

ITCS212 - Web Programming

Lab 3: CSS

MUST READ:

- Q1 is required to be completed by class time (BKK time), while Q2 and Q3 are for extra fun; also extra points to be given for participants (It is always good to practice).
 - **Q1 must be submitted through Q/A with LA and on MyCourses** following the naming convention
 - **Q2 and Q3 are optional.** However, the participants will be rewarded for those who practiced and submitted :) If you want to submitted these extra question, please submit it within a week through MyCourses
 - **No late submission beyond the deadline is allowed**
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Q1: [1pt] Basic CSS. Given the below L03-q1.zip and the expected output in Fig L03-Q1, write CSS to create all styles as stated in the following table:

#	Style details	Apply to
1	All font used in the webpage must be sans-serif	All
2	The color of the text is #F8F9F9 with the center alignment and the background color is #2E4053	<header> and <footer>
3	No bottom margin and have padding 20px	<h1> inside <header>
4	Set the padding to 5px	<p> inside <footer>
5	The navbar must have the background color as #5D6D7E, no margin, and no list style type. All elements must be aligned (row-based) to the left. (Hint: flex)	navbar (class)
6	The color of the text is #FDFFFE. The padding is 14px for top and bottom and 20px for left and right sides, and no text decoration	<a> inside navbar (class)
7	During mouse hovering, the background color must change to #85929E	<a> inside navbar
8	The width of <article> is 80% with auto margin and padding left and right of 20px	Every <article>
9	Display all elements in images class in row-based (Hint: flex) and align the content in the center	images (class)
10	The image height is 250px and the border is rounded with a radius of 10px. During mouse overing, the image turns transparent (i.e. opacity is 0.8)	Every

11	The text is italic	Every <figurecaption>
12	The <a> with top class is aligned at center and the background color is #D7DBDD. During mouse hovering, the background color changes to #48C9B0	<a> with top class

Submit only the CSS file, named as L03_xx88xxx_secY.css by class time via MyCourses (Note: XXX is your ID and Y is your section). You must notify LAs to grade your work before submitting to MyCourses.

Fig L03-Q1: The expected overall output page with the correct CSS codes (See the full image in MyCourse: **Fig L03-Q1**)

Fundamentals of Web Programming

Home HTML CSS

Easy Learning with HTML "Try it Yourself"

The latest version of HTML is HTML5.2

- HTML stands for Hyper Text Markup Language
- HTML is the standard markup language for creating Web pages
- HTML describes the structure of a Web page
- HTML consists of a series of elements
- HTML elements tell the browser how to display the content
- HTML elements label pieces of content such as "this is a heading", "this is a paragraph", "this is a link", etc.

The content comes from [W3School HTML](#). See the example is the following Figures.

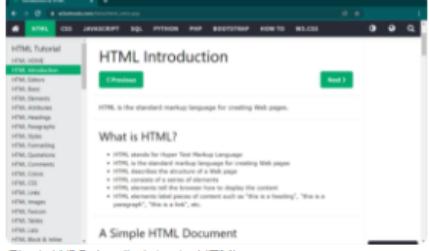


Fig 1. W3School's intro to HTML

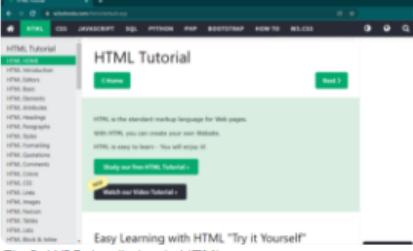


Fig 2. W3School's basic HTML

[Top](#)

CSS: Style your Web Page

HTML was NEVER intended to contain tags for formatting a web page! HTML was created to describe the content of a web page. For World Wide Web Consortium (W3C) created CSS to style formatting from the HTML page!

- CSS stands for Cascading Style Sheets
- CSS describes how HTML elements are to be displayed on screen, paper, or in other media
- CSS saves a lot of work. It can control the layout of multiple web pages all at once
- External stylesheets are stored in CSS files

The content comes from [W3School HTML](#). See the example is the following Figures.



Fig 3. W3School's intro to CSS

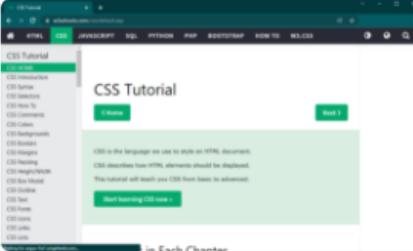


Fig 4. W3School's CSS syntax

[Top](#)

Created by [Your Name] ID: #####

Header

Fundamentals of Web Programming

Footer

Created by [Your Name] ID:#####

Navigation bar

Home HTML CSS

Navigation bar (zoom-in)

Home HTML CSS

Navigation bar when mouse hovering at “Home”

Home HTML CSS

Main article “HTML” (same structure as “CSS”)

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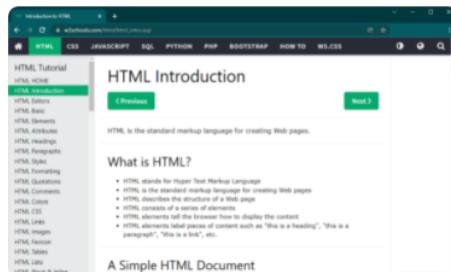


Fig 1. W3School's intro to HTML

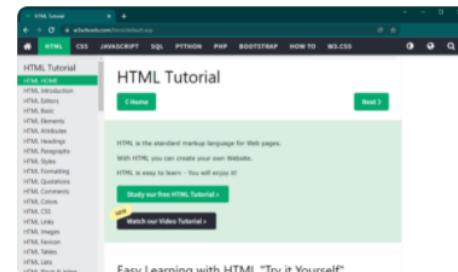


Fig 2. W3School's basic HTML

Top

Image

Figure (Image) and Figure caption

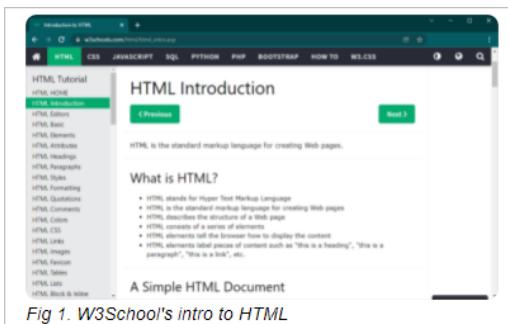


Fig 1. W3School's intro to HTML

Image during mouse hovering (color-fade)

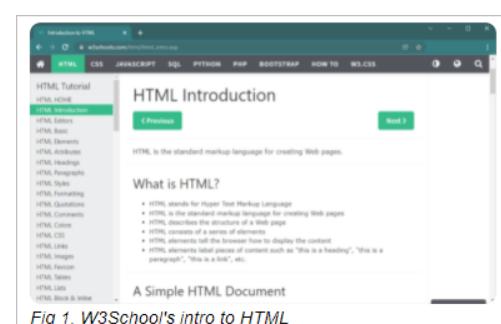


Fig 1. W3School's intro to HTML

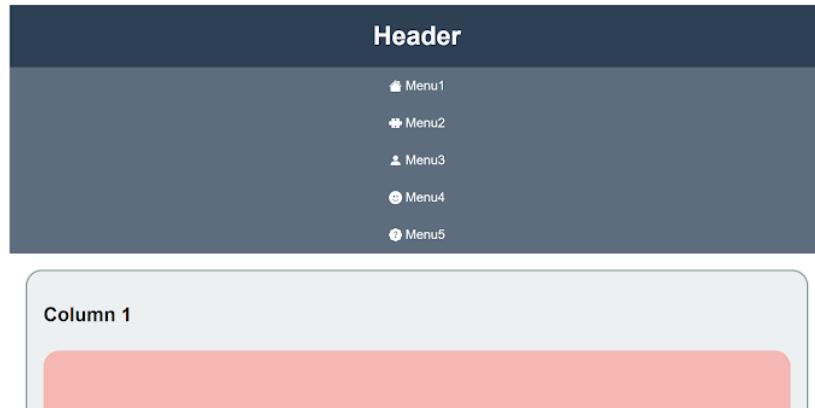
Link to Top: normal vs. mouse hovering (color-changed)

Top

Top

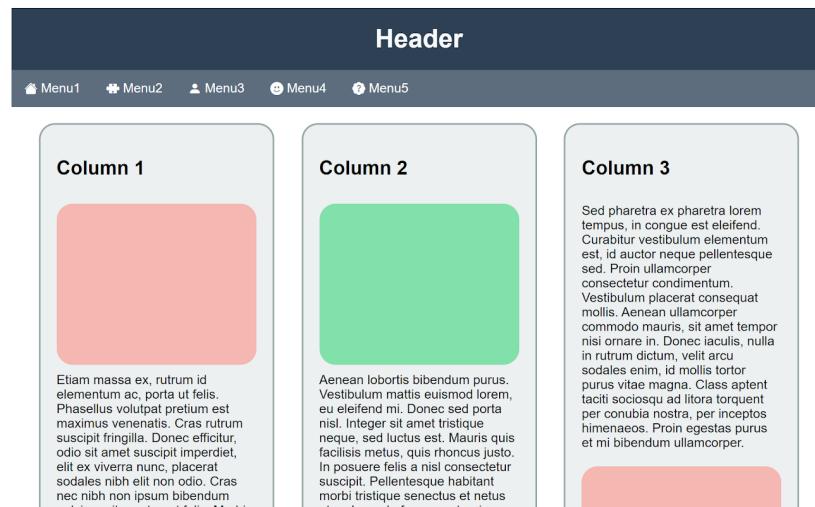
Q2: [Extra] Responsive Web Design. Given the following HTML file with the internal CSS, [L03q2.html](#), this webpage was designed to fit the screen smaller than 768px and not suitable for the larger screen. The output of the given page shows in **Fig. Q2A** below.

Fig Q2A: Part of the output page with no CSS when the screen is 1024 x 1366 (iPad Pro). (See the full image in MyCourse: **Fig L03-Q2A**)



Your job is to **add some CSS codes with a media query to the given HTML file** in order to make the web more suitable for the larger screen, i.e., **to have a web layout as shown in Fig Q2B** when the screen is larger than 768px. **Note: You must not modify any HTML codes and the CSS code from Line 6 to 73**

Fig Q2B: Part of the expected output page after adding the correct CSS when the screen is 1024 x 1366 (iPad Pro). (See the full image in MyCourse: **Fig L03-Q2B**)



No need to submit or notify your LAs for grading.

Q3: [Extra] Explore the use of the Bootstrapv.5.0 Framework. The following webpage uses the Card component [Ref: <https://getbootstrap.com/docs/4.5/components/card/>]. Try out the different class and component to generate a simple responsive Web page similar to the example in Fig L03-Q3A and Fig L03-Q3B (See full images on MyCourses)

Here are the steps you should follow (also see the extra slide in MyCourses):

- For the purposes of this Q3, use Bootstrap v.5.0 Framework
- You can find the starter template [here](#)
- Start the layout by putting a container [ref] and the grid [ref]

Note: One row should have 4 cols

- The page should have a header, main content, and footer
- Each column contains a Bootstrap Card component [ref].
- You have your own choices to put any images and information for the cards. Do not forget include them all in the same directory for submission

No need to submit or notify your LAs for grading.

Example of a Webpage

Acknowledgement: all info and images are from Genshin Impack Fandom [Ref]

Fig Q3A: Large Screen i.e. iPad Pro

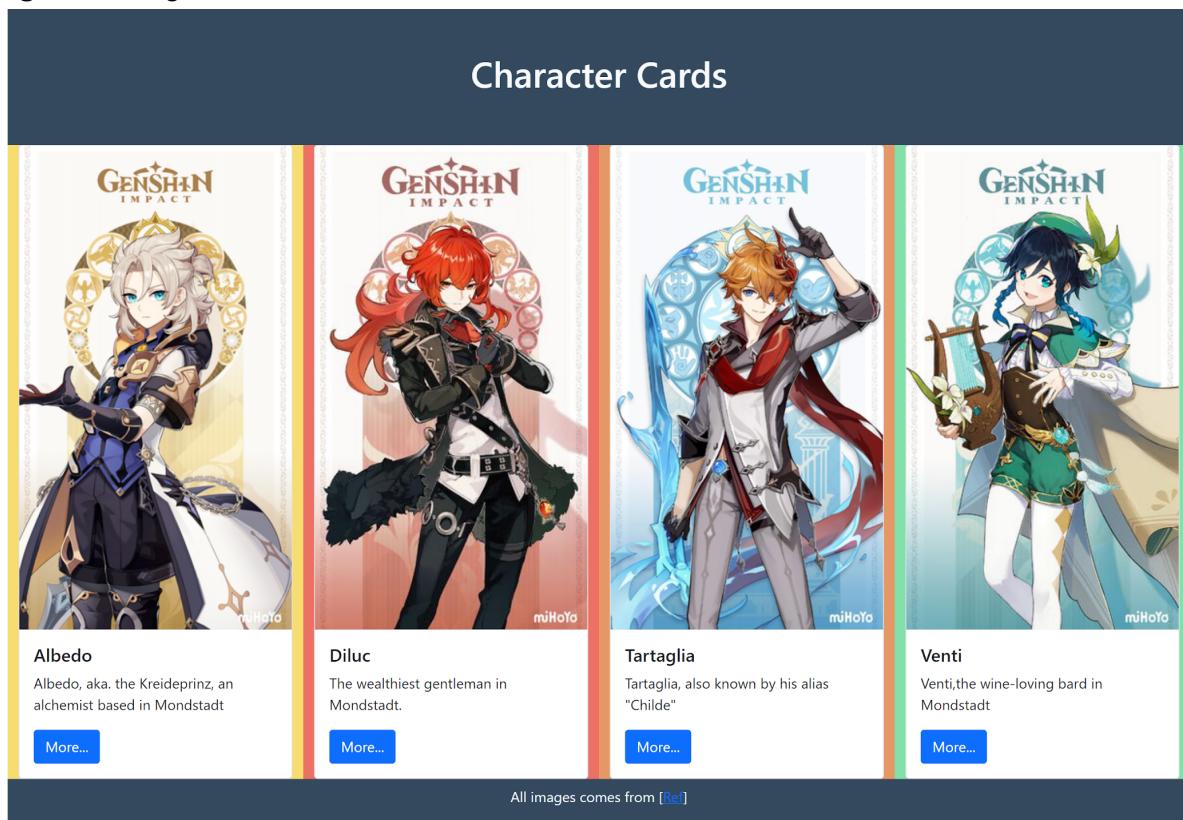


Fig Q3B: Small Screen i.e. iPhone X

(continued from the right)

