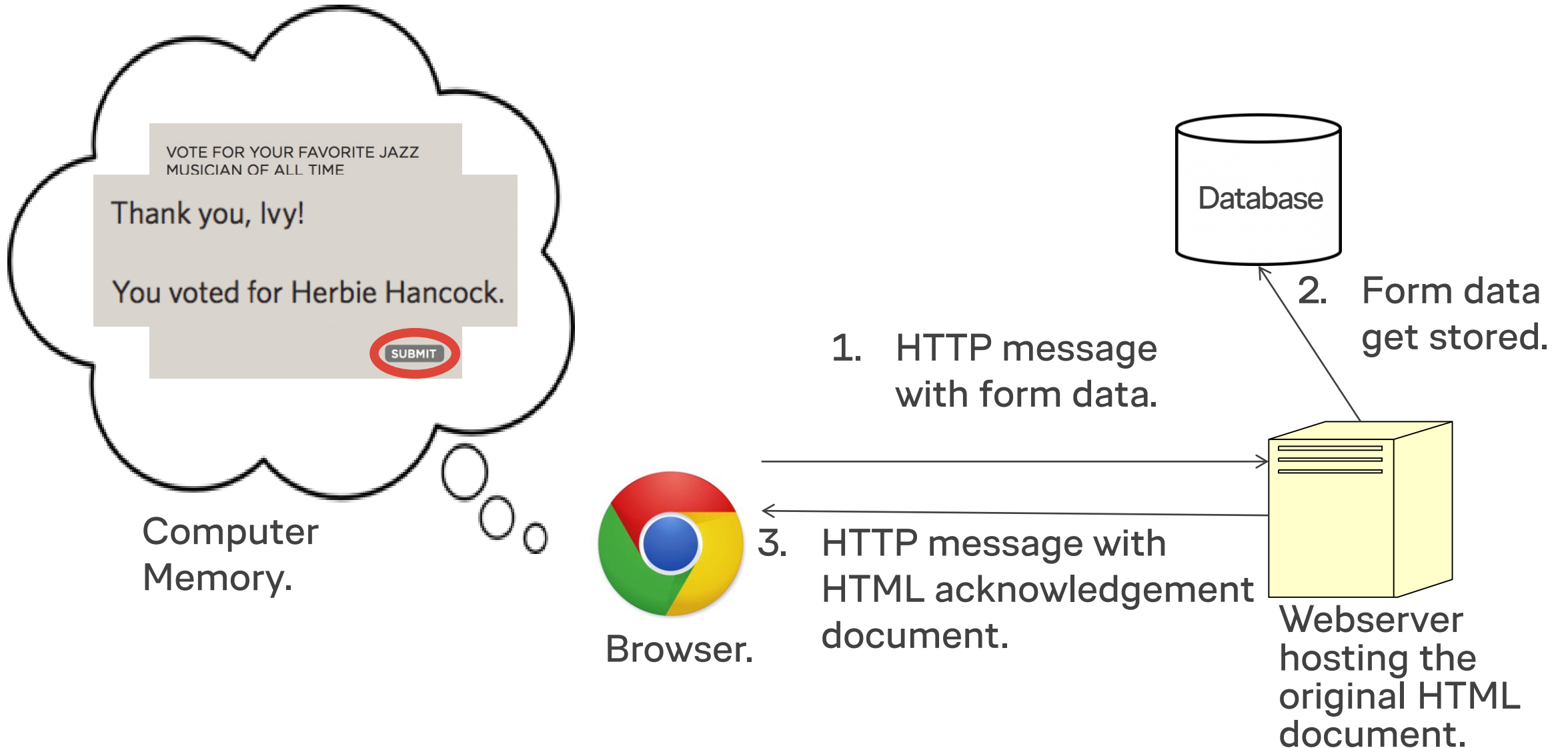
Username:

I vote for:

- ☐ Ella Fitzgerald
- ☒ Herbie Hancock
- ☐ John Coltrane
- ☐ Miles Davis
- ☐ Thelonius Monk

User fills in form and presses button to submit info to server.

How forms work



Two components of using forms

- The web page form
 - An HTML element that contains and organizes **form controls** such as text boxes, check boxes and buttons that can accept information from website visitors. **This we can do!**

and

- The server-side processing
 - Server-side processing works with the form data and sends e-mail, writes to a text file, updates a database, or performs some other type of processing on the server. **This we can not!**

HTML forms

- `<form>`
 - Contains the form elements on a web page
 - Container tag
 - Should always carry the `action`, `id`, and the `method` attributes
- `<input>`
 - Configures a variety of form elements including text boxes, radio buttons, check boxes, and buttons
 - Stand alone tag
- `<textarea>`
 - Configures a scrolling text box
 - Container tag
- `<select>`
 - Configures a select box (drop down list)
 - Container tag
- `<option>`
 - Configures an option in the select box
 - Container tag

Form structure

```
<form action="http://www.no-where.com/formhandler.php"  
  method="get" name="myForm" id="myForm">  
  ...  
</form>
```

Example HTML form

```
<h1>Join Our Newsletter</h1>
<form action="http://www.no-where.com/formhandler.php"
  method="get" name="myForm" id="myForm">
  E-mail: <input type="text" name="email" id="email">
  <br><br>
  <input type="submit" value="Sign Me Up!">
  <input type="reset">
</form>
```



The form element <form>

- Container Tag for the whole form
- The form element attributes:
 - **action**
 - Specifies the server-side program or script that will process your form data.
 - **method**
 - **get** – default value,
form data passed in URL (*remain in browser history*)
 - **post** – more “secure”,
form data passed in HTTP Entity Body (*not saved in browser history*)
 - **name**
 - Identifies the form (server)
 - **id**
 - Identifies the form (HTML/CSS)

The Input Element <input>

Special attributes:

- The **type** attribute determines both how the input is displayed and what values it can accept.
- The **name** attribute is used to identify each element as it is sent to the webserver along with the selected/filled in **value** for that element.

type values:

button	checkbox
color	date
datetime	datetime-local
email	file
hidden	image
month	number
password	radio
range	reset
search	submit
tel	text
time	url
week	

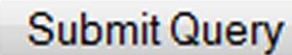
See: http://www.w3schools.com/tags/tag_input.asp

The Input Element Submit Button <input>

- Submits the form information
- When clicked:
 - Triggers the **action** method on the <form> tag.
 - Sends the form data (the **name/value** pair for each form element) to the webserver.

```
<form>
...
<input type="submit">
...
</form>
```

Sample Submit Button

A rectangular button with a light gray background and a thin black border. The text "Submit Query" is centered on the button in a dark gray, sans-serif font.

The Input Element Reset Button <input>

- Resets the form fields to their initial values.

```
<form>  
...  
<input type="reset">  
...  
</form>
```

Sample Reset Button



The Textarea Element <textarea>

- Configures a scrolling text box.

```
<form>
...
<textarea>
  Enter your comments here
</textarea>
...
</form>
```

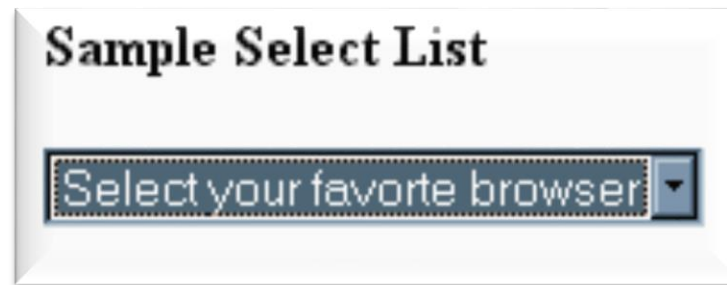
Sample Scrolling Text Box

Comments:

Enter your comments
here

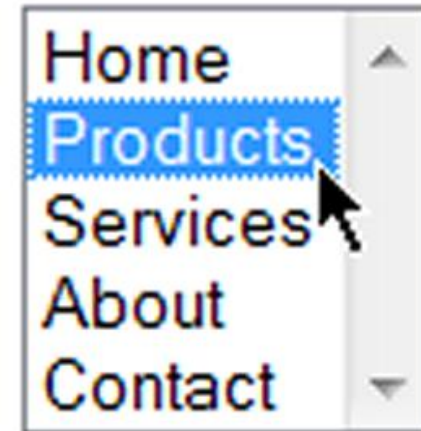
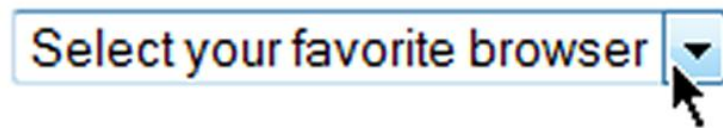
The Select Element `<select>`

- Configures a select list (along with `<option>` tags).
- Also known as: Select Box, Drop-Down List, Drop-Down Box, and Option Box.
- Allows the user to select one or more items from a list of predetermined choices.
- Common attributes:
 - `name`
 - `size`
 - `multiple`



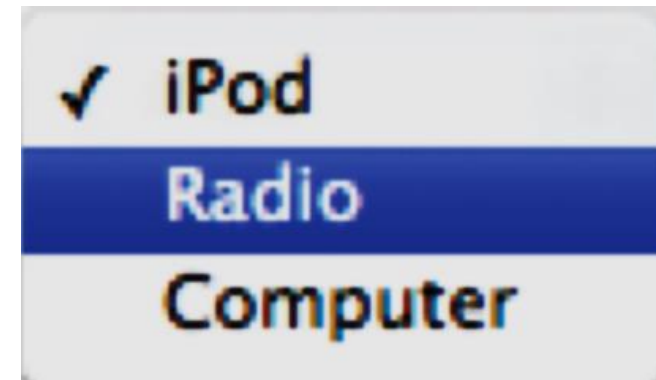
The Option Element <option>

- Configures the options in a Select List.
- You specify the **value** attribute for each option element. Remember that it is the value of the **value** attribute along with the value of the **name** attribute for the encompassing **<select>** element that get send as form data to the webserver.



Select/Drop Down List

```
<form action="http://www.no-where.com/formhandler.php">  
  <select name="devices">  
    <option value="iPod" selected>iPod</option>  
    <option value="radio">Radio</option>  
    <option value="PC">Computer</option>  
  </select>  
</form>
```



The Input Element Radio Button <input>

- Allows the user to select exactly one option from a group of predetermined items
- Each radio button in a group is given the same name and a unique value
- Common Attributes:
 - `type="radio"`
 - `name`
 - `id`
 - `checked`
 - `value`

Sample Radio Buttons

Select your favorite browser:

- ☐ Internet Explorer
- ☐ Firefox
- ☐ Opera

The label element <label>

- Associates a text label with a form control.
- Two Different Formats:

```
<label>Email: <input type="text" name="CustEmail" id  
="CustEmail"></label>
```

Or

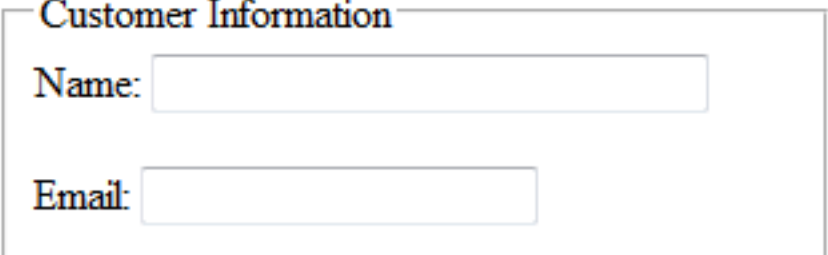
```
<label for="email">Email: </label>  
<input type="text" name="CustEmail" id="email" />
```

The Fieldset & Legend Elements

<fieldset> <legend>

- The Fieldset Element
<fieldset>
 - Container tag.
 - Creates a visual group of form controls on a web page.
- The Legend Element
<legend>
 - Creates a text label within the fieldset.

```
<form action="http://www.no-where.com/formhandler.php">
...
<fieldset>
  <legend>Customer Information</legend>
  <label>Name:
    <input type="text" name="CName" id="CName">
  </label><br><br>
  <label>Email:
    <input type="text" name="CEmail" id="CEmail">
  </label>
</fieldset>
...
</form>
```



Using CSS to style forms

form

label

text box

label

text box

label

scrolling text box

submit button

Customer Information

Name:

Email:

Comments:

```
1 ▼ form {
2     background-color:#eaeaea;
3     font-family: Arial, sans-serif;
4     width: 350px;
5     padding: 10px;
6 }
7
8 ▼ label {
9     float: left;
10    display: block;
11    width: 100px;
12    text-align: right;
13    padding-right: 10px;
14    margin-top: 10px;
15 }
16
17 ▼ input, textarea {
18     float: right;
19     width: 200px;
20     margin-top: 10px;
21     display: block;
22 }
23
24 ▼ #mySubmit {
25     clear: right;
26     width: 100px;
27     margin-top: 10px;
28     margin-right: 105px;
29 }
```


Exercises

- Find the exercises on studienet (HTML and CSS file)
- Working with forms