**CS321 – Unit 1 HTML5 and CSS**

 **Chapter 0 – Basic HTML5 -** **Assignment before first class**

This assignment is a review of what you already know about computers and the Internet, and the getting ready for coding of two very simple web pages.

There are two parts for this assignment and three problems (Problems 0, 1, and 2), so be sure to read the whole document.

**1.0 General Background**

**Read**:

 Introduction to CS321 Technologies (in the Chapter 0 folder).
 References for CS321 (in the Chapter 0 folder.)

 Getting Ready for the Course (in the Chapter 0 folder)

If you have never read anything about the history of the internet, read
the short history at <https://www.scienceandmediamuseum.org.uk/objects-and-stories/short-history-internet> . For those of you interested in networks, there is a more
detailed history at <https://www.internetsociety.org/internet/history-internet/brief-history-internet/>

**Watch**: <https://www.youtube.com/watch?v=hJHvdBlSxug> on how the World Wide Web works and then <https://www.youtube.com/watch?v=guvsH5OFizE> which takes it a little deeper. These are pretty short, and some of the material will be review (if you had CS110 or 227.)
At the end of this you should know

* What is the difference between the Internet and the World Wide Web?
* What is the DNS?
* What is a framework?
* What are the 3 core technologies needed to write web pages?
* What is a GET?
* What does HTML stand for?
* What does HTTPS stand for?

**1.1 Start on HTML**

**Read:**

* If you have never written a web page, please read <http://www.yourhtmlsource.com/starthere/whatishtml.html>
* Read any ***one*** of the following:
The first three are recommended if you have never written a web page. The other two are better if you wrote web pages, but need a review.
* <http://htmldog.com/guides/htmlbeginner/> (through the page on Headings)
* <https://www.youtube.com/watch?v=-USAeFpVf_A>
* <https://www.youtube.com/watch?v=pQN-pnXPaVg> minutes 8-42
* <https://www.tutorialspoint.com/html/index.htm> (through the section on elements)
* <http://w3schools.com/html/default.asp> (through the page on paragraphs)
(the Introduction and Text sections.)

**After that read:**

* Basic HTML5 Notes through to section 2A on "Organizing text – the details. "
You will find these notes in the Chapter 0 folder.

**NOTE: All of the tutorials above are too casual about what belongs in *every* web page, in order to just get you started.**
**The correct syntax for HTML5 pages is**

**<!DOCTYPE html>**

 **<html lang=’en’>**

 **<head>
 <meta charset="UTF-8">**

 **<title>MyPage</title>**

 **<!-- documentation about who wrote this page when, etc. -->**

 **</head>**

 **<body>**

 **</body>**

 **</html>**

 **It is also shown on p.4 of the HTML Notes and in the
Template\_ for\_HTML5\_ files.html , both of which are in the Chapter 0 | folder at** [**http://web.simmons.edu/~menzin/CS321/Unit\_1\_Basic\_HTML5\_and\_CSS/Chapter\_0\_Basic\_HTML/**](http://web.simmons.edu/~menzin/CS321/Unit_1_Basic_HTML5_and_CSS/Chapter_0_Basic_HTML/) **.

Problem 0: Making a copy of this template for your computer**There are two ways you can make a copy of this template.
Method 1:
Open your text editor (atom or Notepad++)
Copy and paste the red code into a new file there.
Save the file as template.html on your desktop or in your folder for the course.

 Method 2
Navigate to the Chapter 0 web page linked above.
Click on the Template for HTML5 file near the bottom of the page.

 It will open as a blank page – but you can type Ctl + u to see the source code of the template.
Copy the source code into your text editor.

 Save the file as template.html on your desktop or in your folder for the course.

**Here is the next thing you need to do for the first class. Remember, that the sites immediately above will provide additional material if you need it.**

**Homework Assignment 0 for Chapter 0**In this part of the assignment we will be making use of the programs in the folder "HTML Programs for Chapter 0". That folder is on the Chapter 0 page for the course. At <http://web.simmons.edu/~menzin/CS321/Unit_1_Basic_HTML5_and_CSS/Chapter_0_Basic_HTML/>

**Problem 1.**

* As you know, when we write HTML pages, we use either a text editor or an HTML editor. For this assignment we will use a text editor.
* In this assignment you will write a page similar to p1\_**MyFirstPage**.html in the html programs folder.
* You should examine that program first. The easiest way to do this is to open it in Firefox (or Chrome) and then type ctl+u on a PC or cmd+u on a Mac . That will open a new tab with the code for the page.
* After you have looked at **p1\_MyFirstPage.html**, you are ready to do this assignment.
* Open your text editor (Notepad++ or atom or sublime) and type the following:

 <!DOCTYPE html>

 <html lang=’en’>

 <head>
 <meta charset="UTF-8">

 <title>YourName HW1</title>

 </head>

 <body>

 Hello World from (your name)

 </body>

 </html>

* Make a folder for all your HW assignments in this course.
* Save the file as hw1\_yourname.html
* Using Firefox, open that file. It should display correctly.
* **Email** the file to me before the class and to yourself.

**BONUS**: Prize for anyone who can set the first 6 lines above to music & make it easy to sing.

**Problem 2**

* In this assignment you are to use the heading tags to produce a page which looks like:

Your name

Your name

Your name

* The title for your page should be YourName HW2.
* The page should have a **comment** in the head giving your name and date you wrote the page.
* In the body you will have 3 lines, each with a different heading tag.

For example, if I were to write the page my first line in the body would be:

 <h1>Margaret Menzin</h1>

* You may find it helpful to look at **p2\_HeadingsInTheBody.html** and **p3\_HeadingSize.html**
* You should also be able to explain what each line of code in those pages does.
* After you have saved the file as hw2\_YourName.html you should **email** it to me and to yourself.

**And for a change of pace….**
Finally, I would like you to start reading a book about design. This course will not make you an accomplished graphic designer – but at the least you can avoid producing pages which are ugly.
It's not a long book, but you probably don't want to read it all at once.
By the time you finish the Chapter 0 of this course you should have read all of Robin Williams’
The Non-Designers Design Book. It’s a fabulous little book, on reserve in the library., in print.

If you are taking this course on line or can’t access the print book, please read <https://wiredcraft.com/blog/robin-williams-four-basic-design-principles-for-non-designers/>