CS125H - Coding Conventions

You should adhere to the following conventions for all submitted code. (The purpose of coding conventions is explained in detail [here](#))

Coding Conventions

HTML files
- must have the following
    - HTML 5 doctype (and that must be the FIRST thing in the file)
    - Meta tag for charset (required) and author (recommended, if you do not use the author meta tag, please include an HTML comment with your name and date)
    - Unique page title
- should be well formatted and easy to read - see below
- should validate

CSS files
- should contain a comment block at the top with
    - your name
    - the date
- should be consistently well formatted and easy to read - see below
- should use descriptive class and id names

Creating well formatted and easy to read code
- In HTML, creating well formatted code means:
    - all tags are in all lowercase letters (with the exception of the document type declaration)
    - all attribute values are enclosed in quotation marks.
    - creating each new block tag on its own line in the text editor
    - adding one blank line in between major sections of your page
    - blocks that are nested inside of other block elements should be indented one more level in the text editor
        - You may select your own version of what a standard indent is for your documents. Some developers swear by the use of tabs, others by a couple of spaces. Whatever you like best is fine with me.
- In the "good" example below notice how easy it is to scan the code and visualize what elements are contained inside of other elements. The <html></html> tags contain two main blocks (head and body). The body section contains three main blocks (header, main, footer). The main section contains two main blocks (article and aside).

Examples - Good use of conventions, indenting (via tabs), and white space

```html
<!DOCTYPE html>
<html lang="en">
	<head>
		<title>Coding conventions demo</title>
		<meta charset="utf-8">
		<meta name="author" content="Debra Carino">
		<!-- Alternatively, use an HTML comment for your name and date -->
	</head>

	<body>
		<header>
			<h1>Coding Conventions Demo</h1>
			<hr>
			<nav>
				<ul>
					<li><a href="index.html">Home</a></li>
					<li><a href="details.html">More details</a></li>
				</ul>
			</nav>
		</header>

		<main>
			<article>
				<h2>Why Conventions?</h2>
				<p><em>Conventions</em> are important because…</p>
				<p>Also consider that…</p>
				<img src="images/conventions.png" alt="Readability is good!">
			</article>

			<aside>
				<blockquote>Any fool can write code that a computer
					can understand. Good programmers write code
					that humans can understand.</blockquote>
				<cite>Martin Fowler</cite>
			</aside>
		</main>

		<footer>
			<p>&copy; Copyright 2019; all rights reserved</p>
		</footer>
	</body>
</html>
```

<u>Counter Examples - Good use of white space, but other conventions ignored</u>

```html
<HTML lang="en">
    <head>
        <title>Coding conventions demo</title>
        <meta charset="utf-8">
    </head>

    <BODY>
        <HEADER>
            <H1>Coding Conventions Demo</H1>
            <hr>
            <nav>
                <ul>
                    <li><a href=index.html>Home</li></a>
                    <li><a href="details.html">More details</li></a>
                </ul>
            </nav>
        </HEADER>

        <main>
            <article>
                <h2>Why Conventions?</h2>
                <p><em>Conventions</em> are important because…</p>
                <p>Also consider that…</p>
                <img src="images/conventions.png" alt="Readability is good!">
            </article>

            <aside>
                <blockquote>Any fool can write code that a computer
                    can understand. Good programmers write code
                    that humans can understand.</blockquote>
                <cite>Martin Fowler</cite>
            </aside>
        </main>

        <footer>
            <p>&copy; Copyright 2019; all rights reserved</p>
        </footer>
    </BODY>
</HTML>
```

Counter Examples - some conventions observed, but insufficient use of whitespace

```
<!DOCTYPE html>
<html lang="en">
<head>
<title>Coding conventions demo</title>
<meta charset="utf-8">
<meta name="author" content="Debra Carino">
<!-- Alternatively, use an HTML comment for your name and date -->
</head>
<body>
<header>
<h1>Coding Conventions Demo</h1>
<hr>
<nav>
<ul>
<li><a href="index.html">Home</a></li>
<li><a href="details.html">More details</a></li>
</ul>
</nav>
</header>
<main>
<article>
<h2>Why Conventions?</h2>
<p>Conventions are important because…</p>
<p>Also consider that…</p>
<img src="images/conventions.png" alt="Readability is good!">
</article>
<aside>
<blockquote>Any fool can write code that a computer
can understand. Good programmers write code
that humans can understand.</blockquote>
<cite>Martin Fowler</cite>
</aside>
</main>
<footer><p>&copy; Copyright 2019; all rights reserved</p></footer>
</body>
</html>
```

<u>Counter Examples - why, just why?</u>

```html
<html lang="en"><head><title>Coding conventions demo</title><meta charset="utf-8"></head><body><header><h1>Coding Conventions Demo</h1><hr><nav><ul><li><a href="index.html">Home</a></li><li><a href="details.html">More details</a></li></ul></nav></header><main><article><h2>Why Conventions?</h2><p>Conventions are important because…</p><p>Also consider that…</p><img src="images/conventions.png" alt="Readability is good!"></article><aside><blockquote>Any fool can write code that a computer can understand. Good programmers write code that humans can understand.</blockquote><cite>Martin Fowler</cite></aside></main><footer><p>&copy; Copyright 2019; all rights reserved</p></footer></body></html>
```