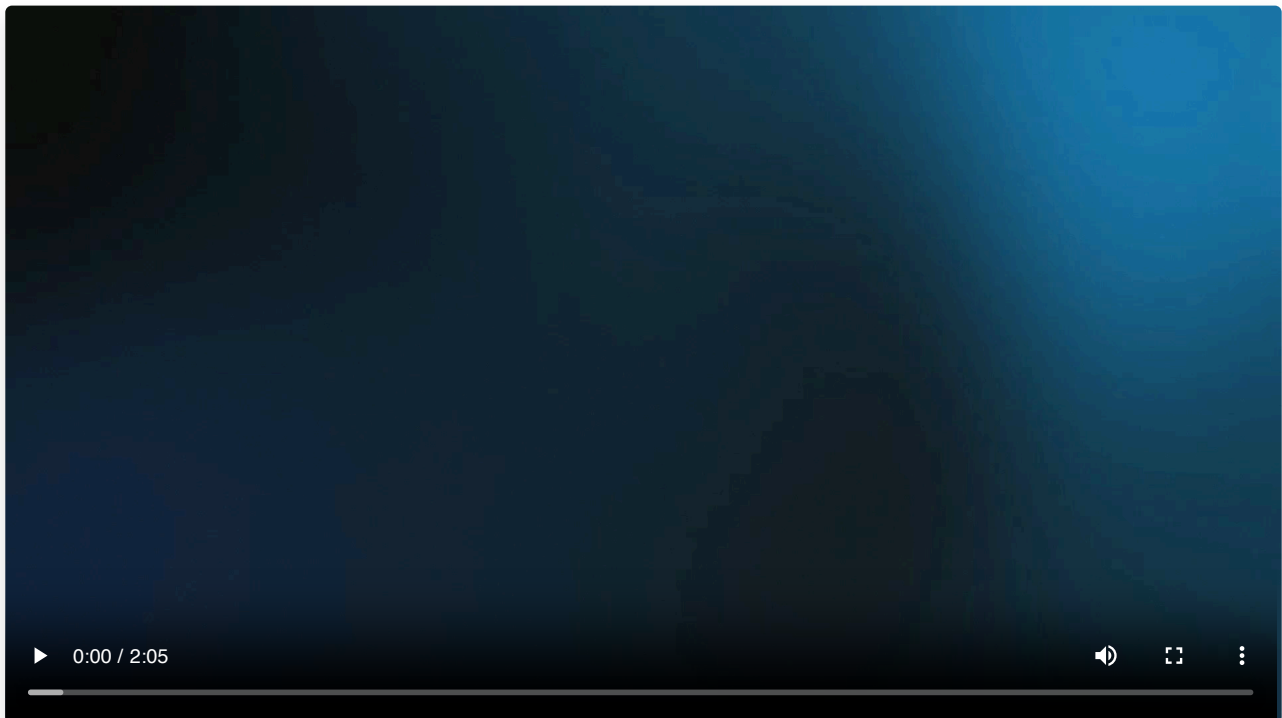


HTML Basics

Textbook

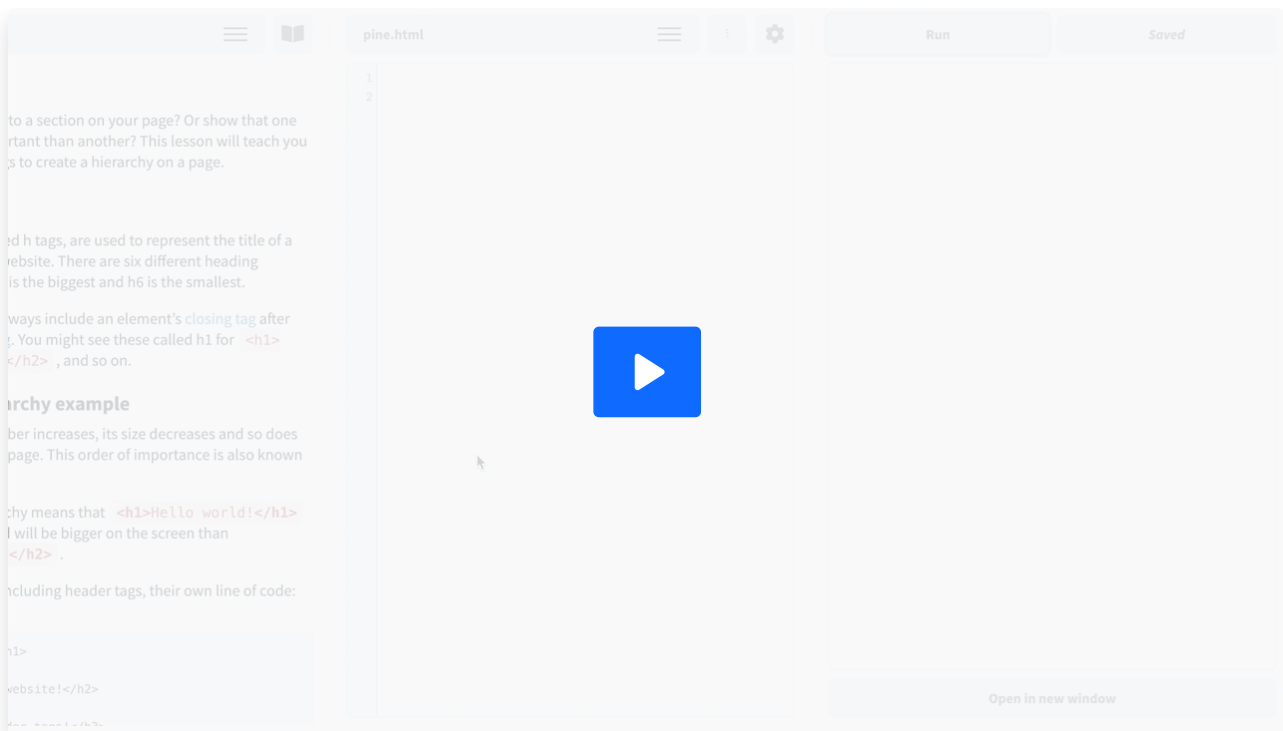
HTML Basics

The Autograder



HTML Basics

In this lesson, you'll learn what [HTML](#) is (and what all those letters actually stand for), plus you'll find out about tags and how they work!



What is HTML?

[HTML](#) is a [programming](#) language used to create websites. [HTML](#) stands for **Hypertext Markup Language**.

Markup languages are used to tell the computer what to display and how to display it on a website. Learning HTML is the first step to making a website, so let's get started!

Make Sure You are in an HTML File if Using Voyage

Before we do anything else, let's make sure we are in the correct file. Check at center of the top of the center column on your code page. Do you have a file name with .html at the end of it? That means you are in an HTML file.

If your file does not have .html on it, click on the file name, scroll to the bottom and select "Create a New File." Name it whatever you would like, and then at the bottom choose the file extension .html.

HTML Tags



HTML uses [tags](#) to create different elements that are displayed or used on a webpage.

HTML tags are different from price tags or the tag on your T-shirt. HTML tags start and end with less-than and greater-than symbols `< >` with the [tagName](#) between those symbols. The tagName defines how the element is used and displayed.

HTML elements are made up of an **opening tag** and a **closing tag** with content sandwiched between them:

- An **opening tag** looks like this: `<h1>`
- A **closing tag** has a backslash before the tagName: `</h1>`
- A complete **element** using these tags looks like this: `<h1>Hello world!</h1>`

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

Try it!

We will explore the following tags and more in upcoming lessons:

`<html>`

`<head>`

`<body>`

`<link>`

`<style>`

`<script>`

`<h1>`

`<p>`

``

``

``

Remember, for your code to work it must have correctly spelled opening and closing tags.

Checkpoint

HTML Basics

In the code editor (the middle box where you can type your code), create h1 tags and insert a hello message such as " `Hello World` " in between them.

Hit the **Run** button to see what your code creates!

Example Output

Hello World

Requirements:

- Header tags with a hello message.

Questions (8)

1. What does HTML use to display content or elements on a web page? These wrap the content displayed on the page.

MULTIPLE CHOICE

Choose the correct answer:

- A. JavaScript
- B. Database Tables
- C. Tags
- D. Fortnite emojis

2. Debug (fix) the following code:

DEBUG CODE

Code to Debug:

```
1 <h1>Hey There!<h1>
```

3. Which of the following is an example of a complete tag in HTML?

MULTIPLE CHOICE

Choose the correct answer:

- A. <h1>Welcome to the Website!</h1>
- B. <h1>Welcome to the Website
- C. <h1>Welcome to the Website<h1>
- D. <h1 Welcome to the Website>

4. What does HTML stand for?

MULTIPLE CHOICE

Choose the correct answer:

- A. Hypertext Markup Language
- B. Hyperlink Markup Language
- C. Hypertext Multi-Language
- D. Hypertext Meta Language

5. What are markup languages used for in relation to websites?

MULTIPLE CHOICE

Choose the correct answer:

- A. Displaying website content.
- B. Running website applications.
- C. Connecting to the internet.
- D. Managing website security.

6. What is the correct syntax for an opening tag in HTML?

MULTIPLE CHOICE

Choose the correct answer:

- A. <tagname>
- B. [tagname]
- C. {tagname}
- D. /tagname/

7. Which of the following represents a closing tag in HTML?

MULTIPLE CHOICE

Choose the correct answer:

- A. </closingtag>
- B. <closingtag>
- C. <:closingtag>
- D. <^closingtag>

8. Debug (fix) the following code:

[DEBUG CODE](#)

Code to Debug:

```
1 <h1 Hey there! /h1>
```

Challenges (8)

1. A Letter to the Hedgehog

Your hedgehog is lonely! Cheer him up with some friendly messages.

Create **3** different `<h1>` tags with different messages you would say to cheer up your pet hedgehog.

Example Output:

Hello Spiky!

You're looking handsome today

Watch the spikes!

Requirements:

- Create three h1 tags that contain messages you would send to a pet hedgehog.

2. Sea Turtle Website

You are a marine biologist and have just made a new discovery about sea turtles! It's time to tell the world about your findings.

Create **3** different `<h1>` tags that contain titles for your website to publish your discoveries.

Make sure to make your headers catchy so people would want to look at what you've discovered!

You need to include the words `sea turtle` in each of your three header tags somewhere.

Example Output:

Sea Turtles Revealed!

New Discoveries about Sea Turtles

It's Sea Turtle Time!

Requirements:

- Create three h1 tags with options for a website title about sea turtles. You need to include the words `sea turtle` in each of your three header tags somewhere.

3. Ocean Voyage

You get to go on a field trip and visit 3 different oceans in the world!

Use **3** different `<h1>` tags to say what oceans you plan to visit.

You must include the word `ocean` in your tags.

Example Output:

I'm going to visit the Atlantic Ocean.

I'm going to visit the Indian Ocean.

I'm going to visit the Arctic Ocean.

Requirements:

- Include 3 tags with 3 oceans you want to visit. You must include the word `ocean` in your tags.

4. Positive Letters

Create `<h1>` tags with one positive word for each of the letters of your first name.

For example: Bill could do

Bright

Imaginative

Learner

Lucky

Example Output:

Marvelous

Adventurous

Riveting

Yippee

Requirements:

- Create an h1 tag for each letter of your first name.

5. Always Be Grateful

Gratitude is key to happiness.

Using a `<h1>` tags, create **3** different messages expressing what you are grateful for.

Start every message with `I'm grateful for` .

Example Output:

I'm grateful for my family.

I'm grateful for my parents.

I'm grateful for my education.

Requirements:

- Create 3 h1 tags beginning with `I'm grateful for` . Start every message with `I'm grateful for`

6. Basketball Tryouts

Tryouts are coming up for the next school year! You get to try out for the basketball team.

Create 3 `<h1>` tags and explain why you should be on the team.

Make sure to include the word `basketball` in each tag.

Example Output:

I like basketball.

I'm good at basketball.

Basketball is my favorite sport.

Requirements:

- Create 3 tags with the word `basketball` in each tag.

7. Training Your Dog

Your new dog needs to be trained correctly.

Create 4 different `<h1>` tags describing tricks that you will teach to your dog, including `sit`, `shake`, `roll over`, and `treat` (make sure to include these words in your tags).

Example Output:

I will teach him how to sit.

My dog learns how to shake!

He will know how to roll over.

He likes to eat a lot of treats.

Requirements:

- Include an `<h1>` tag containing the word `sit`.
- Include an `<h1>` tag containing the dog trick `shake`.
- Include an `<h1>` tag containing the dog trick `roll over`.
- Include an `<h1>` tag containing the dog trick `treat`.

8. Space Journey

You get to travel through space!

Using **4** different `<h1>` tags, list **4** different planets you would like to visit in our solar system.

Example Output:

I want to visit Jupiter!!

I want to visit Mars!

I want to visit Saturn!

I want to visit Neptune!

Requirements:

- Include 4 `<h1>` tags with your 4 favorite planets.

Games (2)

1. HTML Basics Ordering

Order the header tags. Put the opening tag at the top and the closing tag on the bottom.

Full Screen

Audio

Instructions


Answer Key


Pause



Clear All

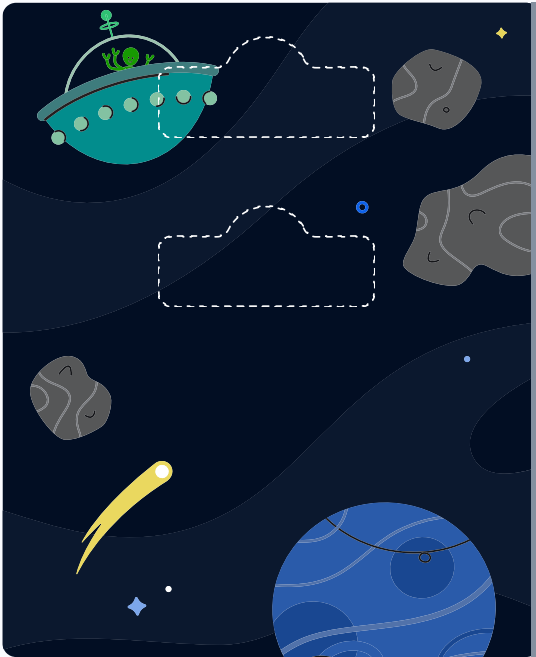
Check Matches

Attempts: 0


</h1>


<h1>





2. HTML Basics Typing

Practice your typing skills with coding keys! Type in the following code.


Full Screen

Audio

Instructions

Restart

Pause



0s100%

<h1>Rainforest Website<

Answer Keys & Solutions

Checkpoint Solutions

HTML Basics

```
1 <h1>Hello World</h1>
```

Questions

1. What does HTML use to display content or elements on a web page? These wrap the content displayed on the page.

MULTIPLE CHOICE

Correct Answer:

A. JavaScript

✗ Incorrect

B. Database Tables

✗ Incorrect

C. Tags

✓ Correct

D. Fortnite emojis

✗ Incorrect

Explanation:

This is an example of one: `<h1> </h1>`

2. Debug (fix) the following code:

DEBUG CODE

Incorrect Code:

```
1 <h1>Hey There!<h1>
```

Correct Solution:

```
1 <h1>Hey There!</h1>
```

Explanation:

This character belongs somewhere: `/`

3. Which of the following is an example of a complete tag in HTML?

MULTIPLE CHOICE

Correct Answer:

- A. `<h1>Welcome to the Website!</h1>` ✓ Correct
- B. `<h1>Welcome to the Website` ✗ Incorrect
- C. `<h1>Welcome to the Website<h1>` ✗ Incorrect
- D. `<h1 Welcome to the Website>` ✗ Incorrect

Explanation:

Don't forget you need both an opening and closing tag! This is a closing tag: `</h1>`

4. What does HTML stand for?

MULTIPLE CHOICE

Correct Answer:

- A. Hypertext Markup Language ✓ Correct
- B. Hyperlink Markup Language ✗ Incorrect
- C. Hypertext Multi-Language ✗ Incorrect
- D. Hypertext Meta Language ✗ Incorrect

Explanation:

HTML is a markup language

5. What are markup languages used for in relation to websites?

MULTIPLE CHOICE

Correct Answer:

- A. Displaying website content. ✓ Correct
- B. Running website applications. ✗ Incorrect
- C. Connecting to the internet. ✗ Incorrect
- D. Managing website security. ✗ Incorrect

Explanation:

Markup languages are responsible for helping content show on the screen.

6. What is the correct syntax for an opening tag in HTML?

MULTIPLE CHOICE

Correct Answer:

- | | |
|--------------|-------------|
| A. <tagname> | ✓ Correct |
| B. [tagname] | ✗ Incorrect |
| C. {tagname} | ✗ Incorrect |
| D. /tagname/ | ✗ Incorrect |

Explanation:

Tags use angle brackets that are sometimes called greater than or less than symbols.

7. Which of the following represents a closing tag in HTML?

MULTIPLE CHOICE

Correct Answer:

- | | |
|------------------|-------------|
| A. </closingtag> | ✓ Correct |
| B. <closingtag> | ✗ Incorrect |
| C. <:closingtag> | ✗ Incorrect |
| D. <^closingtag> | ✗ Incorrect |

Explanation:

Closing tags have a forward slash.

8. Debug (fix) the following code:

DEBUG CODE

Incorrect Code:

```
1 <h1 Hey there! /h1>
```

Correct Solution:

```
1 <h1>Hey there!</h1>
```

Explanation:

Don't forget opening and closing angle brackets for both the opening and closing tag.

Challenges

1. A Letter to the Hedgehog

Solution:

```
1 <h1>Hello Spiky!</h1>
2 <h1>You're looking handsome today</h1>
3 <h1>Watch the spikes!</h1>
```

2. Sea Turtle Website

Solution:

```
1 <h1>Sea Turtles Revealed!</h1>
2 <h1>New Discoveries about Sea Turtles</h1>
3 <h1>It's Sea Turtle Time!</h1>
```

3. Ocean Voyage

Solution:

```
1 <h1>I'm going to visit the Atlantic Ocean.</h1>
2 <h1>I'm going to visit the Indian Ocean.</h1>
3 <h1>I'm going to visit the Arctic Ocean.</h1>
```

4. Positive Letters

Solution:

```
1 <h1>Marvelous</h1>
2 <h1>Adventurous</h1>
3 <h1>Riveting</h1>
4 <h1>Yippee</h1>
```

5. Always Be Grateful

Solution:

```
1 <h1>I'm grateful for my family.</h1>
2 <h1>I'm grateful for my parents.</h1>
3 <h1>I'm grateful for my education.</h1>
```

6. Basketball Tryouts

Solution:

```
1 <h1>I like basketball.</h1>
2 <h1>I'm good at basketball.</h1>
3 <h1>Basketball is my favorite sport.</h1>
```

7. Training Your Dog

Solution:

```
1 <h1>I will teach him how to sit.</h1>
2 <h1>My dog learns how to shake!</h1>
3 <h1>He will know how to roll over.</h1>
4 <h1>He likes to eat a lot of treats.</h1>
```

8. Space Journey

Solution:

```
1 <h1>I want to visit Jupiter!!</h1>
2 <h1>I want to visit Mars!</h1>
3 <h1>I want to visit Saturn!</h1>
4 <h1>I want to visit Neptune!</h1>
```

Games

1. HTML Basics Ordering

Correct Order:

1. <h1>
2. </h1>

Scoring:

- Gold: 1 attempts or fewer
- Silver: 3 attempts or fewer
- Bronze: 5 attempts or fewer

Students must arrange items in the correct sequence.

2. HTML Basics Typing

Typing game - no answer key needed. Students practice typing the provided content.

