

POLYTECHNIC COMPUTER SCIENCE - SPRING 2012

PROGRAMMING PROJECT #5

HTML WEBSITE

ASSIGNMENT OVERVIEW

Create a small static website: multiple (3-4) pages, with multiple links (internal & external), content, images, etc.)

Consider the following as a context:

- a blog
- a photo gallery site
- a business (mock or real) that you operate
- a fan site

The site should have consistent headers and footers across all pages, should include a copyright notice, and a link that allows the viewer to email you.

This assignment is worth 100 points and is due on the *crashwhite.polytechnic.org* server at midnight (00:00:00) on the date given in class.

BACKGROUND

You'll need to create several .html pages as part of this project, along with a .css file that will be used to style the entire site. Use <div> tags to break the page up into logical sections. Finished pages along with graphics will be uploaded to the server using sftp.

PROGRAM SPECIFICATIONS

The website you create will:

- consist of multiple .html files (one for each page of your site)
- use a single .css file to consistently style the site
- include a copyright notice on each page (© is the HTML code for a copyright symbol)
- include a link that can be used to email the author of the page (Example: Email me!)
- include horizontally- or vertically-oriented links that can be used to navigate the site. Horizontal links are a bit easier.
- use the CSS hover tag to make the links change color and background
- use a consistent <div class = "header"> and <div class = "footer"> across all pages of your site to give it a common theme

Additionally, you'll use SFTP, either as a Terminal command or via a high-level text editor, to upload your files to the *crashwhite.polytechnic.org* server.

DELIVERABLES

crashwhite.polytechnic.org/~username/index.html , and additional pages as specified above

1. Please be sure to use the specified file name, i.e. **index.html**
2. Save a copy of your file on your hard drive, flash drive, etc..
3. Your site will be graded based on files you upload to the server.

ASSIGNMENT NOTES

You'll need to use the html tags covered in class to create the pages for your website.

- A simple page, **index.html**, might look something like this:

```
<!-- This page is being completed as part of Assignment #5 -->
<!-- by Richard White, 2011-04-03 -->

<html>

  <head>
    <title>Mr. White's Website</title>
    <style type="text/css"><!-- @import url("screen.css"); --></style>
  </head>

  <body>

    <div class="header">
      <h1>Welcome to my Amazing computer programming site!</h1>
    </div>

    <div class="menu"><!-- horizontal menu -->
      Index | <a href="page2.html">Page 2</a> |
      <a href="page3.html">Page 3</a>
    </div>

    <div class="content">
      <p>Let me tell you a little about computer
        programming...</p>
    </div>

    <div class="footer">
      &copy;2012, Richard White. <a href="mailto:rwhite@crashwhite.
        com">rwhite@crashwhite.com</a>
    </div>

  </body>

</html>
```

- An accompanying **screen.css** file might include this:

```
// Default styles for the whole page
html {margin: 0; padding: 0; }
body {margin: 0; padding: 0; border: 0; font-family: Verdana, Arial,
Helvetica, sans-serif; font-size: 80.01%; font-weight: normal; color: #000;
background: #ccc; }

p {font-style: italic} // Sets all paragraphs to italic
div.header {font-weight: bold; margin: 0px; border: dashed 1px #0d0;
padding: 10px; }

// These lines describe how "anchors" (links) behave
a:link, a:visited {text-decoration: underline; color: red; }
a:hover, a:active {text-decoration: underline; color: blue; background-color:
#cf0; }
div.menu {background-color: #999; font-weight: bold; }
```

- A fancier horizontal menu might be styled like this. Here, you can see an example of using CSS style commands in the same *index.html* file. Commands placed within the file can be used to override commands given in a separate *.css* sheet, if desired.

```
<html>

  <head>
    <title>Simple Page</title>
    <style>
      body {background: #eeeeee;}
      .menu {width: 200px; float: left;}
      .menu ul {list-style-type: none; margin: 0; padding: 0;}
      .menu li {border: solid 1px #000000; float: left;}
      .menu li a:link, .menu li a:visited {background: red;
        display: block; text-decoration: none; padding: 5px;}
      .menu li a:hover, .menu li a:active {background: yellow;}
      .here {padding: 5px; background: blue;}
      .content {margin-left: 210px; border: solid 1px red; padding:
        0 10px;}
    </style>
  </head>

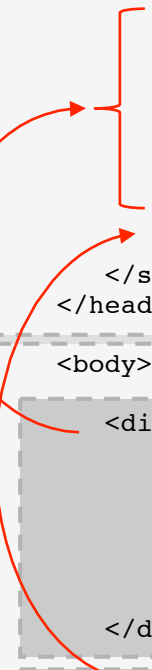
  <body>

    <div class="menu">
      <ul>
        <li class="here">Home</li>
        <li><a href="biography.html">My Bio</a></li>
        <li><a href="mailto:rwhite@crashwhite.com">Email me!</a>
        </li>
      </ul>
    </div>

    <div class="content">
      <p>This website isn't bad!</p>
    </div>

  </body>

</html>
```



- Or, consider a styled vertical menu, like this:

```
<html>

  <head>
    <title>Simple Page</title>
    <style>
      body {background: #eeeeee;}
      .menu {width: 200px; float: left;}
      .menu ul {list-style-type: none; margin: 0; padding: 0;}
      .menu li {border: solid 1px #000000;}
      .menu li a:link, .menu li a:visited {background: red; display:
block; text-decoration: none; padding:5px;}
      .menu li a:hover, .menu li a:active {background: yellow;}
      .here {padding:5px; background: blue;}
      .content {margin-left: 210px; border: solid 1px red; padding: 0
10px;}
    </style>
  </head>

  <body>

    <div class="menu">
      <ul>
        <li class="here">Home</li>
        <li><a href="biography.html">My Bio</a></li>
        <li><a href="mailto:rwhite@crashwhite.com">
          Email me!</a></li>
      </ul>
    </div>

    <div class="content">
      <p>This website has a vertical menu to the side.</p>
    </div>

  </body>

</html>
```

GETTING STARTED

1. Create a folder, perhaps "www", that will be used to store all files related to your website.
2. Use a text editor to create your *index.html* file.
2. Use a text editor to create a *screen.css* file.
3. Test the files by using a browser (Firefox is good) to File > Open File... and go to your *index.html* file.
4. Once you've got one basic page going, create additional pages that are linked to in a horizontal menu.
5. Once the site is working, use the Terminal to sftp to your account on the server:


```
$ sftp whiter@crashwhite.polytechnic.org
```
6. On the server, cd to your public_html directory where the files will be stored.


```
$ cd public_html
```
7. Use the Put command to upload your www files to that directory
8. Test that your site is "live" by typing the URL into Firefox:


```
http://crashwhite.polytechnic.org/~whiter (use your login name)
```
8. Your uploaded files will be what I'll use to evaluate your work.

QUESTIONS FOR YOU TO CONSIDER (NOT HAND IN)

1. What distinguishes a good website from a mediocre one?
2. How can you examine the code from other websites to get ideas on how to improve your own?
3. What does HTML stand for? What does HTTP stand for? What does FTP stand for?

SAMPLE INTERACTION

See examples below of horizontal and vertical navigation systems.

