

# CMPS 350 Web Development Fundamentals

## Lab 1 - HTML Basic Tags, Tables and Semantic Elements

### Objective

Learn and practice how to write:

1. Simple HTML page using basic HTML tags such as <h1> to <h6>, <p>, <br>, and <!-- -->
2. HTML Tables to arrange data such as text, images, links into rows and columns.
3. HTML Semantic Elements. <header> <footer> <main> <article> <aside> <details> <figcaption> <figure>

### Overview

This lab has two parts.

- **In Part A**, you will write a simple HTML page using basic HTML tags. Then you will design and create a second page that has an HTML table.
- **In PART B**, you will create a simple QU Website.

As you make progress push your work to your **cmeps350s22** GitHub repository

### Preparation

1. If not done already,
  - a. Visit <http://github.com> and create an account. Your github username must be your *firstname-QuUsername*
  - b. Install Github Desktop application <https://desktop.github.com>
  - c. Download and Install Webstorm IDE <https://www.jetbrains.com/webstorm/download/>
  - d. Use the link under posted on BB under your section to get your private repo [You should use this link only once]
  - e. Visit <https://github.com/cmeps350s22> and clone your private repository (named **LabNo-YourFirstname-QuUsername**)
2. Save the files produced in this Lab under the **Lab1-HTML** folder
3. As you make progress push your work to your cmeps350s22 GitHub repository.

### **Part A - Basic HTML Tags -Warmup activities**

1. Create an html file and name it `index.html` and type the following code.

```
<html>
  <head>
    <Title>The First Page</title>
  </head>
  <body>
    This is my first html program!
  </body>
</html>
```

2. Run your code on the browser.

3. Open the <https://www.w3schools.com/html/> explore and try yourself basic HTML tags:
  - a. Heading [h1 to h6]
  - b. Paragraph
  - c. Link and Anchors
  - d. Quotations and Citations
  - e. List [type= "I" , "a", "A", "i"]
  - f. Semantic Tags [header , nav , main, section , article , aside , footer]
  - g. Tables
  - h. Image

## Exercise 1 – HTML Basic Tags and Semantic Tags

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Create the following page

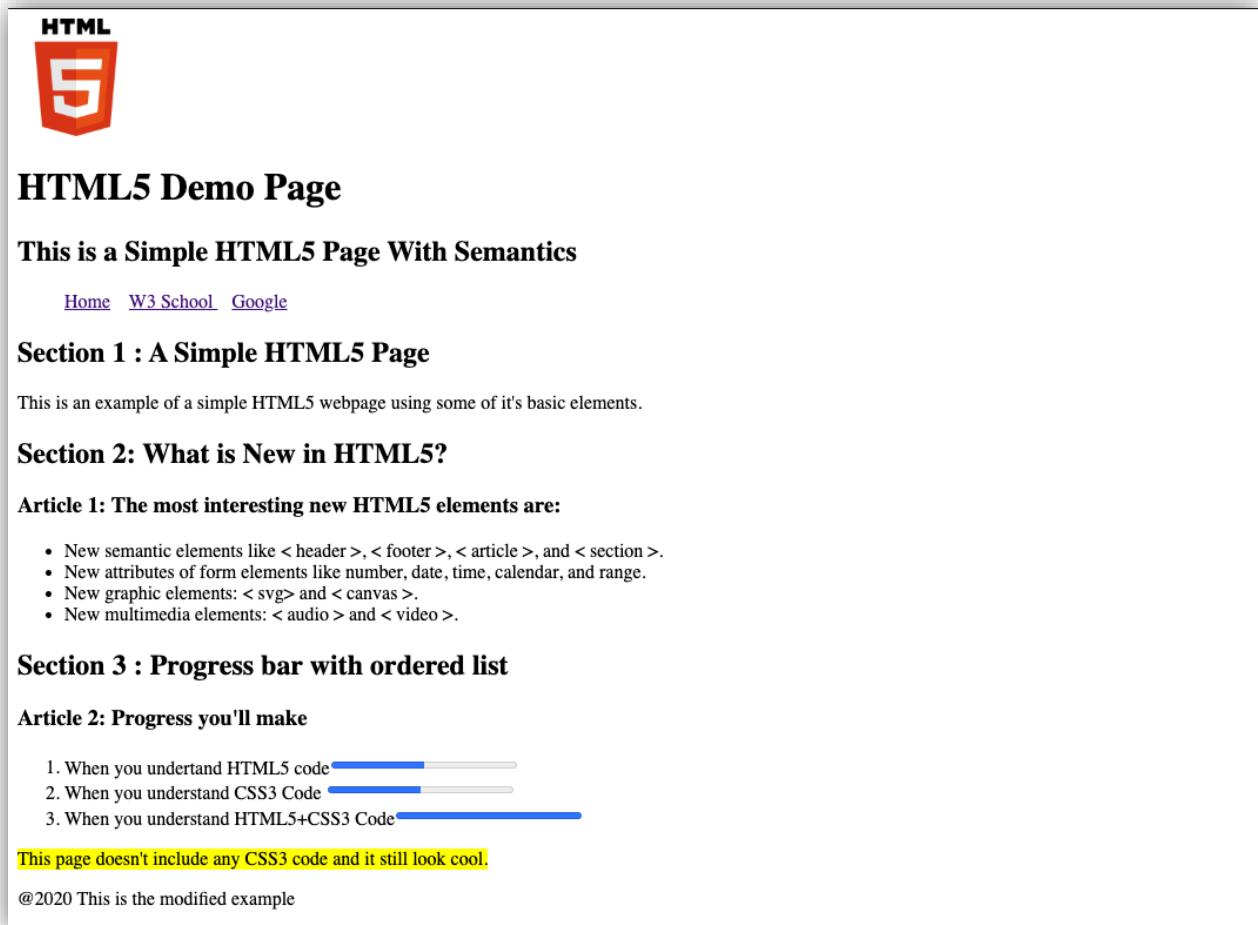


Figure 1 : HTML demo page

## Exercise 2 HTML Tables

1. Create an html file and name it **books.html**.
2. Design a page that has a single table that looks like table 1 shown below.

Table 1 : HTML table

Book ISPN	Book Name	Authors		Donator Name
		First	Second	
978-148410-0	Doorway to Darkness	John bank	Baba Ali	Ali Mohamed
278-148410-0	The Three-Body Problem	Doe wu	Donald Kerry	Abdulahi Hassen
478-148410-0	Other Side of the Sky	Tyler Sky	George Bush	Mohamed Ali
All books can be claimed from our office in H209				

## PART B – Practice

### Qatar University Fiction Website

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#### Facts and Figures




Fig. 1 QU Campus

Since its inception in 1973, Qatar University has become the country's national and major institution of higher education. Did you know that QU delivers 4 highly-popular high school initiatives -- Life is Engineering, Gasna, Computing Contest, and Al Bairaq?

#### Other Interesting Facts

1. For the first time, Qatar University (QU) has been featured in the Times Higher Education World University Rankings in the 601-800 group.
2. QU has also scored the highest for International Outlook among all the other universities this year.
3. This year, the Ranking had 70 countries in it out of which 29 were first timers. This is the first time that countries like Qatar, Indonesia, Malaysia, Ghana, Nigeria, Bangladesh, Latvia, Oman and Ukraine have been featured in it.
4. The countries were ranked partly based on the publication and citation data from the world's largest abstract and citation database of peer reviewed literature called the Elsevier's Scopus.
5. The Editor of the Rankings, Phil Baty, has commented as, "Qatar is one of several countries to have made its debut in this year's rankings. The achievement is in part due to expanding the ranking to include 801 universities and 70 countries."
6. Among the Middle Eastern countries, Iran leads with 8 universities in the top 800. Egypt and Saudi Arabia with 3 universities, Jordan and UAE with 2 universities and Qatar, Lebanon, Morocco and Oman with 1 university each in the top 800 list.
7. In the African region, South Africa leads with 6 universities in the top 800.

- [Check Registration Form](#)
- [Check Timetable for the semester](#)
- [Visit Qatar University Main Page](#)

Figure 2 Qatar University Fiction Website

1. Create a project called **QU-Website** under Lab1-HTML folder in your GitHub repo
2. Create the following two html pages:
  - a) index.html
  - b) timetable.html
3. The **index.html** should look as shown in Figure 2. Also, at the bottom of the index page you should have the two links that take you to the web site pages.

You are allowed to use any image from Google to replace the image shown above. Also, do not forget to structure your project. The images should be inside the img folder.

4. The **timetable.html** file should have a single table that has the following design.  
**Note:** Make sure to use the proper border, colspan , rowspan, header on your table design.

Spring 2020 Time Table						
		Sun	Mon	Tues	Wend	Thu
Hours	8am to 9:50am	Java	Calculus		Databases	English
	10am to 11:50am	Arabic	French	History	Social	
	12pm to 1 pm	Lunch				
	1pm to 2:50pm	C++		Math	Swimming	Project
	3pm to 4:50pm	Swimming		Reading at Library		

As you make progress push your work to your GitHub repository.