Web Programming - 8

CGI Scripts 2
Creating Large Scrolling Text Fields

    <TEXTAREA NAME="name" ROWS=rows COLS=columns>
        Some default text
    </TEXTAREA>

Creating Popup Menus

    <SELECT NAME="Brew">
        <OPTION>French Roast
        <OPTION>Italian Roast
        <OPTION SELECTED>Morning Blend
        <OPTION>Hazelnut
        <OPTION>Swiss Process Decaf
    </SELECT>
Ordinarily, the menu will appear initially with the first option on the list selected

Script is sent the following if French Roast were selected:

\[
\text{Brew=French\%20Roast}
\]

you can override the default value for a menu item by placing an explicit VALUE attribute within the \texttt{<OPTION>} tag:

\[
\text{<OPTION VALUE="FRENCHROAST">French Roast}
\]

In this case, although the human-readable text would continue to be French Roast, the query string sent to the script is:

\[
\text{Brew=FRENCHROAST}
\]
A scrolling list:

```html
<SELECT NAME="Toppings" SIZE=3 MULTIPLE>
  <OPTION SELECTED>Cinnamon
  <OPTION>Cocoa
  <OPTION>Nutmeg
</SELECT>
```

To allow the user to make multiple simultaneous selections, give the `<SELECT>` tag a `MULTIPLE` attribute.

If the user makes multiple selections in the same scrolling list, query sent to the script is:

```
Toppings=Cinnamon&Toppings=Nutmeg
```
Creating Clickable Image Maps

Clicking on different parts of the image takes the user to different pages.

* Street maps
* On-line Atlas

Three Methods

* CGI Scripts -- Round trip delay
* Server-Side Image maps -- Round trip delay
* Client-Side Image maps (HTML 3.2)
Server-Side Image Maps

* Selecting an image

* Creating the Map file

<A HREF="shoulder.map">
   <IMG SRC="shoulder.gif" ISMAP>
</A>
# Imagemap for shoulder.gif

# The default document to return when nothing else matches
default undefined.html

#A polygon for the trapezius muscle (region "A")
poly trapezius.html 54,147 72,81 121,7 149,55 96,69

#A circle for the deltoid muscle (region "B")
circle deltoid.html 134,122 96,78

#A rectangle for the triceps muscle (region "C")
rect triceps.html 63,170 102,287

#A rectangle for the brachialis and biceps muscles (region "D")
rect brachialis.html 102,192 151,287

#A rectangle for the serratus anterior muscles (region "E")
rect serratus.html 151,179 183,259

#A polygon for the pectoralis muscle (region "F")
poly pectoralis.html 185,274 184,136 184,93 158,65 189,74 234,185
Map Files and Relative URLs

The Apache server allows you to customize the behavior of relative links by placing a base_uri directive in the map file.

base_uri map
   URLs are relative to the map file.

base_uri referer
   URLs are relative to the enclosing HTML file (the "referer").

base_uri http://some.site/somewhere/or/other
   URLs are relative to the specified local or remote URL.
Client-Side Image Maps

<MAP NAME="shoulder">
  <AREA SHAPE=POLY COORDS="54,147,72,81,121,7,149,55,96,69"
       HREF="trapezius.html">
  <AREA SHAPE=CIRCLE COORDS="134,122,58"
       HREF="deltoid.html">
  <AREA SHAPE=RECT COORDS="63,170,102,287"
       HREF="triceps.html">
  <AREA SHAPE=RECT COORDS="102,192,151,287"
       HREF="brachialis.html">
  <AREA SHAPE=RECT COORDS="151,179,183,259"
       HREF="serratus.html">
  <AREA SHAPE=POLY COORDS="184,274,182,88,160,64,187,71,232,182"
       HREF="serratus.html">
</MAP>

<IMG SRC="shoulder.gif" USEMAP="#shoulder">
Text-Based Searching for Documents at Your Site

Index of Documents at the Whitehead Institute/MIT Center for Genome Research

This is a searchable index of information. 
Note: This service can only be used from a forms-capable browser.

Enter keyword(s): hardware requirements

Select an index to search: SWISH index: Web server-related pages only

Here is the result of your search using the keyword(s) "hardware requirements":

1: The WWW Security FAQ
   Score: 1000, Size: 104 kbytes, Type: HTML file
2: www-security-faq.txt
   Score: 1000, Size: 98 kbytes, Type: text file
3: Chapter 8
   Score: 600, Size: 150 kbytes, Type: HTML file
Text Based Searching  (SWISH)

*  Create Index

*  Searching SWISH Over Web

wwwais  Script
Server-Side Includes

When enabled the server recognizes a new file suffix `.shtml`

When a browser retrieves `.shtml` file the server opens it and scans the body for special formatted HTML comments embedded in the text.

<!--#directive param1="value1" param2="value2"... -->
ECHO

The current date is <!--#echo var="DATE_LOCAL"-->.  

The current date is Friday, 09-Aug-96 10:58:58 EST

DOCUMENT_NAME
   The current filename

DOCUMENT_URI
   The virtual path to this document

DATE_LOCAL
   The date and time in the local time zone

DATE_GMT
   The date and time in Greenwich mean time

LAST_MODIFIED
   The last modification date of the current file
Here's the bottom of the file...
The baked goods recipes file is 31,944 bytes long and was last updated on Saturday, 14-Apr-95 13:18:46 EST. If that is more than a year ago, then these recipes are stale!
Exec

<!--#exec cmd="/usr/bin/who"-->
</PRE>

<!--#exec cmd="/usr/ucb/finger agnes"-->
</PRE>

<!--#exec cmd="/usr/bin/traceroute $REMOTE_ADDR"-->
</PRE>

<!--#exec cmd="echo `cat mypage.cntr`+1 | tee mypage.cntr"-->

<!--#exec cmd="/usr/bin/who"-->