



# **HTML Forms**

Sending Data to Server-Side Programs

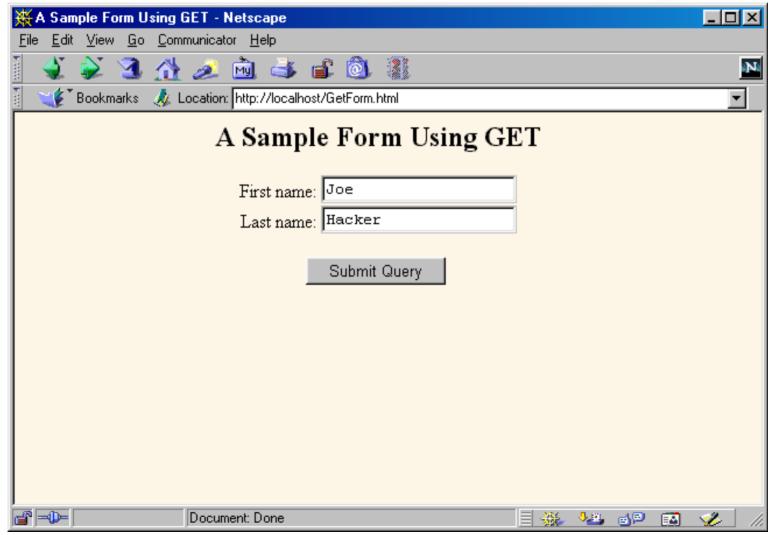
# **Agenda**

- Sending data from forms
- The FORM element
- Text controls
- Push buttons
- Check boxes and radio buttons
- Combo boxes and list boxes
- File upload controls
- Server-side image maps
- Hidden fields
- Grouping controls
- Tab ordering

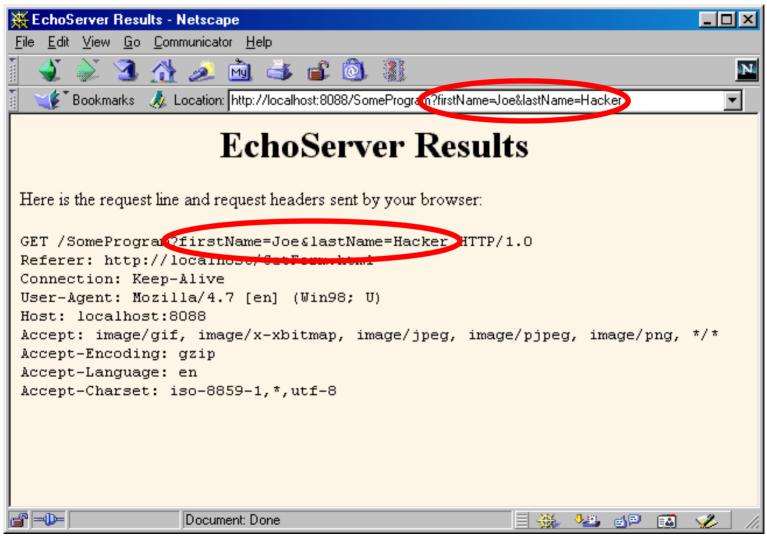
# **Sending Data with GET**

```
<BODY BGCOLOR="#FDF5E6">
<H2 ALIGN="CENTER">A Sample Form Using GET</H2>
<FORM ACTION="http://localhost:8088/SomeProgram">
 <CENTER>
 First name:
 <INPUT TYPE="TEXT" NAME="firstName" VALUE="Joe"><BR>
 Last name:
 <INPUT TYPE="TEXT" NAME="lastName" VALUE="Hacker"><P>
 <INPUT TYPE="SUBMIT">
 </CENTER>
</FORM>
</BODY></HTML>
```

## **Initial Result**



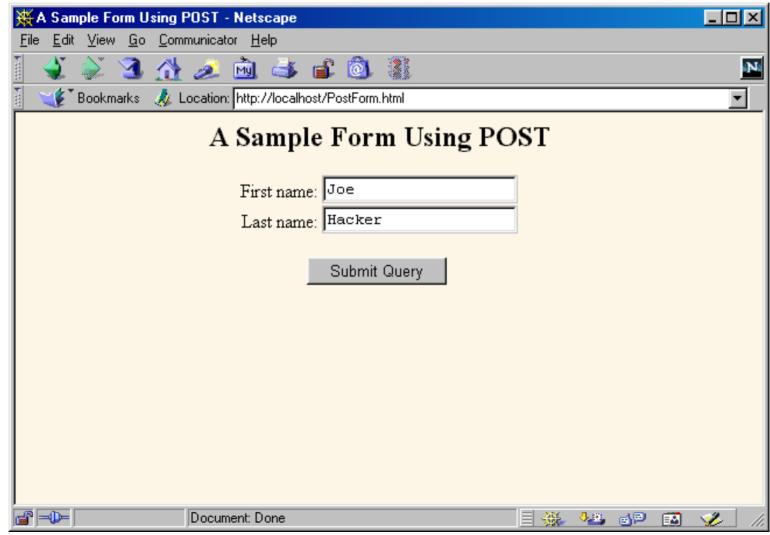
## **Submission Result**



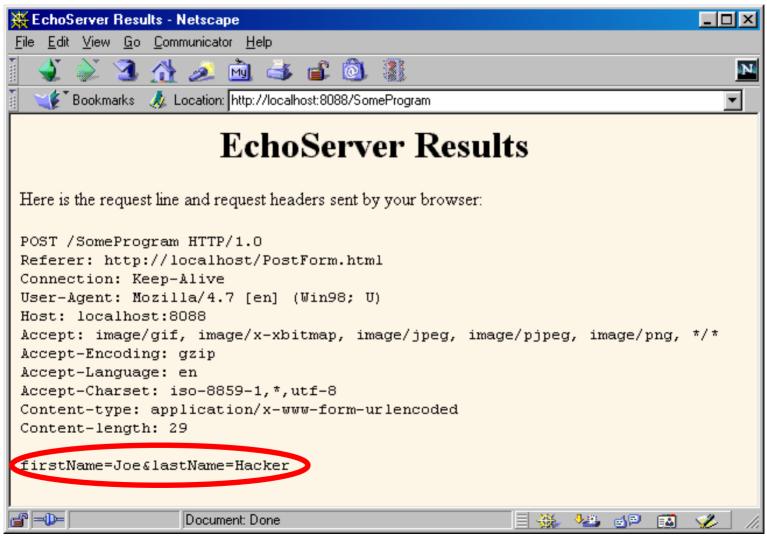
# **Sending Data with POST**

```
<BODY BGCOLOR="#FDF5E6">
<H2 ALIGN="CENTER">A Sample Form Using POST</H2>
<FORM ACTION="http://localhost:8088/SomeProgram"</pre>
      METHOD="POST">
  <CENTER>
  First name:
  <INPUT TYPE="TEXT" NAME="firstName" VALUE="Joe"><BR>
  Last name:
  <INPUT TYPE="TEXT" NAME="lastName" VALUE="Hacker"><P>
  <INPUT TYPE="SUBMIT">
  </CENTER>
</FORM>
</BODY></HTML>
```

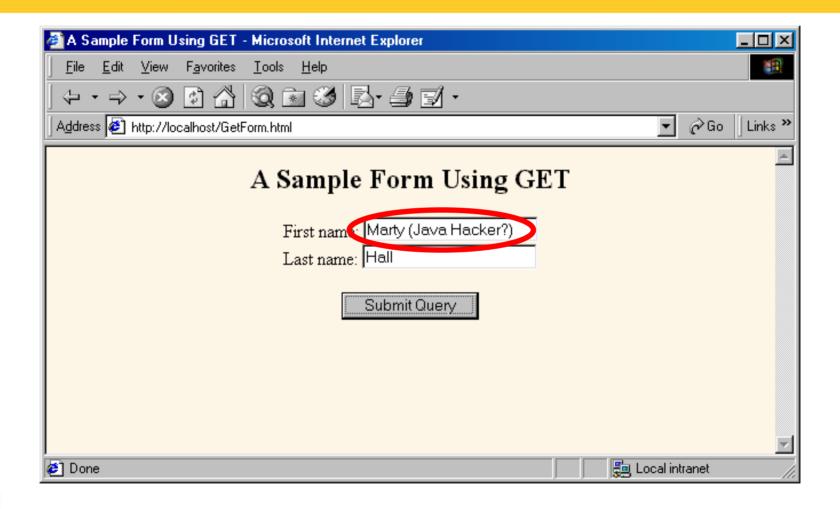
## **Initial Result**



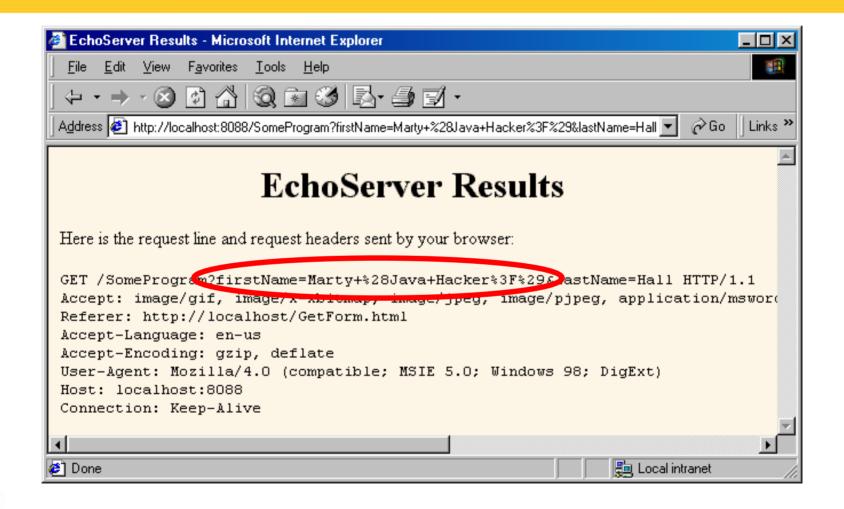
## **Submission Result**



# **URL Encoding: Original Form**



# **URL Encoding: Result**



## **Text Controls**

#### Textfields

- <INPUT TYPE="TEXT" NAME="..." ...>
  - VALUE can give original value

#### Password Fields

- <INPUT TYPE="PASSWORD" NAME="..." ...>
  - *Always* use POST

Enter Password: \*\*\*\*\*\*

#### Text Areas

- <TEXTAREA NAME="..." ROWS="..." COLS="..."> Enter some HTML:

Delete this text and replace with some HTML to validate.

</TEXTAREA>

• Interpretation of regular HTML tags turned off between <TEXTAREA...> and </TEXTAREA>

## **Push Buttons**

#### Submit Buttons

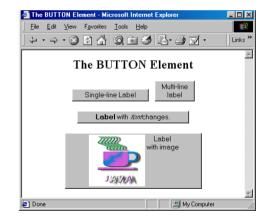
- <INPUT TYPE="SUBMIT" ...>
  - Use NAME if you have multiple buttons
  - Use VALUE to change button's label

#### Reset Buttons

- <INPUT TYPE="RESET" ...>
  - Use VALUE to change button's label

## JavaScript Buttons

- <INPUT TYPE="BUTTON"</p> onClick="someJavaScriptFunction()" ...>



Submit Query

## Fancy Buttons

- <BUTTON TYPE="SUBMIT" ...>HTML</BUTTON>
- Internet Explorer and Netscape 6 only www.corewebprogramming.com HTML Forms

# **Using Multiple Submit Buttons**

```
<CENTER>
Item:
<INPUT TYPE="TEXT" NAME="Item" VALUE="256MB SIMM"><BR>
<INPUT TYPE="SUBMIT" NAME="Add"</pre>
        VALUE="Add Item to Cart">
<INPUT TYPE="SUBMIT" NAME="Delete"</pre>
        VALUE="Delete Item from Cart">
</CENTER>
               Item: 256MB SIMM
         Add Item to Cart
                              Delete Item from Cart
```

## **Check Boxes**

#### Format

- <INPUT TYPE="CHECKBOX" NAME="..." ...>
  - The CHECKED attribute makes it initially checked
  - Name/value pair sent only if checkbox is checked when form is submitted

#### Example code

```
<P>
<INPUT TYPE="CHECKBOX" NAME="noEmail" CHECKED>
Check here if you do <I>not</I> want to
get our email newsletter
```

#### Example result

Check here if you do not want to get our email newsletter.

## **Radio Buttons**

#### Format

```
- <INPUT TYPE ="RADIO"
NAME="..." VALUE="...">
```

- All radio buttons in a group should have same NAME
- Only one button in a group can be pressed; pressing a different one causes previous one to pop out

#### Example

## **Combo Boxes**

#### Format

- SELECT gives NAME
- OPTION gives VALUE

Favorite language: Java

## Example

```
Favorite language: Favorite language:

<SELECT NAME="language">

<OPTION VALUE="c">C

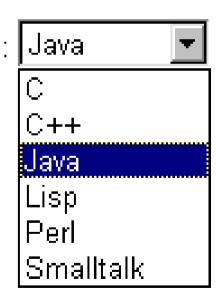
<OPTION VALUE="c++">C++

<OPTION VALUE="java" SELECTED>Java

<OPTION VALUE="lisp">Lisp

<OPTION VALUE="perl">Perl

<OPTION VALUE="smalltalk">Smalltalk
```



</SELECT>

## **List Boxes**

#### Format

Identical to combo boxes, but specify MULTIPLE

#### Example

```
Languages you know:<BR>
<SELECT NAME="language" MULTIPLE>
<OPTION VALUE="c">C
<OPTION VALUE="c++">C++
<OPTION VALUE="java" SELECTED>Java
<OPTION VALUE="lisp">Lisp
<OPTION VALUE="lisp">Lisp
<OPTION VALUE="perl" SELECTED>Perl
<OPTION VALUE="smalltalk">Smalltalk
</SELECT>
```

Languages you know:



# **Other Controls and Options**

#### File upload controls

Lets user select a file and send it to the server

#### Server-side image maps

- User clicks on an image and form gets submitted.
- Form data gets sent as name.x=x-pos&name.y=y-pos

#### Hidden fields

- Preset NAME and VALUE sent with form submission..

## Grouping Controls

- FIELDSET lets you visually group forms.
- Internet Explorer and Netscape 6 only.

#### Tab order control

- TABINDEX (Internet Explorer and Netscape 6 only)

# Summary

#### General process

- FORM uses ACTION to specify base URL
- Input elements each have a NAME
- User enters values
- When form submitted, URL is baseURL?name1=value1&name2=value2&...
- For POST requests, name/value pairs sent on separate line (not part of URL)

#### Textfields

- <INPUT TYPE="TEXT" ...>

#### Submit Buttons

- <INPUT TYPE="SUBMIT" ...>



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# Questions?