

Full Stack Developer

FSD-10

Foundations of Web Development

420-WA5-AB

May 19, 2023

Agenda – Class 4

Agenda:

1. Review - Class Exercise 2
2. Review - ASCII
3. HTML
4. Homework
5. Exit Quiz

Review - Class Exercise 2

To Validate Your Code

Check the HTML with the HTML validator.

[The W3C Markup Validation Service](https://validator.w3.org/)

validator.w3.org

Use the tab for “File Upload”. Click the check button.

Fix any errors in the HTML flagged by the validator.
Save the changes. Then repeat to check the page again.



HTML Basics

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="utf-8">
  <title>Sample Web page</title>
</head>
<body>
  <p>Hello!</p>
</body>
</html>
```

URL

Do a Google search for Microsoft Azure. Click on the link to Microsoft and notice the URL. Copy the url but do not include the ? or anything after. Paste it in a new tab and check that it is still valid.

Notice the difference between these 2 URLs. When keeping a URL, it can be much shorter if the tracking or advertising data is removed.

https://azure.microsoft.com/en-ca/free/search/?&ef_id=CjwKCAjwv_iEBhASEiwARoemvJtVUqeo1DTiT1Ilcfzum4gLDn2FdAiFeql08q1gu9n_u3qzoEJssBoC4V0QAvD_BwE:G:s&OCID=AID2100017_SEM_CjwKCAjwv_iEBhASEiwARoemvJtVUqeo1DTiT1Ilcfzum4gLDn2FdAiFeql08q1gu9n_u3qzoEJssBoC4V0QAvD_BwE:G:s&gclid=CjwKCAjwv_iEBhASEiwARoemvJtVUqeo1DTiT1Ilcfzum4gLDn2FdAiFeql08q1gu9n_u3qzoEJssBoC4V0QAvD_BwE

<https://azure.microsoft.com/en-ca/free/search>

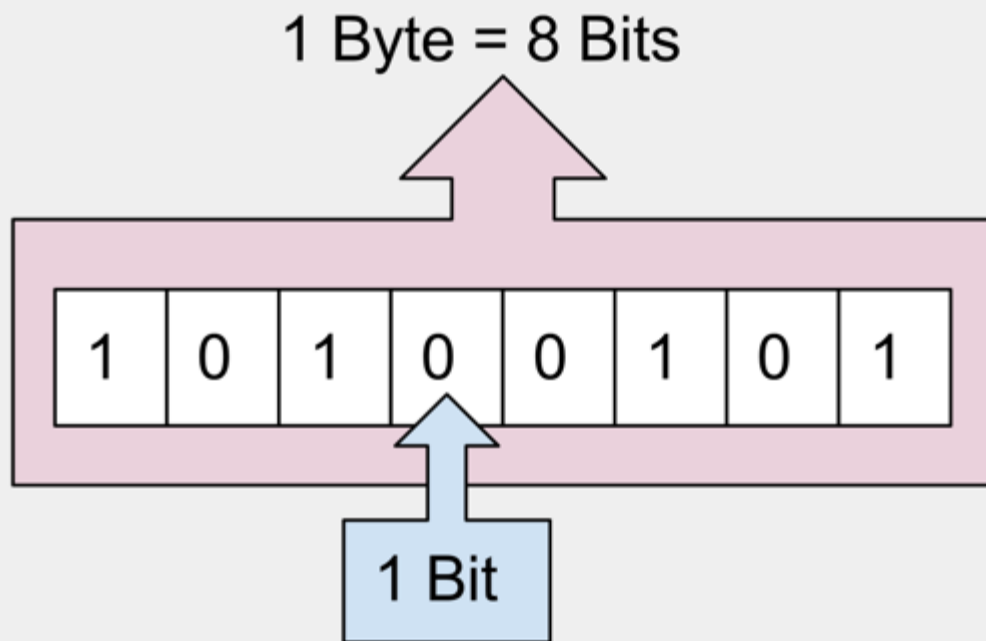
Review - ASCII

Lea - Course Documents – Class3_ASCII

Use the ASCII table to determine the Hex value for apple

DEC	HEX	BIN	Symbol	HTML Number	HTML Name	Description
32	20	00100000		 		Space
33	21	00100001	!	!		Exclamation mark
34	22	00100010	"	"	"	Double quotes (or speech marks)
35	23	00100011	#	#		Number
36	24	00100100	\$	$		Dollar
37	25	00100101	%	%		Procenttecken
38	26	00100110	&	&	&	Ampersand
39	27	00100111	'	'		Single quote
40	28	00101000	((Open parenthesis (or open bracket)
41	29	00101001))		Close parenthesis (or close bracket)
42	2A	00101010	*	*		Asterisk
43	2B	00101011	+	+		Plus
44	2C	00101100	,	,		Comma
45	2D	00101101	-	-		Hyphen
46	2E	00101110	.	.		Period, dot or full stop
47	2F	00101111	/	/		Slash or divide
48	30	00110000	0	0		Zero
49	31	00110001	1	1		One
50	32	00110010	2	2		Two
51	33	00110011	3	3		Three
52	34	00110100	4	4		Four
53	35	00110101	5	5		Five

Bits and Bytes (KB, MB, GB, TB)



1 byte	= 8 bits
1 kilobyte	= 1024 bytes
1 megabyte	= 1024 kilobyte
1 gigabyte	= 1024 megabyte
1 terabyte	= 1024 gigabyte

What is the term used for 4 bits or half a byte?

Convert the binary number shown to decimal.

Convert the binary number shown to hexadecimal.

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Using the ASCII table, what is this character stored in this byte?

HTML

1. W3schools – HTML
2. W3schools – HTML Tag reference (meta tag)
3. W3schools – HTML colors, Colors Tutorial, Color Hex – Try It Yourself
4. Lea – course documents - Class4_HTML_Basics_w3org

HTML

```
<!DOCTYPE html>
<html lang="en-US"> </html>
<head> </head>
<meta charset="UTF-8">
<title> </title>
<body> </body>
<h1> </h1>
<p> </p>
<ul> </ul>
<li> </li>
<a href=" "> </a>
```

Comments:

```
<!-- -->
```

HTML

Semantic elements:

`<section> </section>`

`<article> </article>`

`<aside> </aside>`

`<nav> </nav>`

`<header> </header>`

`<footer> </footer>`

Generic section:

`<div> </div>`



HTML

Attributes and more elements

Attributes

src="filename"

id="name"

class="classname"

Using id and class

Using multiple classes

Elements

<small> </small>

<pre> </pre>

<hr>

HTML

Images & Links

Images – file types, size considerations

```

```

Links - Relative paths

```
<a href="chromebook.html">Chromebook</a>
```

Link – within a page

```
<a href="#flower">Flower details</a>
```

... at some place on the page,

```
<article id="flower">.....</article>
```

Link – to an external page

```
<a href="http://google.ca">Google</a>
```

HTML Practice and Homework

1. Complete the Try it and Challenge sections of the Class4_HTML_Basics_w3org document.
2. Use the html validator to make sure your code is error free.

Read about the following acronyms in the MyAcronyms Class Document.
What do the following acronyms stand for?

1.	RAM	
2.	SEO	
3.	CPU	
4.	PB	
5.	MB	
6.	BIT	
7.	AWS	
8.	SSD	
9.	BYOD	
10.	LAN	

Determine the following answers:

Convert binary 1010101 to decimal	
Convert hex 7 A 1 to binary	
Convert binary 1111111010100011 to hex	

True or False

- ___ USB ports are the most common type of port used for connecting peripherals to a computer.
- ___ The binary equivalent to hexadecimal 8F is 10011111.
- ___ Four binary digits can be represented by exactly one hexadecimal digit.
- ___ A speaker is an input device.
- ___ Level 1 cache is found on the hard drive.

Identify the steps in a CPU cycle

1	2	3	4
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Explain cloud storage: _____

Exit Quiz

❖ Exit Quiz

<https://b.socrative.com/login/student/>

Room name 6118

Question 3: Where do you add the author of the webpage in the HTML?

3 of 3

Please answer the teacher's question.

Enter Answer Here

SUBMIT ANSWER