

# MSU x Pathlight Belize Coding Club Spring 2023

Week 1

14 January 2023



SIGSOFT



MICHIGAN STATE UNIVERSITY



PATHLIGHT BELIZE

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## Spring 2023



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# Agenda

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

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10:15-10:45    Welcome, ice breaker

10:45-11        Mentor Introductions

11-11:20        What is BZE/club contract

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11:20-11:50    CodeHS set up + Begin Week 1 Lesson

11:50            Standup & Temperature Check

12:00            Dismiss students



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# 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?

**Link To Club Contract:**

[https://docs.google.com/document/d/1Gf60BZarGczi8H4lgWCxPly4gWRus4rgG3xzhFro\\_nk/edit#heading=h.xtbjk6rcppt](https://docs.google.com/document/d/1Gf60BZarGczi8H4lgWCxPly4gWRus4rgG3xzhFro_nk/edit#heading=h.xtbjk6rcppt)



# 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”
- 

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](https://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!

5 min



# Example #1

## Try lesson 2.1.4: Say Hello!

Use an `<h1>` tag to create the heading

“Hello, Worldwide Web!”

# Example #2 Solution

Switch to Block View

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

 Run Code

 Check Code

 Clear

See HTML in new window

---

# Hello! Worldwide Web!



# Practice Lesson - 2.2.3: HTML Template

```
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 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
```

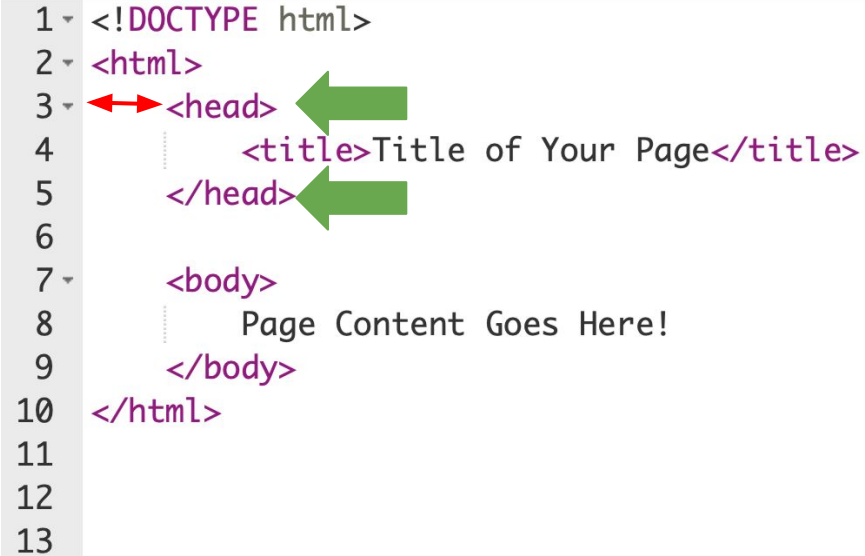
**<html> </html>**

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>
```

 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 & Pre-Survey

Help us improve 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**