

CMPSCI 120 Fall 2008
Lab #4
Professor William T. Verts

Setting Up

Go to the class site and download to a folder on your computer the file called **Buttons_for_Assignment.zip**, then unpack its contents into the same folder. There are eight tiny **.GIF** image files (four pairs, with and without beveled edges):

Button_CNN_Normal.gif



Button_CNN_Selected.gif



Button_Yahoo_Normal.gif



Button_Yahoo_Selected.gif



Button_XKCD_Normal.gif



Button_XKCD_Selected.gif



Button_Gray_Normal.gif



Button_Gray_Selected.gif



First Steps – Moving the Buttons

Using WinSCP as you did in the previous assignment, copy these eight files (in binary mode) into the `public_html/cmpsci120` folder of your UNIX account on the `el srv3` server. Set the permissions to `rw-r--r--` on all eight files to make them visible on the Web (do this from inside WinSCP).

Logging in and Renaming Files

Using PuTTY as you did in the previous assignments, log in to the UNIX server. Change into the correct directory as follows:

1. `cd public_html` (Change into the Web nest)
2. `cd cmpsci120` (Change into the inner folder)
3. `ls -al` (See what files are there)

You should see `index.html` and `Button_Dr_Bill.GIF` from the previous assignment, and the eight new `.GIF` files. Do not proceed unless you see all 10 files. Rename the `index.html` file to `Default.html` with the following command, then list the files again (`ls -al`) to verify that the renaming went correctly:

```
mv index.html Default.html
```

Building a new `index.html`

We are going to build a new version of `index.html` to be the driver for a set of frames, one frame a table of contents of links, and the other frame the target for the links. The default page will be the `Default.html` page. Start up the emacs text editor on the new `index.html` file:

```
emacs index.html
```

Type in the following new code, exactly as you see it here, except that you must replace the blank in the title tag with your name:

```
<HTML>
  <HEAD>
    <TITLE>_____</TITLE>
  </HEAD>

  <FRAMESET COLS="220,*">
    <FRAME SRC="Contents.html" NAME="TOC">
    <FRAME SRC="Default.html" NAME="MAIN">
  </FRAMESET>

  <NOFRAMES>
    <H2>Frames are not supported</H2>
    <A HREF="Contents.html">
      Click for Table of Contents
    </A>
  </NOFRAMES>
</HTML>
```

Save your page and exit emacs with `Ctrl`~~`x`~~`Ctrl``c` (and answer `Y` when it asks if you wish to save the changes).

Building Contents.html

Now we will building the links page to use in the left frame. Start up the emacs text editor on a brand new Contents.html file:

```
emacs Contents.html
```

Type in the following new code, exactly as you see it here:

```
<HTML>
  <HEAD>
    <TITLE>Table of Contents</TITLE>

    <SCRIPT LANGUAGE="JavaScript">
      <!--
          function ShowImage (item_name,image_name)
          {
            eval ('document.' + item_name +
                  '.src = "' + image_name + '"') ;
            return true ;
          }
      //-->
    </SCRIPT>
  </HEAD>

  <BODY BGCOLOR="#C0C0C0">
    <H1>Contents</H1>

    </BODY>
</HTML>
```

In the blank area of the body you need to place the code to drive four buttons, each with a normal and a selected variant (the eight buttons you moved over earlier). Here is the template to use for each button. Make four copies, one after the other, in the blank area.

```
<A HREF="http://____"
  onMouseOver="ShowImage('■', '□_Selected.gif') ;"
  onMouseOut ="ShowImage('■', '□_Normal.gif') ;"
  TARGET="MAIN">

  <IMG SRC="□_Normal.gif" BORDER=0 NAME="■">
</A>

<BR>
```

The first button will be to CNN, so in the first copy of the template both the □ symbol and the ■ symbol must be replaced with the unique string Button_CNN (i.e., use Button_CNN_Selected.gif and Button_CNN_Normal.gif where

appropriate). The ■ symbol represents a unique JavaScript name for the button. Point the link to `http://www.cnn.com/`.

Edit the second copy of the template to use the `Button_Yahoo` buttons and point the link to `http://www.yahoo.com/`.

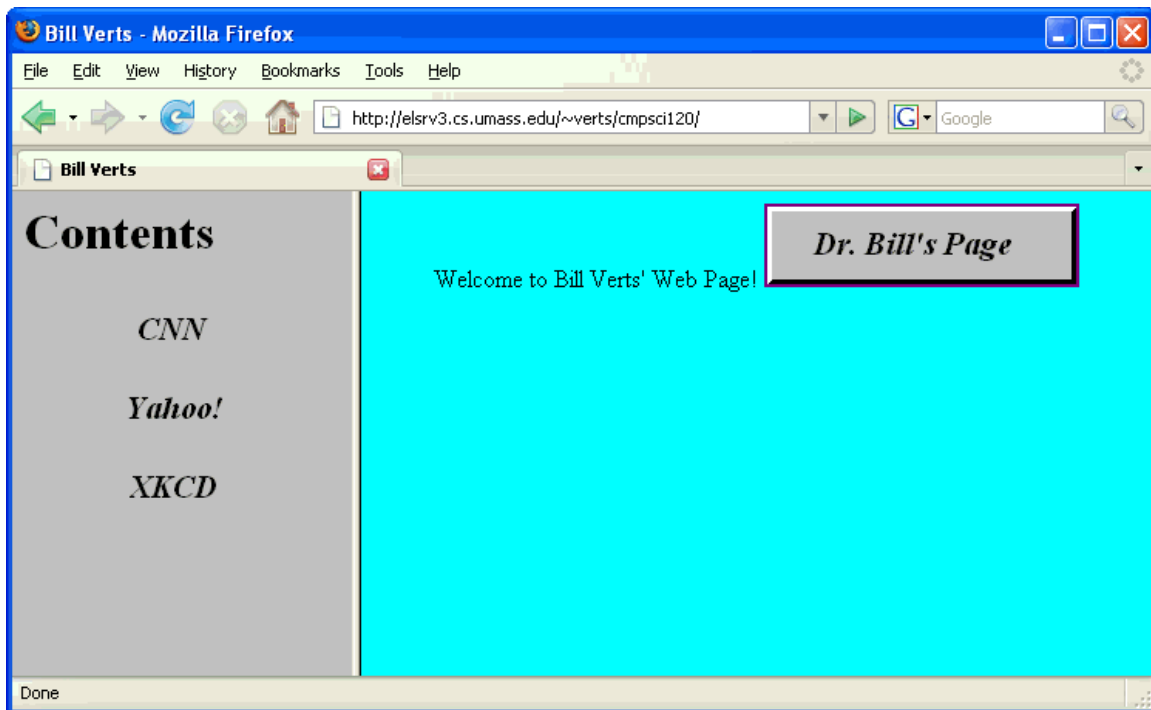
Edit the third copy of the template to use the `Button_XKCD` buttons and point the link to `http://www.xkcd.com/`.

Edit the fourth and final copy of the template to use the blank `Button_Gray` buttons, and point the link to your `Default.html` page.

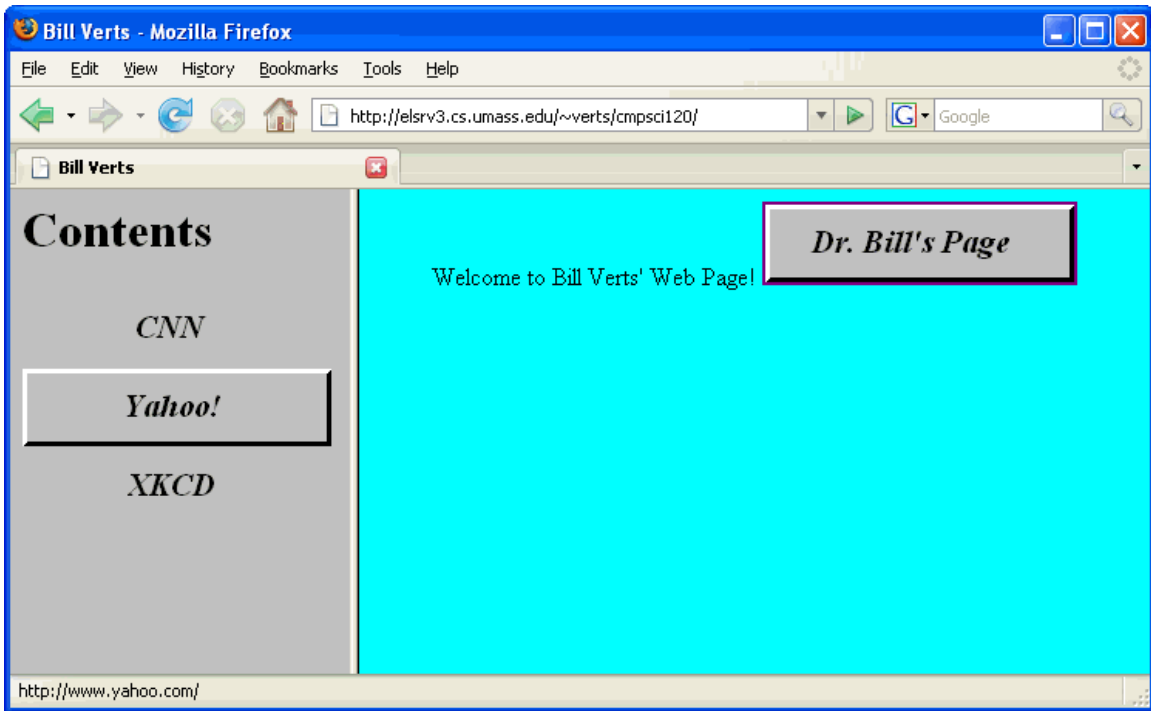
Save your page and exit emacs with `Ctrl-xCtrl-c` (and answer `Y` when it asks if you wish to save the changes).

Testing

Along with all the `.GIF` image files, your `public_html/cmpsci120` folder should now contain three Web pages: **`index.html`** (the frame driver), **`Contents.html`** (the left frame containing the links and buttons), and **`Default.html`** (the default right frame which was your old `index.html` page). Load in and test your `index.html` page. Make sure to hit the Refresh button. Your page should look as follows:

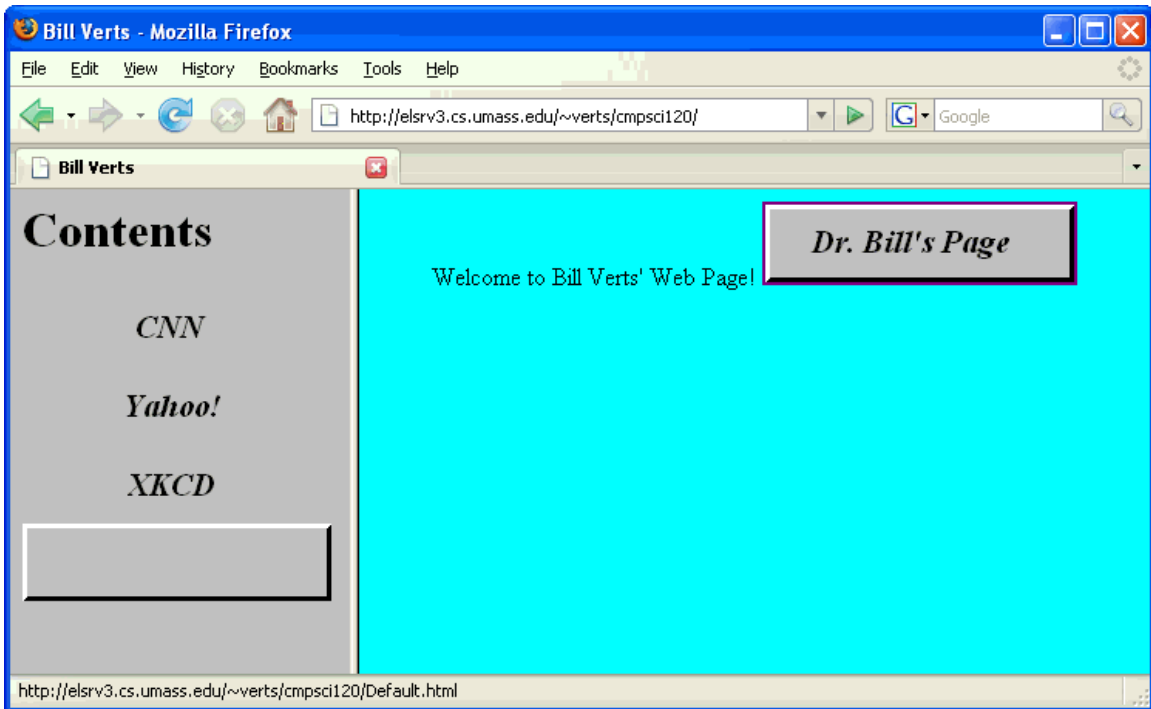


Floating the mouse over the Yahoo button should appear as follows:



Clicking that Yahoo button should replace the right-hand pane with Yahoo's home page.

Even though there are four defined buttons, the fourth button "blends in" with the frame back ground until you float the mouse over it. This is shown below:



Make sure that clicking each button jumps to the correct page. Use emacs to correct any mistakes.

If You Get Stuck

If you miss any of the instructions, you may need to go back and fix certain things. Possible problems include misspelling the name of the .GIF files in Contents.html, setting or omitting certain file permissions, or copying files into the wrong place. Please email me or the TAs if you need help.

What To Turn In

When your pages are correct and visible on the Web, send an email message to **both** the TAs **and** to the **literacy@cs.umass.edu** account. The subject line must be set to the exact phrase **CMPSCI 120 ASSIGNMENT #4** and the body of the message must contain your name, your username, and your full Web address. The next assignment will also depend on you successfully completing this one.