MSU x Pathlight Belize Coding Club Spring 2023

Week 1
14 January 2023

MSU x Pathlight Belize Coding Club
Spring 2023

Agenda

10-10:15 BZT	Pre-Survey (resolve technical difficulties)

10:15-10:45	Welcome, ice breaker
10:45-11	Mentor Introductions
11-11:20	What is BZE/club contract

11:20-11:50	CodeHS set up + Begin Week 1 Lesson
11:50	Standup & Temperature Check
12:00	Dismiss students

MICHIGAN STATE UNIVERSITY ✕ PATHLIGHT BELIZE

Pre-Survey & Attendance

Pre-Survey:

https://forms.gle/AX6YkstBYDRmru2i7

Attendance:
https://forms.gle/NXWVE67PBD1isiLr7

Icebreaker - Show and Tell

Find an object in your home that you like or that means something to you and tell us about it!

Today's Goals

- Get familiar with CodeHS
- Meet the mentors and other students!
- Make our Club Contract

Meet Your Mentors!

1. My name is…
2. I'm a…(Freshman, Sophomore, Junior, Senior)
3. Something cool I've done with coding…
4. In addition to coding, I'm interested in…

Club Contract

We want all of you to help us make a club contract to follow for the next 9 weeks.

What rules should we have to make our club better and promote our community?

Intro to HTML/CSS

HTML = Hyper Text Markup Language; content described by tags

CSS = Cascading Style Sheets; description of presentation of an HTML document

What does that mean?

- HTML and CSS are the languages we use to make web pages and web applications
- HTML defines the content of webpages
- CSS controls the style and layout
- Javascript can make web pages interactive

Exploration

- Navigate to your favorite website

  (https://msu-cse-outreach.github.io/belizeweb/index.html)

- Right click anywhere on the page.

- Select "View Page Source" or "Inspect Element"

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1. What do you first notice about the page that appears?

2. What do you think signifies a "tag"?

3. What are some of the tag names?

4. What questions do you have?

Tags

- Tags tell the browser how to interpret text
- Tags surround content and apply meaning to it
- Tags need to have an opening & closing tag
  - \<tag\> \</tag\>
- Some tags are self-closing
  - \<tag /\>

CodeHS

Go to codehs.com and create an account.

Then, use this link to join our class:

https://codehs.com/go/9BF9E

Practice Lesson

Switch to Block View

```
1  <h1>Hello!</h1>
```

▶ Run Code   ↻ Clear

See HTML in new window

Hello!

Example #1

Try lesson 2.1.4: Say Hello!

Use an <h1> tag to create the heading

"Hello, Worldwide Web!"

Example #2 Solution

Practice Lesson - 2.2.3: HTML Template

```html
 1  <!DOCTYPE html>
 2  <html>
 3      <head>
 4          <title>Title of Your Page</title>
 5      </head>
 6
 7      <body>
 8          Page Content Goes Here!
 9      </body>
10  </html>
11
12
13
```

Title of Your Page

Page Content Goes Here!

Practice Lesson

```
 1  <!DOCTYPE html>
 2  <html>
 3      <head>
 4          <title>Title of Your Page</title>
 5      </head>
 6
 7      <body>
 8          Page Content Goes Here!
 9      </body>
10  </html>
11
12
13
```

<!DOCTYPE html>

<! >   Is a comment

DOCTYPE html   tells the browser which version of html we are using. This is version is html 5.

Practice Lesson

```
 1  <!DOCTYPE html>
 2  <html>
 3      <head>
 4          <title>Title of Your Page</title>
 5      </head>
 6
 7      <body>
 8          Page Content Goes Here!
 9      </body>
10  </html>
11
12
13
```

<html> </html>

Everything inside these tags is html.

Everything on your webpage will be inside these tags.

Practice Lesson

```
 1  <!DOCTYPE html>
 2  <html>
 3      <head>
 4          <title>Title of Your Page</title>
 5      </head>
 6
 7      <body>
 8          Page Content Goes Here!
 9      </body>
10  </html>
11
12
13
```
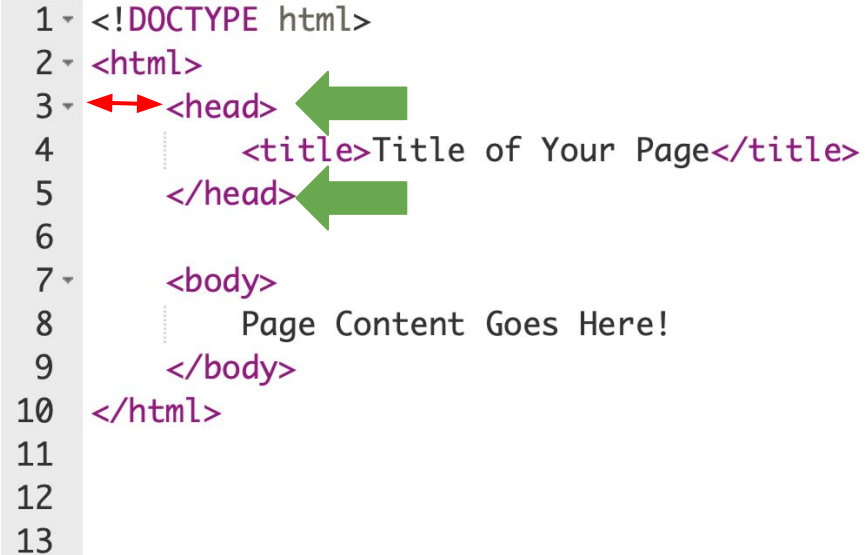
<head> </head>
The head tags contain "metadata," or, information *about* the website. This does not show up on the actual webpage.
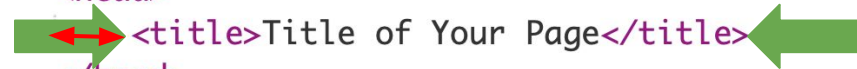
Note the indent!
The <head> tag is *inside* the <html> tag, so it should be indented.

Indentation is not required but is preferred so that your code is easier to read.

Practice Lesson

```
1  <!DOCTYPE html>
2  <html>
3      <head>
4          <title>Title of Your Page</title>
5      </head>
6
7      <body>
8          Page Content Goes Here!
9      </body>
10 </html>
11
12
13
```

Title of Your Page

Page Content Goes Here!

<title> </title>
This is the title of your page. It appears on the tab in your browser.

Note the indent!
The <title> tag is *inside* the <head> tag, so it must be indented further.

Practice Lesson

```
 1  <!DOCTYPE html>
 2  <html>
 3      <head>
 4          <title>Title of Your Page</title>
 5      </head>
 6
 7  ↔   <body>
 8          Page Content Goes Here!
 9      </body>
10  </html>
11
12
13
```

Title of Your Page

Page Content Goes Here!

<body> </body>
This is the body of your page. All the text that appears on your page will be inside these tags.

Note the indent!
The <body> tag is *inside* the <html> tag, so it must be indented.

Standup

At the end of each week we will meet in groups to discuss our progress and answer a few questions:

1. What are you excited about for this club?
2. What are you nervous about?
3. Is there anything you still need help with?

Bonus Hours!! (Not mandatory)

Thursday 01/19 7 PM - 8 PM BZE Time

Bonus hours are provided for you to ask questions outside classroom and get help!

If you do not have questions, you can still join to chat with mentors!

Zoom link to Bonus Hours will be sent via email & Whatsapp.

Weekly Temperature Check

Please fill out this survey to help us improve for next week!
https://forms.gle/9SEF9ex5Q9mkVbL27

Pre-Survey
https://forms.gle/AX6YkstBYDRmru2i7

Super super important^^^

Fill out the attendance as well!! Just once every session