

MSU x Pathlight Belize Coding Club

Spring 2023

Week 5

11 February 2023



SIGSOFT



IEEE Technical Council
on Software Engineering



MICHIGAN STATE UNIVERSITY



PATHLIGHT BELIZE

Agenda

9:30 BZT Mentors arrive for set-up

10:05 ish BZT Welcome + Ice Breaker

10:20 BZT Spotlight

10:30 BZT Review / Lesson

11:00 BZT Break

11:05 BZT Lesson continued

11:45 BZT Standup

11:55 BZT Temperature Check

12:00 BZT Dismiss students

Attendance

- Attendance:
 - <https://forms.gle/NXWVE67PBD1isiLr7>

Temperature Check

**Thank you for your feedback,
we're listening!**

Icebreaker - Whiteboard Collage

In breakout rooms share a holiday/ tradition/ event that you celebrate! :)

- Ex:
 - Super Bowl (with friends/ family, any dishes you always have?
 - Every Christmas making cookies with friends
 - Quinceanera
 - Sharing special dishes with one another / fam

Spotlight - Software Engineer

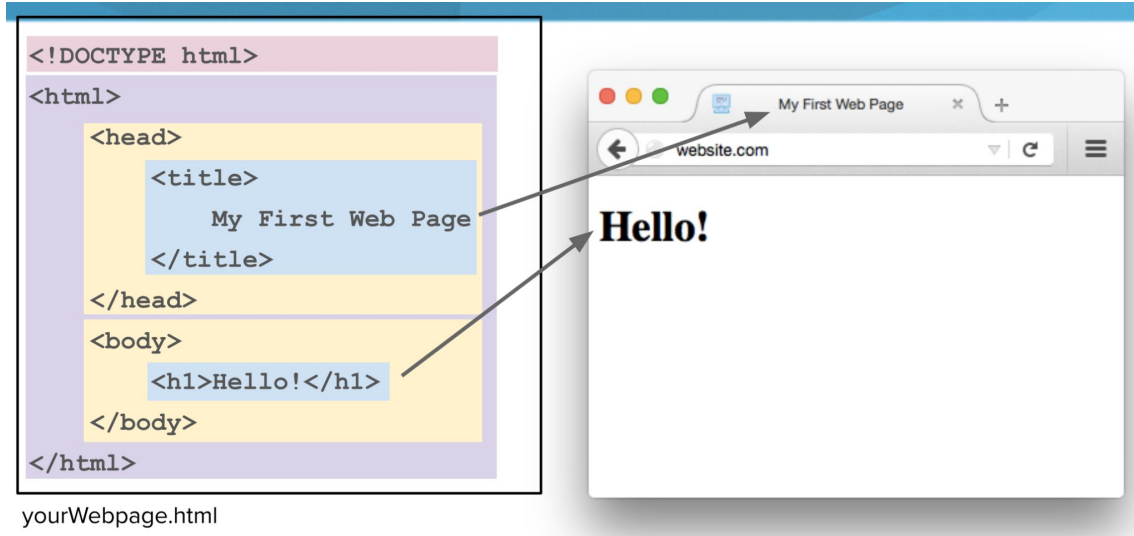


Jess used her experience as a volcanist to fight to bring more women in STEM. What social issues are important to you?

Can you think of a way to use technology to help that cause? (Website, app, device, etc.)

What you've learned so far:

The structure of an HTML web page



What you've learned so far:

Formatting tags

<code><p></code>	paragraph
<code><i></code>	<i>Italic</i>
<code></code>	Bold
<code><hr></code>	horizontal rule
<code>
</code>	Line Break
<code><h1>, <h2> . . . <h6></code>	headings (h1 = largest, h6 = smallest)

What you've learned so far:

Links

```
<a href="https://google.com">  
  Click Me  
</a>
```

Preview

[Click Me](https://google.com)

What you've learned so far:

Images

```

```

Preview



Lists and Tables

Today we're learning about lists and tables.

Can you think of some things you use lists for?
What about tables?

Lists

There are two types of lists:

Ordered and unordered.

Unordered List

``

Grocery List

- Apples
- Bananas
- Milk
- Bread
- Cookies
- Butter

Ordered List

``

To Do List

1. Eat breakfast
2. Get dressed
3. Go to school
4. Do homework
5. Go to soccer practice
6. Go to sleep

Unordered Lists

```
<h1>Grocery List</h1>
<ul>
  <li>Apples</li>
  <li>Bananas</li>
  <li>Milk</li>
  <li>Bread</li>
  <li>Cookies</li>
  <li>Butter</li>
</ul>
```



Grocery List

- Apples
- Bananas
- Milk
- Bread
- Cookies
- Butter

Ordered Lists

```
<h1>To Do List</h1>
<ol>
  <li>Eat breakfast</li>
  <li>Get dressed</li>
  <li>Go to school</li>
  <li>Do homework</li>
  <li>Go to soccer practice</li>
  <li>Go to sleep</li>
</ol>
```



To Do List

1. Eat breakfast
2. Get dressed
3. Go to school
4. Do homework
5. Go to soccer practice
6. Go to sleep

Learn with me! (Mentor Code-Along)

Go to exercise 2.7.3 Grocery Shopping to follow along

15 min



List Example (Peer-Code along)

Go to exercise **2.7.4 Class Planning** in week 4 to work together

Use the unordered list tag `` to create a webpage listing at least 5 classes that you want to take before you graduate.

BONUS CHALLENGE

Try making nested lists under each item of your classes to take list, adding more detail about each class

Break

Time for a break!

If anyone needs to use the bathroom or get a drink,
now's the time!

Tables

<table></table> : wraps around all other tags in the table (the outer box)

<tr></tr> : table row- creates a row in the table

<th></th> : table header- bolded info that describes the data in each column. It usually belongs in the very first row and/or column

<td></td> : table data - information that goes under the headers

border: creates the lines around the rows and columns.
The number decides how thick the border will be.

```
<table border="1">
  <tr>
    <th>Name</th>
    <th>Number</th>
  </tr>
  <tr>
    <td>Karel</td>
    <td>123-4567</td>
  </tr>
</table>
```

Name	Number
Karel	123-4567

Learn with me! (Mentor Code-along)

No exercise to follow along with this time!

15 min



Table Example (Peer Code-along)

Go to **2.8.4 National Sports** to work together

Add three more countries' national sports. You can find a list of the national sports here:

https://en.wikipedia.org/wiki/National_sport

Include all the information for each country in the table (country name, sport name, established by law).

The table should have at least 5 countries in total.

BONUS CHALLENGE

Add extra columns to the table to describe more information about each sport!

Each new column should have its own table header describing the information in that column.

15 min



If there's time... (Peer Code-along)

Go to **2.8.5 Table for Favorites** to work together

Using an HTML table, make a table that lists your favorite things for each day. Each day of the week will be a column in the table. The rows will be your

- favorite food to eat for breakfast
- favorite activity to do on that day
- favorite person to hang out with on that day
- favorite place to go on that day

The table headers should have the name of each day of the week.

BONUS CHALLENGE:

List more than one favorite thing in a table cell (td) by using a list.

My Daily Favorites

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Pancakes	Toast and Peanut butter	Protein Shake	Toast and Peanut butter	Yogurt with granola and berries	Fruit Smoothie	Cereal and milk
Go to the lake	Play soccer	Play board games	Watch TV	Ride my bike	Watch movies	Play baseball
Parents	Janice	Janice	Janice	Janice	Janice	Stevie
Art Museum	Park	Game store	Living room	Park	Mini-Golf Park	Amusement Park

Mentor Feedback

Averi Justice
SGWC 2022

MY LINKS

My Assignments

My Notes

Conversations

Due Dates

My Badges

My Practice

Certifications

Announcements

My Shared Programs

Sandbox Quickstart


Student Dashboard

SGWC 2022 Overview - Averi Justice

Assignments


[View All SGWC 2022 Assignments](#)

Messages (1)

Averi Justice

Grade: 0 / 5 - Need a hint? Go to "Docs" -> "Headers" to learn how to use the <h1> tag!

Resume

Next Assignment: Introduction to HTML

RUN CODE | TEST CASES | ASSIGNMENT | DOCS | **GRADE** | MORE

CURRENT GRADE

Needs Work

as of Feb 02 01:17 AM

0

Out of 5

Grading History

Score: 0 out of 5

Next Step: Needs Work

Graded By: Averi Justice

Timestamp: Feb 02 01:17 AM

Feedback:

Need a hint? Go to **Docs** -> **Headers** to learn how to use the <h1> tag!

Jamboard - Stand Up

Go to the Jamboard and for each question, answer with a sticky note.

You can change the size and color of the note.

No need to put your name, these can be anonymous.

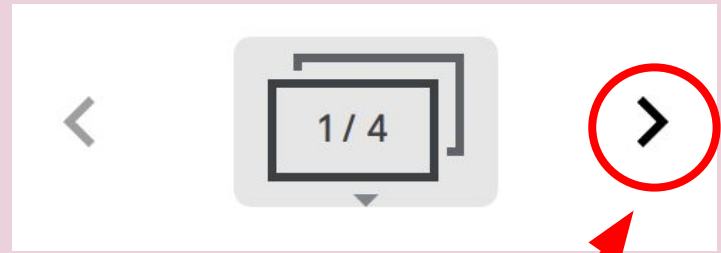


Jamboard - Stand Up

Press the arrows at the top to go through all four questions.

Make sure to put an answer down for at least two!

After a few minutes, we can go through some of the responses. Feel free to elaborate on your answer or respond to someone else's!



Jamboard - Stand Up

1. On a scale of 1 to 10, how are we feeling about today's lesson?
2. What did you enjoy doing today?
3. What was a challenge you faced today?
4. What is something you hope to learn about web development in this course?

Weekly Temperature Check

Please fill out this survey to help us improve for next week!

<https://forms.gle/9SEF9ex5Q9mkVbL27>

Bonus Hours!! (Not mandatory)

Thursday 02/09 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.****

Bonus Hours on Thursdays 7-8 pm

Next session on Saturday 2/18

This weeks goals: finish Week 4 of CodeHS and begin Week 5!



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