**Purpose:**

This project is intended to give students experience in composing a small website involving Cascading Style Sheets (CSS). The project will employ all three methods of applying CSS styles to HTML code: external, internal (a.k.a. "embedded"), and inline. All files in this project will be written using a plain text editor to help students develop a fundamental understanding of HTML and CSS syntax.

In this project, your grade will be based on how effectively you accomplish the stated goals in applying various styles to two web pages. Simply applying the styles is not enough; you must apply them using the requested method. Both the HTML and CSS must be validated.

In this project, you will attempt to produce a pair of web pages that produce output as close as possible to the illustration of the site that follows. For specific help with HTML5 or CSS elements, look in your online textbooks or you may refer to other online resources, such as W3Schools.com

---
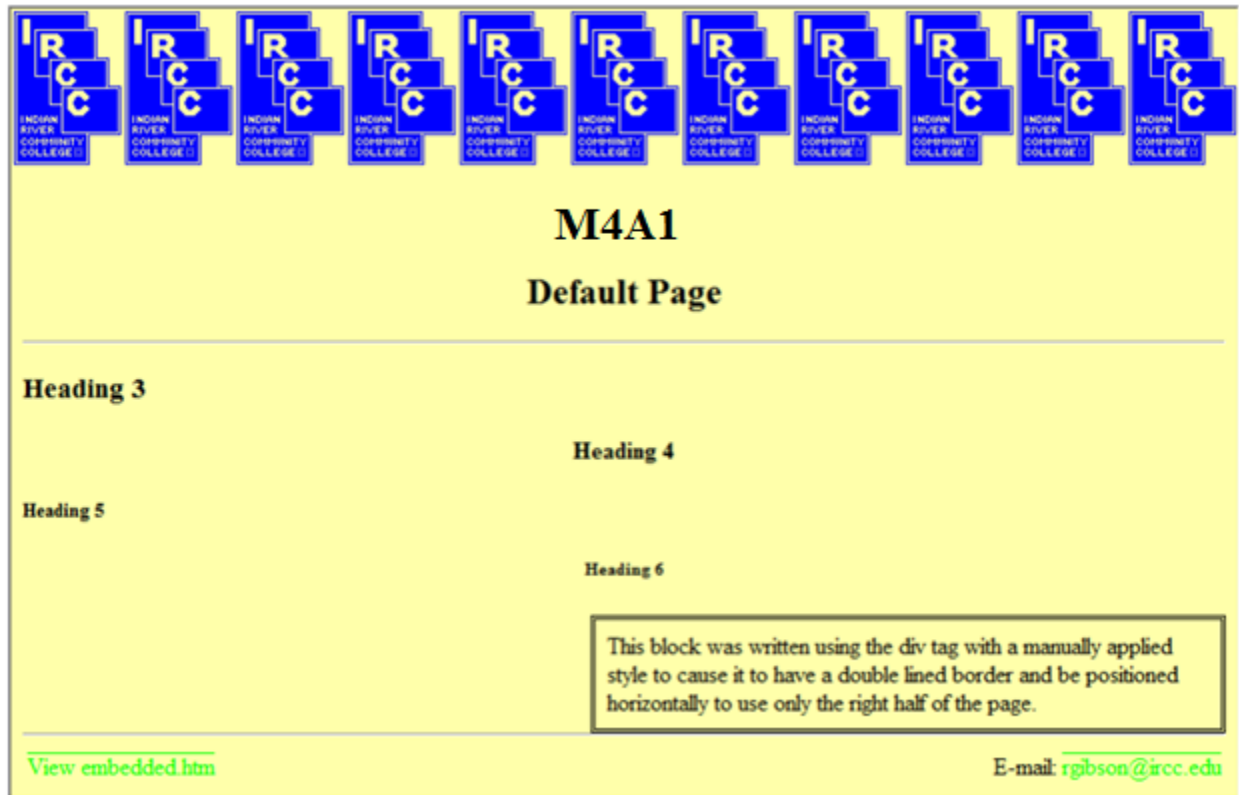
Project Constraints:

A. Use a plain text editor to create your HTML and CSS pages with names as indicated below. You must not use Word, Wordpad, Dreamweaver, or any other web authoring software.

B. Create a folder on your computer named "M4A1" to serve as the sole folder for your project files.

C. Create a valid CSS file named "m4a1.css" in your "M4A1" folder to serve as an external CSS style sheet for your site that defines (not just relies on defaults for) the following styles for your site:

    o   A background image of the old IRCC logo accessed directly from the URL:

        http://www.gibsonr.com/classes/images/ircclogo.gif

        This image must repeat across the top of all pages to form a banner and must not disappear when a web page is scrolled vertically.

    o   A background color of yellow.

    o   A top margin of 120 pixels for the body to avoid overlapping the IRCC logo banner.

    o   All headings of levels 1, 2, and 4 must be centered. All headings of levels 3, 5, and 6 must be left aligned.

    o   Define pseudo-classes to cause your link anchors to appear as follows:

a. All types of anchors should appear overlined instead of underlined.

b. Unvisited links: green.

c. Visited links: red.

d. Links that you are hovering over: blue and bolder.

e. Active links: blue (but not bolder).

D. Create a valid HTML file named "default.htm" in your "M4A1" folder to serve as the home page for your project that will conform to the styles defined in your external style sheet. Your default.htm file must contain inline style specifications that will override the external style sheet as described below. CSS and other criteria for this page include:

o A title of "M4A1 - Default Page".

o Headings as shown on the illustration of the site except that the alignment for the level 6 heading must be defined as centered using an inline style attribute.

o Horizontal rules as shown on the illustration of the site.

o A block as shown on the illustration of the site, written using the div tag with an inline style to cause it to have a double lined border and one half of a letter width padding offsetting the text. Also the box must be positioned horizontally to use only the right half of the page. Hint: see the float property. Note that the horizontal rule following the block must contain an attribute to clear the float to force that rule to be positioned under/past the block rather than to the left of it.

o Use a one row borderless table to align two links that appear as shown on the illustration of the site as follows:

a. A left aligned cell containing link to your "embedded.htm" page.

b. A right aligned cell containing an email link to you.

E. Create another valid HTML file named "embedded.htm" in your "M4A1" folder to serve as a special page for your project that will use some but override others of the styles defined in your external style sheet by using an embedded (a.k.a. "internal") style sheet (in the head section). CSS and other criteria for this page include:

o A title of "M4A1 - Embedded Page".

o Headings as shown on the [illustration of the site], all controlled by style definitions in the embedded style sheet as follows:

o All headings of levels 1, 2, 3, and 6 must be centered.

o All headings of levels 4 and 5 must be left aligned.

o A background color of pink defined by an inline style attribute in the body tag.

o Horizontal rules as shown on the illustration of the site.

o The instruction paragraph on Embedded Page (shown on the illustration of the site) must be accomplished with an ordinary paragraph element that uses a class named "instruction" that is defined in the embedded style sheet. It should show up in a smaller than normal italic red font.

o The next paragraph must use a span element with an inline style defined to display the second sentence in italics and smaller than normal with a line through it.

- o Use a one row borderless table to align two links that appear as shown on the [illustration of the site] as follows:

  a. A left aligned cell containing link to your "default.htm" page.

  b. A right aligned cell containing an email link to you.

F. Do not use any other images, color, etc., or other multimedia content on this project.

G. Place a comment near the beginning of each file identifying yourself as the author and noting the date. Remember that XHTML comment tags look like this:

```
<!-- Comment here -->
```

and CSS comment tags look like this:

```
/* Comment here */
```

H. Use the W3C Markup Validation Service to validate your HTML code

I. Use the W3C CSS Validation Service to validate your use of CSS in each file you wrote. Note that the validator's "By file upload" method will work only for external (pure) CSS files. Embedded and inline rules will have to be validated using either the "By direct input" method or the "By URI" method (which works only for files stored on a Web server).

Tips:

- Before attempting this assignment (graded assessment measure), be sure to have completed all Skillport trainings and readings.

- Start working on your project as soon as possible. Do not wait until you believe that you have mastered all of the skills. If you encounter an obstacle that you cannot solve after checking SkillPort, and other reference materials, send me a copy of the source code and request feedback. Do not write html tags in a message when using a web-based email system such as Blackboard, as it will typically try to interpret them rather than display them. You can use the Blackboard email system to send questions about HTML code if you put that code in a separate file and attach it inside of a compressed archive (zipped folder) to prevent your message from being blocked by mail server virus filters. Remember that I will need time to respond. So give yourself that time by starting early.

- Build the project one step at a time. Try to create a simple web page with just one paragraph on it; then validate it. If it validates, then try adding some more elements and validate again, etc.

- Many systems are "case sensitive", so pay attention to upper and lowercase when typing URL's and filenames in tags. Save your work after each change before trying to view it in your browser. Also, you must press the RELOAD (a.k.a. REFRESH) button on the browser's button bar to see any changes made to a page since the previous rendering of it.

- Finally, relax! Don't get stressed about this. Take it in small steps. Get as much of it working as you can. If you get stuck on one element, then use comment tags (<!-- and -->) to mask any code that is causing trouble, move on to a different element, and come back to solve the problem later. Some

frustration can be a valuable motivator to reinforce lessons. But too much can inhibit learning. Schedule your time to allow some breaks between working sessions.

- If you are authoring using Windows software, you will find it easier to locate and select files on your computer if your Windows "Folder Options" view properties are set so that the software does not hide the extensions such as ".html" at the ends of filenames. Instructions for unhiding extensions can be found at the bottom of the web page about Windows® File Association.

Submission:

Copy your **M4A1** folder into a compressed folder with the same name, but with a ".zip" extension. In Windows, this is performed by right-clicking the folder to be compressed and then selecting: Send to > Compressed (zipped) folder .

Your **M4A1.zip** file should be submitted via the **M4A1** Assignment page found in Blackboard under Content > Module 4 > Module 4 Assessments.

If you need step-by-step directions, read the web page at:
http://www.gibsonr.com/classes/howto/onlinesubm.html