# Web and App Development - HTML

#### STEP 1

HTML elements have opening tags like <h1> and closing tags like </h1>. The text an element will display goes between its opening and closing tags.

Change the text of the h1 element below from Hello World to CatPhotoApp and watch the change in the browser preview.

```
When you are done, press the "Check Your Code" button to see if it's correct
```

## Step 2

The in through is heading elements are used to signify the importance of content below them. The lower the number, the higher the importance, so kelements have less importance than is elements.

#### ▼ Example Code

#### Example Code

<h1>Hello World</h1>

<hi>>most important heading element</hi><h2>second most important heading element</h2><h3>third most important heading element</h3><h4>fourth most important heading element</h4><h5>fifth most important heading element</h5><h6>least important heading element</h6><h6>least important h

Only use one in element per page and place lower importance headings below higher importance headings.

Below the hi element, add an h2 element with this text:

. . . . .

```
<h1>CatPhotoApp</h1>
<h2>Cat Photos</h2>
```

#### Step 3

The p element is used to create a paragraph of text on websites. Create a p element below your h2 element and give it the following text:

Everyone loves cute cats online!

```
<h2>Cat Photos</h2>
 Everyone loves cute cats online!
```

#### Step 4

Commenting allows you to leave messages without affecting the browser display. It also allows you to make code inactive. A comment in HTML starts with <!--, contains any number of lines of text, and ends with  $\rightarrow$ .

Here is an example of a comment with the TODO: Remove h1:

Example Code

<!-- TODO: Remove h1 ightarrow

Add a comment above the p element with this text:

TODO: Add link to cat photos

```
<!-- TODO: Add link to cat photos →
<p>Everyone loves cute cats online!
```

## Step 5

HTML5 has some elements that identify different content areas. These elements make your HTML easier to read and help with Search Engine Optimization (SEO) and accessibility.

The main element is used to represent the main content of the body of an HTML document. Content inside the main element should be unique to the document and should not be repeated in other parts of the document.

Example Code

<main>

<h1>Most important content of the document</h1>

Some more important content...

:/main>

Identify the main section of this page by adding a <main> opening tag before the h1 element, and a </main> closing tag after the p element.

```
<main>
<h1>CatPhotoApp</h1>
<h2>Cat Photos</h2>
<!-- TODO: Add link to cat photos →
<p>Everyone loves cute cats online!
</main>
```

## Step 6

In the previous step, you put the h1, h2, comment, and p elements inside the main element. This is called *nesting*. Nested elements should be placed two spaces further to the right of the element they are nested in. This spacing is called indentation and it is used to make HTML easier to read.

Here is an example of nesting and indentation:

Example Code

· <main>

<h1>Most important content of the document</h1>

Some more important content...

:/main>

The h1 element, h2 element and the comment are indented two spaces more than the main element in the code below. Use the space bar on your keyboard to add two more spaces in front of the p element so that it is indented properly as well.

```
<main>

<h2>CatPhotoApp</h1>
<h2>Cat Photos</h2>
<l->TODO: Add link to cat photos →

Everyone loves cute cats online!
</main>
```

## Step 7

You can add images to your website by using the img element. img elements have an opening tag without a closing tag. An element without a closing tag is known as a void element.

Add an img element below the p element. At this point, no image will show up in the browser.

```
Everyone loves cute cats online!
<imq>
```

#### Step 8

HTML attributes are special words used inside the opening tag of an element to control the element's behavior. The src attribute in an img element specifies the image's URL (where the image is located).

Here is an example of an img element with a src attribute pointing to the freeCodeCamp logo:

Example Code

<img src="https://cdn.freecodecamp.org/platform/universal/fcc\_secondary.svg">

Inside the existing ima element, add a src attribute with this URL:

https://cdn.freecodecamp.org/curriculum/cat-photo-app/relaxing-cat.jpg

<img src="https://cdn.freecodecamp.org/curriculum/cat-photo-app/relaxing-cat.jpg">

#### Step 9

All img elements should have an alt attribute. The alt attribute's text is used for screen readers to improve accessibility and is displayed if the image fails to load.

Here is an example of an img element with an alt attribute:

Example Code

Inside the img element, add an alt attribute with this text:

A cute orange cat lying on its back

```
<imq src="cat.jpg" alt="A cute orange cat lying on its back">
```

#### Step 10

You can link to another page with the anchor (a) element.

Here is an example linking to https://www.freecodecamp.org:

Example Code

<a href="https://www.freecodecamp.org"></a>

Add an anchor element after the paragraph that links to https://freecatphotoapp.com. At this point, the link won't show up in the preview.

```
Everyone loves cute cats online!
<a href="https://freecatphotoapp.com"></a>
```

### Step 11

A link's text must be placed between the opening and closing tags of an anchor (a) element.

Here is an example of a link with the text click here to go to freeCodeCamp.org:

▼ Example Code

Example Code

<a href="https://www.freecodecamp.org">click here to go to freeCodeCamp.org</a>

Add the anchor text cat photos to the anchor element. This will become the link's text.

```
<\!\!a\;href="https://freecatphotoapp.com">cat\;photos</a>>
```

# Step 12

Add the words See more before the anchor element and in our gallery after the anchor element.

```
<a href="https://freecatphotoapp.com">cat photos</a>
```

## Step 13

Add p tags to turn See more <a href="https://freecatphotoapp.com">cat photos</a> in our gallery. into a paragraph.

```
p > See \ more \ <a href="https://freecatphotoapp.com">cat photos</a> in our gallery.< <math display="block">p/>
```

# Step 14

Turn the existing text cute cats into an anchor element that links to:

```
https://cdn.freecodecamp.org/curriculum/cat-photo-app/running-cats.jpg
```

 $<\!\!p\!\!>\!\!Everyone\ loves <\!\!a\ href="https://cdn.freecodecamp.org/curriculum/cat-photo-app/running-cats.jpg">cute\ cats<\!\!a/\!\!>online!<\!/p>$ 

## Step 15

To open links in a new tab, you can use the  $$_{\hbox{\scriptsize target}}$$  attribute on the anchor (  $_{\hbox{\scriptsize a}}$  ) element.

The target attribute specifies where to open the linked document. The target attribute specifies where to open the linked document in a new tab or window.

Here is the basic syntax for an  ${\color{red}\mathtt{a}}$  element with a  ${\color{red}\mathtt{target}}$  attribute:

▼ Example Code

Example Code

```
<a href="https://www.freecodecamp.org" target="_blank">freeCodeCamp</a>
```

Add a target attribute with the value \_blank to the anchor (a) element's opening tag, so that the link opens in a new tab.

```
<\!p\!>\!See\ more\ <\!a\ href="https://freecatphotoapp.com"\ target="\_blank">\!cat\ photos</a> in our gallery. <\!/p>
```

# Step 16

Now that you have added the link you can remove the comment.

```
Everyone loves <a href="https://cdn.freecodecamp.org/curriculum/cat-photo-app/running-cats.jpg">cute cats</a> online!
See more <a target="_blank" href="https://freecatphotoapp.com">cat photos</a> in our gallery.
```

In previous steps you used an anchor element to turn text into a link. Other types of content can also be turned into a link by wrapping it in anchor tags.

Here is an example of turning an image into a link:

▼ Example Code

Example Code

<a href="example-link"><img src="image-link.jpg" alt="A photo of a cat."></a>

Turn the image into a link by surrounding it with necessary element tags. Use https://freeatphotoapp.com as the anchor's heef attribute value.

```
<a href="https://freecatphotoapp.com">
<img src="https://cdn.freecodecamp.org/curriculum/cat-photo-app/relaxing-cat.jpg" alt="A cute orange cat lying on its back."></a>
```

#### Step 18

Before adding any new content, you should make use of a section element to separate the cat photos content from the future content.

The section element is used to define sections in a document, such as chapters, headers, footers, or any other sections of the document. It is a semantic element that helps with SEO and accessibility.

▼ Example Code

Example Code

<section><h2>Section Title</h2><n>Section content...</n></section:

Take your h2, comment, p, and anchor (a) elements and nest them in a section element

### Step 19

It is time to add a new section. Add a second section element below the existing section element.

# Step 20

Within the second  $\,$  section  $\,$  element, add a new  $\,$  h2  $\,$  element with the text  $\,$  Cat Lists .

## Step 21

When you add a lower rank heading element to the page, it's implied that you're starting a new subsection.

After the last h2 element of the second section element, add an h3 element with this text:

## Step 22

To create an unordered list of items, you can use the  $\underline{\mathbf{u}}$  element.

After the high element with the Things cats love: text, add an unordered list (ul) element. Note that nothing will be displayed at this point.

```
<h2>Cat Lists</h2>
<h3>Things cats love:</h3>
```

## Step 23

The  $\overline{\mbox{\sc i}}$  element is used to create a list item in an ordered or unordered list.

Here is an example of list items in an unordered list:

▼ Example Code

Example Code

<l

Within the  $\underline{\mathbf{u}}$  element nest three list items to display three things cats love:

```
laser pointers
lasagna
   cat nip
  laser pointerslasagna
  Step 24
After the unordered list, add a new image with a src attribute value set to:
And its attribute value to:
A slice of lasagna on a plate.
       laser pointers
       lasagna
       <img src="https://cdn.freecodecamp.org/curriculum/cat-photo-app/lasagna.jpg" alt="A slice of lasagna on a plate.">
Step 25
The figure element represents self-contained content and will allow you to associate an image with a caption.
Nest the image you just added within a figure element.
       <img src="https://cdn.freecodecamp.org/curriculum/cat-photo-app/lasagna.jpg" alt="A slice of lasagna on a plate.">
     </figure>
Step 26
A figure caption ( figcaption ) element is used to add a caption to describe the image contained within the figure element.
Here is an example of a {}^{\mbox{\scriptsize figcaption}} element with the caption of {}^{\mbox{\scriptsize A cute cat}} :
 ▼ Example Code
   Example Code
After the image nested in the figure element, add a figcaption element with text set to:
       <img src="https://cdn.freecodecamp.org/curriculum/cat-photo-app/lasagna.jpg" alt="A slice of lasagna on a plate.">
       <figcaption>Cats love lasagna</figcaption>
       </figure>
Step 27
To place emphasis on a specific word or phrase, you can use the em element.
Emphasize the word love in the figcaption element by wrapping it in an emphasis em element.
 <figcaption>Cats <em>love</em> lasagna.</figcaption>
Step 28
After the figure element, add another h3 element with the text:
Top 3 things cats hate:
        <img src="https://cdn.freecodecamp.org/curriculum/cat-photo-app/lasagna.jpg" alt="A slice of lasagna on a plate.">
       <figcaption>Cats <em>love</em> lasagna.</figcaption>
      <h3>Top 3 things cats hate:</h3>
Step 29
The code for an ordered list ( o ) is similar to an unordered list, but list items in an ordered list are numbered when displayed.
Below the 13 element, add an ordered list with these three list items:
flea treatment thunder other cats
  <h3>Top 3 things cats hate:</h3>
      flea treatment
       <\!\!\textbf{li}\!\!>\!\!thunder\!\!<\!\!/\textbf{li}\!\!>
      other cats
Step 30
After the ordered list, add another figure element.
              flea treatment
```

thunderother cats

```
</figure>
```

```
Inside the figure element you just added, nest an img_element with a src_attribute set to https://cdn.freecodecamp.org/curriculum/cat-photo-app/cats.jpg .

<figure>
  <ingsrc="https://cdn.freecodecamp.org/curriculum/cat-photo-app/cats.jpg"
```

```
</figure>
```

# Step 32

To improve accessibility of the image you added, add an at attribute with the text:

Five cats looking around a field.

```
\verb|\cimgsrc="https://cdn.freecodecamp.org/curriculum/cat-photo-app/cats.jpg"| \verb| alt="Five cats looking around a field."> \\ |\cite{thm:cat-photo-app/cats.jpg"}| |\cite{thm:cat-photo-app/cats.jpg"
```

# Step 33

After the last img element, add a figcaption element with the text Cats hate other cats.

```
<figure>
    <ing src="https://cdn.freecodecamp.org/curriculum/cat-photo-app/cats.jpg" alt="Five cats looking around a field.">
    <figcaption>Cats hate other cats.</figcaption>
    </figure>
```

### Step 34

The strong element is used to indicate that some text is of strong importance or urgent.

In the figcaption you just added, indicate that hate is of strong importance by wrapping it in a strong element.

```
<figcaption>Cats <strong>hate</strong> other cats.</figcaption>
```

# Step 35

It is time to add a new section. Add a third  $_{\scriptsize \mbox{\footnotesize section}}$  element below the second  $_{\scriptsize \mbox{\footnotesize section}}$  element.

```
<h2>Cat Lists</h2>
<h3>Things cats love:</h3>
cat nip
 laser pointers
 lasagna
<figure>
 <mg src="https://cdn.freecodecamp.org/curriculum/cat-photo-app/lasagna.jpg" alt="A slice of lasagna on a plate.">
 <figcaption>Cats <em>love</em> lasagna.</figcaption>
</figure:
<h3>Top 3 things cats hate:</h3>
flea treatment
 thunder
 other cats
</01>
<figure>
 <figcaption>Cats <strong>hate</strong> other cats.</figcaption>
</section>
<section> </section>
```

# Step 36

Inside the third section element, add an h2 element with the text:

```
<section>
<h2>Cat Form</h2>
</section>
```

## Step 37

Now you will add a web form to collect information from users.

The form element is used to get information from a user like their name, email, and other details.

After the Cat Form heading, add a form element.

```
<h2>Cat Form</h2>
<form></form>
```

# Step 38

```
The action attribute indicates where form data should be sent.
```

Here is an example of a form element with an action attribute:

▼ Example Code

#### Example Code

<form action="/submit-url"></form:

In the example, action="/submit-uri" tells the browser that the form data should be sent to the path /submit-uri.

Add an action attribute with the value https://freecatphotoapp.com/submit-cat-photo to the form element.

### Step 39

The input element allows you several ways to collect data from a web form. Like img elements, input elements are a void element and do not need closing tags.

Nest an input element in the form element.

# Step 40

There are many kinds of inputs you can create using the type attribute. You can easily create a password field, reset button, or a control to let users select a file from their computer.

Create a text field to get text input from a user by adding the type attribute with the value text to the input element.

<input type='text'>

# Step 41

In order for a form's data to be accessed by the location specified in the action attribute, you must give the text field a name attribute and assign it a value to represent the data being submitted. Here is an example of an appear element with a name attribute:

▼ Example Code

**Example Code** 

Add the name attribute with the value catphotourl to your text field.

input type="text" name="catphotourl">

# Step 42

Placeholder text is used to give people a hint about what kind of information to enter into an input.

Here is an example of an  $_{\hbox{\scriptsize input}}$  element with a placeholder set to  $_{\hbox{\scriptsize Ex. Jane Doe}}$  :

▼ Example Code

Example Code

<input type="text" placeholder="Ex. Jane Doe">

Add the placeholder text cat photo URL to your input element.

<input type="text" name="catphotourl" placeholder="cat photo URL">

# Step 43

To prevent a user from submitting your form when required information is missing, you need to add the required attribute to an input element. There's no need to set a value to the required attribute. Instead, just add the word required to the input element, making sure there is space between it and other attributes.

<input type="text" required=" name="catphotourl" placeholder="cat photo URL">

# Step 44

The button element is used to create a clickable button.

Add a button element with the text Submit below the input element. The default behavior of clicking a form button without any attributes submits the form to the location specified in the form's action attribute.

<input type="text" name="catphotourl" placeholder="cat photo URL" required>
<button>Submit</button>

# Step 45

Even though you added your button below the text input, they appear next to each other on the page. That's because both input and button elements are inline elements, which don't appear on new lines.

The button you added will submit the form by default. However, relying on default behavior may cause confusion. Add the type attribute with the value to the button to make it clear that it is a submit button.

<button type="Submit"</button>

# Step 46

You can use radio buttons for questions where you want only one answer out of multiple options.

Here is an example of a radio button with the text set as  $\ensuremath{\text{cat}}$  :

▼ Example Code
Example Code

<input type="radio"> cat

```
Remember that an input, element is a void element.

Before the text input, add a radio button with the text set as:

indoor

<input type="radio"> Indoor

<input type="text" name="catphotourl" placeholder="cat photo URL" required>
```

label elements are used to help associate the text for an input element with the input element itself (especially for assistive technologies like screen readers).

Here is an example of a label element with a radio button:

▼ Example Code

**Example Code** 

<label><input type="radio"> cat</label>

In the example, clicking on the word "cat" will also select the radio button.

Nest your radio button inside a label element.

<label><input type="radio"> Indoor</label>

# Step 48

The 🔞 attribute is used to identify specific HTML elements. Each 📓 attribute's value must be unique from all other 🔞 values for the entire page.

Here is an example of an input element with an id attribute:

▼ Example Code

**Example Code** 

<input id="email">

Add an id attribute with the value indoor to the radio button. When elements have multiple attributes, the order of the attributes doesn't matter.

<label><input id="indoor" type="radio"> Indoor</label>

## Step 49

Create another radio button below the first one. Nest it inside a label element with Outdoor as the label text. Give the radio button an lot attribute with outdoor as the value.

```
<label><input id="indoor" type="radio"> Indoor</label>
<label><input id="outdoor" type="radio"> Outdoor</label>
```

# Step 50

Notice that both radio buttons can be selected at the same time. To make it so selecting one radio button automatically deselects the other, both buttons must have a name attribute with the same value.

Here is an example of two radio buttons with the same name attribute:

▼ Example Code

Example Code

<input type="radio" name="meal"> Breakfas

Add the name attribute with the value indoor-outdoor to both radio buttons.

```
<label><input id="indoor" type="radio" name="indoor-outdoor"> Indoor</label>
<label><input id="outdoor" type="radio" name="indoor-outdoor"> Outdoor</label>
```

# Step 51

If you select the indoor radio button and submit the form, the form data for the button is based on its name and value attributes. Since your radio buttons do not have a value attribute, the form data will include indoor-outdoor-on, which is not useful when you have multiple buttons.

Add a value attribute to both radio buttons. For convenience, set the button's value attribute to the same value as its id attribute.

```
<label><input id="indoor" type="radio" name="indoor-outdoor" value="indoor"> Indoor</label></label><input id="outdoor" type="radio" name="indoor-outdoor" value="outdoor"> Outdoor</label></label>
```

# Step 52

The necesser element is used to group related inputs and labels together in a web form. fielded, elements are block-level elements, meaning that they appear on a new line

Nest the Indoor and Outdoor radio buttons within a fieldset element, and don't forget to indent the radio buttons.

```
<fieldset>
    <label><input id="indoor" type="radio" name="indoor-outdoor" value="indoor"> Indoor</label>
    <label><input id="outdoor" type="radio" name="indoor-outdoor" value="outdoor"> Outdoor</label>
    </fieldset>
```

# Step 53

The legend element acts as a caption for the content in the fieldset element. It gives users context about what they should enter into that part of the form.

Add a legend element with the text is your cat an indoor or outdoor cat? above both of the radio buttons.

```
<fieldset>
    <legend>Is your cat an indoor or outdoor cat?</legend>
    <label><input id="indoor" type="radio" name="indoor-outdoor" value="indoor</label>
    <label><input id="outdoor" type="radio" name="indoor-outdoor" value="outdoor"> Outdoor</label>
    </fieldset>
```

Next, you are going to add some new form input elements, so add another fieldset element directly below the current fieldset element.

```
<fieldset>
    <legend>Is your cat an indoor or outdoor cat?</legend>
    <label><input id="indoor" type="radio" name="indoor-outdoor" value="indoor"> Indoor</label>
    <label><input id="outdoor" type="radio" name="indoor-outdoor" value="outdoor"> Outdoor</label>
    </fieldset>
    <fieldset> </fieldset>
```

### Step 55

Add a legend element with the text What's your cat's personality? inside the second fieldset element.

```
<fieldset>
    <legend> what's your cat's personality?</legend>
    </fieldset>
```

# Step 56

Forms commonly use checkboxes for questions that may have more than one answer. The input element with a type attribute set to checkbox creates a checkbox.

Under the legend element you just added, add an input with its type attribute set to checkbox and its text set to:

```
<legend>What's your cat's personality?<input type="checkbox"> Loving
```

# Step 57

Add an id attribute with the value loving to the checkbox input.

```
<input type="checkbox" id="loving">
```

## Step 58

There's another way to associate an input element's text with the element itself. You can nest the text within a label element and add a for attribute with the same value as the input element's id attribute.

Given an input element as below:

▼ Example Code Example Code

cinput id="breakfast" type="radio" name="meal" value="breakfast">
An example of a label element that is associated to this input element is:

▼ Example Code

Example Code

```
<label for="breakfast">Breakfast</label
```

Associate the text Loving with the checkbox by nesting only the text Loving in a label element and giving it an appropriate for attribute.

```
<input id="loving" type="checkbox"> <label for="loving">Loving</label>
```

# Step 59

Add the  $_{\mbox{\scriptsize name}}$  attribute with the value  $_{\mbox{\scriptsize personality}}$  to the checkbox  $_{\mbox{\scriptsize input}}$  element.

While you won't notice this in the browser, doing this makes it easier for a server to process your web form, especially when there are multiple checkboxes.

```
<input id="loving" type="checkbox" name="personality"> <label for="loving">Loving</label>
```

# Step 60

Add another checkbox after the one you just added. The is attribute value should be income attribute value should be the same as the last checkbox.

Also add a label element to the right of the new checkbox with the text Lazy. Make sure to associate the label element with the new checkbox using the for attribute.

```
<input id="loving" type="checkbox" name="personality" />
<label for="loving">Loving</label>
<input id="lazy" type="checkbox" name="personality" /><label for="lazy"
>Lazy</label>>
```

# Step 61

Add a final checkbox after the previous one with an id attribute value of energetic. The name attribute should be the same as the previous checkbox.

```
Also add a label element to the right of the new checkbox with text Energetic. Make sure to associate the label element with the new checkbox.
```

# Step 62

Like radio buttons, form data for selected checkboxes are name / value attribute pairs. While the value attribute is optional, it's best practice to include it with any checkboxes or radio buttons on the page.

Add a value attribute to each checkbox. For convenience, set each checkbox's value attribute to the same value as its id attribute.

```
<fieldset>
<legend>!s your cat an indoor or outdoor cat?</legend>
<label
> <input id="indoor" type="radio" name="indoor-outdoor" value="indoor">
Indoor</label
> <input id="outdoor" type="radio" name="indoor-outdoor" value="outdoor">
Outdoor</label
> <input id="outdoor" type="radio" name="indoor-outdoor" value="outdoor">
Outdoor</label
> <ifieldset>
<fieldset>
<fieldset>
<legend>-What's your cat's personality?</legend>
<input id="loving" type="checkbox" name="personality" value="loving">
<label for="loving" type="checkbox" name="personality" value="lazy">
<label for="loving">
<input id="lazy" type="checkbox" name="personality" value="lazy">
<label for="loving">
<label for="loving">
<input id="lazy" type="checkbox" name="personality" value="lazy">
<label for="energetic" type="checkbox" name="personality" value="energetic">
</input id="nazy">
<input id="nazy"
</input id="nazy"
</input id="nazy">
<input id="nazy"
</input id="nazy"
</input id="nazy"
</input id="nazy"
</input id="nazy"
</input id="nazy"
</input id="nazy"
</
```

## Step 63

In order to make a checkbox checked or radio button selected by default, you need to add the checked attribute to it.

Here is an example of a radio button with the checked attribute:

▼ Example Code

Example Code

<input checked type="radio" name="meal" value="breakfast"> Breakfast

There's no need to set a value to the checked attribute. Instead, just add the word checked to the input element, making sure there is space between it and other attributes.

Make the first radio button and the first checkbox selected by default.

```
<fieldset>
 <legend>Is your cat an indoor or outdoor cat?</legend>
<label
 ><input
  id="indoor"
  type="radio"
  name="indoor-outdoor"
  value="indoor"
  checked
 Indoor</label
  ><input id="outdoor" type="radio" name="indoor-outdoor" value="outdoor" />
 Outdoor</label
</fieldset>
 <le>elegend>What's your cat's personality?</legend>
 <input
 id="loving"
 type="checkbox"
 name="personality"
 value="loving"
 checked
<label for="loving">Loving</label>
 <input id="lazy" type="checkbox" name="personality" value="lazy" />
 <label for="lazv">Lazv</label>
clause rol = lazy > Lazy\rouse.
cliput id="energetic" type="checkbox" name="personality" value="energetic" />
clabel for="energetic"> Energetic</label>
</fieldset>
```

# Step 64

The footer element is used to define a footer for a document or section. A footer typically contains information about the author of the document, copyright data, links to terms of use, contact information, and more.

After the main element, add a footer element.

```
</main>
<footer></footer>
</body>
```

# Step 65

Nest a  $_{p}$  element with the text  $_{\text{No Copyright - freeCodeCamp.org}}$  within the  $_{\text{footer}}$  element.

```
<footer>
    No Copyright - freeCodeCamp.org
</footer>
```

# Step 66

Turn the existing freeCodeCamp.org text into a link by enclosing it in an anchor ( ) element. The heef attribute should be set to https://www.freecodecamp.org

```
No Copyright - <a href="https://www.freecodecamp.org">
```

freeCodeCamp.org </a>

## Step 67

Notice that everything you've added to the page so far is inside the body element. All page content elements that should be rendered to the page go inside the body element. However, other important information goes inside the lead element.

The head element is used to contain metadata about the document, such as its title, links to stylesheets, and scripts. Metadata is information about the page that isn't displayed directly on the page.

Add a head element above the body element.

```
<html>
<head></head>
<body>
```

### Step 68

The title element determines what browsers show in the title bar or tab for the page.

Add a title element within the head element using the text below:

```
CatPhotoApp
```

# </head>

<title>CatPhotoApp</title>

Notice that the entire contents of the page are nested within an item element. The item element is the root element of an HTML page and wraps all content on the page.

You can also specify the language of your page by adding the languagte attribute to the humi element.

Add the lang attribute with the value en to the opening ham tag to specify that the language of the page is English.

<html lang="en">

# Step 70

All pages should begin with SUDCTYPE html>. This special string is known as a declaration and ensures the browser tries to meet industry-wide specifications.

\*\*DOCTYPE html>\* tells browsers that the document is an HTML5 document which is the latest version of HTML.

Add this declaration as the first line of the code.

```
<!DOCTYPE html>
<html lang="en">
```

# Step 71

You can set browser behavior by adding metal elements in the head. Here's an example:

▼ Example Code

Example Code

Inside the head element, nest a metal element with an attribute named charact. Set to the value to wife which tells the browser how to encode characters for the page.

Note that the metal element is a void element.

With that last change, you have completed the Cat Photo App project. Congratulations!

```
<meta charset="utf-8">
<title>CatPhotoApp</title>
</head>
```