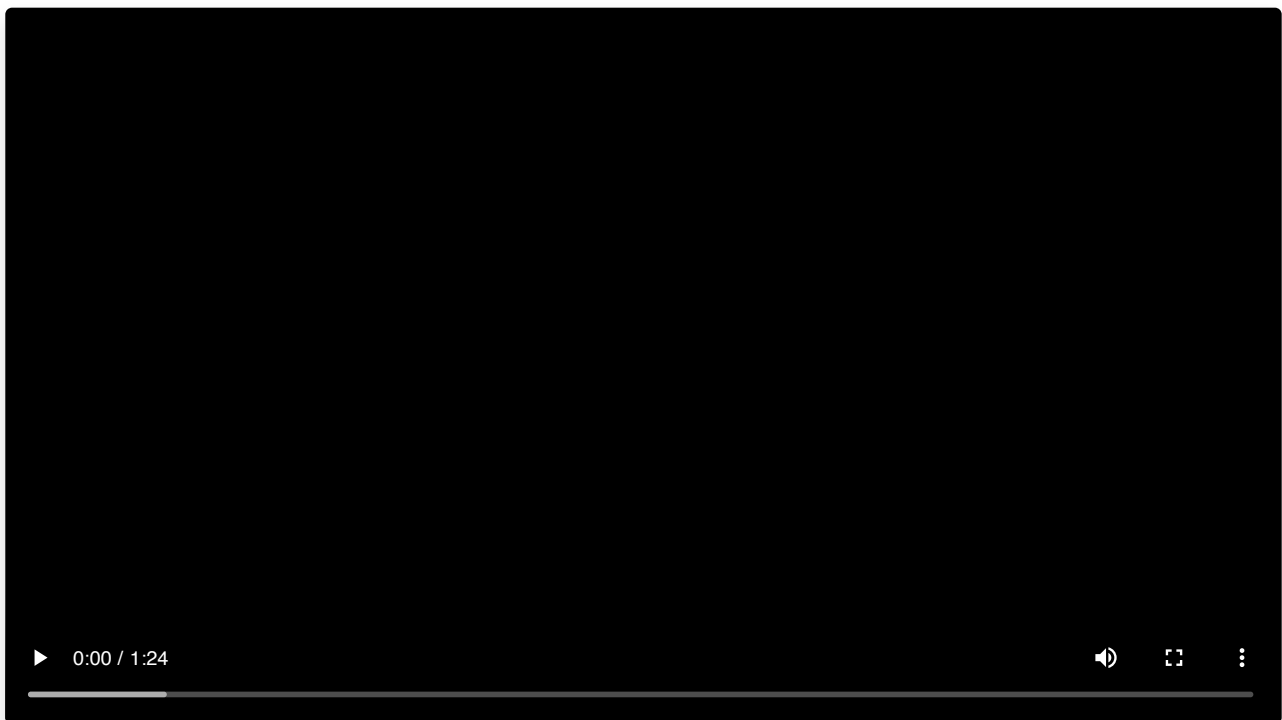


# Heading Tags

## Textbook

# Heading Tags

Want to call attention to a section on your page? Or show that one element is more important than another? This lesson will teach you how to use heading tags to create a hierarchy on a page.



## Heading Tags

Heading [tags](#), also called `<h>` tags, are used to represent the title of a section or page on a website. There are six different heading elements in HTML. H1 creates the biggest font size and h6 creates the smallest font size.

It's good practice to always include an element's [closing tag](#) after writing its [opening tag](#). You might see these called h1 for `<h1></h1>`, h2 for `<h2></h2>`, and so on.

```
1 <h1>Hello World</h1>
2 <h2>How are you?</h2>
```

Try it!

## Heading Tag Hierarchy example

As a heading tag's number increases, its size decreases and so does its importance on the page. This order of importance is also known as a [hierarchy](#).

The heading tag hierarchy means that `<h1>Hello world!</h1>` is more important and will be bigger on the screen than `<h2>Hello world!</h2>`.

How do I organize my tags?

Notice in the example below how each HTML tag, including heading tags, has their own line of code:

```
1 <h1>Hello World!</h1>
2 <h2>Welcome to my website!</h2>
3 <h3>I am using heading tags!</h3>
4 <h4>Coding Rocks!</h4>
```

Try it!

## Algorithms

An algorithm is a set of step-by-step instructions to solve a problem or complete a task. We have just created an algorithm for building a website!

Algorithms are used in many areas, like finding the quickest way to get somewhere, sorting a list of names in order, or recommending a movie based on what you've watched before. They're basically the "how" behind many things computers do.

When comparing algorithms, we look at two main things: **speed** and **memory**.

- **Speed:** Some algorithms are faster, but they might need more memory to work.
- **Memory:** Some use less memory but take longer to run.

The trade-off is that faster algorithms might use more memory, and slower ones might use less. So, depending on what you need, you'll choose an algorithm that balances speed and memory in the best way for your situation.

## Checkpoint

---

### Heading Tags

In your code editor, create **h1** through **h6** tags.

Choose **6** of your favorite **activities, superheroes, foods, or movies**.

Then, rank your **6** chosen items using the heading tag hierarchy.

#### Example Output

**Wonder Woman**

**Scuba Diving**

**Skiing**

**Enchiladas**

**Sushi**

**Ironman**

### Requirements:

- Contains H1 through H6 tags.

## Questions (10)

### 1. Which of the following tags does not belong?

MULTIPLE CHOICE

Choose the correct answer:

- A. `<h1>Hello world!</h1>`
- B. `<h2>Hello world!</h2>`
- C. `<h3>Hello world!</h3>`
- D. `<h4>Hello world!<h4>`
- E. `<h5>Hello world!</h5>`
- F. `<h6>Hello world!</h6>`

### 2. Debug the code to fix the heading tags

DEBUG CODE

Code to Debug:

```
1 <h1>First</h2>
2 <h2>Second</h3>
3 <h3>Third</h4>
4 <h4>Fourth</h5>
5 <h5>Fifth</h6>
6 <h6>Sixth</h7>
```

### 3. Which of the following tags will result in the smallest text on the page?

MULTIPLE CHOICE

Choose the correct answer:

- A. `<h1> Good Morning!</h1>`
- B. `<h2>Good Morning!</h2>`
- C. `<h3>Good Morning!</h3>`
- D. `<h4>Good Morning!</h4>`

**4. What is the following code an example of?**

MULTIPLE CHOICE

**Hey there!**

**Choose the correct answer:**

- A. A header tag
- B. A paragraph tag
- C. A greeting tag
- D. A title tag

**5. As a heading tag's number increases, its size decreases and so does its importance on the page. This order of importance is also known as what?**

MULTIPLE CHOICE

**Choose the correct answer:**

- A. A hierarchy
- B. Algorithmic planning
- C. Instructions
- D. Tag sequencing

**6. Which of the following tags will result in the largest text on the page?**

MULTIPLE CHOICE

**Choose the correct answer:**

- A. <h1>
- B. <h2>
- C. <h3>
- D. <h4>

**7. What does the hierarchy of heading tags represent?**

MULTIPLE CHOICE

**Choose the correct answer:**

- A. The number of tags used in the HTML code.
- B. The order of importance of header tags on the page.
- C. The number of closing tags after writing the opening tags.
- D. The order of tags displayed on the screen.

## 8. Debug the code to fix the heading tags

DEBUG CODE

Code to Debug:

```
1 <h1>First<h1>
2 <h2>Second<h2>
3 <h3>Third<h3>
4 <h4>Fourth<h4>
5 <h5>Fifth<h5>
6 <h6>Sixth<h6>
```

## 9. True or False: Each heading tag should have its own separate line.

MULTIPLE CHOICE

Choose the correct answer:

- A. True
- B. False

## 10. Debug the code to fix the heading tags

DEBUG CODE

Code to Debug:

```
1 <h1>Turtles</h1>
2 <h2>Welcome to the turtles website!</h2>
3 <h3>Turtles are reptiles</h3>
```

## Challenges (8)

### 1. Biggest to Smallest

Make a list of heading tags that makes words appear on your webpage from the biggest to the smallest.

You should have **6** heading tags total with numbers 1-6 after the h like this: `<h?>`

Example Output:

**Hello**

**How**

**Are**

**You**

**Doing**

**Today**

Requirements:

- Create 6 heading tags from biggest to smallest.

## 2. Create a Haiku

A Haiku is a certain kind of Japanese poem. It's only three lines long. The first line must have five syllables. The second line must have seven syllables. The third line must have five syllables.

For example:

*Autumn forest trail.*

*Crunchy leaves under my feet.*

*Sunlight is golden.*

Create a Haiku poem!

The first and third line will be made with `<h3>` tags.

The second tag will be made with an `<h1>` tag.

### Example Output:

**Autumn Forest Trail**

**Crunchy leaves under my feet**

**Sunlight is golden**

### Requirements:

- Create a Haiku.

### 3. Pet Store

List **5** animals that you would like as pets.

Using different heading tags, list the pets in order of favorite to least favorite relative to the word size (your favorite pet should be the largest and your least favorite should be the smallest).

Include the word `pet` in each of your headings.

#### Example Output:

**I'd like a puppy as a pet.**

**I like snakes, they are a cool pet.**

**I want a pet turtle.**

**I would like a fish pet.**

**Goats are a unique pet.**

#### Requirements:

- 5 different tags of your 5 favorite pets

### 4. Whispered Conversation

Create a conversation you might have with a friend that might include some whispering. Maybe you're in a library. Or maybe you are in class and don't want the teacher to overhear your conversation.

Create a series of header tags that write out a conversation. The spoken phrases will be tags with bigger text. The whispered phrases will be tags with smaller text--maybe even tiny text. Your conversation needs to have at least **8 tags**.

#### Example Output:

**Me: Hello Mrs. Jones!**

**Me: How are you today?**

**Mrs. Jones: I'm great! It's good to see you.**

**Me: I left my homework at home!**

**Me: Can I still turn it in?**

**Mrs. Jones: Sorry, it was due today.**

#### Requirements:

- Create at least 8 header tags with different sizes.

## 5. Heading Pattern

Create a pattern of sizes using heading tags. Your pattern needs at least **12** tags.

**Example Output:**

Friend

Friend

Friend

Friend

Friend

Friend

**Requirements:**

- Heading pattern with 12 headers.

## 6. Heading Gradient

Create a heading gradient!

A gradient is a smooth transition.

Create a list of heading tags starting with `<h6>` .

Add an `<h5>` and an `<h4>` .

Add all the heading tag sizes all the way to `<h1>` .

Then start to go back up to `<h6>` .

This will create a cool size gradient with a total of **11 tags**.

**Example Output:**

Hello

Hello

Hello

Hello

Hello

Hello

Hello

**Requirements:**

- Heading gradient with a total of 11 tags.



## 7. Narrow Road

Using different heading tags (starting with h1 down to h6), create a road that gets narrower and narrower.

It will seem as if you are making the road smaller as you scroll down the page.

Use the `|` symbol to make a road ( `| |` is an example of a road, use the header tags to make the road narrow, NOT the space bar).

The `|` symbol is usually found above the return key on the keyboard. This key is called a vertical bar or pipe key.

### Example Output:

||

||

||

||

||

||

### Requirements:

- h1 tag
- h2 tag
- h3 tag
- h4 tag
- h5 tag
- h6 tag

## 8. Dinosaur Tracks

You are looking for some dinosaur tracks.

Using **3** heading tags, name what your **3** favorite types of dinosaurs are followed by how big they are using a scale.

(create a scale like this " |-----| ") The more hyphens you use the bigger the dinosaur.

The biggest dinosaur should use a `<h1>` tag, the medium size dinosaur should use a `<h3>` tag, and the smallest dinosaur should use a `<h6>` tag.

### Example Output:

**T-Rex |-----|**

**Stegosaurus |-----|**

**Velociraptor |---|**

### Requirements:

- Biggest Dinosaur
- Medium Size Dinosaur
- Smallest Dinosaur

# Games (5)

## 1. Heading Matching

Match the following opening tag to it's correct closing tag.

Full Screen

Audio

Instructions

Answer Key

Pause

Clear All

Check Matches

Attempts: 0

<h1>

<h2>

<h3>

</h1>

</h3>

</h6>

<h4>




<h5>

<h6>

</h5>

</h2>

</h4>



## 2. Heading Ordering

Put the list of header tags in order from the header that appears the smallest on the website to the biggest on the website.

Full Screen

Audio

Instructions

Answer Key

Pause

Clear All

Check Matches

Attempts: 0

<h6>Hello There!  
</h6>

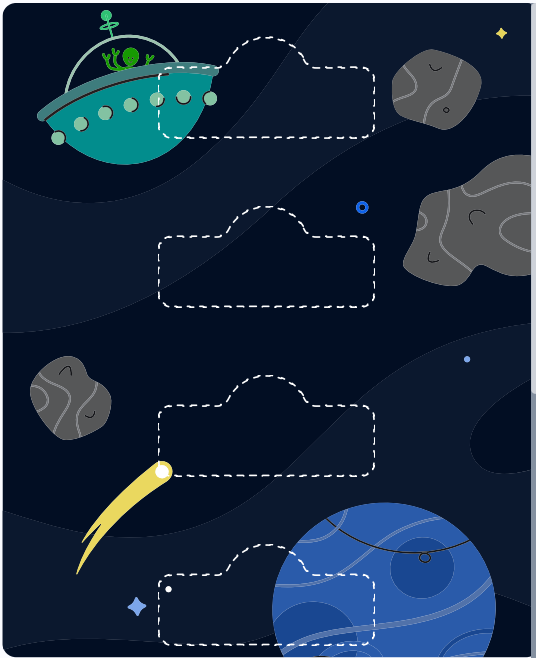
<h3>Hello There!  
</h3>

<h5>Hello There!  
</h5>

<h4>Hello There!  
</h4>

<h2>Hello There!  
</h2>

<h1>Hello There!  
</h1>



### 3. Heading Dinosaur Typing

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

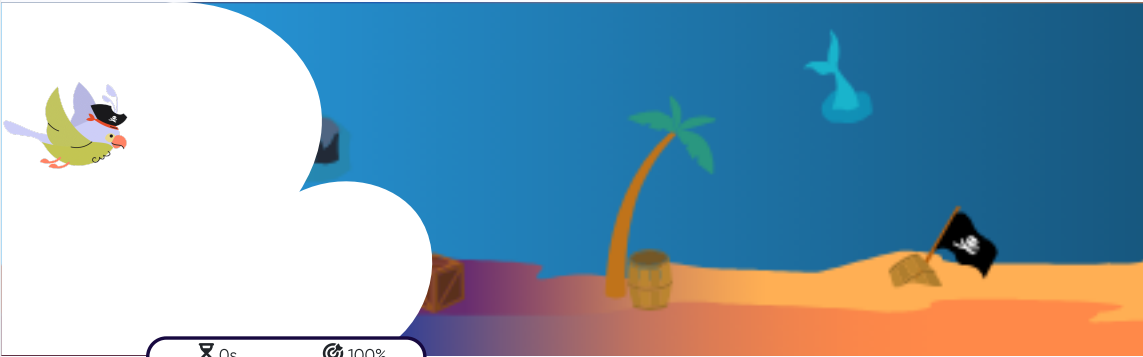
Full Screen

Audio

Instructions

Restart

Pause

The game interface features a colorful background with a blue sky, a yellow sun, a palm tree, a treasure chest, and a pirate flag. A small dinosaur character is visible on the left. A large white speech bubble is on the left side of the screen. Below the speech bubble, a progress bar shows '0s' and '100%'. The text '<h1>Awesome Website Al' is displayed in the center of the screen, with a cursor at the end.

#### 4. Heading Circus Typing

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


Full Screen

Audio

Instructions

Restart

Pause



0s100%

<h1>Welcome to the Circ

## 5. Heading Output Ordering

Put the pieces of code in the right order to match the output.

Full Screen

Audio

Instructions

Answer Key

Pause

Clear All

Check Matches

Attempts: 0

<h5>Porsche</h5>

<h1>Nice Cars</h1>

<h4>Porsche</h4>

<h3>Porsche</h3>

<h2>Porsche</h2>

<h6>Porsche</h6>

Output:

Nice Cars


Porsche


Porsche

Porsche

Porsche

Porsche





## Answer Keys & Solutions

### Checkpoint Solutions

#### Heading Tags

```
1 <h1>Wonder Woman</h1>
2 <h2>Scuba Diving</h2>
3 <h3>Skiing</h3>
4 <h4>Enchiladas</h4>
5 <h5>Sushi</h5>
6 <h6>Ironman</h6>
```

### Questions

#### 1. Which of the following tags does not belong?

MULTIPLE CHOICE

##### Correct Answer:

- |                          |             |
|--------------------------|-------------|
| A. <h1>Hello world!</h1> | ✗ Incorrect |
| B. <h2>Hello world!</h2> | ✗ Incorrect |
| C. <h3>Hello world!</h3> | ✗ Incorrect |
| D. <h4>Hello world!<h4>  | ✓ Correct   |
| E. <h5>Hello world!</h5> | ✗ Incorrect |
| F. <h6>Hello world!</h6> | ✗ Incorrect |

##### Explanation:

Remember that tags need a closing tag with a forward slash! /

#### 2. Debug the code to fix the heading tags

DEBUG CODE

##### Incorrect Code:

```
1 <h1>First</h2>
2 <h2>Second</h3>
3 <h3>Third</h4>
4 <h4>Fourth</h5>
5 <h5>Fifth</h6>
```



6 <h6>Sixth</h7>

### Correct Solution:

```
1 <h1>First</h1>
2 <h2>Second</h2>
3 <h3>Third</h3>
4 <h4>Fourth</h4>
5 <h5>Fifth</h5>
6 <h6>Sixth</h6>
```

### Explanation:

Remember the numbers on the opening and closing heading tag need to match!

## 3. Which of the following tags will result in the smallest text on the page?

MULTIPLE CHOICE

### Correct Answer:

- A. <h1> Good Morning!</h1> ✗ Incorrect
- B. <h2>Good Morning!</h2> ✗ Incorrect
- C. <h3>Good Morning!</h3> ✗ Incorrect
- D. <h4>Good Morning!</h4> ✓ Correct

### Explanation:

Remember that the bigger the number on the header tag, the smaller the text!

## 4. What is the following code an example of?

MULTIPLE CHOICE

### Correct Answer:

- A. A header tag ✓ Correct
- B. A paragraph tag ✗ Incorrect
- C. A greeting tag ✗ Incorrect
- D. A title tag ✗ Incorrect

### Explanation:

h stands for header

5. As a heading tag's number increases, its size decreases and so does its importance on the page. This order of importance is also known as what?

MULTIPLE CHOICE

Correct Answer:

- A. A hierarchy ✓ Correct
- B. Algorithmic planning ✗ Incorrect
- C. Instructions ✗ Incorrect
- D. Tag sequencing ✗ Incorrect

**Explanation:**

Hierarchy is an ordering of importance on the page

6. Which of the following tags will result in the largest text on the page?

MULTIPLE CHOICE

Correct Answer:

- A. <h1> ✓ Correct
- B. <h2> ✗ Incorrect
- C. <h3> ✗ Incorrect
- D. <h4> ✗ Incorrect

**Explanation:**

h1 is the largest text.

7. What does the hierarchy of heading tags represent?

MULTIPLE CHOICE

Correct Answer:

- A. The number of tags used in the HTML code. ✗ Incorrect
- B. The order of importance of header tags on the page. ✓ Correct
- C. The number of closing tags after writing the opening tags. ✗ Incorrect
- D. The order of tags displayed on the screen. ✗ Incorrect

### Explanation:

The hierarchy shows the importance of the tags

## 8. Debug the code to fix the heading tags

DEBUG CODE

### Incorrect Code:

```
1 <h1>First<h1>
2 <h2>Second<h2>
3 <h3>Third<h3>
4 <h4>Fourth<h4>
5 <h5>Fifth<h5>
6 <h6>Sixth<h6>
```

### Correct Solution:

```
1 <h1>First</h1>
2 <h2>Second</h2>
3 <h3>Third</h3>
4 <h4>Fourth</h4>
5 <h5>Fifth</h5>
6 <h6>Sixth</h6>
```

### Explanation:

Don't forget the forward slash in the closing tag!

## 9. True or False: Each heading tag should have its own separate line.

MULTIPLE CHOICE

### Correct Answer:

A. True

✓ Correct

B. False

✗ Incorrect

### Explanation:

Each tag should be on its own line. This keeps everything clean.

## 10. Debug the code to fix the heading tags

DEBUG CODE

### Incorrect Code:

```
1 <h1>Turt les</h1>
```

```
2 <h2>Welcome to the turtles website!</h2>
3 <h3>Turtles are reptiles</h3>
```

#### Correct Solution:

```
1 <h1>Turtles</h1>
2 <h2>Welcome to the turtles website!</h2>
3 <h3>Turtles are reptiles</h3>
```

#### Explanation:

Don't forget the closing angle bracket!

## Challenges

### 1. Biggest to Smallest

#### Solution:

```
1 <h1>Hello</h1>
2 <h2>How</h2>
3 <h3>Are</h3>
4 <h4>You</h4>
5 <h5>Doing</h5>
6 <h6>Today</h6>
```

### 2. Create a Haiku

#### Solution:

```
1 <h3>Autumn Forest Trail</h3>
2 <h1>Crunchy leaves under my feet</h1>
3 <h3>Sunlight is golden</h3>
```

### 3. Pet Store

#### Solution:

```
1 <h1>I'd like a puppy as a pet.</h1>
2 <h2>I like snakes, they are a cool pet.</h2>
3 <h3>I want a pet turtle.</h3>
4 <h4>I would like a fish pet.</h4>
5 <h5>Goats are a unique pet.</h5>
```

### 4. Whispered Conversation

#### Solution:

```
1 <h1>Me: Hello Mrs. Jones!</h1>
```

```
2 <h1>Me: How are you today?</h1>
3 <h1>Mrs. Jones: I'm great! It's good to see you.</h1>
4 <h6>Me: I left my homework at home!</h6>
5 <h6>Me: Can I still turn it in?</h6>
6 <h6>Mrs. Jones: Sorry, it was due today.</h6>
7 <h6>Me: Okay, thank you</h6>
8 <h1>Mrs. Jones: Welcome to class everyone!</h1>
```

## 5. Heading Pattern

Solution:

```
1 <h1>Friend</h1>
2 <h2>Friend</h2>
3 <h3>Friend</h3>
4 <h2>Friend</h2>
5 <h1>Friend</h1>
6 <h2>Friend</h2>
7 <h3>Friend</h3>
8 <h2>Friend</h2>
9 <h1>Friend</h1>
10 <h2>Friend</h2>
11 <h3>Friend</h3>
12 <h2>Friend</h2>
```

## 6. Heading Gradient

Solution:

```
1 <h6>Hello</h6>
2 <h5>Hello</h5>
3 <h4>Hello</h4>
4 <h3>Hello</h3>
5 <h2>Hello</h2>
6 <h1>Hello</h1>
7 <h2>Hello</h2>
8 <h3>Hello</h3>
9 <h4>Hello</h4>
10 <h5>Hello</h5>
11 <h6>Hello</h6>
```

## 7. Narrow Road

Solution:

```
1 <h1>||</h1>
2 <h2>||</h2>
3 <h3>||</h3>
4 <h4>||</h4>
5 <h5>||</h5>
```

## 8. Dinosaur Tracks

**Solution:**

```
1 <h1>T-Rex |-----|</h1>
2 <h3>Stegosaurus |-----|</h3>
3 <h6>Velociraptor |---|</h6>
```

## Games

### 1. Heading Matching

**Matching Game Solutions:**

1. →
2. →
3. →
4. →
5. →
6. →

*Students must drag items from the left to match with corresponding items on the right.*

### 2. Heading Ordering

**Correct Order:**

1. <h6>Hello There!</h6>
2. <h5>Hello There!</h5>
3. <h4>Hello There!</h4>
4. <h3>Hello There!</h3>
5. <h2>Hello There!</h2>
6. <h1>Hello There!</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.*

### 3. Heading Dinosaur Typing

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

### 4. Heading Circus Typing

## 5. Heading Output Ordering

### Correct Order:

1. <h1>Nice Cars</h1>
2. <h2>Porsche</h2>
3. <h4>Porsche</h4>
4. <h5>Porsche</h5>
5. <h3>Porsche</h3>
6. <h6>Porsche</h6>

### Scoring:

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

*Students must arrange items in the correct sequence.*