

BRITISH COLUMBIA INSTITUTE OF TECHNOLOGY

School of Computing and Academic Studies

COMP1536

Programs: CST

Due: Sun Oct 1, 2017 at 11:59 pm

HTML5 assignment

This assignment is to be done in pairs of two students. Your lab instructor will determine how pairs are selected.

The purpose of this assignment is to familiarize you with HTML5 and validation of HTML5 documents.

Requirements

The Chinese zodiac theme was selected because it lends itself well to many of the HTML, and CSS concepts you are learning. All files for the Chinese Zodiac site will be saved in a folder named *ChineseZodiac* representing the root Web folder for your website.

The following steps will help you prepare for the design & development of your site:

Color Scheme

You will need to select a color scheme & design or find free Chinese zodiac graphic elements. You can search the Web for free theme and/or image sets that contain banners, borders, background images, buttons, icons, lines, and bullets designed around a specific theme. The colors should be coordinated.

Banner Image

Create a transparent web banner image with title "The Chinese Zodiac" and a subtitle of "BCIT introduction course on web development". To do this, you can use graphics programs like Photoshop, GIMP, Paint.NET ...

Save the banner image as *ChineseZodiacBanner* with an appropriate graphic extension (.gif, or .png) in an *Images* folder within the *ChineseZodiac* folder.

Open the *ChineseZodiacBanner* image in Chrome, Edge and Mozilla Firefox to determine if it displays well on the Web.

Clicking on this banner image should always take you to the home page.

Navigation

Create three buttons (approximately 150×30 pixels) with the following text label and filenames:

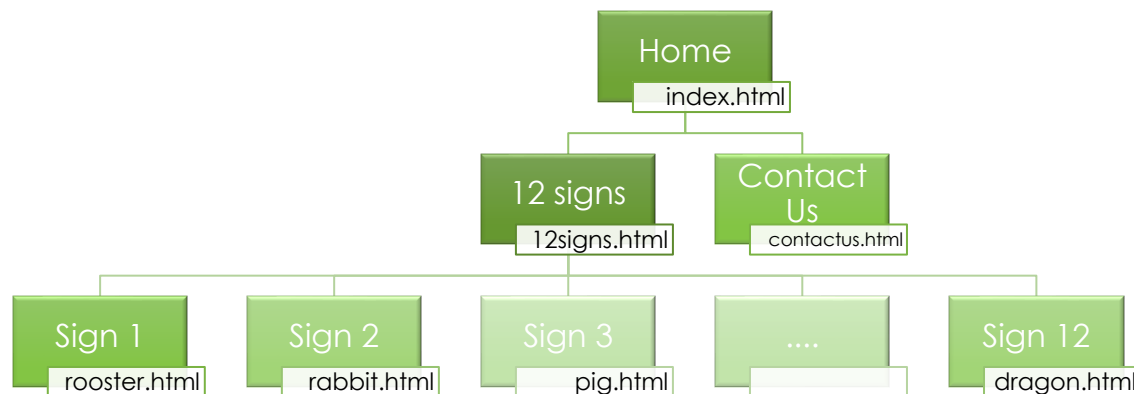
Text	Filename
Home Page	HomePage.png
12 Signs	12signs.png
Contact Us	ContactUs.png

Put the button image files in the *Images* folder within the *ChineseZodiac* folder.

Place the *HomePage.png*, *12signs.png* and *ContactUs.png* images at suitable locations on all your pages. When any of these images are clicked, the appropriate page gets loaded in a browser.

Web Pages

A site map for the web site is shown below:



Home Page (index.html)

Research the Chinese zodiac and write a few paragraphs about it on your home page.

12 Signs Page (12signs.html)

Search for free images for each of the 12 signs of the Chinese zodiac. Try to keep the height of the image between 50 and 100 pixels, and the width of the image between 50 and 150 pixels. Use the name of the sign as the name of the image file (as in Rooster.jpg or Pig.gif). Save each of the images with an appropriate extension in the *Images* folder within the *ChineseZodiac* folder.

contactus.html

This *contactus.html* page contains a form that looks like this:

The diagram illustrates the layout of the *contactus.html* form. It includes three input fields: a text box for 'Name', a text box for 'Email Address', and a larger text area for 'Comment'. Each field is accompanied by a green callout box with its label: 'Name', 'Email', and 'Comment'. Below these fields is a grey 'Submit' button. To the right of the 'Submit' button is a large green callout box containing three lines of text: 'Hidden textbox 1 named **Student1Name**', 'Hidden textbox 2 named **Student2Name**', and 'Hidden textbox 3 named **Set**'.

Hidden Fields: data entered in the hidden fields must be in the following formats:

- Student1Name & Student2Name: Full Name
 - Example: Steven Harper
- Set: 1A, 1B, 1C, 1D, 1E

The above form needs to post to a page at absolute address

<http://php.vncvr.ca/zodiac/>.

Sign 1 ... Sign 12 (example: pig.html, rooster.html)

There will be 12 pages representing each sign. Each of these pages will describe each sign and the personality/character associated with that sign.

Additional Requirements:

- Each web page should have a proper title that gives the user a context about what the content in the page is about.
- All pages must have a link that directs the user to the *index.html*, *12signs.html*, and *contactus.html* pages.
- Except on the *contactus* page, you are not allowed to use `<table>` tags. You must use `<div>` tags instead.
- The website primary and secondary fonts must be *Arial* and *Sans serif* respectively.
- All pages must use the same font, layout and color scheme.
- The *names*, *student numbers*, *set*, and *email addresses* of team members must be placed in the footer section of each page. Ensure that all email addresses are coded in such a manner that malicious spam engines do not easily harvest them. You can refer to this site for ideas:

<https://www.searchenginegenie.com/Obfuscate-email-tool.php>

- The main home page must be named "index.html".
- All web pages must conform to HTML5 standards. Validate your pages at <http://validator.w3.org> before submission.

You are encouraged to go wild with your imagination and creativity. However, your solution should, at a minimum, conform to the following:

1) Follow best HTML coding practices such as:

- Do not display the default table borders
- All styling is accomplished using an external CSS style sheet file named *ChineseZodiac.css* that resides in a folder named *style*.
- You must use relative addressing for all your internal page and image links
- Use relative font sizes
- Images should all be resized so that there is no need to resize the image on the client size within the <img...> tag

2) Include a *readme.txt* file in the root of your web site. The *readme.txt* file must include the following information:

- Your *names, student numbers, set* and *email* addresses
- What you have completed
- What you have not completed
- Any major challenges

3) Your submission consists of a ZIP file named: "*StudentId(1)_StudentId(2)_set_assign01.zip*". (example: *A00123123_A00234234_1B_assign01.zip*). Any other file compression standard like .rar, .7z, etc... will not be accepted. Only the .zip standard is accepted.

4) Your *ZIP* file will include all directories and files comprising your entire website. This includes all images, html, and style files.

5) Submit your ZIP file into your lab's D2L group dropbox folder for *Assignment 1*.

COMP1536 Assignment 1 marking guide:

Name 1: _____

Set _____

Name 2: _____

Task	Max Mark	Actual Mark
Web site presentation and visual quality <ul style="list-style-type: none"> • Page Layout • Correct font • Consistent and appealing color scheme & graphic elements • navigation from one page to another • all pages have a link to the home page 	7	
Contact Us Form <ul style="list-style-type: none"> • elements named properly • form posts correctly to http://php.vncvr.ca/zodiac/ • layout uses <table> tags 	3	
Imagery <ul style="list-style-type: none"> • transparent web banner • home, 12-signs, and Contact Us buttons 	4	
Requirements fulfilled <ul style="list-style-type: none"> • 15 pages • page file names • image file names • all styling uses external CSS file name • home page contains blurb on Chinese Zodiac • 12 buttons on <i>12signs.html</i> page • No <table> tags except on Contact Us page • Footer contains names, student numbers, set and email addresses • readme.txt file included 	5	
Best practices <ul style="list-style-type: none"> • external style sheet • relative addressing • every page has a title • all images in Images folder • home page is <i>index.html</i> 	2	
Conformance to XHTML5 standards	2	
Email not easily harvested by spam engines	2	
TOTAL:	25	