



WHY FORMS?

 Two screenshots of web forms. The top one is the Amazon.com header with links for 'SIGN IN', 'SHIPPING & PAYMENT', 'GIFT-WRAP', and 'PLACE ORDER'. The bottom one is the Facebook sign-up page, showing fields for 'Email', 'Password', 'First Name', 'Last Name', 'Your Email', 'Re-enter Email', 'New Password', 'I am:' (with a 'Select Sex' dropdown), 'Birthday:' (with 'Month', 'Day', and 'Year' dropdowns), and a 'Sign Up' button. It also includes a 'Log In' link and a 'Create a Page' link.

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

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

1: User fills in form and presses button to submit info to server


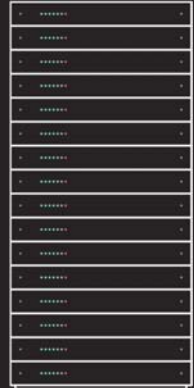
HOW FORMS WORK

VOTE FOR YOUR FAVORITE JAZZ MUSICIAN OF ALL TIME

Username:

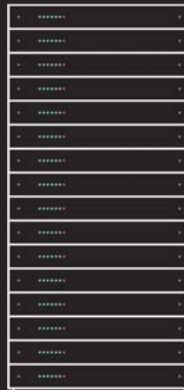
I vote for:

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




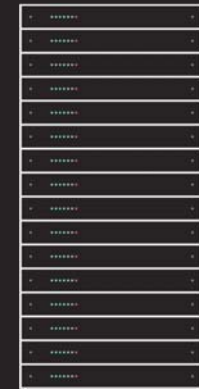
2: Name of each form control sent with value user entered

HOW FORMS WORK



3: Server processes information using programming language

HOW FORMS WORK



Thank you, Ivy!

You voted for Herbie Hancock.

4: Server creates new page to send back to the browser based on info received

NAME & VALUE PAIRS

username=Ivy

NAME & VALUE PAIRS

NAME
└──
username=Ivy

NAME & VALUE PAIRS

NAME
└──
username=
└──
Ivy
VALUE

FORM STRUCTURE

HTML

```
<form  
  action="http://example.com/join.php"  
  method="get">
```

This is where the form controls
will appear.

```
</form>
```

FORM STRUCTURE

HTML

```
<form  
  action="http://example.com/join.php"  
  method="get">
```

This is where the form controls
will appear.

```
</form>
```

FORM STRUCTURE

HTML

```
<form  
  action="http://example.com/join.php"  
  method="get">
```

This is where the form controls
will appear.

```
</form>
```

TEXT INPUT

HTML

```
<form  
  action="http://example.com/join.php">
```

```
  <input type="text" name="username"  
        size="15" maxlength="30" />
```

```
</form>
```

TEXT INPUT

HTML

```
<form  
  action="http://example.com/join.php">
```

```
  <input type="text" name="username"  
        size="15" maxlength="30" />
```

```
</form>
```

TEXT INPUT

HTML

```
<form
  action="http://example.com/join.php">

  <input type="text" name="username"
    size="15" maxlength="30" />

</form>
```

TEXT INPUT

HTML

```
<form
  action="http://example.com/join.php">

  <input type="text" name="username"
    size="15" maxlength="30" />

</form>
```

TEXT INPUT

HTML

```
<form
  action="http://example.com/join.php">

  <input type="text" name="username"
    size="15" maxlength="30" />

</form>
```

RESULT

Username:

PASSWORD

HTML

```
<p>Username:
  <input type="text" name="username"
    size="15" maxlength="30" />
</p>

<p>Password:
  <input type="password" name="password"
    size="15" maxlength="30" />
</p>
```

PASSWORD

HTML

```
<p>Username:
  <input type="text" name="username"
    size="15" maxlength="30" />
</p>

<p>Password:
  <input type="password" name="password"
    size="15" maxlength="30" />
</p>
```

RESULT

Username:

Password:

TEXTAREA

HTML

```
<p>What did you think of this gig?</p>

<textarea name="comments"
  cols="20" rows="4">
  Enter your comments...
</textarea/>
```

TEXTAREA

HTML

```
<p>What did you think of this gig?</p>

<textarea name="comments"
  cols="20" rows="4">
  Enter your comments...
</textarea/>
```

TEXTAREA

HTML

```
<p>What did you think of this gig?</p>

<textarea name="comments"
  cols="20" rows="4">
  Enter your comments...
</textarea/>
```

TEXTAREA

HTML

```
<p>What did you think of this gig?</p>

<textarea name="comments"
  cols="20" rows="4">
  Enter your comments...
</textarea/>
```

RESULT

What did you think of this gig?

Enter your comments...

RADIO BUTTON

<p>Your favorite genre:

HTML

```
<input type="radio" name="genre"
      value="rock" checked="checked" /> Rock
```

```
<input type="radio" name="genre"
      value="pop"   /> Pop
```

```
<input type="radio" name="genre"
      value="jazz"  /> Jazz
```

</p>

RADIO BUTTON

<p>Your favorite genre:

HTML

```
<input type="radio" name="genre"
      value="rock" checked="checked" /> Rock
```

```
<input type="radio" name="genre"
      value="pop"   /> Pop
```

```
<input type="radio" name="genre"
      value="jazz"  /> Jazz
```

</p>

RADIO BUTTON

<p>Your favorite genre:

HTML

```
<input type="radio" name="genre"
      value="rock" checked="checked" /> Rock
```

```
<input type="radio" name="genre"
      value="pop"   /> Pop
```

```
<input type="radio" name="genre"
      value="jazz"  /> Jazz
```

</p>

RADIO BUTTON

<p>Your favorite genre:

HTML

```
<input type="radio" name="genre"
      value="rock" checked="checked" /> Rock
```

```
<input type="radio" name="genre"
      value="pop"   /> Pop
```

```
<input type="radio" name="genre"
      value="jazz"  /> Jazz
```

</p>

RADIO BUTTON

```
<p>Your favorite genre:<br />  
  
<input type="radio" name="genre"  
  value="rock" checked="checked" /> Rock  
  
<input type="radio" name="genre"  
  value="pop" /> Pop  
  
<input type="radio" name="genre"  
  value="jazz" /> Jazz  
  
</p>
```

HTML

RESULT

Please select your favorite genre:
☒ Rock ☐ Pop ☐ Jazz

CHECKBOX

```
<p>Your favorite music service:<br />  
  
<input type="checkbox" name="service"  
  value="iTunes"  
  checked="checked" /> iTunes  
  
<input type="checkbox" name="service"  
  value="Last.fm" /> Last.fm  
  
<input type="checkbox" name="service"  
  value="Spotify" /> Spotify  
</p>
```

HTML

CHECKBOX

```
<p>Your favorite music service:<br />  
  
<input type="checkbox" name="service"  
  value="iTunes"  
  checked="checked" /> iTunes  
  
<input type="checkbox" name="service"  
  value="Last.fm" /> Last.fm  
  
<input type="checkbox" name="service"  
  value="Spotify" /> Spotify  
</p>
```

HTML

CHECKBOX

HTML

```
<p>Your favorite music service:<br />
  <input type="checkbox" name="service"
    value="iTunes"
    checked="checked" /> iTunes

  <input type="checkbox" name="service"
    value="Last.fm" /> Last.fm

  <input type="checkbox" name="service"
    value="Spotify" /> Spotify
</p>
```

CHECKBOX

HTML

```
<p>Your favorite music service:<br />
  <input type="checkbox" name="service"
    value="iTunes"
    checked="checked" /> iTunes

  <input type="checkbox" name="service"
    value="Last.fm" /> Last.fm

  <input type="checkbox" name="service"
    value="Spotify" /> Spotify
</p>
```

CHECKBOX

HTML

```
<p>Your favorite music service:<br />
  <input type="checkbox" name="service"
    value="iTunes"
    checked="checked" /> iTunes

  <input type="checkbox" name="service"
    value="Last.fm" /> Last.fm

  <input type="checkbox" name="service"
    value="Spotify" /> Spotify
</p>
```

RESULT

Your favorite music service:

☒ iTunes ☐ Last.fm ☐ Spotify

DROP DOWN LIST BOX

HTML

```
<select name="devices">

  <option value="iPod"
    selected="selected">iPod</option>

  <option value="radio">Radio</option>

  <option value="PC">Computer</option>

</select>
```

DROP DOWN LIST BOX

HTML

```
<select name="devices">

  <option value="iPod"
    selected="selected">iPod</option>

  <option value="radio">Radio</option>

  <option value="PC">Computer</option>

</select>
```

DROP DOWN LIST BOX

HTML

```
<select name="devices">

  <option value="iPod"
    selected="selected">iPod</option>

  <option value="radio">Radio</option>

  <option value="PC">Computer</option>

</select>
```

DROP DOWN LIST BOX

HTML

```
<select name="devices">

  <option value="iPod"
    selected="selected">iPod</option>

  <option value="radio">Radio</option>

  <option value="PC">Computer</option>

</select>
```

DROP DOWN LIST BOX

HTML

```
<select name="devices">

  <option value="iPod"
    selected="selected">iPod</option>

  <option value="radio">Radio</option>

  <option value="PC">Computer</option>

</select>
```

DROP DOWN LIST BOX

HTML

```
<select name="devices">

  <option value="iPod"
    selected="selected">iPod</option>

  <option value="radio">Radio</option>

  <option value="PC">Computer</option>

</select>
```

RESULT



MULTIPLE SELECT BOX

HTML

```
<select name="devices" size="4">

  <option value="guitar"
    selected="selected">Guitar</option>
  <option value="drums">Drums</option>
  <option value="keys"
    selected="selected">Keyboard</option>
  <option value="bass">Bass</option>

</select>
```

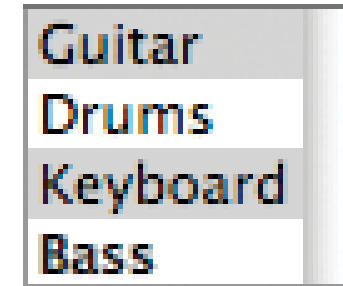
MULTIPLE SELECT BOX

```
<select name="devices" size="4">

  <option value="guitar"
    selected="selected">Guitar</option>
  <option value="drums">Drums</option>
  <option value="keys"
    selected="selected">Keyboard</option>
  <option value="bass">Bass</option>

</select>
```

HTML



RESULT

FILE INPUT BOX

```
<form action="http://eg.com/upload.php"
  method="post">

  <p>Upload your song in MP3 format:</p>

  <input type="file" name="user-song" />

  <input type="submit" value="upload" />

</form>
```

HTML

FILE INPUT BOX

```
<form action="http://eg.com/upload.php"
  method="post">

  <p>Upload your song in MP3 format:</p>

  <input type="file" name="user-song" />

  <input type="submit" value="upload" />

</form>
```

HTML

FILE INPUT BOX

HTML

```
<form action="http://eg.com/upload.php"
      method="post">

  <p>Upload your song in MP3 format:</p>

  <input type="file" name="user-song" />

  <input type="submit" value="upload" />

</form>
```

FILE INPUT BOX

HTML

```
<form action="http://eg.com/upload.php"
      method="post">

  <p>Upload your song in MP3 format:</p>


  <input type="file" name="user-song" />

  <input type="submit" value="upload" />

</form>
```

RESULT

Upload your song in MP3 format:

A screenshot of a web form. It features a text input field for a file upload. To the right of the input field is a button labeled 'Browse...'. Below the input field is a button labeled 'Upload'.

SUBMIT BUTTON

HTML

```
<form action="http://eg.com/email.php">
  <p>Subscribe to our email list:</p>

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

  <input type="submit"
        value="Subscribe" />

</form>
```

SUBMIT BUTTON

HTML

```
<form action="http://eg.com/email.php">
  <p>Subscribe to our email list:</p>

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

  <input type="submit"
    value="Subscribe" />

</form>
```

SUBMIT BUTTON

HTML

```
<form action="http://eg.com/email.php">
  <p>Subscribe to our email list:</p>

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

  <input type="submit"
    value="Subscribe" />

</form>
```

RESULT

Subscribe to our email list:

IMAGE BUTTON

HTML

```
<form action="http://eg.com/email.php">
  <p>Subscribe to our email list:</p>

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

  <input type="image"
    src="images/subscribe.jpg"
    width="100" height="20" />

</form>
```

IMAGE BUTTON

HTML

```
<form action="http://eg.com/email.php">
  <p>Subscribe to our email list:</p>

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

  <input type="image"
    src="images/subscribe.jpg"
    width="100" height="20" />

</form>
```

IMAGE BUTTON

HTML

```
<form action="http://eg.com/email.php">
  <p>Subscribe to our email list:</p>

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

  <input type="image"
    src="images/subscribe.jpg"
    width="100" height="20" />

</form>
```

IMAGE BUTTON

HTML

```
<form action="http://eg.com/email.php">
  <p>Subscribe to our email list:</p>

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

  <input type="image"
    src="images/subscribe.jpg"
    width="100" height="20" />

</form>
```

RESULT

Subscribe to our email list:

BUTTONS

HTML

```
<form action="http://eg.com/add.php">

  <button>
    
  </button>

</form>
```

BUTTONS

HTML

```
<form action="http://eg.com/add.php">

  <button>
    
  </button>

</form>
```

BUTTONS

HTML

```
<form action="http://eg.com/add.php">

  <button>
    
  </button>

</form>
```

RESULT



HIDDEN FORM CONTROLS

HTML

```
<form action="http://eg.com/add.php">

  <button>
    </button>

  <input type="hidden" name="bookmark"
    value="lyrics" />

</form>
```

HIDDEN FORM CONTROLS

HTML

```
<form action="http://eg.com/add.php">

  <button>
    </button>

  <input type="hidden" name="bookmark"
    value="lyrics" />

</form>
```

HIDDEN FORM CONTROLS

HTML

```
<form action="http://eg.com/add.php">

  <button>
    </button>

  <input type="hidden" name="bookmark"
    value="lyrics" />

</form>
```

HIDDEN FORM CONTROLS

HTML

```
<form action="http://eg.com/add.php">

  <button>
    </button>

  <input type="hidden" name="bookmark"
    value="lyrics" />

</form>
```

RESULT



LABELLING FORM CONTROLS

HTML

```
<form action="http://eg.com/email.php">
  <label>Age:
    <input type="text" name="Age" /></label>
  Gender:
    <input id="female" type="radio"
      name="gender" value="f" />
    <label for="female">Female</label>
    <input id="male" type="radio"
      name="gender" value="m" />
    <label for="female">Male</label>
</form>
```

LABELLING FORM CONTROLS

HTML

```
<form action="http://eg.com/email.php">
  <label>Age:
    <input type="text" name="Age" /></label>
  Gender:
    <input id="female" type="radio"
      name="gender" value="f" />
    <label for="female">Female</label>
    <input id="male" type="radio"
      name="gender" value="m" />
    <label for="female">Male</label>
</form>
```

LABELLING FORM CONTROLS

HTML

```
<form action="http://eg.com/email.php">
  <label>Age:
    <input type="text" name="Age" /></label>
  Gender:
    <input id="female" type="radio"
      name="gender" value="f" />
    <label for="female">Female</label>
    <input id="male" type="radio"
      name="gender" value="m" />
    <label for="female">Male</label>
</form>
```

LABELLING FORM CONTROLS

HTML

```
<form action="http://eg.com/email.php">
  <label>Age:
    <input type="text" name="Age" /></label>
  Gender:
    <input id="female" type="radio"
      name="gender" value="f" />
    <label for="female">Female</label>
    <input id="male" type="radio"
      name="gender" value="m" />
    <label for="female">Male</label>
</form>
```

RESULT

Age:

Gender: ☐ Female ☐ Male

GROUPING FORM ELEMENTS

HTML

```
<fieldset>
  <legend>Contact details</legend>
  <label>Email:<br />
  <input type="text" name="email"></label>
  <br />
  <label>Mobile:<br />
  <input type="text" name="mobile"></label>
  <br />
  <label>Telephone:<br />
  <input type="text" name="tel"></label>
</fieldset>
```

GROUPING FORM ELEMENTS

HTML

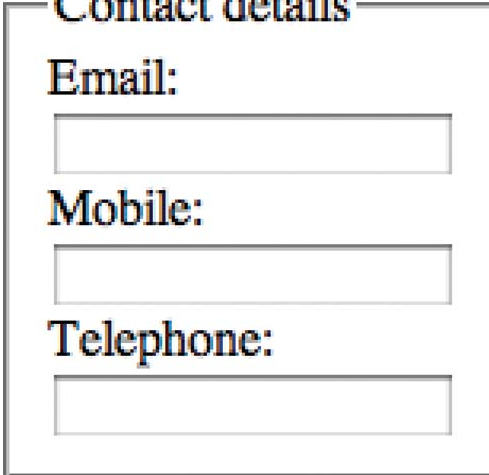
```
<fieldset>
  <legend>Contact details</legend>
  <label>Email:<br />
  <input type="text" name="email"></label>
  <br />
  <label>Mobile:<br />
  <input type="text" name="mobile"></label>
  <br />
  <label>Telephone:<br />
  <input type="text" name="tel"></label>
</fieldset>
```

GROUPING FORM ELEMENTS

HTML

```
<fieldset>
  <legend>Contact details</legend>
  <label>Email:<br />
  <input type="text" name="email"></label>
  <br />
  <label>Mobile:<br />
  <input type="text" name="mobile"></label>
  <br />
  <label>Telephone:<br />
  <input type="text" name="tel"></label>
</fieldset>
```

RESULT



Contact details

Email:

Mobile:

Telephone:

HTML5: FORM VALIDATION

HTML

```
<label for="username">Username:</label>
<input type="text" name="username"
  required="required" />

<label for="password">Password:</label>
<input type="password" name="password"
  required="required" />

<input type="submit" value="Submit" />
```

HTML5: FORM VALIDATION

HTML

```
<label for="username">Username:</label>
<input type="text" name="username"
  required="required" />

<label for="password">Password:</label>
<input type="password" name="password"
  required="required" />

<input type="submit" value="Submit" />
```

RESULT

Username:

Password:

Please fill out this field.

HTML5: DATE INPUT

HTML

```
<label for="date">Departure date:</label>

<input type="date" name="depart"
  id="date" />

<input type="submit" value="Submit" />
```

HTML5: DATE INPUT

HTML

```
<label for="date">Departure date:</label>

<input type="date" name="depart"
  id="date" />

<input type="submit" value="Submit" />
```

RESULT

Departure date:

HTML5: EMAIL & URL INPUT

HTML

```
<input type="email" name="email" />
<input type="url" name="website" />
```

HTML5: EMAIL & URL INPUT

HTML

```
<input type="email" name="email" />
<input type="url" name="website" />
```

HTML5: EMAIL & URL INPUT

HTML

```
<input type="email" name="email" />
<input type="url" name="website" />
```

RESULT

Please enter your email address:

ivy

Please enter an email address.

Please enter your website address:

ivy

Please enter a URL.

HTML5: SEARCH INPUT

HTML

```
<input type="search" name="search"
placeholder="Enter keyword" />

<input type="submit" value="Search" />
```

HTML5: SEARCH INPUT

HTML

```
<input type="search" name="search"
placeholder="Enter keyword" />

<input type="submit" value="Search" />
```

HTML5: SEARCH INPUT

HTML

```
<input type="search" name="search"
placeholder="Enter keyword" />

<input type="submit" value="Search" />
```

RESULT

Search:

Thelonius



Search

SUMMARY

Whenever you want to collect information from visitors you will need a form, which lives inside a `<form>` element.

SUMMARY

Information from a form is sent in name/value pairs.

SUMMARY

Each form control is given a name, and the text the user types in or the values of the options they select are sent to the server.

SUMMARY

HTML5 introduces new form elements which make it easier for visitors to fill in forms.

